ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2

LABORATORY NAME	ALS Laboratory Group		
CITY/STATE	Salt Lake City, UT 84123		
CASE NO.	45316	SDG NO.:	F9L58
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		
CONTRACT NO.	EP-W-11-037		
SOW NO.	SOM01.2		

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

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
1. **Inventory Sheet** (DC-2) (Do not number)			✓	
2. **SDG Case Narrative**	1	14	✓	
3. **SDG Cover Sheet/Traffic Report**	15	30	✓	
4. **Trace Volatiles Data**				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II VOA-1 and VOA-2)	n/a		✓	
Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA) (if requested by USEPA Region)			✓	
Method Blank Summary (Form IV VOA)			✓	
GC/MS Instrument Performance Check (Form V VOA)			✓	
Internal Standard Area and RT Summary (Form VIII VOA)			✓	
b. Sample Data				
TCL Results - Organics Analysis Data Sheet(Form I VOA-1 and VOA-2)			✓	
Tentatively Identified Compounds (Form I VOA-TIC)			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds identified			✓	
Quantitation reports			✓	
Mass spectra of all reported TICs with three best library matches			✓	
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw/Quality Control (QC) Data			✓	
BFB			✓	
Blank Data			✓	

Oct 11/2015 DH

9754742

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2

CASE NO.	45316	SDG NO.:	F9L58
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region	n/a		✓	
e. Trace SIM Data (Place at the end of the Trace Volatiles Section)	n/a		✓	
[Form I VOA-SIM; Form II VOA-SIM1 and VOA-SIM2; Form IV-VOA-SIM; Form VI VOA-SIM; Form VII VOA-SIM; Form VIII VOA-SIM; and all raw data for QC, Samples, and Standards.]				
5. **Low/Med Volatiles Data**				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II VOA-1, VOA-2, VOA-3, VOA-4)	31	32	✓	
Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA-1, VOA-2)(if requested by USEPA Region)	n/a		✓	
Method Blank Summary (Form IV VOA)	33	34	✓	
GC/MS Instrument Performance Check (Form V VOA)	35	37	✓	
Internal Standard Area and RT Summary (Form VIII VOA)	38	40	✓	
b. Sample Data	41	211		
TCL Results - Organics Analysis Data Sheet (Form I VOA-1 and VOA-2)			✓	
Tentatively Identified Compounds (Form I VOA-TIC)			✓	
Recontructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified			✓	
Quantitation reports			✓	
Mass Spectra of all reported TICs with three best library matches			✓	
c. Standards Data (All Instruments)	212	259		
Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw/Quality Control (QC) Data				
BFB	260	265	✓	
Blank Data	266	295	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9L58
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region	n/a		✓	
6. Semivolatiles Data				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II SV-1 and SV-2, SV-3, SV-4)	296	297	✓	
Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III SV-1 and SV-2) (if requested by USEPA Region)	n/a		✓	
Method Blank Summary (Form IV SV)	298	298	✓	
GC/MS Instrument Performance Check (Form V SV)	299	301	✓	
Internal Standard Area and RT Summary (Form VIII SV-1 and SV-2)	302	307	✓	
b. Sample Data	308	701		
TCL Results - Organics Analysis Data Sheet (Form I SV-1 and SV-2)			✓	
Tentatively Identified Compounds (Form I SV-TIC)			✓	
Reconstructed total ion chromatograms (RICs) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds			✓	
Quantitation reports			✓	
Mass Spectra of TICs with three best library matches			✓	
GPC chromatograms (if GPC is required)			✓	
c. Standards Data (All Instruments)	702	754		
Initial Calibration Data (Form VI SV-1, SV-2, SV-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
Continuing Calibration Data (Form VII SV-1, SV-2, SV-3)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data				
DFTPP	755	760	✓	
Blank Data	761	776	✓	
MS/MSD Data (if requested by USEPA Region)	n/a		✓	
e. Raw GPC Data	777	781	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9L58
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
f. Semivolatile SIM Data [Form I SV-SIM; Form II SV-SIM1 and SV-SIM2; Form III SV-SIM1 and SV-SIM2 (if required); Form IV SV-SIM; Form VI-SIM; Form VII SV-SIM; Form VIII SV-SIM1 and SV-SIM2; and all raw data for QC, Samples, and Standards.]	782	973	✓	
7. Pesticides Data				
a. QC Summary				
Surrogate Recovery Summary (Form II PEST-1 and PEST-2)	974	974	✓	
Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III PEST-1 and PEST-2)	975	976	✓	
Laboratory Control Sample Recovery (Form III Pest-3 and PEST-4)	977	977	✓	
Method Blank Summary (Form IV PEST)	978	978	✓	
b. Sample Data	979	1038		
TCL Results - Organics Analysis Data Sheet (Form I PEST)			✓	
Chromatograms (Primary Column)			✓	
Chromatograms from second GC column confirmation			✓	
GC Integration report or data system printout			✓	
Manual work sheets			✓	
For pesticides by GC/MS				
Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)			✓	
c. Standards Data	1039	1197		
Initial Calibration of Single Component Analytes (Form VI PEST-1 and PEST-2)			✓	
Toxaphene Initial Calibration (Form VI PEST-3 and PEST-4)			✓	
Analyte Resolution Summary (Form VI PEST-5, per column)			✓	
Performance Evaluation Mixture (Form VI PEST-6)			✓	
Individual Standard Mixture A (Form VI PEST-7)			✓	
Individual Standard Mixture B (Form VI PEST-8)			✓	
Individual Standard Mixture C (Form VI PEST-9 and PEST-10)			✓	
Calibration Verification Summary (Form VII PEST-1)			✓	
Calibration Verification Summary (Form VII PEST-2)			✓	
Calibration Verification Summary (Form VII PEST-3)			✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG No	F9L58
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
Calibration Verification Summary (Form VII PEST-4)			✓	
Analytical Sequence (Form VIII PEST)			✓	
Florisil Cartridge Check (Form IX PEST-1)			✓	
Pesticide GPC Calibration (Form IX PEST-2)			✓	
Identification Summary for Single Component Analytes (Form X PEST-1)			✓	
Identification Summary for Toxaphene (Form X PEST-2)			✓	
Chromatograms and data system printouts				
A printout of Retention Times and corresponding peak areas or peak heights			✓	
d. Raw QC Data				
Blank Data	1198	1216	✓	
Matrix Spike/Matrix Spike Duplicate Data	1217	1224	✓	
Laboratory Control Sample Data	1225	1228	✓	
e. Raw GPC Data	1229	1248	✓	
f. Raw Florisil Data	1249	1266	✓	
8. **Aroclor Data**				
a. QC Summary				
Surrogate Recovery Summary (Form II ARO-1 and ARO-2)	1267	1267	✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III ARO-1 and ARO-2)	1268	1269	✓	
Laboratory Control Sample Recovery (Form III ARO-3 and ARO-4)	1270	1270	✓	
Method Blank Summary (Form IV ARO)	1271	1271	✓	
b. Sample Data	1272	1331		
TCL Results - Organics Analysis Data Sheet (Form I ARO)			✓	
Chromatograms (Primary Column)			✓	
Chromatograms from second GC column confirmation			✓	
GC Integration report or data system printout			✓	
Manual work sheets			✓	
For Aroclors by GC/MS				
Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)			✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9L58
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
c. Standards Data	1352	1377		
Aroclors Initial Calibration (Form VI ARO-1, ARO-2 and ARO-3)			✓	
Calibration Verification Summary (Form VII ARO-1)			✓	
Analytical Sequence (Form VIII ARO)			✓	
Identification Summary for Multicomponent Analytes (Form X ARO)			✓	
Chromatograms and data system printouts A printout of Retention Times and corresponding peak areas or peak heights			✓	
d. Raw QC Data				
Blank Data	1378	1388	✓	
Matrix Spike/Matrix Spike Duplicate Data	1389	1396	✓	
Laboratory Control Sample (LCS) Data	1397	1400	✓	
e. Raw GPC Data (if performed)	1401	1403	✓	
9. **Miscellaneous Data**				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	1404	1551	✓	
Internal sample and sample extract transfer chain-of-custody records	1552	1572	✓	
Screening records	1573	1632	✓	
All instrument output, including strip charts from screening activities (describe or list)				
Method Check/QC Reports/LCS	n/a		✓	
Percent Solids Determinations	1633	1633	✓	
10. **EPA Shipping/Receiving Documents**				
Airbills (no. of shipments 12)	1634	1645	✓	
Chain of Custody Records (Copies)	1646	1660	✓	
Sample Tags	1661	1661	✓	
Sample Log-in Sheet (Lab & DC-1)	1662	1674	✓	
Miscellaneous Shipping/Receiving Records (describe or list)				
DCL Cooler Receipt Checklist	NA		✓	
DCL Sample Work Orders	NA		✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9L58
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
11. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)				
DCL Documentation Checking Forms	1675	1678	✓	
DCL Non-conformance/Corrective Action Reports	NA		✓	
12. **Other Records** (describe or list)				
Telephone Communication Log	NA		✓	
E-mail Communications	n/a		✓	
			✓	

13. **Comments**

n/a

Completed by: (CLP Lab)	Desiree Hill (Signature)	Desiree Hill/DCO (Printed Name/Title)	6/11/15 (Date)
Verified by: (CLP Lab)	Lydia Wrobel for (Signature)	Roxanne Olson/Manager (Printed Name/Title)	6/11/15 (Date)
Audited by: (USEPA)	(Signature)	(Printed Name/Title)	(Date)

960 W. LeVoy Drive
Salt Lake City, UT 84123
T: +1 801 266 7700
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SDG Administrative Narrative

Contract: EPW11037

Case: 45316

SDG: F9L58

WO No(s): 1514293

Cooler # and Temperatures of each (upon receipt)

Cooler Number C15-	n/a	Arrival temperature was	2	°C
Cooler Number C15-	n/a	Arrival temperature was	2	°C
Cooler Number C15-	n/a	Arrival temperature was	2	°C
Cooler Number C15-	n/a	Arrival temperature was	2	°C
Cooler Number C15-	n/a	Arrival temperature was	2	°C
Cooler Number C15-	n/a	Arrival temperature was	2	°C
Cooler Number C15-	n/a	Arrival temperature was	2	°C
Cooler Number C15-	n/a	Arrival temperature was	2	°C

Communications:

The sample receipt for this Case/SDG is compliant with EPA CLP SOW requirements.

Comments:

None

Signature: Desiree Hall
Document Control Officer

Date: 06/11/2015

960 W. LeVoy Drive
Salt Lake City, UT 84123
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SDG Administrative Narrative

Contract: EPW11037

Case: 45316

SDG: F9L58

WO No(s): 1514293

Cooler # and Temperatures of each (upon receipt)

Cooler Number C15-	n/a	Arrival temperature was	2	°C
Cooler Number C15-	n/a	Arrival temperature was	2	°C
Cooler Number C15-	n/a	Arrival temperature was	2	°C
Cooler Number C15-	n/a	Arrival temperature was	2	°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C
Cooler Number C15-		Arrival temperature was		°C

06/11/2015 DH

Communications:

The sample receipt for this Case/SDG is compliant with EPA CLP SOW requirements.

Comments:

None

Signature: Desiree Hall Date: 06/11/2015
Document Control Officer

SDG Narrative
Low/Medium Volatiles

Contract: EPW11037
Laboratory: ALS Environmental
Modification Reference Number: NA

Case: 45316
SDG: F9L58

EPA No.	ALS Sample	pH	Dilution	EPA No.	ALS Sample	pH	Dilution
F9L58	1514293001	NA	None	F9L68	1514293013	NA	None
F9L59	1514293002	NA	None	F9L69	1514293014	NA	None
F9L60	1514293003	NA	None	F9L70	1514293015	NA	None
F9L62	1514293005	NA	None	F9L71	1514293016	NA	None
F9L63	1514293006	NA	None	F9L72	1514293017	NA	None
F9L64	1514293007	NA	None	F9L73	1514293018	NA	None
F9L65	1514293008	NA	None	F9L75	1514293019	NA	None
F9L66	1514293009	NA	None	F9L77	1514293020	NA	None
F9L67	1514293012	NA	None	F9L78	1514293021	NA	None
F9L67RE	1514293012RE	NA	None	F9L79	1514293022	NA	None

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. There were no modifications except as listed below.

Instrumentation: Agilent 5975-E GC/MSD with electron impact ionization and quadrupole detector scanning a mass range of 35 to 300 amu. Column: Restek Rtx-VMS (30 m, 0.25 mm id, 1.4 µm film). Purge & Trap: OI Analytical Eclipse 4660 Concentrator (#10 trap) with Varian Archon Autosampler. Carrier and Purge Gas: Helium. Purge Flow: ~35 mL/min. at ambient. Temperature Program: 45°C (5.0 min.) 15°/min. to 200° (0 min.) 30°/min to 230° (2.67 min.).

Sample Preparation: This method has no extraction procedure for the low level soil matrix. Soil samples were received in sample cartridges and were extruded and frozen until analysis. Prior to analysis a total of 10 mL of reagent water containing internal standard/DMC solution was added and the sample was purged.

Instrument Calibration: The GC/MS was hardware tuned to meet the criteria for a 50 ng purging of 4-bromofluorobenzene as specified in the SOW. This tune is valid for 12 hours.

Initial Calibration and Calibration Verification: The five point initial calibration curve met the specified criteria in the SOW with the exception of the dioxane compounds. All calibration verification standards met method specified criteria (again excepting dioxanes). Due to interfering ions, the secondary 130 ion was used in the quantitation of trichloroethene for instrument 5975-E. Occasionally the system will fail to properly integrate a given compound. In these cases (including

any listed below) a manual integration may be required. Any manual integration is noted by an "m" footnote on the quantitation report and a graphics page was included to show peak integration. Analytes which required a manual integration are summarized:

Sample	Initial Scan	Final Scan	Analyte
VBLKS5	385	406	methyl-t-butyl ether

Blank Analysis: Method blanks were prepared using blank sand and or reagent water spiked with internal standard/DMC solution. All blanks were free of volatile organic contaminants within the specifications of the method.

Sample Analysis: All deuterated monitoring compounds and internal standard area responses were within the required acceptance criteria unless otherwise noted on forms II and VIII. All samples were analyzed within ten days of verified sample receipt.

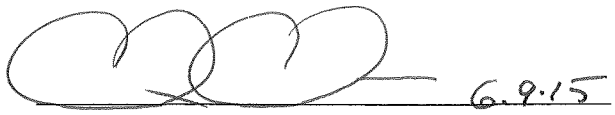
MS/MSD Analysis: MS/MSD analyses were not required for this SDG.

Sample Calculations: All symbols are defined in section 8.3 of ALS SOP OV-EP-SOM and section 11.2 of SOM01.2. $RRF = (A_xC_{is})/(A_{is}C_x)$; Water Concentration = $(A_xI_sDF)/(V_oA_{is}\underline{RRF})$; Soil Conc.= $(A_xI_sDF)/(DW_sA_{is}\underline{RRF})$; Medium Level Conc. = $(A_xI_sAV_tDF1000)/(A_{is}\underline{RRF}V_aW_sD)$.

Miscellaneous Comments: As per the SOW, alkanes were not reported separately but rather were reported as "total alkanes." With regard to the naming of tentatively identified compounds (TICs), spectral matches above 85 percent are reported as a specific isomer unless the analyst has reason to assign a different name. Reasons include but are not limited to previous experience with the compound or an instance where the retention time clearly indicates that a computer generated match is in fact not the compound in question. A specific compound name may be assigned to more than one peak. In any case, TIC naming is tentative and it cannot be assumed that reported compounds and specific isomers are correct.

Samples which failed internal standard and or DMC recovery limits were re-analyzed. Where they again failed both analyses were reported.

I certify that this sample data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy sample data package and in the electronic data deliverable has been authorized by the laboratory manager or the manager's designee, as verified by the following signature.



Christopher Q. Coleman
Chemist
Volatile Organic Analysis Section

SDG Narrative
Semivolatiles Fraction

Contract: EPW11037
Case: 45316
SDG: F9L58
Laboratory Name: ALS Environmental

Sample Number	DCL Sample ID	Dilution	Fraction
F9L58	1514293001	5	SVOA
F9L59	1514293002	5	SVOA
F9L60	1514293003		SVOA
F9L61	1514293004		SVOA
F9L62	1514293005		SVOA
F9L63	1514293006	5	SVOA
F9L64	1514293007		SVOA
F9L65	1514293008		SVOA
F9L66	1514293009		SVOA
F9L67	1514293012	10	SVOA
F9L68	1514293013		SVOA
F9L69	1514293014		SVOA
F9L70	1514293015	10	SVOA
F9L71	1514293016		SVOA
F9L72	1514293017		SVOA
F9L73	1514293018		SVOA
F9L75	1514293019		SVOA
F9L77	1514293020		SVOA
F9L78	1514293021		SVOA
F9L79	1514293022		SVOA
F9L58	1514293001	30	SVOA-SIM
F9L59	1514293002	5	SVOA-SIM
F9L60	1514293003		SVOA-SIM
F9L61	1514293004		SVOA-SIM
F9L62	1514293005		SVOA-SIM
F9L63	1514293006	5	SVOA-SIM
F9L64	1514293007		SVOA-SIM
F9L65	1514293008		SVOA-SIM
F9L66	1514293009		SVOA-SIM
F9L67	1514293012	10	SVOA-SIM
F9L68	1514293013		SVOA-SIM
F9L69	1514293014		SVOA-SIM
F9L70	1514293015	10	SVOA-SIM
F9L71	1514293016		SVOA-SIM
F9L72	1514293017		SVOA-SIM
F9L73	1514293018		SVOA-SIM
F9L75	1514293019		SVOA-SIM
F9L77	1514293020		SVOA-SIM
F9L78	1514293021		SVOA-SIM
F9L79	1514293022		SVOA-SIM

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. There are no deviations from the SOW except as noted below.

Instrumentation: Agilent GC/MS system (ID 5975-D and 5975-G)
Column: J&W Scientific DB-5ms column, 95% dimethyl-(5%)-diphenylsiloxane, nonpolar 30 m x 0.32 mm I.D. with a 0.50 µm film thickness

Sample Preparation: Samples were prepared as stated in the SOW.

Instrument Calibration: (i.e.DFTPP tunes) All tunes met ion intensity ratio requirements. All samples and standards were analyzed within the twelve hour CCV period.

Initial and Continuing Calibration Verification: All initial and continuing calibration standards met minimum response factor, RSD and %D criteria.

Blank Analysis: The extraction blank met method criteria.

Sample Analysis: All samples passed internal standard area and DMC recovery QC criteria.

MS/MSD Analysis: An MS/MSD analysis was not requested.

Dilutions: Any dilutions noted above were performed to preserve the integrity of the instrument or to bring the highest target compound within the range of the curve.

Miscellaneous Comments: Any manual edits were made in the calibration standards and samples for a variety of miscalled peaks. Every manual integration is noted by an "m" footnote on the quantitation report, and an additional graphics page is included for each manual integration to show how the peak was integrated. In order to satisfy the requirements of Exhibit B Section 2.5.1 which asks for a listing of each instance of manual integration, these manual integrations are also listed in the table below. The explanation for each of these manual integrations is that the data system did not correctly integrate the peak in its automated data evaluation procedure. More specifically, some of the more common mis-integrated peaks are described as follows: Indeno(1,2,3-c,d)pyrene elutes near dibenz(a,h)anthracene, and a hump from the 276 ion in dibenz(a,h)anthracene sometimes needs to be manually excluded from Indeno(1,2,3-c,d)pyrene. Isomers such as anthracene and benzo(a)anthracene are often called as the similar and near-eluting phenanthrene or chrysene peak. Benzo(b) and Benzo(k)fluoranthene elute very closely to each other without baseline resolution between the two peaks. The automated peak finding routine quite often integrates both peaks as if they were one, and it is necessary to manually separate the isomers. 4-chloroaniline sometimes has the baseline drawn too high when the computer gets confused because of a near-eluting peak causing it to think the valley between peaks is actually the baseline. Bis(2-chloroethyl)ether sometimes needs to be manually separated from the near-eluting aniline. Caprolactam has a tail, especially at higher concentrations, that is often truncated, leaving the need to manually include the tail. Some phenolics and carbazole sometimes have the need to manually include the tailing. Acetophenone sometimes needs to be manually separated from a near-eluting 3-carbon alklyated benzene TIC peak. Benzo(ghi)perylene and dibenzo(a,h)anthracene will sometimes be sliced in half by the automatic integration routine and a manual integration would be needed to include the entire peak. Perylene-d12 in the SIM analysis often needs to be manually separated from the baseline arising from benzo(a)pyrene-d12, a near-eluting and considerably larger isomer peak. Sometimes the automatic peak finding routine

will simply miss a peak, making it necessary to manually include it. This was the case with all analytes not mentioned above.

For full-scan analysis:

Sample	Analyte	Scan start	Scan stop
F9L58	Benzo(k)fluoranthene	2625	2635
SSTD040GX	Caprolactam	812	841
SSTD080GX	Caprolactam	814	850

For SIM analysis:

Sample	Analyte	Scan start	Scan stop
F9L58	Benzo(k)fluoranthene	2425	2440
F9L59	Pyrene	1739	1748
F9L60	Benzo(k)fluoranthene	2425	2437
F9L62	Pyrene	1739	1750
F9L62	Benzo(k)fluoranthene	2424	2437
F9L64	Anthracene	1288	1299
F9L64	Benzo(k)fluoranthene	2425	2436
F9L65	Pyrene	1739	1748
F9L65	Benzo(k)fluoranthene	2425	2437
F9L66	Pyrene	1739	1749
F9L66	Benzo(k)fluoranthene	2425	2436
F9L68	Anthracene	1288	1300
F9L68	Benzo(k)fluoranthene	2424	2436
F9L75	Pyrene	1740	1748
F9L78	Pyrene	1739	1748
F9L78	Benzo(k)fluoranthene	2424	2436

With regard to the naming of tentatively-identified compounds (TICs), spectral matches above 85 percent are reported as a specific isomer unless the analyst has a specific reason to assign a different name. Reasons for assigning a TIC name other than the match with the highest fit value above 85% include instances in which the analyst has previous experience with respect to a specific compound. When the first computer-generated match is a target compound and retention time information clearly indicates the TIC is in fact not the target compound, the analyst reserves the right to give a more appropriate tentative identification. There may be instances in which a specific compound name is assigned to more than one peak. Even though specific names will usually be given to TICs with spectral fits above 85%, it must be understood by the data user that TIC names are very tentative, and it cannot be assumed that the specific isomers reported are correct. One case where specific names are not given to spectral matches above 85% is for alkanes, because the SOW requires alkanes to be reported as either straight-chain, branched or cyclic and summarized as "total alkanes."

Results on the raw data are expressed in units of µg/mL (micrograms per milliliter of the solution that was injected onto the GC/MS system). Final results are calculated by the following equations:

Water:

$$\text{Concentration } \mu g/L = \frac{(A_x)\,(I_s)\,(V_t)\,(DF)\,(GPC)}{(A_{is})\,(\overline{RRF})\,(V_o)\,(V_i)}$$

Soil:

$$\text{Concentration } \mu g/Kg \text{ (Dry weight basis)} = \frac{(A_x)\,(I_s)\,(V_t)\,(DF)\,(GPC)}{(A_{is})\,(\overline{RRF})\,(V_i)\,(W_s)\,(D)}$$

where all variables are as defined in Exhibit D/SVOA Sections 11.2.1.6 and 9.3.4.1.

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Thomas J. Masoian June 11, 2015

Thomas Masoian
Chemist
Semivolatile Organic Analysis Section

SDG Narrative
Pesticides

Laboratory Name: ALS Laboratory Group
Case: 45316
SDG: F9L58
EPA Sample Numbers: F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, and F9L79.
Contract Number: EP-W-11-037

General SDG Information: Samples were analyzed according to USEPA CLP Statement of Work SOM01.2. All above samples are billable.

Instrumentation: Hewlett Packard 5890 GC/ECD
Column: 0.32m ID X 30M RTX-CLP 0.50 micron film (primary).
0.32m ID X 30M RTX-CLP2 0.25 micron film (confirmation).

Sample Preparation: All samples were extracted within sample preparation hold times.

Initial Calibration: All requirements for initial calibration were met.

Continuing Calibration: All requirements for continuing calibration were met.

Sample Analysis: All samples were analyzed within SOW specified hold times.

Dilutions: No dilutions were required.

Blank Analysis: No analytes were detected in the method blank above the CRQLs.

LCS Analysis: All recoveries were within established limits.

MS/MSD Analysis: One RPD was outside established limits.

Surrogates: All samples passed SOW surrogate criteria.

Miscellaneous Comments: None.

This chart summarizes the amount (ng) of each compound in each type of standard:

	RESC##	PEM##	TOXAPH1##	TOXAPH2##	TOXAPH3##	TOXAPH4##	TOXAPH5##	INDC1##	INDC2##	INDC3##	INDC4##	INDC5##	PIBLK##
alpha-BHC	0.04	0.02						0.01	0.02	0.04	0.08	0.20	
beta-BHC	0.04	0.02						0.01	0.02	0.04	0.08	0.20	
delta-BHC	0.04							0.01	0.02	0.04	0.08	0.20	
gamma-BHC	0.04	0.02						0.01	0.02	0.04	0.08	0.20	
Heptachlor	0.04							0.01	0.02	0.04	0.08	0.20	
Aldrin	0.04							0.01	0.02	0.04	0.08	0.20	
Heptachlor epoxide	0.04							0.01	0.02	0.04	0.08	0.20	
Endosulfan I	0.04							0.01	0.02	0.04	0.08	0.20	
Dieldrin	0.08							0.02	0.04	0.08	0.16	0.40	
4,4'-DDE	0.08							0.02	0.04	0.08	0.16	0.40	
Endrin	0.08	0.1						0.02	0.04	0.08	0.16	0.40	
Endosulfan II	0.08							0.02	0.04	0.08	0.16	0.40	
4,4'-DDD	0.08							0.02	0.04	0.08	0.16	0.40	
Endosulfan sulfate	0.08							0.02	0.04	0.08	0.16	0.40	
4,4'-DDT	0.08	0.2						0.02	0.04	0.08	0.16	0.40	
Methoxychlor	0.40	0.5						0.10	0.2	0.4	0.8	2.0	
Endrin ketone	0.08							0.02	0.04	0.08	0.16	0.40	
Endrin aldehyde	0.08							0.02	0.04	0.08	0.16	0.40	
alpha-Chlordane	0.04							0.01	0.02	0.04	0.08	0.20	
gamma-Chlordane	0.04							0.01	0.02	0.04	0.08	0.20	
Toxaphene			1	2	4	8	20						
Tetrachloro-m-xylene	0.04	0.04	0.01	0.02	0.04	0.08	0.20	0.01	0.02	0.04	0.08	0.20	0.04
Decachlorobiphenyl	0.08	0.04	0.02	0.04	0.08	0.16	0.40	0.02	0.04	0.08	0.16	0.40	0.08

Sample equation for Endrin in PLCSS1 (1):

Result ug/kg=(Area response of analyte)(Extract FV uL after GPC)(Dilution Factor)(GPC factor)
(Ave CF)(uL injected)(grams of Sample)((100-%moisture)/100))

$$3.38 \text{ ug/kg} = \frac{(18288)(5000 \text{ uL})(1)(10000/5000)}{(901000)(2 \text{ uL})(30 \text{ g})(1)}$$

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

06/09/15

Steven J. Sagers — Date
Pesticide Chemist

DATA CHEM LABORATORIES, INC.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

SDG Narrative
Aroclors

Laboratory Name: ALS Environmental
Case: 45316
SDG: F9L58
EPA Sample Numbers: F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79.
Contract Number: EP-W-11-037

General SDG Information: Samples were analysed according to USEPA CLP Statement of Work SOM01.2. All above samples are billable.

Instrumentation: Hewlett Packard 5890 GC/ECD
Column: 0.32m ID X 30M RTX-CLP 0.50 micron film (primary).
0.32m ID X 30M RTX-CLP2 0.25 micron film (confirmation).

Sample Preparation: All samples were extracted within SOW specified hold times.

Initial Calibration: All requirements for initial calibration were met.

Continuing Calibration: All requirements for continuing calibration were met.

Sample Analysis: All samples were analysed within SOW specified hold times.

Dilutions: None.

Blank Analysis: No analytes were detected in the method blank above the CRQL.

LCS Analysis: All recoveries were within established limits.

MS/MSD Analysis: All recoveries were within established limits.

Surrogates: All samples passed SOW surrogate criteria.

Miscellaneous Comments: None.

DataChem Laboratories, Inc.
Part of the ALS Laboratory Group
960 West LeVoy Drive, Salt Lake City, Utah 84123
Phone 801 266 7700 Fax 801 268 9992 www.datachem.com www.alsenviro.com
A Campbell Brothers Limited Company

This chart summarizes the amount (ng) of each compound in each type of standard:

	AR#####1##	AR#####2##	AR#####3##	AR#####4##	AR#####5##	AIBLK##
AR####	0.2	0.4	0.8	1.6	3.2	
Tetrachloro-m-xylene	0.01	0.02	0.04	0.08	0.16	0.04
Decachlorobiphenyl	0.02	0.04	0.08	0.16	0.32	0.08

Equation for Aroclors in soil samples (EQ. 9):

EQ. 9 Concentration Calculation for Soil Samples

$$\text{Concentration } \mu g/Kg \text{ (Dry weight basis)} = \frac{(A_x)\ (V_t)\ (DF)\ (GPC)}{(\overline{CF})\ (V_i)\ (W_s)\ (D)}$$

Where,

A_x = Area or height of the peak for the compound to be measured.

$\overline{CF}$ = Mean Calibration Factor from the specific five-point calibration (area/ng).

V_t = Volume of the concentrated extract in µL. (If GPC is not performed, then V_t = 10000 µL. If GPC is performed, then $V_t = V_{out}$).

V_i = Volume of extract injected in µL. (If a single injection is made onto two columns, use one half the volume in the syringe as the volume injected onto each column.)

$$D = \frac{100 - \%Moisture}{100}$$

W_s = Weight of sample extracted in g.

DF = Dilution Factor. The DF for analysis of soil/sediment samples by this method is defined as follows:

$$\frac{\mu L \text{ most concentrated extract used to make dilution} + \mu L \text{ clean solvent}}{\mu L \text{ most concentrated extract used to make dilution}}$$

If no dilution is performed, DF = 1.0.

Equation for Aroclors in water samples (EQ. 7):

EQ. 7 Concentration Calculation for Water Samples

$$\text{Concentration } \mu g/L = \frac{(A_x)\ (V_t)\ (DF)\ (GPC)}{(\overline{CF})\ (V_o)\ (V_i)}$$

Where,

A_x = Area or height of the peak for the compound to be measured.

$\overline{CF}$ = Mean Calibration Factor from the specific five-point calibration (area/ng).

V_o = Volume of water extracted in mL (Note: for instrument and sulfur blanks assume a volume of 1000 mL).

V_i = Volume of extract injected in µL. (If a single injection is made onto two columns, use one half the volume in the syringe as the volume injected onto each column).

V_t = Volume of the concentrated extract in µL. (If GPC is not performed, then V_t = 10000 µL. If GPC is performed, then $V_t = V_{out}$).

DF = Dilution Factor. The DF for analysis of water samples by this method is defined as follows:

$$\frac{\mu L \text{ most concentrated extract used to make dilution} + \mu L \text{ clean solvent}}{\mu L \text{ most concentrated extract used to make dilution}}$$

If no dilution is performed, DF = 1.0.

$GPC = \frac{V_{in}}{V_{out}}$ = GPC factor. (If no GPC is performed, GPC = 1.0).

V_{in} = Volume of extract loaded onto GPC column.

V_{out} = Volume of extracted collected after GPC cleanup.

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06/09/15

Nadjla Borges — Date
Chemist

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: F9L58

[X] ARO [X] PEST [X] BNA [X] BNASIM [ ] VT [ ] VOASIM [X] VLM

Laboratory Name: ALS Laboratory Group (SLC) Laboratory Code: DATAC

Contract No.: EPW11037 Case No.: 45316

Analysis Price: N/A SDG Turnaround: 21

Modified Analysis Requested: NO Program: SOM01.2

Modification Reference No.: N/A

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) F9L58	7) F9L64	13) F9L70	19) F9L78
2) F9L59	8) F9L65	14) F9L71	20) F9L79
3) F9L60	9) F9L66	15) F9L72	21)
4) F9L61	10) F9L67	16) F9L73	22)
5) F9L62	11) F9L68	17) F9L75	23)
6) F9L63	12) F9L69	18) F9L77	24)

F9L58	F9L79
First Sample in SDG	Last Sample in SDG
05/22/15	05/22/15
First Sample Receipt Date	Last Sample Receipt Date

Note: *There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach the TR/COC records to this form in alphanumeric order (the order listed above on this form).*

Signature: /S/ Jessica Helland Date: 5/23/2015 3:12:22 PM

(/S/ is an electronic signature that complies with 21 CFR Part 11)

1514293

USEPA CLP COC (LAB COPY)

DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773662359606

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-180330-0062

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-005-44-20150521	F9L56	Water/ START	Grab	VOA(21)	1119 (HCl) (3)	FieldQC	05/21/2015 07:50	
WO-017-001-06-51	F9L58	Soil/ START	Composite	VOA(21)	1122 (Ice) (3)	017	05/21/2015 08:20	
WO-017-001-12-51	F9L59	Soil/ START	Composite	VOA(21)	1127 (Ice) (3)	017	05/21/2015 08:25	
WO-017-002-06-51	F9L60	Soil/ START	Composite	VOA(21)	1132 (Ice) (3)	017	05/21/2015 08:45	
WO-017-002-12-51	F9L61	Soil/ START	Composite	VOA(21)	1147 (Ice) (3)	017	05/21/2015 08:50	
WO-017-002-24-51	F9L62	Soil/ START	Composite	VOA(21)	1142 (Ice) (3)	017	05/21/2015 08:55	
WO-017-003-06-51	F9L63	Soil/ START	Composite	VOA(21)	1152 (Ice) (3)	017	05/21/2015 09:30	
WO-017-003-12-51	F9L64	Soil/ START	Composite	VOA(21)	1157 (Ice) (3)	017	05/21/2015 09:35	
WO-017-003-12-52	F9L65	Soil/ START	Composite	VOA(21)	1162 (Ice) (3)	017	05/21/2015 09:40	
WO-017-003-24-51	F9L66	Soil/ START	Composite	VOA(21)	1167 (Ice) (3)	017	05/21/2015 09:45	

Special Instructions: No Lab QC on VOA Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: VOA=CLP VOA	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
32/samples	[signature]/Weston	5/21/15 2100	Fedex	5/21/15 2100	
	FedEx	5/22/2015/838	Meredith Edwards DATAC	5/22/2015/838	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773662359606

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

No: 6-052115-180330-0062
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-004-06-51	F9L67	Soil/ START	Composite	VOA(21)	1172 (Ice) (3)	017	05/21/2015 10:05	
WO-017-004-12-51	F9L68	Soil/ START	Composite	VOA(21)	1177 (Ice) (3)	017	05/21/2015 10:10	
WO-017-004-24-51	F9L69	Soil/ START	Composite	VOA(21)	1182 (Ice) (3)	017	05/21/2015 10:15	
WO-005-001-06-51	F9L70	Soil/ START	Composite	VOA(21)	1187 (Ice) (3)	017	05/21/2015 11:05	
WO-005-001-12-51	F9L71	Soil/ START	Composite	VOA(21)	1192 (Ice) (3)	017	05/21/2015 11:10	
WO-005-001-24-51	F9L72	Soil/ START	Composite	VOA(21)	1197 (Ice) (3)	017	05/21/2015 11:15	
WO-005-001-24-52	F9L73	Soil/ START	Composite	VOA(21)	1202 (Ice) (3)	017	05/21/2015 11:20	
WO-005-003-06-51	F9L75	Soil/ START	Composite	VOA(21)	1211 (Ice) (3)	017	05/21/2015 14:00	
WO-005-003-12-51	F9L76	Soil/ START	Composite	VOA(21)	1216 (Ice) (3)	017	05/21/2015 14:05	
WO-005-003-24-51	F9L77	Soil/ START	Composite	VOA(21)	1221 (Ice) (3)	017	05/21/2015 14:10	

Special Instructions: No Lab QC on VOA Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: VOA=CLP VOA	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
32/samples	T&R / Weston	5/21/15 2000	Fedex	5/21/15 2100	
	FedEx	5/22/15 838	Meredith Edwards DATAC	5/22/15 838	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773662359606

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

No: 6-052115-180330-0062
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-002-06-51	F9L78	Soil/ START	Composite	VOA(21)	1226 (Ice) (3)	017	05/21/2015 14:30	
WO-005-002-12-51	F9L79	Soil/ START	Composite	VOA(21)	1231 (Ice) (3)	017	05/21/2015 14:35	
WO-005-002-24-51	F9L80	Soil/ START	Composite	VOA(21)	1236 (Ice) (3)	017	05/21/2015 14:40	
WO-005-002-24-52	F9L81	Soil/ START	Composite	VOA(21)	1241 (Ice) (3)	017	05/21/2015 14:45	
WO-005-004-06-51	F9L82	Soil/ START	Composite	VOA(21)	1246 (Ice) (3)	017	05/21/2015 15:10	
WO-005-004-12-51	F9L83	Soil/ START	Composite	VOA(21)	1251 (Ice) (3)	017	05/21/2015 15:15	
WO-005-004-24-51	F9L84	Soil/ START	Composite	VOA(21)	1256 (Ice) (3)	017	05/21/2015 15:15	
WO-005-006-06-51	F9L85	Soil/ START	Composite	VOA(21)	1261 (Ice) (3)	017	05/21/2015 15:30	
WO-005-006-12-51	F9L86	Soil/ START	Composite	VOA(21)	1266 (Ice) (3)	017	05/21/2015 15:35	
WO-005-006-24-51	F9L87	Soil/ START	Composite	VOA(21)	1271 (Ice) (3)	017	05/21/2015 15:40	

Special Instructions: No Lab QC on VOA Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: VOA=CLP VOA	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
32/samples	ER/Weston	5/21/15 2100	Fedex	5/21/15 2100	
	FedEx	5/22/2015 8:38	Meredith Edwards DATAC	5/22/2015 8:38	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773653288329

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-155708-0053
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-001-06-51	F9L58	Soil/ START	Composite	CLP Moisture(21)	1125 (Ice) (1)	017	05/21/2015 08:20	
WO-017-001-12-51	F9L59	Soil/ START	Composite	CLP Moisture(21)	1130 (Ice) (1)	017	05/21/2015 08:25	
WO-017-002-06-51	F9L60	Soil/ START	Composite	CLP Moisture(21)	1135 (Ice) (1)	017	05/21/2015 08:45	
WO-017-002-12-51	F9L61	Soil/ START	Composite	CLP Moisture(21)	1150 (Ice) (1)	017	05/21/2015 08:50	
WO-017-002-24-51	F9L62	Soil/ START	Composite	CLP Moisture(21)	1145 (Ice) (1)	017	05/21/2015 08:55	
WO-017-003-06-51	F9L63	Soil/ START	Composite	CLP Moisture(21)	1155 (Ice) (1)	017	05/21/2015 09:30	
WO-017-003-12-51	F9L64	Soil/ START	Composite	CLP Moisture(21)	1160 (Ice) (1)	017	05/21/2015 09:35	
WO-017-003-12-52	F9L65	Soil/ START	Composite	CLP Moisture(21)	1165 (Ice) (1)	017	05/21/2015 09:40	
WO-017-003-24-51	F9L66	Soil/ START	Composite	CLP Moisture(21)	1170 (Ice) (1)	017	05/21/2015 09:45	
WO-017-004-06-51	F9L67	Soil/ START	Composite	CLP Moisture(21)	1175 (Ice) (1)	017	05/21/2015 10:05	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: CLP Moisture=CLP % Moisture	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
10/Samples	[signature] Ivestor	5/21/15 @ 2100	FedEx [signature]	5/21/15 @ 2100	
	FedEx	5/22/15 836	Meredith Edwards DATA	5/22/15 1838	good

5129

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773653288329

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-155708-0053
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-004-12-51	F9L68	Soil/ START	Composite	CLP Moisture(21)	1180 (Ice) (1)	017	05/21/2015 10:10	
WO-017-004-24-51	F9L69	Soil/ START	Composite	CLP Moisture(21)	1185 (Ice) (1)	017	05/21/2015 10:15	
WO-005-001-06-51	F9L70	Soil/ START	Composite	CLP Moisture(21)	1190 (Ice) (1)	017	05/21/2015 11:05	
WO-005-001-12-51	F9L71	Soil/ START	Composite	CLP Moisture(21)	1195 (Ice) (1)	017	05/21/2015 11:10	
WO-005-001-24-51	F9L72	Soil/ START	Composite	CLP Moisture(21)	1200 (Ice) (1)	017	05/21/2015 11:15	
WO-005-001-24-52	F9L73	Soil/ START	Composite	CLP Moisture(21)	1205 (Ice) (1)	017	05/21/2015 11:20	
WO-005-003-06-51	F9L75	Soil/ START	Composite	CLP Moisture(21)	1214 (Ice) (1)	017	05/21/2015 14:00	
WO-005-003-24-51	F9L77	Soil/ START	Composite	CLP Moisture(21)	1224 (Ice) (1)	017	05/21/2015 14:10	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: CLP Moisture=CLP % Moisture	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
8/Samples	Weston	5/21/15 @ 2100	FedEx	5/21/15 @ 2100	
	FedEx	5/22/2015 1838	DATTAL	5/22/2015 1838	good

F9L58

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773661878241

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-173253-0058
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-003-12-51	F9L76	Soil/ START	Composite	CLP Moisture(21)	1219 (Ice) (1)	017	05/21/2015 14:05	
WO-005-002-06-51	F9L78	Soil/ START	Composite	CLP Moisture(21)	1229 (Ice) (1)	017	05/21/2015 14:30	
WO-005-002-12-51	F9L79	Soil/ START	Composite	CLP Moisture(21)	1234 (Ice) (1)	017	05/21/2015 14:35	Soil Fuel Sampling
WO-005-002-24-51	F9L80	Soil/ START	Composite	CLP Moisture(21)	1239 (Ice) (1)	017	05/21/2015 14:40	
WO-005-002-24-52	F9L81	Soil/ START	Composite	CLP Moisture(21)	1244 (Ice) (1)	017	05/21/2015 14:45	
WO-005-004-06-51	F9L82	Soil/ START	Composite	CLP Moisture(21)	1249 (Ice) (1)	017	05/21/2015 15:10	
WO-005-004-12-51	F9L83	Soil/ START	Composite	CLP Moisture(21)	1254 (Ice) (1)	017	05/21/2015 15:15	
WO-005-004-24-51	F9L84	Soil/ START	Composite	CLP Moisture(21)	1259 (Ice) (1)	017	05/21/2015 15:15	
WO-005-006-06-51	F9L85	Soil/ START	Composite	CLP Moisture(21)	1264 (Ice) (1)	017	05/21/2015 15:30	
WO-005-006-12-51	F9L86	Soil/ START	Composite	CLP Moisture(21)	1269 (Ice) (1)	017	05/21/2015 15:35	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: CLP Moisture=CLP % Moisture

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples Analysis	[signature] Weston	5/21/15 2100	FedEx	5/21/15 2100	
	FedEx	5/22/2015 1538	[signature] DATAL	5/22/2015 1538	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773653297378

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-155002-0052
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-001-06-51	F9L70	Soil/ START	Composite	SVOA/SVOASIM(21)	1188 (Ice) (2)	017	05/21/2015 11:05	
WO-005-001-24-51	F9L72	Soil/ START	Composite	SVOA/SVOASIM(21)	1198 (Ice) (2)	017	05/21/2015 11:15	
WO-005-001-43-20150521	F9L74	Water/ START	Grab	SVOA/SVOASIM(21)	1206 (Ice) (4)	FieldQC	05/21/2015 11:40	
WO-005-003-06-51	F9L75	Soil/ START	Composite	SVOA/SVOASIM(21)	1212 (Ice) (2)	017	05/21/2015 14:00	
WO-005-003-24-51	F9L77	Soil/ START	Composite	SVOA/SVOASIM(21)	1222 (Ice) (2)	017	05/21/2015 14:10	

Special Instructions: No Lab QC on SVOA/SVOASIM Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples Analysis	[signature] Weston	5/21/15 2100	FedEx	5/21/15 2100	
	FedEx	5/22/2015 838	Meredith Edwards DATAL	5/22/2015 838	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773653316333

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-115920-0050
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-003-12-52	F9L65	Soil/ START	Composite	SVOA/SVOASIM(21)	1163 (Ice) (2)	017	05/21/2015 09:40	
WO-017-003-24-51	F9L66	Soil/ START	Composite	SVOA/SVOASIM(21)	1168 (Ice) (2)	017	05/21/2015 09:45	
WO-017-004-06-51	F9L67	Soil/ START	Composite	SVOA/SVOASIM(21)	1173 (Ice) (2)	017	05/21/2015 10:05	
WO-017-004-12-51	F9L68	Soil/ START	Composite	SVOA/SVOASIM(21)	1178 (Ice) (2)	017	05/21/2015 10:10	
WO-017-004-24-51	F9L69	Soil/ START	Composite	SVOA/SVOASIM(21)	1183 (Ice) (2)	017	05/21/2015 10:15	
WO-005-001-12-51	F9L71	Soil/ START	Composite	SVOA/SVOASIM(21)	1193 (Ice) (2)	017	05/21/2015 11:10	
WO-005-001-24-52	F9L73	Soil/ START	Composite	SVOA/SVOASIM(21)	1203 (Ice) (2)	017	05/21/2015 11:20	

Special Instructions: No Lab QC on SVOA/SVOASIM Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
7/Samples	[signature] /WESTON	5/21/15 2100	Fedex	5/21/15 2100	
	FedEx	5/22/2015 7838	Meredith Edwards DATAC	5/22/2015 7838	good

F9L58

USEPA CLP COC (LAB COPY)

DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773661871692

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

No: 6-052115-173917-0059

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-002-06-51	F9L78	Soil/ START	Composite	SVOA/SVOASIM(21)	1227 (Ice) (2)	017	05/21/2015 14:30	
WO-005-002-12-51	F9L79	Soil/ START	Composite	SVOA/SVOASIM(21)	1232 (Ice) (2)	017	05/21/2015 14:35	
WO-005-004-06-51	F9L82	Soil/ START	Composite	SVOA/SVOASIM(21)	1247 (Ice) (2)	017	05/21/2015 15:10	
WO-005-006-24-51	F9L87	Soil/ START	Composite	SVOA/SVOASIM(21)	1272 (Ice) (2)	017	05/21/2015 15:40	
WO-005-005-06-51	F9L88	Soil/ START	Composite	SVOA/SVOASIM(21)	1277 (Ice) (2)	017	05/21/2015 16:20	
WO-005-005-12-51	F9L89	Soil/ START	Composite	SVOA/SVOASIM(21)	1282 (Ice) (2)	017	05/21/2015 16:25	

Special Instructions: No Lab QC on SVOA/SVOASIM Samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
F/samples	LTS/Weston	5/21/15 2100	Fedex	5/21/15 2100	
	FedEx	5/22/2015 838	Meredith Edwards DATAL	5/22/2015 838	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773653326724

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-110210-0048
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-001-06-51	F9L58	Soil/ START	Composite	SVOA/SVOASIM(21)	1123 (Ice) (2)	017	05/21/2015 08:20	
WO-017-001-12-51	F9L59	Soil/ START	Composite	SVOA/SVOASIM(21)	1128 (Ice) (2)	017	05/21/2015 08:25	
WO-017-002-06-51	F9L60	Soil/ START	Composite	SVOA/SVOASIM(21)	1133 (Ice) (2)	017	05/21/2015 08:45	
WO-017-002-12-51	F9L61	Soil/ START	Composite	SVOA/SVOASIM(21)	1148 (Ice) (2)	017	05/21/2015 08:50	
WO-017-002-24-51	F9L62	Soil/ START	Composite	SVOA/SVOASIM(21)	1143 (Ice) (2)	017	05/21/2015 08:55	
WO-017-003-06-51	F9L63	Soil/ START	Composite	SVOA/SVOASIM(21)	1153 (Ice) (2)	017	05/21/2015 09:30	
WO-017-003-12-51	F9L64	Soil/ START	Composite	SVOA/SVOASIM(21)	1158 (Ice) (2)	017	05/21/2015 09:35	

Special Instructions: No Lab QC on SVOA samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	Ken Bird Weston	5/21/15 @ 2100	FedEx	5/21/15 @ 2100	
	FedEx	5/22/2015/8:38	Meredith Edwards DATA	5/22/2015/8:38	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773661865425

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-174424-0060
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-002-06-51	F9L78	Soil/ START	Composite	PEST+ARO(21)	1228 (Ice) (2)	017	05/21/2015 14:30	
WO-005-002-12-51	F9L79	Soil/ START	Composite	PEST+ARO(21)	1233 (Ice) (2)	017	05/21/2015 14:35	SDG Final Sample
WO-005-006-24-51	F9L87	Soil/ START	Composite	PEST+ARO(21)	1273 (Ice) (2)	017	05/21/2015 15:40	
WO-005-005-06-51	F9L88	Soil/ START	Composite	PEST+ARO(21)	1278 (Ice) (2)	017	05/21/2015 16:20	
WO-005-005-12-51	F9L89	Soil/ START	Composite	PEST+ARO(21)	1283 (Ice) (2)	017	05/21/2015 16:25	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: PEST+ARO=CLP Pest + ARO	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
5/samples	[signature] / Weston	5/21/15 2100	Fedex	5/21/15 2100	
	FedEx	5/22/2015 838	Meredith Edwards DATAC	5/22/2015 838	good

USEPA CLP COC (LAB COPY)

DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773653322843

CHAIN OF CUSTODY RECORD F9L54

Case #: 45316
Cooler #:

No: 6-052115-115217-0049

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-003-12-52	F9L65	Soil/ START	Composite	PEST+ARO(21)	1164 (Ice) (2)	017	05/21/2015 09:40	
WO-017-003-24-51	F9L66	Soil/ START	Composite	PEST+ARO(21)	1169 (Ice) (4)	017	05/21/2015 09:45	
WO-017-004-06-51	F9L67	Soil/ START	Composite	PEST+ARO(21)	1174 (Ice) (2)	017	05/21/2015 10:05	
WO-017-004-12-51	F9L68	Soil/ START	Composite	PEST+ARO(21)	1179 (Ice) (2)	017	05/21/2015 10:10	
WO-017-004-24-51	F9L69	Soil/ START	Composite	PEST+ARO(21)	1184 (Ice) (2)	017	05/21/2015 10:15	
WO-005-001-12-51	F9L71	Soil/ START	Composite	PEST+ARO(21)	1194 (Ice) (2)	017	05/21/2015 11:10	

Sample(s) to be used for Lab QC: WO-017-003-24-51 Tag 1169

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: PEST+ARO=CLP Pest + ARO

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sample/Analysis	Weston	5/21/15 @ 2100	FedEx	5/21/15 @ 2100	
	FedEx	5/22/2015 1838	DATPK	5/22/2015 1838	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773661882440

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-171806-0057
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-001-06-51	F9L70	Soil/ START	Composite	PEST+ARO(21)	1189 (Ice) (2)	017	05/21/2015 11:05	
WO-005-002-24-51	F9L80	Soil/ START	Composite	PEST+ARO(21)	1238 (Ice) (2)	017	05/21/2015 14:40	
WO-005-002-24-52	F9L81	Soil/ START	Composite	PEST+ARO(21)	1243 (Ice) (2)	017	05/21/2015 14:45	
WO-005-004-06-51	F9L82	Soil/ START	Composite	PEST+ARO(21)	1248 (Ice) (2)	017	05/21/2015 15:10	
WO-005-004-24-51	F9L84	Soil/ START	Composite	PEST+ARO(21)	1258 (Ice) (2)	017	05/21/2015 15:15	
WO-005-006-06-51	F9L85	Soil/ START	Composite	PEST+ARO(21)	1263 (Ice) (2)	017	05/21/2015 15:30	
WO-005-006-12-51	F9L86	Soil/ START	Composite	PEST+ARO(21)	1268 (Ice) (2)	017	05/21/2015 15:35	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: PEST+ARO=CLP Pest + ARO	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	[signature] Weston	5/21/15 @ 2100	FedEx	5/21/15 @ 2100	
	FedEx	5/22/2015 838	[signature] DATAL	5/22/2015 838	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773653276760

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-164610-0055
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-001-24-51	F9L72	Soil/ START	Composite	PEST+ARO(21)	1199 (Ice) (2)	017	05/21/2015 11:15	
WO-005-001-24-52	F9L73	Soil/ START	Composite	PEST+ARO(21)	1204 (Ice) (2)	017	05/21/2015 11:20	
WO-005-003-06-51	F9L75	Soil/ START	Composite	PEST+ARO(21)	1213 (Ice) (2)	017	05/21/2015 14:00	
WO-005-003-12-51	F9L76	Soil/ START	Composite	PEST+ARO(21)	1218 (Ice) (4)	017	05/21/2015 14:05	
WO-005-003-24-51	F9L77	Soil/ START	Composite	PEST+ARO(21)	1223 (Ice) (2)	017	05/21/2015 14:10	
WO-005-004-12-51	F9L83	Soil/ START	Composite	PEST+ARO(21)	1253 (Ice) (2)	017	05/21/2015 15:15	

Sample(s) to be used for Lab QC: WO-005-003-12-51 Tag 1218	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: PEST+ARO=CLP Pest + ARO	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples Analysis	D. [signature] Weston	5/21/15 2100	Fed Ex	5/21/15 2100	
	FedEx	5/22/2015/838	Meredith Edwards DATAC	5/22/2015/838	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773653342812

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-105709-0047
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-001-06-51	F9L58	Soil/ START	Composite	PEST+ARO(21)	1124 (Ice) (2)	017	05/21/2015 08:20	
WO-017-001-12-51	F9L59	Soil/ START	Composite	PEST+ARO(21)	1129 (Ice) (2)	017	05/21/2015 08:25	
WO-017-002-06-51	F9L60	Soil/ START	Composite	PEST+ARO(21)	1134 (Ice) (2)	017	05/21/2015 08:45	
WO-017-002-12-51	F9L61	Soil/ START	Composite	PEST+ARO(21)	1149 (Ice) (2)	017	05/21/2015 08:50	
WO-017-002-24-51	F9L62	Soil/ START	Composite	PEST+ARO(21)	1144 (Ice) (2)	017	05/21/2015 08:55	
WO-017-003-06-51	F9L63	Soil/ START	Composite	PEST+ARO(21)	1154 (Ice) (2)	017	05/21/2015 09:30	
WO-017-003-12-51	F9L64	Soil/ START	Composite	PEST+ARO(21)	1159 (Ice) (2)	017	05/21/2015 09:35	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: PEST+ARO=CLP Pest + ARO	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	[signature] Weston	5/21/15 @ 2100	Fedex	5/21/15 @ 2100	
	FedEx	5/22/2015 838	Meredith Edwards DATAL	5/22/2015 838	good

2C - FORM II VOA-3
SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	F9L58	98	101	76	117	105	116	105
02	F9L59	98	102	76	99	103	113	101
03	F9L60	99	101	76	93	100	110	108
04	F9L61	102	105	79	87	105	110	110
05	F9L62	98	101	76	92	101	111	103
06	F9L63	100	105	78	103	107	115	104
07	F9L64	108	110	81	94	110	117	110
08	F9L65	101	104	78	110	107	114	102
09	F9L66	97	102	75	102	100	111	100
10	F9L67	107	111	82	91	109	122 *	129 *
11	F9L67RE	113	116	83	113	112	134 *	114
12	F9L68	98	101	75	100	104	117	100
13	F9L69	102	107	77	98	105	115	107
14	F9L70	98	101	74	109	105	119	98
15	F9L71	96	102	75	92	105	115	99
16	F9L72	96	100	75	134	104	118	100
17	F9L73	96	100	75	106	105	116	98
18	F9L75	102	107	79	100	109	117	102
19	F9L77	98	102	76	98	105	115	100
20	F9L78	96	98	76	108	105	114	102
21	F9L79	94	97	74	116	106	119	99
22	VBLKS4	102	104	78	113	102	111	101
23	VBLKS5	109	107	83	108	103	106	101
24	VHBLKS1	101	104	77	101	108	116	100
25								
26								
27								
28								
29								
30								

	QC LIMITS
VDMC1 (VCL) = Vinyl chloride-d3	(68-122)
VDMC2 (CLA) = Chloroethane-d5	(61-130)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(45-132)
VDMC4 (BUT) = 2-Butanone-d5	(20-182)
VDMC5 (CLF) = Chloroform-d	(72-123)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(79-122)
VDMC7 (BEN) = Benzene-d6	(80-121)

Column to be used to flag recovery values
* Values outside of contract required QC limits

2D - FORM II VOA-4
SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	F9L58	108	102	96	106	105	101	105	0
02	F9L59	106	103	96	97	108	98	103	0
03	F9L60	113	109	94	98	108	92	102	0
04	F9L61	111	104	89	85	101	91	101	0
05	F9L62	108	105	94	96	105	97	103	0
06	F9L63	107	104	97	99	108	98	104	0
07	F9L64	112	106	96	91	100	98	106	0
08	F9L65	106	102	97	101	104	99	107	0
09	F9L66	105	102	99	101	105	96	107	0
10	F9L67	134 *	116	122	79	127	107	103	3
11	F9L67RE	119	105	115	102	142	111	109	1
12	F9L68	105	102	100	95	108	97	106	0
13	F9L69	111	107	103	104	104	97	98	0
14	F9L70	103	101	103	107	114	102	108	0
15	F9L71	104	101	96	86	110	97	106	0
16	F9L72	104	101	105	126	106	102	105	0
17	F9L73	101	99	101	104	115	100	105	0
18	F9L75	103	99	97	99	105	101	104	0
19	F9L77	103	101	98	96	104	96	104	0
20	F9L78	105	103	98	100	109	99	103	0
21	F9L79	104	100	101	106	110	99	106	0
22	VBLKS4	101	100	98	110	110	103	105	0
23	VBLKS5	99	102	95	99	93	92	104	0
24	VHBLKS1	103	100	97	95	97	97	106	0
25									
26									
27									
28									
29									
30									

	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(74-124)
VDMC9 (TOL) = Toluene-d8	(78-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(72-130)
VDMC11 (HEX) = 2-Hexanone-d5	(17-184)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(56-161)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(70-131)

Column to be used to flag recovery values
* Values outside of contract required QC limits

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKS4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: E052BLK Lab Sample ID: 450626

Instrument ID: 5975-E

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 05/26/2015

Level: (TRACE or LOW/MED) LOW Time Analyzed: 19:54

GC Column: RTX-VMS ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F9L58	1514293001	E057C001	22:01
02	F9L59	1514293002	E058C002	22:25
03	F9L60	1514293003	E059C003	22:49
04	F9L61	1514293004	E060C004	23:12
05	F9L62	1514293005	E061C005	23:36
06	F9L63	1514293006	E062C006	00:01
07	F9L64	1514293007	E063C007	00:25
08	F9L65	1514293008	E064C008	00:49
09	F9L66	1514293009	E065C009	01:13
10	F9L67	1514293012	E066C012	01:37
11	F9L68	1514293013	E067C013	02:02
12	F9L69	1514293014	E068C014	02:26
13	F9L70	1514293015	E069C015	02:50
14	F9L71	1514293016	E070C016	03:14
15				
16				
17				
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COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKS5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: E093BLK Lab Sample ID: 450627

Instrument ID: 5975-E

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 05/27/2015

Level: (TRACE or LOW/MED) LOW Time Analyzed: 19:36

GC Column: RTX-VMS ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F9L72	1514293017	E094C017	20:05
02	F9L73	1514293018	E095C018	20:29
03	F9L75	1514293019	E096C019	20:53
04	F9L77	1514293020	E097C020	21:18
05	F9L78	1514293021	E098C021	21:42
06	F9L79	1514293022	E099C022	22:06
07	F9L67RE	1514293012RE	EP00R012	22:30
08	VHBLKS1	450628	EP01HBLK	22:54
09				
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COMMENTS:

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFBSE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: E040BFB BFB Injection Date: 05/15/2015

Instrument ID: 5975-E BFB Injection Time: 17:07

GC Column: RTX-VMS ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.3
75	30.0 - 80.0% of mass 95	51.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1.4 (1.7) 1
174	50.0 - 120% of mass 95	86.5
175	5.0 - 9.0% of mass 174	6.7 (7.8) 1
176	95.0 - 101% of mass 174	82.3 (95.2) 1
177	5.0 - 9.0% of mass 176	4.8 (5.8) 2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005SE	VSTD005SE	E041S05	05/15/2015	17:38
02	VSTD010SE	VSTD010SE	E042S10	05/15/2015	18:02
03	VSTD050SE	VSTD050SE	E043S50	05/15/2015	18:26
04	VSTD100SE	VSTD100SE	E044S100	05/15/2015	18:50
05	VSTD200SE	VSTD200SE	E045S200	05/15/2015	19:15
06					
07					
08					
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5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.: BFBS4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: E050BFB BFB Injection Date: 05/26/2015

Instrument ID: 5975-E BFB Injection Time: 19:05

GC Column: RTX-VMS ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.0
75	30.0 - 80.0% of mass 95	55.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.0 (1.1) 1
174	50.0 - 120% of mass 95	89.2
175	5.0 - 9.0% of mass 174	6.3 (7.1) 1
176	95.0 - 101% of mass 174	86.3 (96.8) 1
177	5.0 - 9.0% of mass 176	5.9 (6.8) 2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050S7	VSTD050S7	E051S50	05/26/2015	19:30
02	VBLKS4	450626	E052BLK	05/26/2015	19:54
03	F9L58	1514293001	E057C001	05/26/2015	22:01
04	F9L59	1514293002	E058C002	05/26/2015	22:25
05	F9L60	1514293003	E059C003	05/26/2015	22:49
06	F9L61	1514293004	E060C004	05/26/2015	23:12
07	F9L62	1514293005	E061C005	05/26/2015	23:36
08	F9L63	1514293006	E062C006	05/27/2015	00:01
09	F9L64	1514293007	E063C007	05/27/2015	00:25
10	F9L65	1514293008	E064C008	05/27/2015	00:49
11	F9L66	1514293009	E065C009	05/27/2015	01:13
12	F9L67	1514293012	E066C012	05/27/2015	01:37
13	F9L68	1514293013	E067C013	05/27/2015	02:02
14	F9L69	1514293014	E068C014	05/27/2015	02:26
15	F9L70	1514293015	E069C015	05/27/2015	02:50
16	F9L71	1514293016	E070C016	05/27/2015	03:14
17	VSTD050S8	VSTD050S8	E071F50	05/27/2015	03:38
18					
19					
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21					
22					

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.: BFBW1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: E074BFB BFB Injection Date: 05/27/2015

Instrument ID: 5975-E BFB Injection Time: 08:46

GC Column: RTX-VMS ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.6
75	30.0 - 80.0% of mass 95	49.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.1 (1.3) 1
174	50.0 - 120% of mass 95	83.6
175	5.0 - 9.0% of mass 174	7.0 (8.4) 1
176	95.0 - 101% of mass 174	80.2 (96.0) 1
177	5.0 - 9.0% of mass 176	6.1 (7.6) 2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050S9	VSTD050S9	E075S50	05/27/2015	09:10
02	VSTD050SB	VSTD050SB	E092S50	05/27/2015	19:12
03	VBLKS5	450627	E093BLK	05/27/2015	19:36
04	F9L72	1514293017	E094C017	05/27/2015	20:05
05	F9L73	1514293018	E095C018	05/27/2015	20:29
06	F9L75	1514293019	E096C019	05/27/2015	20:53
07	F9L77	1514293020	E097C020	05/27/2015	21:18
08	F9L78	1514293021	E098C021	05/27/2015	21:42
09	F9L79	1514293022	E099C022	05/27/2015	22:06
10	F9L67RE	1514293012RE	EP00R012	05/27/2015	22:30
11	VHBLKS1	450628	EP01HBLK	05/27/2015	22:54
12	VSTD050S0	VSTD050S0	EP09F50	05/28/2015	02:07
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14					
15					
16					
17					
18					
19					
20					
21					
22					

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTX-VMS ID: 0.25 (mm) Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050S7 Date Analyzed: 05/26/2015

Lab File ID (Standard): E051S50 Time Analyzed: 19:30

Instrument ID: 5975-E Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	1452073		10.60		1639838		7.40		795149		13.00	
	UPPER LIMIT	2904146		11.10		3279676		7.90		1590298		13.50	
	LOWER LIMIT	726037		10.10		819919		6.90		397575		12.50	
	EPA SAMPLE NO.												
01	VBLKS4	1442220		10.61		1507992		7.41		727476		13.00	
02	F9L58	1250519		10.60		1349634		7.41		531271		13.00	
03	F9L59	1343047		10.61		1414799		7.41		547593		13.00	
04	F9L60	1245300		10.60		1417898		7.41		465004		13.00	
05	F9L61	1209974		10.61		1363710		7.41		452665		13.00	
06	F9L62	1304989		10.61		1408815		7.41		539727		13.00	
07	F9L63	1231768		10.60		1305812		7.40		529778		13.00	
08	F9L64	1125771		10.60		1227454		7.40		450415		13.00	
09	F9L65	1294091		10.61		1336794		7.41		592992		13.00	
10	F9L66	1311466		10.61		1376839		7.40		588954		13.00	
11	F9L67	923606		10.61		1209994		7.40		243006	*	13.00	
12	F9L68	1364102		10.61		1403959		7.41		585025		13.00	
13	F9L69	1238111		10.61		1352025		7.41		499696		13.00	
14	F9L70	1312559		10.61		1322663		7.41		611969		13.00	
15	F9L71	1390021		10.61		1416563		7.41		611286		13.00	
16													
17													
18													
19													
20													
21													
22													

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTX-VMS ID: 0.25 (mm) Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050S9 Date Analyzed: 05/27/2015

Lab File ID (Standard): E075S50 Time Analyzed: 09:10

Instrument ID: 5975-E Heated Purge: (Y/N) Y

	IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD		1380865		10.60		1531515		7.40		773092		13.00	
	UPPER LIMIT		2761730		11.10		3063030		7.90		1546184		13.50	
	LOWER LIMIT		690433		10.10		765758		6.90		386546		12.50	
	EPA SAMPLE NO.													
01														
02														
03														
04														
05														
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21														
22														

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTX-VMS ID: 0.25 (mm) Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050SB Date Analyzed: 05/27/2015

Lab File ID (Standard): E092S50 Time Analyzed: 19:12

Instrument ID: 5975-E Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	1363798		10.61		1454070		7.40		747999		13.00	
	UPPER LIMIT	2727596		11.11		2908140		7.90		1495998		13.50	
	LOWER LIMIT	681899		10.11		727035		6.90		374000		12.50	
	EPA SAMPLE NO.												
01	VBLKS5	1377314		10.61		1434710		7.41		660322		13.00	
02	F9L72	1417468		10.60		1458438		7.40		618738		13.00	
03	F9L73	1474750		10.60		1487795		7.41		722813		13.00	
04	F9L75	1292915		10.60		1321025		7.41		621372		13.00	
05	F9L77	1355755		10.61		1377114		7.41		641114		13.00	
06	F9L78	1397003		10.61		1465063		7.41		597604		13.00	
07	F9L79	1376165		10.61		1390538		7.41		652651		13.00	
08	F9L67RE	867133		10.61		979165		7.41		338402	*	13.00	
09	VHBLKS1	1270563		10.61		1285182		7.40		605653		13.00	
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L58

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293001

Sample wt/vol: 5.62 (g/mL) g Lab File ID: E057C001

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 17. Date Analyzed: 05/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	0.16	J
75-35-4	1,1-Dichloroethene	5.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U
67-64-1	Acetone	2.6	JB
75-15-0	Carbon disulfide	5.4	U
79-20-9	Methyl acetate	5.4	U
75-09-2	Methylene chloride	0.24	JB
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
78-93-3	2-Butanone	11.	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
110-82-7	Cyclohexane	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
71-43-2	Benzene	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
123-91-1	1,4-Dioxane	110	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L58

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293001

Sample wt/vol: 5.62 (g/mL) g Lab File ID: E057C001

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 17. Date Analyzed: 05/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.4	U
108-87-2	Methylcyclohexane	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	0.22	J
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
100-41-4	Ethylbenzene	5.4	U
95-47-6	o-Xylene	5.4	U
179601-23-1	m,p-Xylene	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L58

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293001
Sample wt/vol: 5.62 (g/mL) g Lab File ID: E057C001
Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015
% Moisture: not dec. 17. Date Analyzed: 05/26/2015
GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

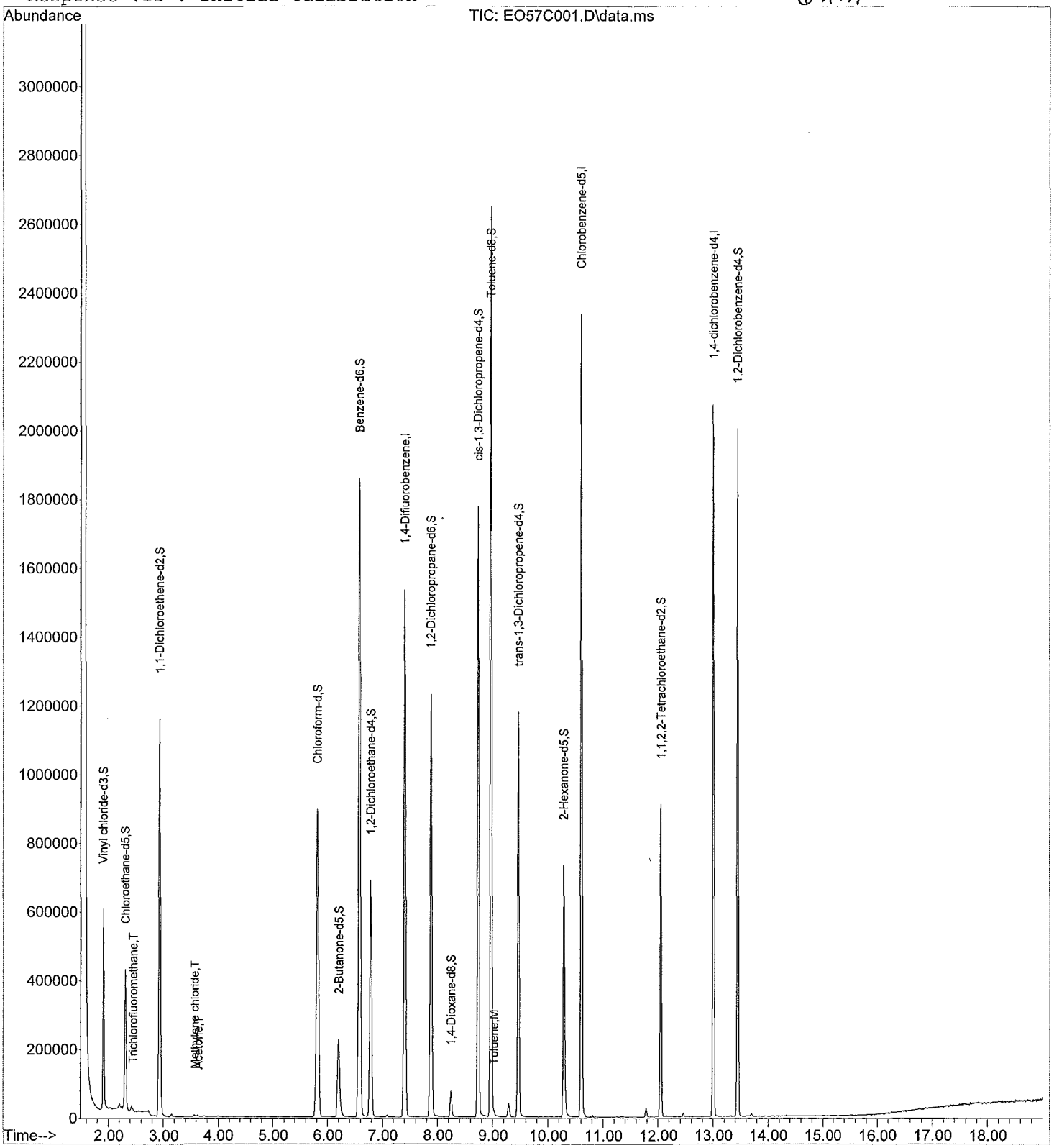
Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO57C001.D Vial: 8
Acq Time : 05/26/2015 22:01 Operator: CQC
Sample : 1514293001 F9L58 Inst : 5975-E
Misc : 1514293 5.62 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:23:43 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.15



Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO57C001.D Vial: 8
Acq Time : 05/26/2015 22:01 Operator: CQC
Sample : 1514293001 F9L58 Inst : 5975-E
Misc : 1514293 5.62 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:23:43 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1349634	50.0000 ug/Kg	74.84
30) Chlorobenzene-d5	10.60	117	1250519	50.0000 ug/Kg	75.75
62) 1,4-dichlorobenzene-d4	13.00	152	531271	50.0000 ug/Kg	61.05
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	514396	48.9706 ug/Kg	97.94%
8) Chloroethane-d5	2.31	69	406212	50.7325 ug/Kg	101.47%
11) 1,1-Dichloroethene-d2	2.93	63	905524	37.9920 ug/Kg	75.98%
22) 2-Butanone-d5	6.19	46	371807	116.6009 ug/Kg	116.60%
25) Chloroform-d	5.81	84	986460	52.5612 ug/Kg	105.12%
27) 1,2-Dichloroethane-d4	6.78	65	574280	57.7875 ug/Kg	115.58%
29) 1,4-Dioxane-d8	8.24	96	51421	1045.0324 ug/Kg	104.50%
35) Benzene-d6	6.58	84	1981617	52.6760 ug/Kg	105.35%
39) 1,2-Dichloropropane-d6	7.88	67	591451	53.7630 ug/Kg	107.53%
42) cis-1,3-Dichloropropene-d4	8.74	79	990457	50.3586 ug/Kg	100.72%
44) trans-1,3-Dichloropropene-	9.46	79	598132	47.9976 ug/Kg	96.00%
49) Toluene-d8	8.97	98	1767225	51.0383 ug/Kg	102.08%
52) 2-Hexanone-d5	10.28	63	215698	106.1121 ug/Kg	106.11%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	451111	50.7384 ug/Kg	101.48%
67) 1,2-Dichlorobenzene-d4	13.44	152	518294	52.3199 ug/Kg	104.64%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	2.46	101	2028	0.1508 ug/Kg#	69
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	7455	2.4065 ug/Kg	89
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	2077	0.2231 ug/Kg	80
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	0.00	83		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

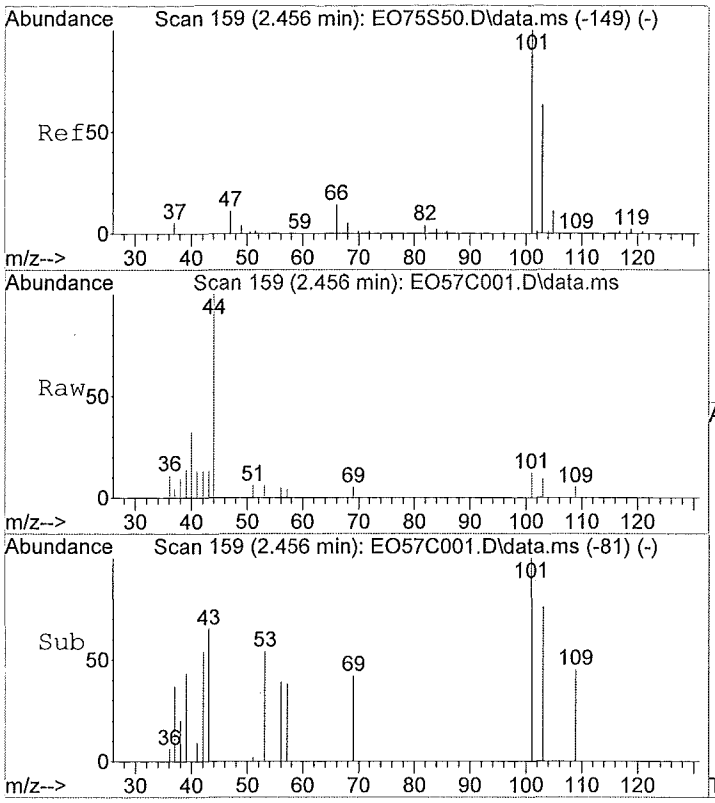
Data File : C:\msdchem\1\Data by...E\26MAY15E\EO57C001.D Vial: 8
Acq Time : 05/26/2015 22:01 Operator: CQC
Sample : 1514293001 F9L58 Inst : 5975-E
Misc : 1514293 5.62 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:23:43 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.03	91	8260	0.2039 ug/Kg	98
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

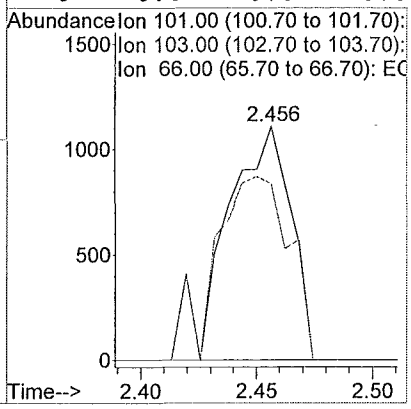
(#) = qualifier out of range (m) = manual integration

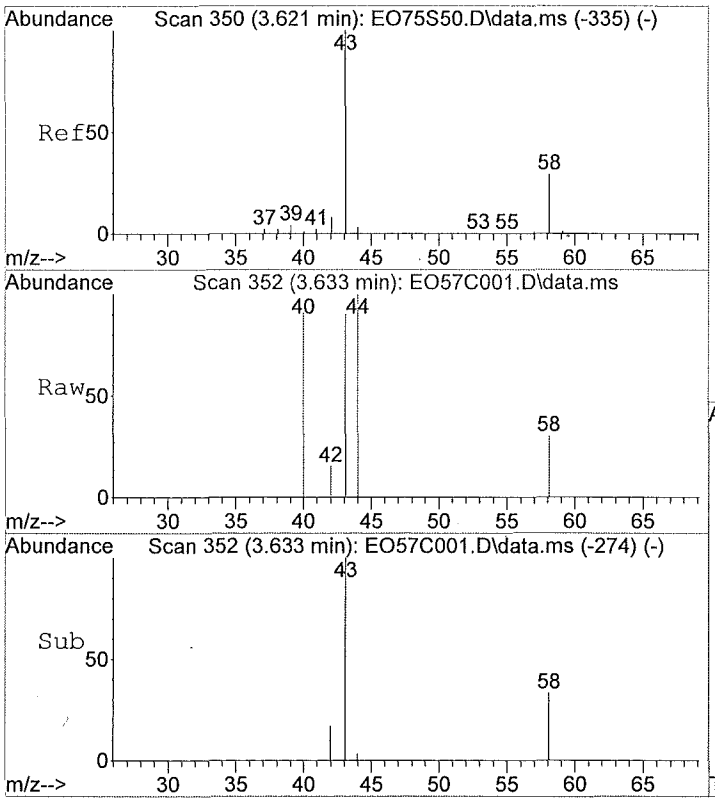


#9
Trichlorofluoromethane
Concen: 0.15 ug/Kg
RT: 2.46 min Scan# 159
Delta R.T. -0.00 min
Lab File: EO57C001.D
Acq: 05/26/2015 22:01

Tgt Ion:101 Resp: 2028

Ion	Ratio	Lower	Upper
101	100		
103	88.3	32.5	97.4
66	0.0	7.3	22.0#
0	0.0	0.0	0.0

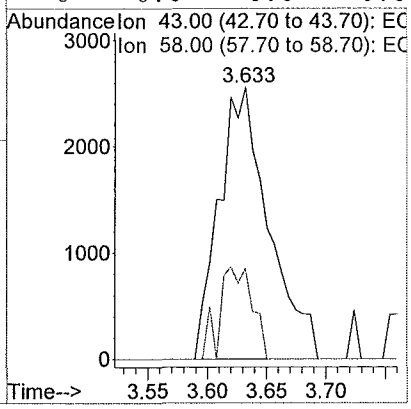


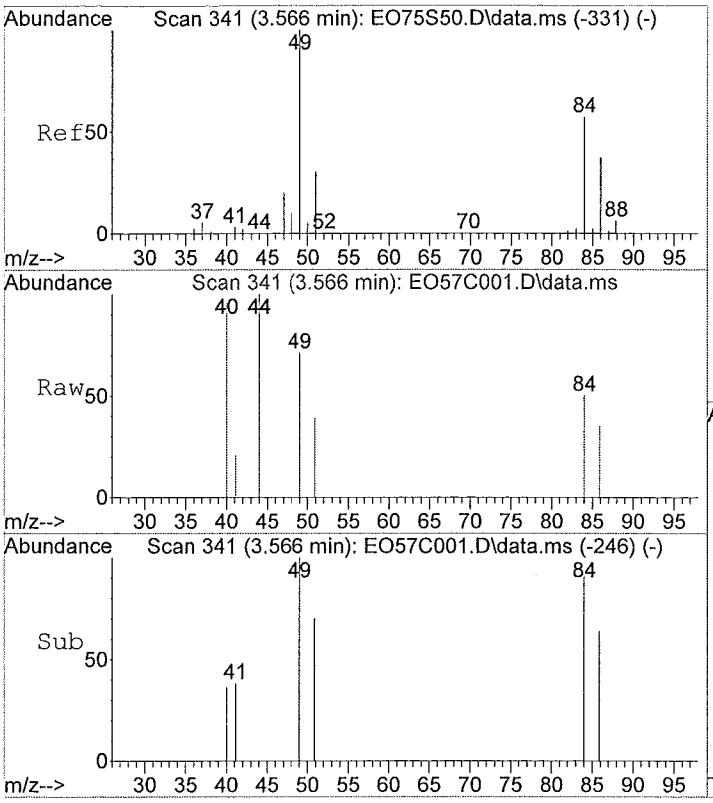


#13
Acetone
Concen: 2.41 ug/Kg
RT: 3.63 min Scan# 352
Delta R.T. 0.01 min
Lab File: EO57C001.D
Acq: 05/26/2015 22:01

Tgt Ion:43 Resp: 7455

Ion	Ratio	Lower	Upper
43	100		
58	22.5	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

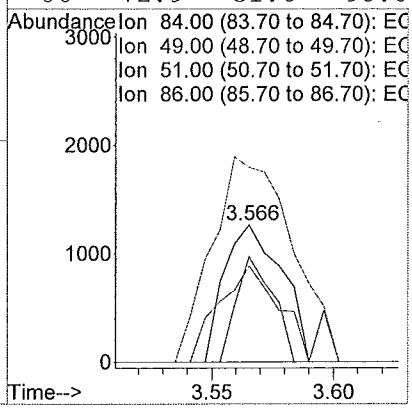


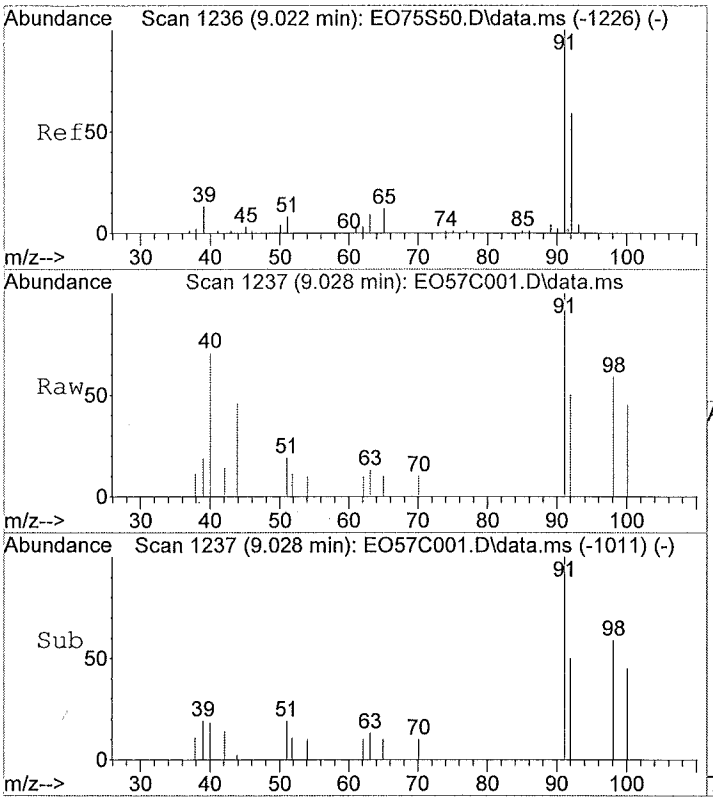


#16
Methylene chloride
Concen: 0.22 ug/Kg
RT: 3.57 min Scan# 341
Delta R.T. -0.01 min
Lab File: EO57C001.D
Acq: 05/26/2015 22:01

Tgt Ion:84 Resp: 2077

Ion	Ratio	Lower	Upper
84	100		
49	207.4	84.4	253.2
51	48.8	25.7	77.0
86	72.9	31.6	95.0

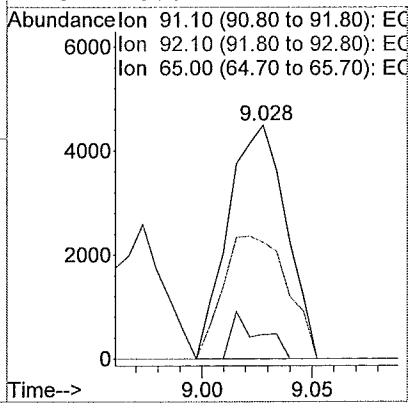




#48
Toluene
Concen: 0.20 ug/Kg
RT: 9.03 min Scan# 1237
Delta R.T. 0.01 min
Lab File: EO57C001.D
Acq: 05/26/2015 22:01

Tgt Ion:91.1 Resp: 8260

Ion	Ratio	Lower	Upper
91	100		
92	58.3	47.2	70.8
65	10.0	9.6	14.4
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L59

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293002

Sample wt/vol: 5.61 (g/mL) g Lab File ID: E058C002

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 15. Date Analyzed: 05/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.3	U
74-87-3	Chloromethane	5.3	U
75-01-4	Vinyl chloride	5.3	U
74-83-9	Bromomethane	5.3	U
75-00-3	Chloroethane	5.3	U
75-69-4	Trichlorofluoromethane	5.3	U
75-35-4	1,1-Dichloroethene	5.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.3	U
67-64-1	Acetone	2.1	JB
75-15-0	Carbon disulfide	5.3	U
79-20-9	Methyl acetate	5.3	U
75-09-2	Methylene chloride	0.20	JB
156-60-5	trans-1,2-Dichloroethene	5.3	U
1634-04-4	Methyl tert-butyl ether	5.3	U
75-34-3	1,1-Dichloroethane	5.3	U
156-59-2	cis-1,2-Dichloroethene	5.3	U
78-93-3	2-Butanone	11.	U
74-97-5	Bromochloromethane	5.3	U
67-66-3	Chloroform	0.46	J
71-55-6	1,1,1-Trichloroethane	5.3	U
110-82-7	Cyclohexane	5.3	U
56-23-5	Carbon tetrachloride	5.3	U
71-43-2	Benzene	5.3	U
107-06-2	1,2-Dichloroethane	5.3	U
123-91-1	1,4-Dioxane	110	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L59

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293002

Sample wt/vol: 5.61 (g/mL) g Lab File ID: E058C002

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 15. Date Analyzed: 05/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.3	U
108-87-2	Methylcyclohexane	5.3	U
78-87-5	1,2-Dichloropropane	5.3	U
75-27-4	Bromodichloromethane	5.3	U
10061-01-5	cis-1,3-Dichloropropene	5.3	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	0.62	J
10061-02-6	trans-1,3-Dichloropropene	5.3	U
79-00-5	1,1,2-Trichloroethane	5.3	U
127-18-4	Tetrachloroethene	5.3	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.3	U
106-93-4	1,2-Dibromoethane	5.3	U
108-90-7	Chlorobenzene	5.3	U
100-41-4	Ethylbenzene	5.3	U
95-47-6	o-Xylene	5.3	U
179601-23-1	m,p-Xylene	5.3	U
100-42-5	Styrene	5.3	U
75-25-2	Bromoform	5.3	U
98-82-8	Isopropylbenzene	5.3	U
79-34-5	1,1,2,2-Tetrachloroethane	5.3	U
541-73-1	1,3-Dichlorobenzene	5.3	U
106-46-7	1,4-Dichlorobenzene	5.3	U
95-50-1	1,2-Dichlorobenzene	5.3	U
96-12-8	1,2-Dibromo-3-chloropropane	5.3	U
120-82-1	1,2,4-Trichlorobenzene	5.3	U
87-61-6	1,2,3-Trichlorobenzene	5.3	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L59

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293002

Sample wt/vol: 5.61 (g/mL) g Lab File ID: E058C002

Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 15. Date Analyzed: 05/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
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16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

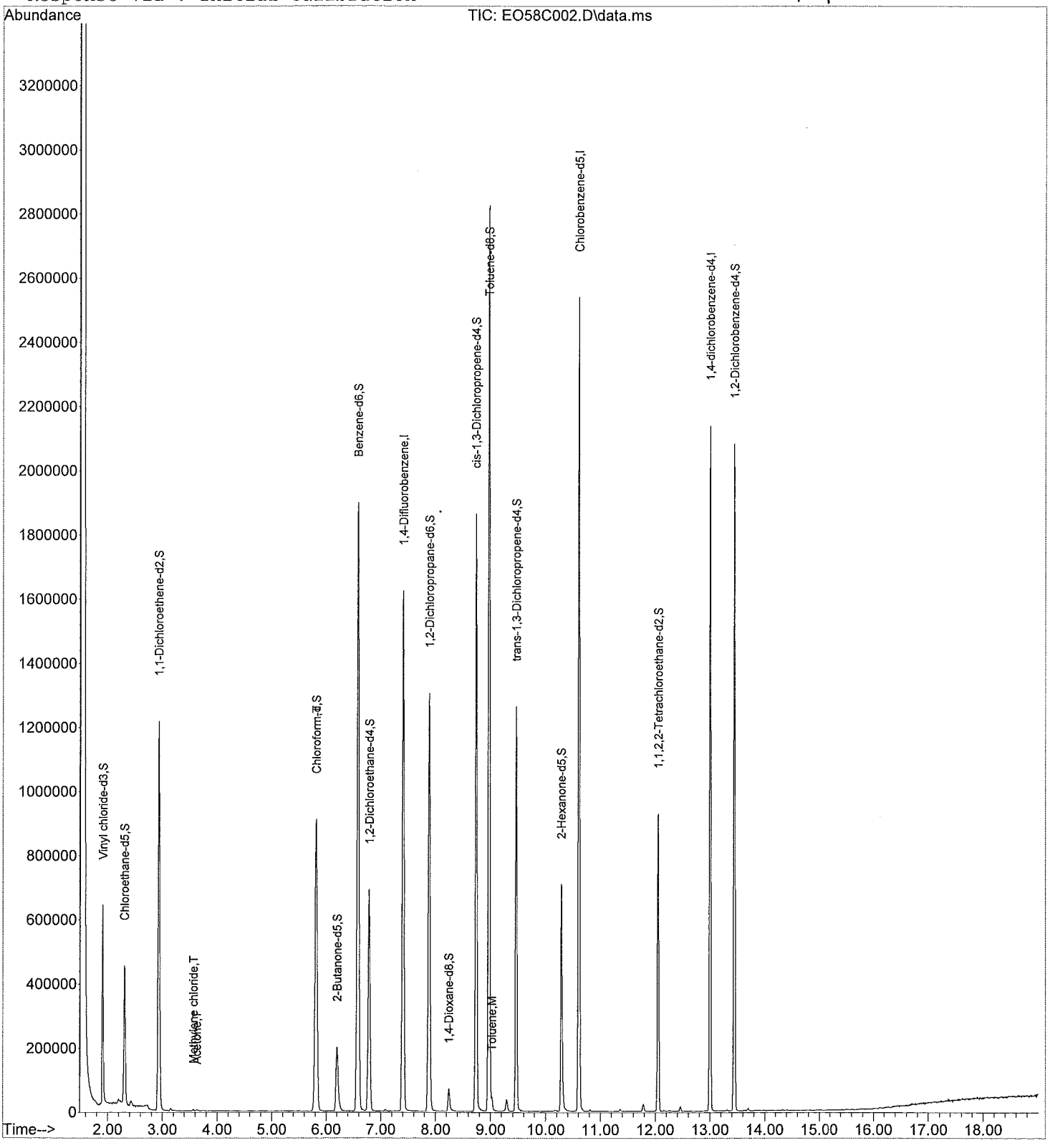
Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO58C002.D Vial: 9
Acq Time : 05/26/2015 22:25 Operator: CQC
Sample : 1514293002 F9L59 Inst : 5975-E
Misc : 1514293 5.61 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:24:19 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.15



Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO58C002.D Vial: 9
Acq Time : 05/26/2015 22:25 Operator: CQC
Sample : 1514293002 F9L59 Inst : 5975-E
Misc : 1514293 5.61 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:24:19 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1414799	50.0000 ug/Kg	78.45
30) Chlorobenzene-d5	10.61	117	1343047	50.0000 ug/Kg	81.35
62) 1,4-dichlorobenzene-d4	13.00	152	547593	50.0000 ug/Kg	62.93
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	537063	48.7736 ug/Kg	97.55%
8) Chloroethane-d5	2.31	69	427675	50.9529 ug/Kg	101.91%
11) 1,1-Dichloroethene-d2	2.93	63	944550	37.8041 ug/Kg	75.61%
22) 2-Butanone-d5	6.20	46	332231	99.3907 ug/Kg	99.39%
25) Chloroform-d	5.82	84	1012339	51.4556 ug/Kg	102.91%
27) 1,2-Dichloroethane-d4	6.78	65	588556	56.4962 ug/Kg	112.99%
29) 1,4-Dioxane-d8	8.24	96	55538	1076.7149 ug/Kg	107.67%
35) Benzene-d6	6.58	84	2039330	50.4754 ug/Kg	100.95%
39) 1,2-Dichloropropane-d6	7.88	67	628539	53.1981 ug/Kg	106.40%
42) cis-1,3-Dichloropropene-d4	8.74	79	1050704	49.7414 ug/Kg	99.48%
44) trans-1,3-Dichloropropene-	9.46	79	643257	48.0625 ug/Kg	96.12%
49) Toluene-d8	8.97	98	1921589	51.6731 ug/Kg	103.35%
52) 2-Hexanone-d5	10.28	63	210827	96.5704 ug/Kg	96.57%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	466334	48.8370 ug/Kg	97.67%
67) 1,2-Dichlorobenzene-d4	13.44	152	528067	51.7175 ug/Kg	103.44%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	6370	1.9615 ug/Kg#	72
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.56	84	1899	0.1946 ug/Kg	72
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	5.82	83	7759	0.4364 ug/Kg#	1
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	0.00	83		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

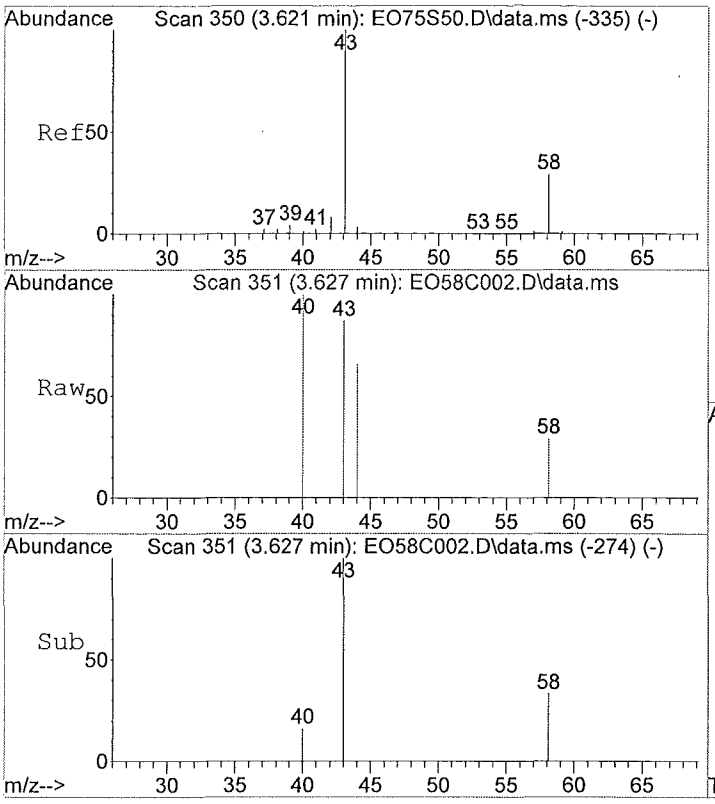
Data File : C:\msdchem\1\Data by...E\26MAY15E\EO58C002.D Vial: 9
Acq Time : 05/26/2015 22:25 Operator: CQC
Sample : 1514293002 F9L59 Inst : 5975-E
Misc : 1514293 5.61 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:24:19 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.03	91	25519	0.5866 ug/Kg	98
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

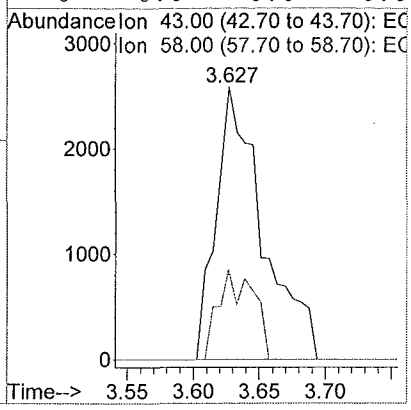
(#) = qualifier out of range (m) = manual integration

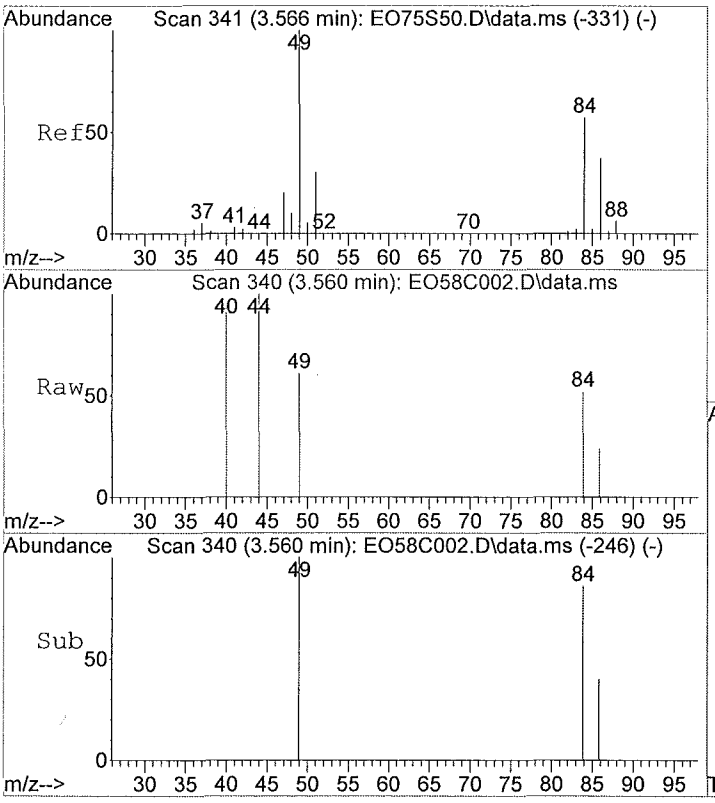


#13
Acetone
Concen: 1.96 ug/Kg
RT: 3.63 min Scan# 351
Delta R.T. 0.01 min
Lab File: EO58C002.D
Acq: 05/26/2015 22:25

Tgt Ion:43 Resp: 6370

Ion	Ratio	Lower	Upper
43	100		
58	13.6	14.2	42.8#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

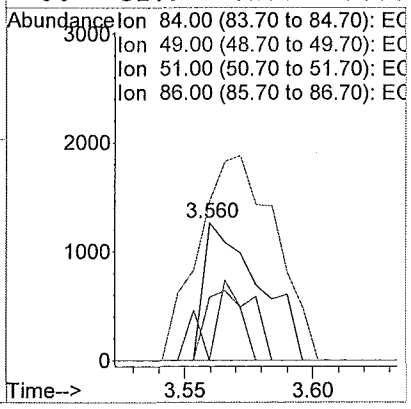


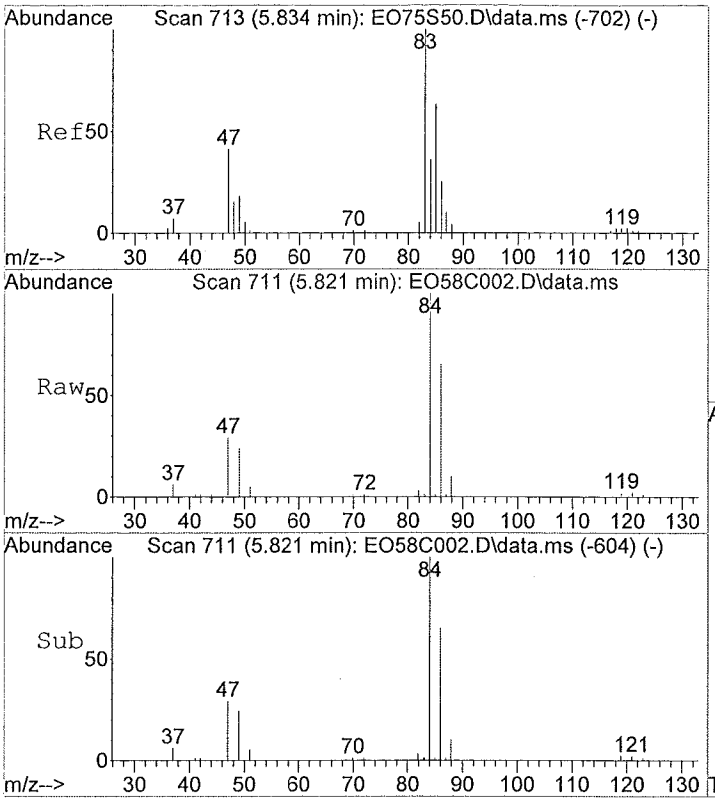


#16
Methylene chloride
Concen: 0.19 ug/Kg
RT: 3.56 min Scan# 340
Delta R.T. -0.01 min
Lab File: EO58C002.D
Acq: 05/26/2015 22:25

Tgt Ion:84 Resp: 1899

Ion	Ratio	Lower	Upper
84	100		
49	207.3	84.4	253.2
51	43.7	25.7	77.0
86	32.9	31.6	95.0

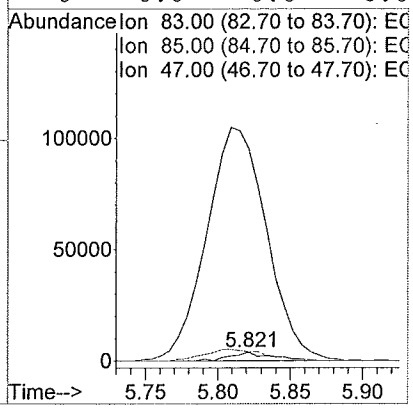


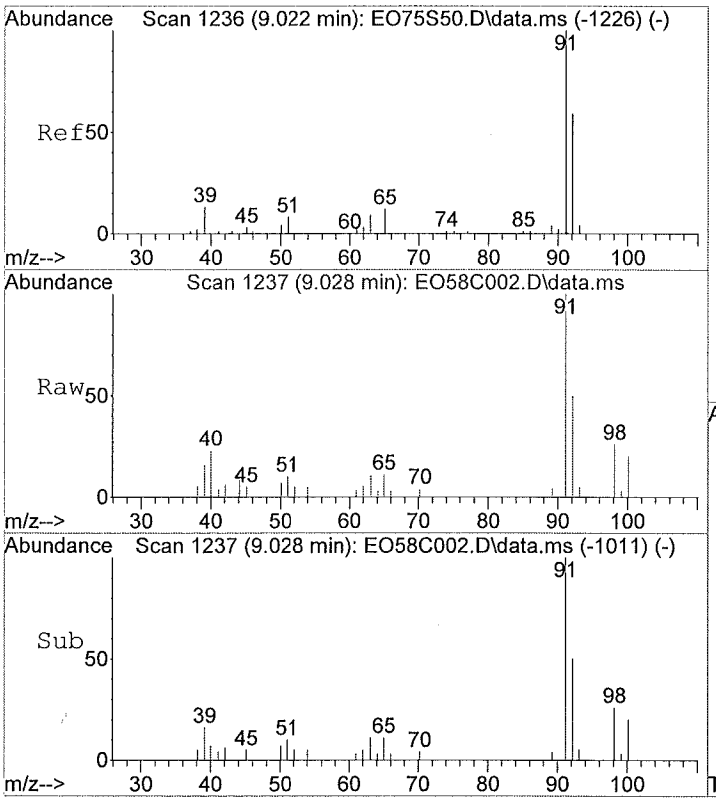


#24
Chloroform
Concen: 0.44 ug/Kg
RT: 5.82 min Scan# 711
Delta R.T. -0.01 min
Lab File: EO58C002.D
Acq: 05/26/2015 22:25

Tgt Ion:83 Resp: 7759

Ion	Ratio	Lower	Upper
83	100		
85	197.2	32.5	97.5#
47	3890.5	31.1	93.5#
0	0.0	0.0	0.0

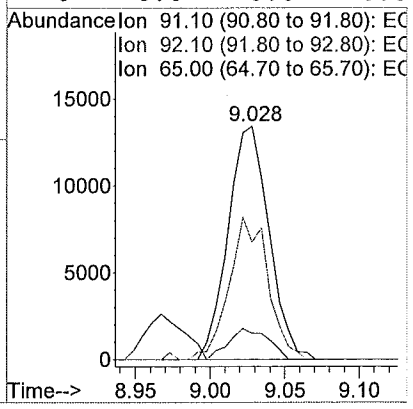




#48
Toluene
Concen: 0.59 ug/Kg
RT: 9.03 min Scan# 1237
Delta R.T. 0.01 min
Lab File: EO58C002.D
Acq: 05/26/2015 22:25

Tgt Ion:91.1 Resp: 25519

Ion	Ratio	Lower	Upper
91	100		
92	57.8	47.2	70.8
65	12.9	9.6	14.4
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L60

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293003

Sample wt/vol: 5.59 (g/mL) g Lab File ID: E059C003

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 19. Date Analyzed: 05/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
67-64-1	Acetone	4.7	JB
75-15-0	Carbon disulfide	5.5	U
79-20-9	Methyl acetate	5.5	U
75-09-2	Methylene chloride	0.45	JB
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
78-93-3	2-Butanone	7.5	J
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
110-82-7	Cyclohexane	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
71-43-2	Benzene	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
123-91-1	1,4-Dioxane	110	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L60

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293003

Sample wt/vol: 5.59 (g/mL) g Lab File ID: E059C003

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 19. Date Analyzed: 05/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.5	U
108-87-2	Methylcyclohexane	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
100-41-4	Ethylbenzene	5.5	U
95-47-6	o-Xylene	5.5	U
179601-23-1	m,p-Xylene	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L60

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293003

Sample wt/vol: 5.59 (g/mL) g Lab File ID: E059C003

Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 19. Date Analyzed: 05/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

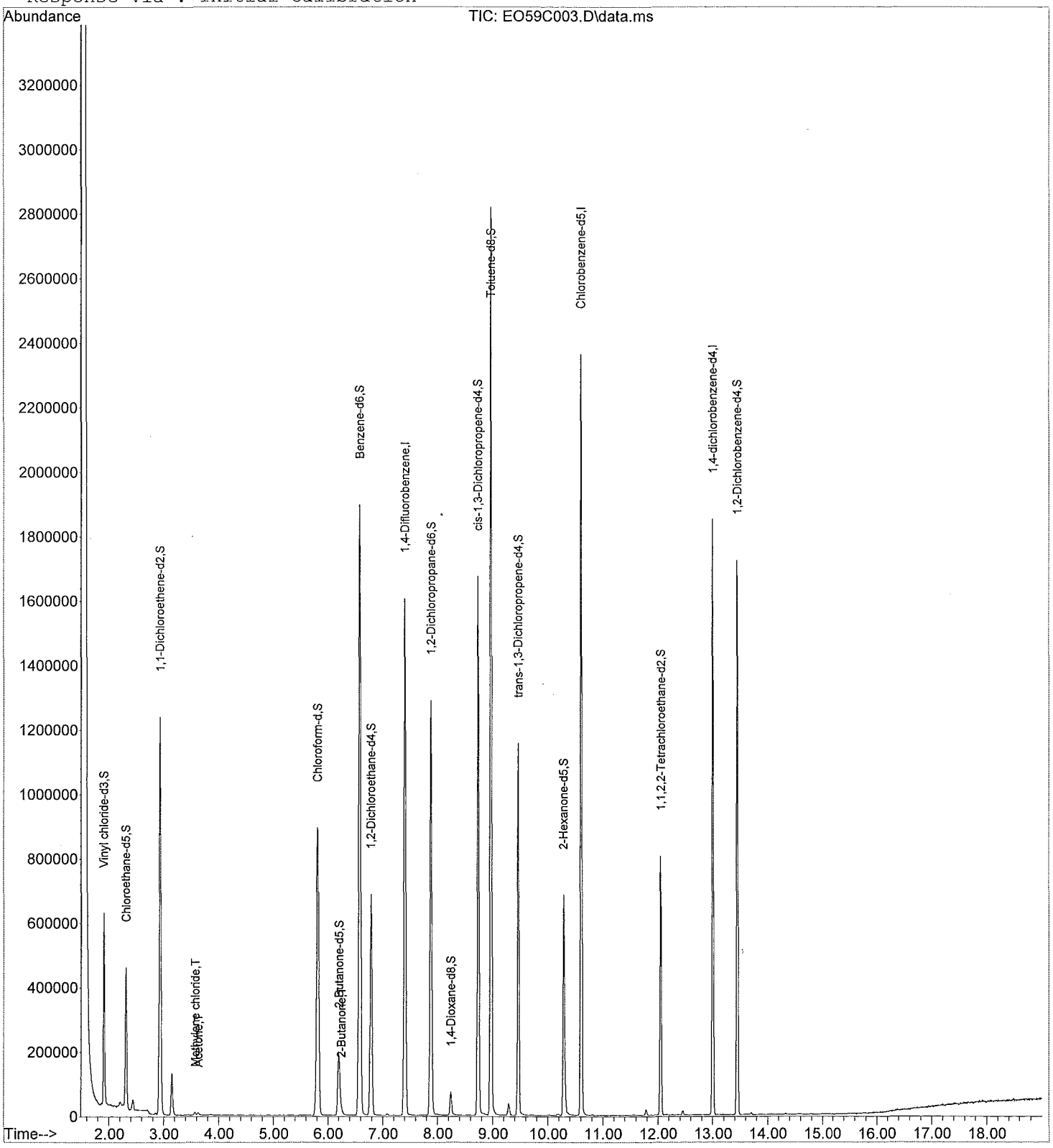
Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO59C003.D Vial: 10
Acq Time : 05/26/2015 22:49 Operator: CQC
Sample : 1514293003 F9L60 Inst : 5975-E
Misc : 1514293 5.59 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:24:46 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.15



Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO59C003.D Vial: 10
Acq Time : 05/26/2015 22:49 Operator: CQC
Sample : 1514293003 F9L60 Inst : 5975-E
Misc : 1514293 5.59 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:24:46 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1417898	50.0000 ug/Kg	78.63
30) Chlorobenzene-d5	10.60	117	1245300	50.0000 ug/Kg	75.43
62) 1,4-dichlorobenzene-d4	13.00	152	465004	50.0000 ug/Kg	53.44
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	547556	49.6178 ug/Kg	99.24%
8) Chloroethane-d5	2.31	69	425854	50.6251 ug/Kg	101.25%
11) 1,1-Dichloroethene-d2	2.93	63	954713	38.1273 ug/Kg	76.25%
22) 2-Butanone-d5	6.20	46	311892	93.1021 ug/Kg	93.10%
25) Chloroform-d	5.81	84	990037	50.2121 ug/Kg	100.42%
27) 1,2-Dichloroethane-d4	6.78	65	575741	55.1453 ug/Kg	110.29%
29) 1,4-Dioxane-d8	8.24	96	55782	1079.0817 ug/Kg	107.91%
35) Benzene-d6	6.58	84	2017494	53.8545 ug/Kg	107.71%
39) 1,2-Dichloropropane-d6	7.88	67	620414	56.6321 ug/Kg	113.26%
42) cis-1,3-Dichloropropene-d4	8.74	79	947442	48.3735 ug/Kg	96.75%
44) trans-1,3-Dichloropropene-	9.46	79	584061	47.0649 ug/Kg	94.13%
49) Toluene-d8	8.97	98	1881051	54.5534 ug/Kg	109.11%
52) 2-Hexanone-d5	10.28	63	197865	97.7472 ug/Kg	97.75%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	405410	45.7893 ug/Kg	91.58%
67) 1,2-Dichlorobenzene-d4	13.44	152	444274	51.2390 ug/Kg	102.48%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.62	43	13885	4.2663 ug/Kg	95
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.58	84	4025	0.4115 ug/Kg	95
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.25	43	25413	6.8021 ug/Kg#	73
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	0.00	83		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

00061

Quantitation Report

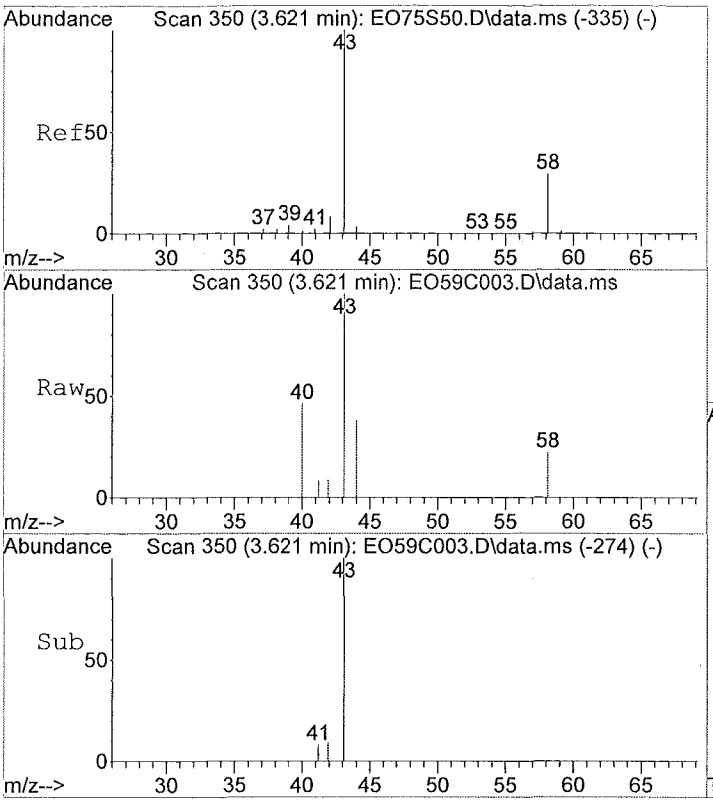
Data File : C:\msdchem\1\Data by...E\26MAY15E\EO59C003.D Vial: 10
Acq Time : 05/26/2015 22:49 Operator: CQC
Sample : 1514293003 F9L60 Inst : 5975-E
Misc : 1514293 5.59 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:24:46 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

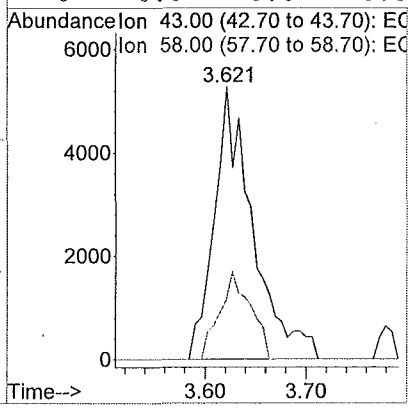
(#) = qualifier out of range (m) = manual integration

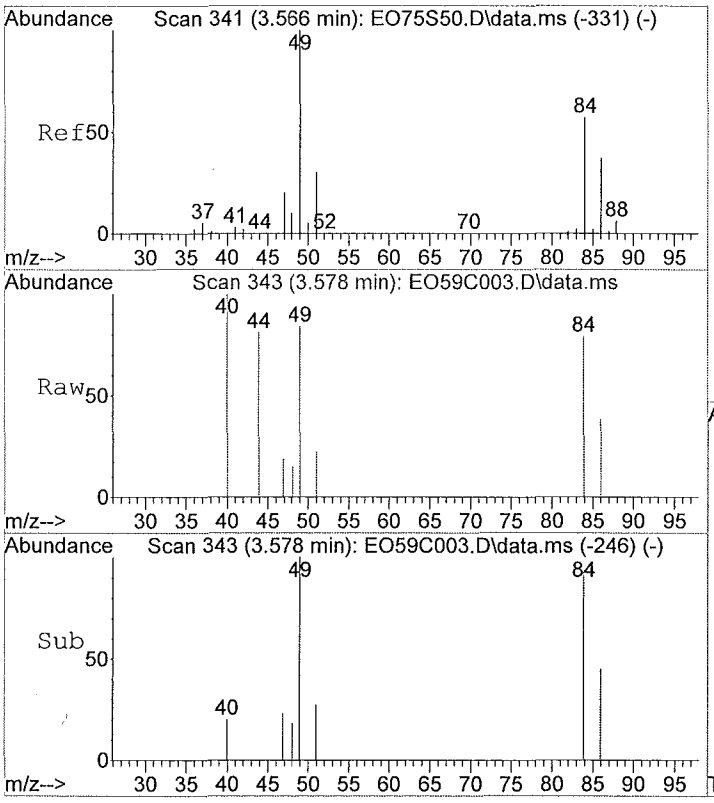


#13
Acetone
Concen: 4.27 ug/Kg
RT: 3.62 min Scan# 350
Delta R.T. 0.00 min
Lab File: EO59C003.D
Acq: 05/26/2015 22:49

Tgt Ion:43 Resp: 13885

Ion	Ratio	Lower	Upper
43	100		
58	25.9	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

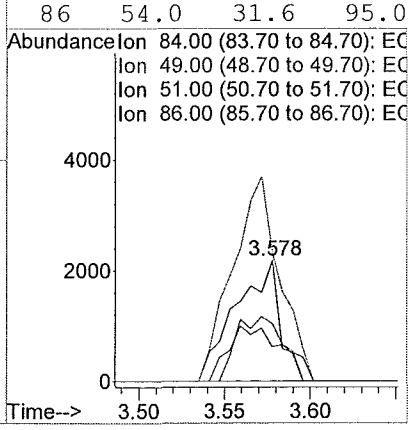


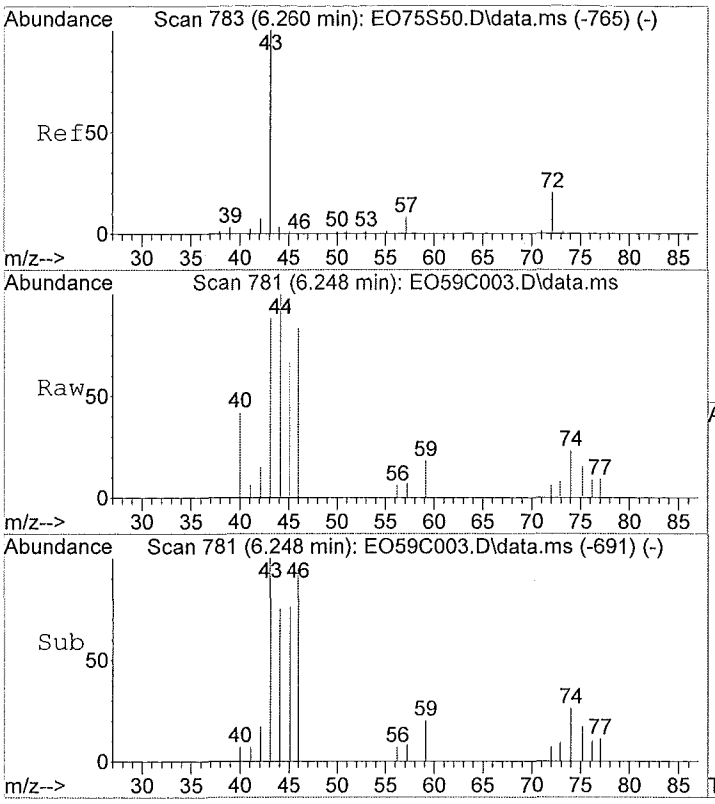


#16
Methylene chloride
Concen: 0.41 ug/Kg
RT: 3.58 min Scan# 343
Delta R.T. 0.01 min
Lab File: EO59C003.D
Acq: 05/26/2015 22:49

Tgt Ion:84 Resp: 4025

Ion	Ratio	Lower	Upper
84	100		
49	173.6	84.4	253.2
51	50.3	25.7	77.0
86	54.0	31.6	95.0

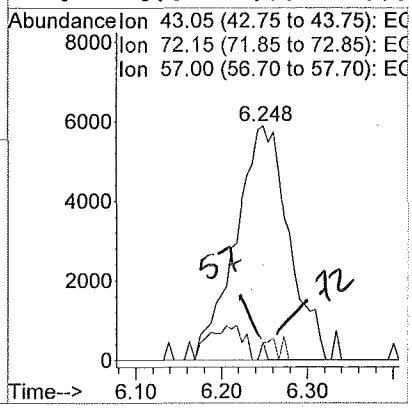




#21
2-Butanone
Concen: 6.80 ug/Kg
RT: 6.25 min Scan# 781
Delta R.T. -0.01 min
Lab File: EO59C003.D
Acq: 05/26/2015 22:49

Tgt Ion:43.05 Resp: 25413

Ion	Ratio	Lower	Upper
43	100		
72	2.9	15.5	23.3#
57	9.5	6.2	9.4#
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L61

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293004

Sample wt/vol: 6.04 (g/mL) g Lab File ID: E060C004

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 16. Date Analyzed: 05/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	4.9	U
74-87-3	Chloromethane	4.9	U
75-01-4	Vinyl chloride	4.9	U
74-83-9	Bromomethane	4.9	U
75-00-3	Chloroethane	4.9	U
75-69-4	Trichlorofluoromethane	4.9	U
75-35-4	1,1-Dichloroethene	4.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.9	U
67-64-1	Acetone	2.3	JB
75-15-0	Carbon disulfide	4.9	U
79-20-9	Methyl acetate	4.9	U
75-09-2	Methylene chloride	0.34	JB
156-60-5	trans-1,2-Dichloroethene	4.9	U
1634-04-4	Methyl tert-butyl ether	4.9	U
75-34-3	1,1-Dichloroethane	4.9	U
156-59-2	cis-1,2-Dichloroethene	4.9	U
78-93-3	2-Butanone	9.8	U
74-97-5	Bromochloromethane	4.9	U
67-66-3	Chloroform	4.9	U
71-55-6	1,1,1-Trichloroethane	4.9	U
110-82-7	Cyclohexane	4.9	U
56-23-5	Carbon tetrachloride	4.9	U
71-43-2	Benzene	4.9	U
107-06-2	1,2-Dichloroethane	4.9	U
123-91-1	1,4-Dioxane	98.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L61

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293004

Sample wt/vol: 6.04 (g/mL) g Lab File ID: E060C004

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 16. Date Analyzed: 05/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	4.9	U
108-87-2	Methylcyclohexane	4.9	U
78-87-5	1,2-Dichloropropane	4.9	U
75-27-4	Bromodichloromethane	4.9	U
10061-01-5	cis-1,3-Dichloropropene	4.9	U
108-10-1	4-Methyl-2-Pentanone	9.8	U
108-88-3	Toluene	0.16	J
10061-02-6	trans-1,3-Dichloropropene	4.9	U
79-00-5	1,1,2-Trichloroethane	4.9	U
127-18-4	Tetrachloroethene	4.9	U
591-78-6	2-Hexanone	9.8	U
124-48-1	Dibromochloromethane	4.9	U
106-93-4	1,2-Dibromoethane	4.9	U
108-90-7	Chlorobenzene	4.9	U
100-41-4	Ethylbenzene	4.9	U
95-47-6	o-Xylene	4.9	U
179601-23-1	m,p-Xylene	4.9	U
100-42-5	Styrene	4.9	U
75-25-2	Bromoform	4.9	U
98-82-8	Isopropylbenzene	4.9	U
79-34-5	1,1,2,2-Tetrachloroethane	4.9	U
541-73-1	1,3-Dichlorobenzene	4.9	U
106-46-7	1,4-Dichlorobenzene	4.9	U
95-50-1	1,2-Dichlorobenzene	4.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.9	U
120-82-1	1,2,4-Trichlorobenzene	4.9	U
87-61-6	1,2,3-Trichlorobenzene	4.9	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L61

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293004
Sample wt/vol: 6.04 (g/mL) g Lab File ID: E060C004
Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015
% Moisture: not dec. 16. Date Analyzed: 05/26/2015
GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

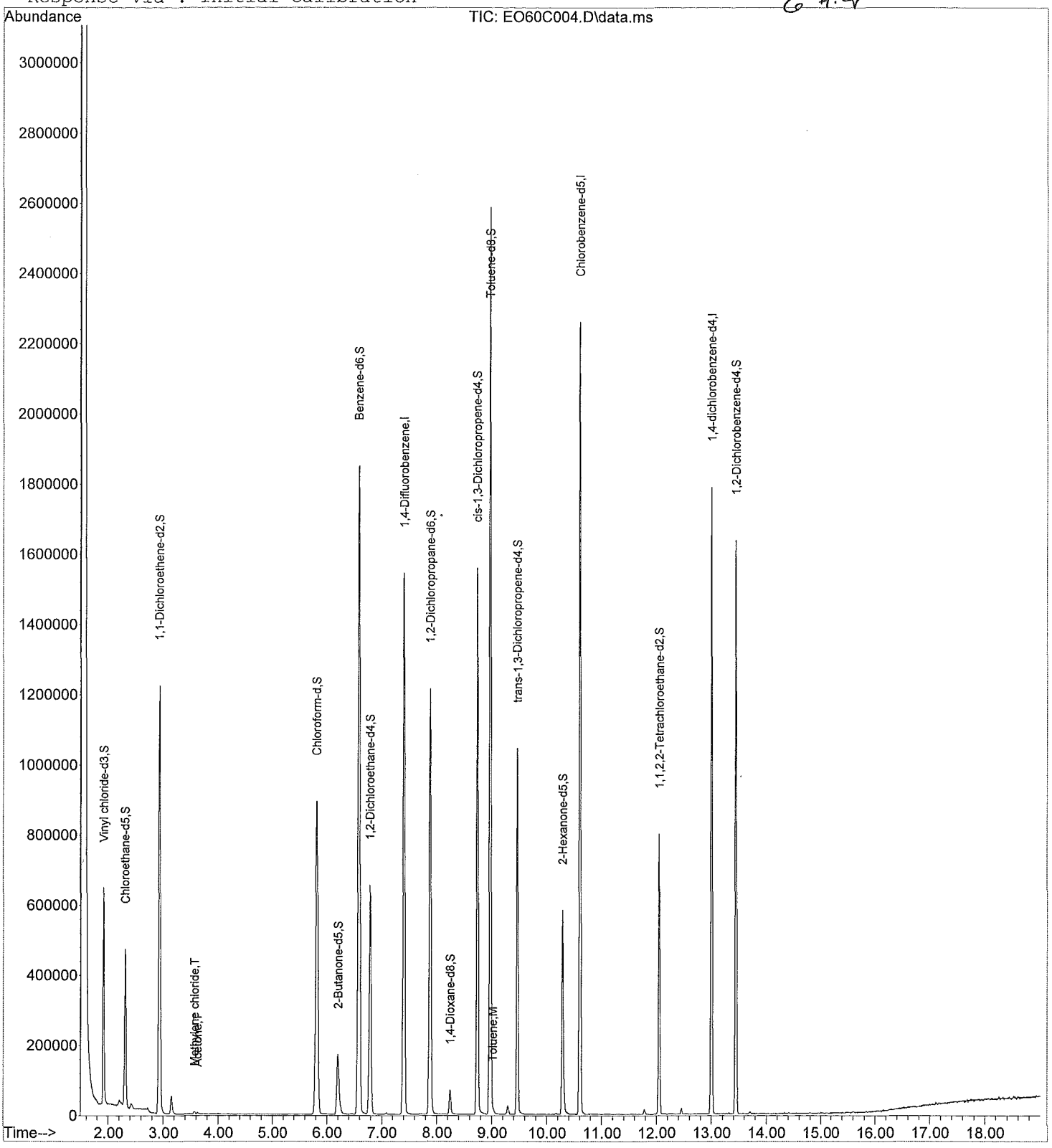
[1] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO60C004.D Vial: 11
Acq Time : 05/26/2015 23:12 Operator: CQC
Sample : 1514293004 F9L61 Inst : 5975-E
Misc : 1514293 6.04 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:25:30 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO60C004.D Vial: 11
Acq Time : 05/26/2015 23:12 Operator: CQC
Sample : 1514293004 F9L61 Inst : 5975-E
Misc : 1514293 6.04 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:25:30 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1363710	50.0000 ug/Kg	75.62
30) Chlorobenzene-d5	10.61	117	1209974	50.0000 ug/Kg	73.29
62) 1,4-dichlorobenzene-d4	13.00	152	452665	50.0000 ug/Kg	52.02
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	538998	50.7831 ug/Kg	101.57%
8) Chloroethane-d5	2.31	69	425025	52.5342 ug/Kg	105.07%
11) 1,1-Dichloroethene-d2	2.93	63	950971	39.4870 ug/Kg	78.97%
22) 2-Butanone-d5	6.20	46	279790	86.8381 ug/Kg	86.84%
25) Chloroform-d	5.81	84	999442	52.7032 ug/Kg	105.41%
27) 1,2-Dichloroethane-d4	6.78	65	553737	55.1452 ug/Kg	110.29%
29) 1,4-Dioxane-d8	8.24	96	50156	1008.8024 ug/Kg	100.88%
35) Benzene-d6	6.58	84	1993444	54.7660 ug/Kg	109.53%
39) 1,2-Dichloropropane-d6	7.88	67	592777	55.6891 ug/Kg	111.38%
42) cis-1,3-Dichloropropene-d4	8.74	79	873537	45.9022 ug/Kg	91.80%
44) trans-1,3-Dichloropropene-	9.46	79	535012	44.3711 ug/Kg	88.74%
49) Toluene-d8	8.97	98	1736979	51.8458 ug/Kg	103.69%
52) 2-Hexanone-d5	10.28	63	166983	84.8996 ug/Kg	84.90%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	391263	45.4816 ug/Kg	90.96%
67) 1,2-Dichlorobenzene-d4	13.44	152	427027	50.5924 ug/Kg	101.18%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	7333	2.3426 ug/Kg	84
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	3224	0.3427 ug/Kg	90
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	0.00	83		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

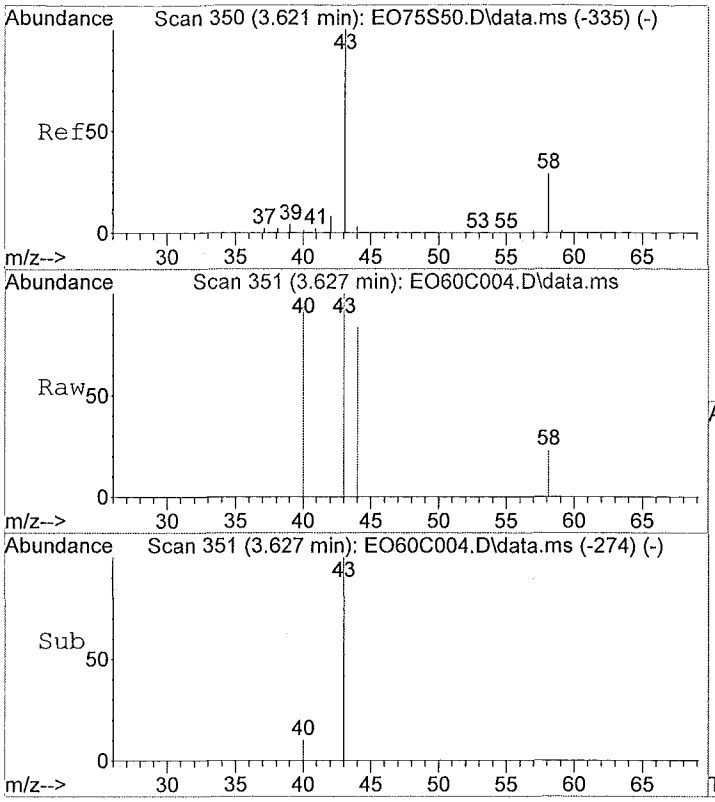
Data File : C:\msdchem\1\Data by...E\26MAY15E\EO60C004.D Vial: 11
Acq Time : 05/26/2015 23:12 Operator: CQC
Sample : 1514293004 F9L61 Inst : 5975-E
Misc : 1514293 6.04 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:25:30 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.02	91	6579	0.1679 ug/Kg#	73
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

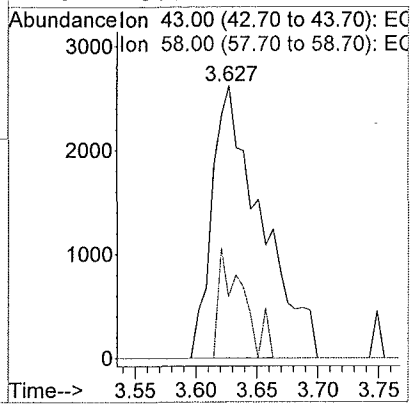
(#) = qualifier out of range (m) = manual integration

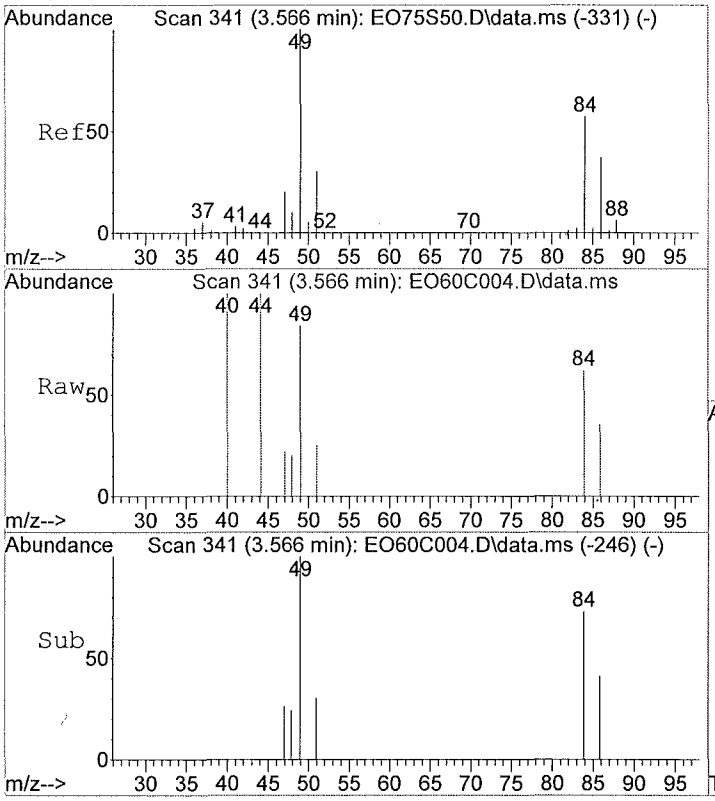


#13
Acetone
Concen: 2.34 ug/Kg
RT: 3.63 min Scan# 351
Delta R.T. 0.01 min
Lab File: EO60C004.D
Acq: 05/26/2015 23:12

Tgt Ion:43 Resp: 7333

Ion	Ratio	Lower	Upper
43	100		
58	20.1	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

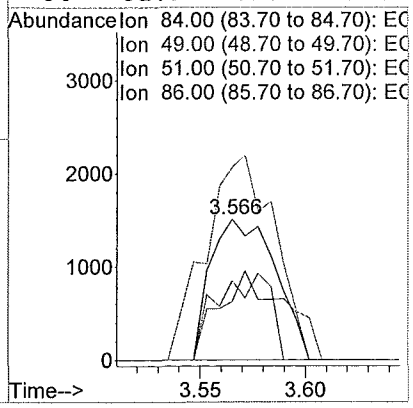


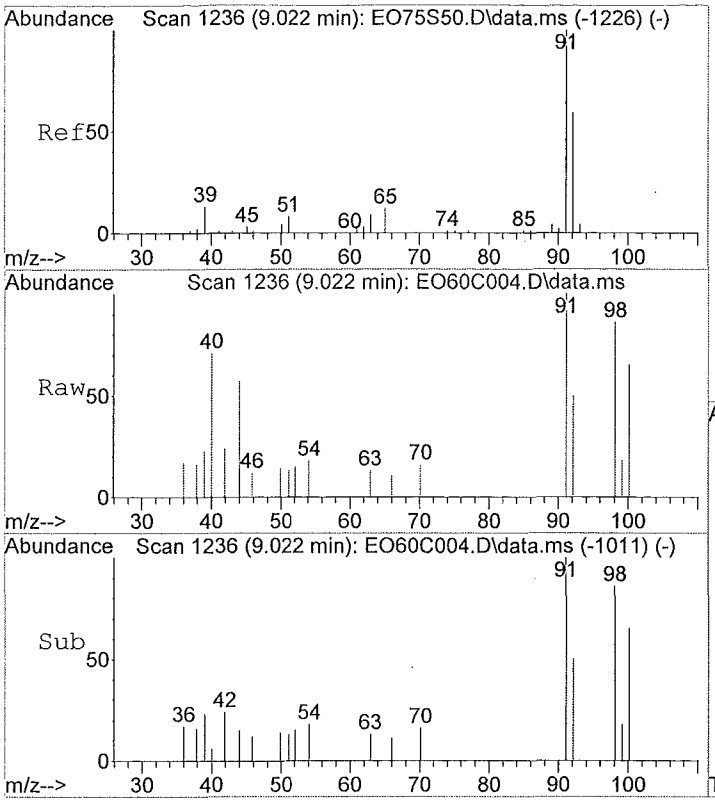


#16
Methylene chloride
Concen: 0.34 ug/Kg
RT: 3.57 min Scan# 341
Delta R.T. -0.01 min
Lab File: EO60C004.D
Acq: 05/26/2015 23:12

Tgt Ion:84 Resp: 3224

Ion	Ratio	Lower	Upper
84	100		
49	159.1	84.4	253.2
51	58.2	25.7	77.0
86	51.1	31.6	95.0

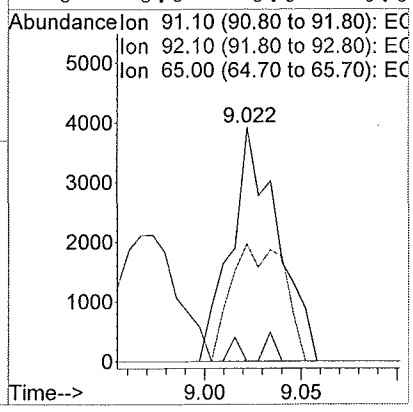




#48
Toluene
Concen: 0.17 ug/Kg
RT: 9.02 min Scan# 1236
Delta R.T. -0.00 min
Lab File: EO60C004.D
Acq: 05/26/2015 23:12

Tgt Ion:91.1 Resp: 6579

Ion	Ratio	Lower	Upper
91	100		
92	57.2	47.2	70.8
65	68.6	9.6	14.4#
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L62

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293005

Sample wt/vol: 6.71 (g/mL) g Lab File ID: E061C005

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 15. Date Analyzed: 05/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	4.4	U
74-87-3	Chloromethane	4.4	U
75-01-4	Vinyl chloride	4.4	U
74-83-9	Bromomethane	4.4	U
75-00-3	Chloroethane	4.4	U
75-69-4	Trichlorofluoromethane	4.4	U
75-35-4	1,1-Dichloroethene	4.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.4	U
67-64-1	Acetone	2.2	JB
75-15-0	Carbon disulfide	4.4	U
79-20-9	Methyl acetate	4.4	U
75-09-2	Methylene chloride	0.34	JB
156-60-5	trans-1,2-Dichloroethene	4.4	U
1634-04-4	Methyl tert-butyl ether	4.4	U
75-34-3	1,1-Dichloroethane	4.4	U
156-59-2	cis-1,2-Dichloroethene	4.4	U
78-93-3	2-Butanone	8.8	U
74-97-5	Bromochloromethane	4.4	U
67-66-3	Chloroform	4.4	U
71-55-6	1,1,1-Trichloroethane	4.4	U
110-82-7	Cyclohexane	4.4	U
56-23-5	Carbon tetrachloride	4.4	U
71-43-2	Benzene	4.4	U
107-06-2	1,2-Dichloroethane	4.4	U
123-91-1	1,4-Dioxane	88.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L62

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293005

Sample wt/vol: 6.71 (g/mL) g Lab File ID: E061C005

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 15. Date Analyzed: 05/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	4.4	U
108-87-2	Methylcyclohexane	4.4	U
78-87-5	1,2-Dichloropropane	4.4	U
75-27-4	Bromodichloromethane	4.4	U
10061-01-5	cis-1,3-Dichloropropene	4.4	U
108-10-1	4-Methyl-2-Pentanone	8.8	U
108-88-3	Toluene	4.4	U
10061-02-6	trans-1,3-Dichloropropene	4.4	U
79-00-5	1,1,2-Trichloroethane	4.4	U
127-18-4	Tetrachloroethene	4.4	U
591-78-6	2-Hexanone	8.8	U
124-48-1	Dibromochloromethane	4.4	U
106-93-4	1,2-Dibromoethane	4.4	U
108-90-7	Chlorobenzene	4.4	U
100-41-4	Ethylbenzene	4.4	U
95-47-6	o-Xylene	4.4	U
179601-23-1	m,p-Xylene	4.4	U
100-42-5	Styrene	4.4	U
75-25-2	Bromoform	4.4	U
98-82-8	Isopropylbenzene	4.4	U
79-34-5	1,1,2,2-Tetrachloroethane	4.4	U
541-73-1	1,3-Dichlorobenzene	4.4	U
106-46-7	1,4-Dichlorobenzene	4.4	U
95-50-1	1,2-Dichlorobenzene	4.4	U
96-12-8	1,2-Dibromo-3-chloropropane	4.4	U
120-82-1	1,2,4-Trichlorobenzene	4.4	U
87-61-6	1,2,3-Trichlorobenzene	4.4	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L62

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293005

Sample wt/vol: 6.71 (g/mL) g Lab File ID: E061C005

Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 15. Date Analyzed: 05/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

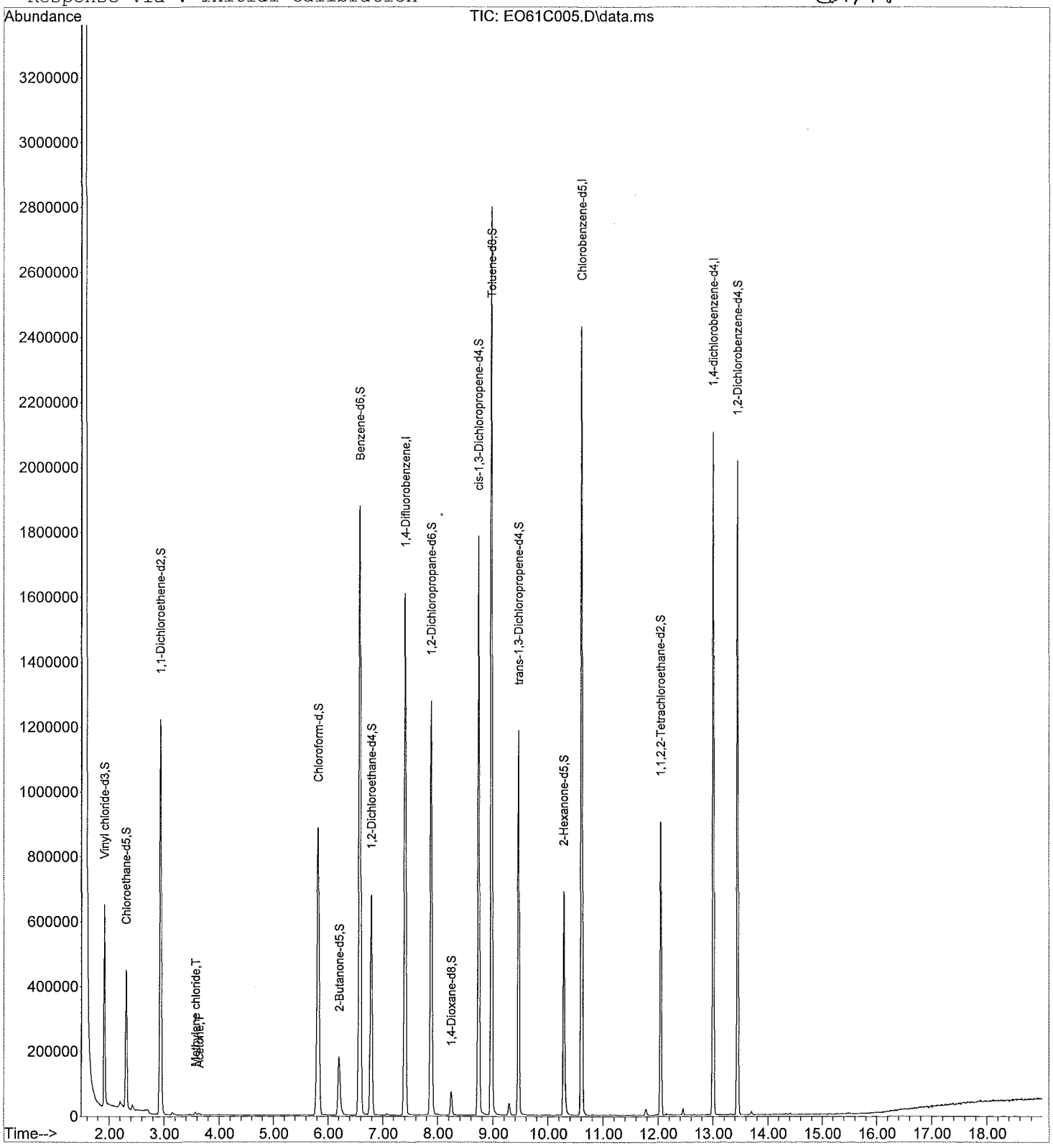
Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO61C005.D Vial: 12
Acq Time : 05/26/2015 23:36 Operator: CQC
Sample : 1514293005 F9L62 Inst : 5975-E
Misc : 1514293 6.71 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:25:58 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.15



Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO61C005.D Vial: 12
Acq Time : 05/26/2015 23:36 Operator: CQC
Sample : 1514293005 F9L62 Inst : 5975-E
Misc : 1514293 6.71 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:25:58 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1408815	50.0000 ug/Kg	78.12
30) Chlorobenzene-d5	10.61	117	1304989	50.0000 ug/Kg	79.05
62) 1,4-dichlorobenzene-d4	13.00	152	539727	50.0000 ug/Kg	62.03
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	535793	48.8649 ug/Kg	97.73%
8) Chloroethane-d5	2.31	69	423721	50.6962 ug/Kg	101.39%
11) 1,1-Dichloroethene-d2	2.93	63	946787	38.0546 ug/Kg	76.11%
22) 2-Butanone-d5	6.20	46	305625	91.8195 ug/Kg	91.82%
25) Chloroform-d	5.81	84	992186	50.6455 ug/Kg	101.29%
27) 1,2-Dichloroethane-d4	6.79	65	576167	55.5419 ug/Kg	111.08%
29) 1,4-Dioxane-d8	8.24	96	53964	1050.6436 ug/Kg	105.06%
35) Benzene-d6	6.58	84	2026917	51.6312 ug/Kg	103.26%
39) 1,2-Dichloropropane-d6	7.88	67	622513	54.2247 ug/Kg	108.45%
42) cis-1,3-Dichloropropene-d4	8.74	79	1006770	49.0514 ug/Kg	98.10%
44) trans-1,3-Dichloropropene-	9.46	79	612852	47.1261 ug/Kg	94.25%
49) Toluene-d8	8.97	98	1894079	52.4187 ug/Kg	104.84%
52) 2-Hexanone-d5	10.28	63	204229	96.2764 ug/Kg	96.28%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	452045	48.7212 ug/Kg	97.44%
67) 1,2-Dichlorobenzene-d4	13.44	152	518788	51.5493 ug/Kg	103.10%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	7993	2.4717 ug/Kg	91
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	3791	0.3900 ug/Kg	97
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	0.00	83		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

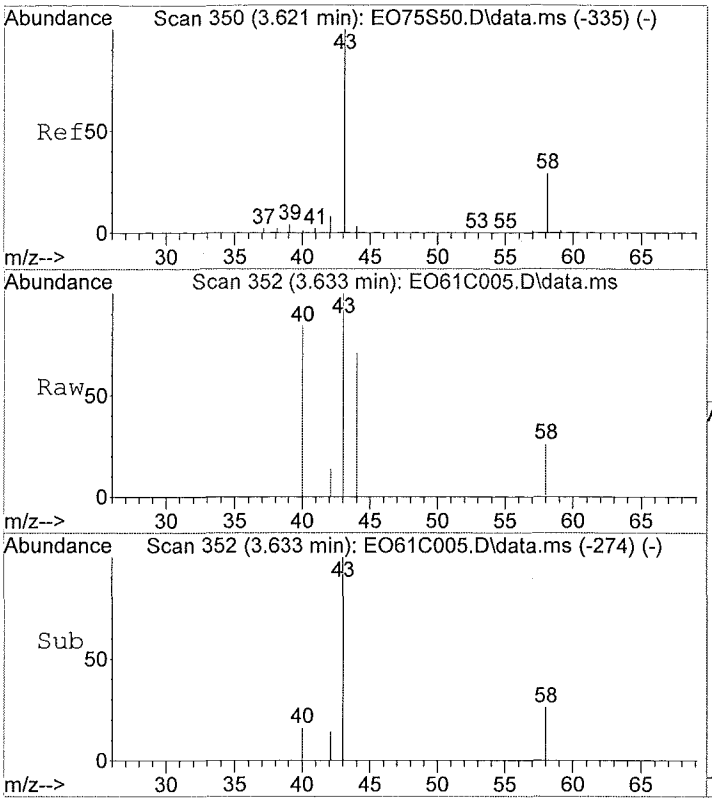
Data File : C:\msdchem\1\Data by...E\26MAY15E\EO61C005.D Vial: 12
Acq Time : 05/26/2015 23:36 Operator: CQC
Sample : 1514293005 F9L62 Inst : 5975-E
Misc : 1514293 6.71 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:25:58 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

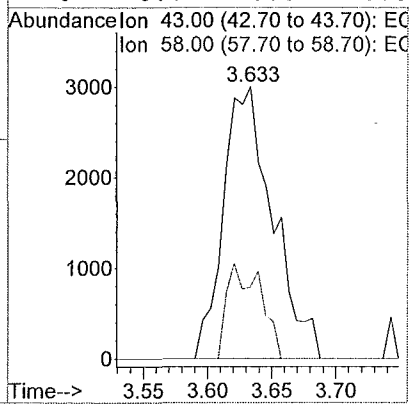
(#) = qualifier out of range (m) = manual integration

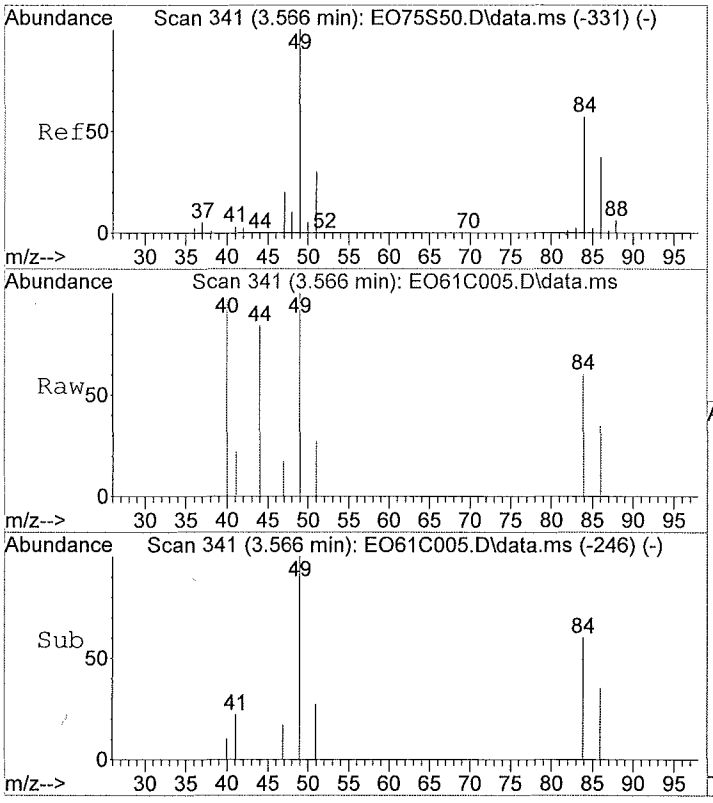


#13
Acetone
Concen: 2.47 ug/Kg
RT: 3.63 min Scan# 352
Delta R.T. 0.01 min
Lab File: EO61C005.D
Acq: 05/26/2015 23:36

Tgt Ion:43 Resp: 7993

Ion	Ratio	Lower	Upper
43	100		
58	23.7	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

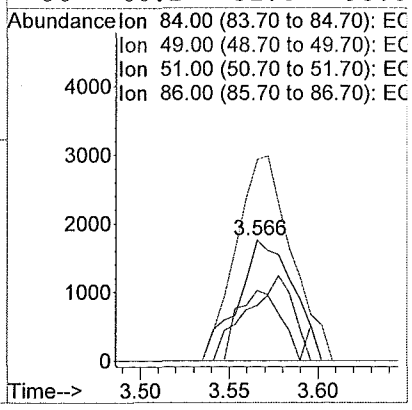




#16
Methylene chloride
Concen: 0.39 ug/Kg
RT: 3.57 min Scan# 341
Delta R.T. -0.01 min
Lab File: EO61C005.D
Acq: 05/26/2015 23:36

Tgt Ion:84 Resp: 3791

Ion	Ratio	Lower	Upper
84	100		
49	169.8	84.4	253.2
51	44.2	25.7	77.0
86	60.2	31.6	95.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L63

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293006

Sample wt/vol: 5.75 (g/mL) g Lab File ID: E062C006

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 22. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.6	U
74-87-3	Chloromethane	5.6	U
75-01-4	Vinyl chloride	5.6	U
74-83-9	Bromomethane	5.6	U
75-00-3	Chloroethane	5.6	U
75-69-4	Trichlorofluoromethane	5.6	U
75-35-4	1,1-Dichloroethene	5.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U
67-64-1	Acetone	32.	B
75-15-0	Carbon disulfide	5.6	U
79-20-9	Methyl acetate	5.6	U
75-09-2	Methylene chloride	0.54	JB
156-60-5	trans-1,2-Dichloroethene	5.6	U
1634-04-4	Methyl tert-butyl ether	5.6	U
75-34-3	1,1-Dichloroethane	5.6	U
156-59-2	cis-1,2-Dichloroethene	5.6	U
78-93-3	2-Butanone	14.	
74-97-5	Bromochloromethane	5.6	U
67-66-3	Chloroform	5.6	U
71-55-6	1,1,1-Trichloroethane	5.6	U
110-82-7	Cyclohexane	5.6	U
56-23-5	Carbon tetrachloride	5.6	U
71-43-2	Benzene	5.6	U
107-06-2	1,2-Dichloroethane	5.6	U
123-91-1	1,4-Dioxane	110	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L63

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293006

Sample wt/vol: 5.75 (g/mL) g Lab File ID: E062C006

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 22. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.6	U
108-87-2	Methylcyclohexane	5.6	U
78-87-5	1,2-Dichloropropane	5.6	U
75-27-4	Bromodichloromethane	5.6	U
10061-01-5	cis-1,3-Dichloropropene	5.6	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	0.42	J
10061-02-6	trans-1,3-Dichloropropene	5.6	U
79-00-5	1,1,2-Trichloroethane	5.6	U
127-18-4	Tetrachloroethene	5.6	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.6	U
106-93-4	1,2-Dibromoethane	5.6	U
108-90-7	Chlorobenzene	5.6	U
100-41-4	Ethylbenzene	5.6	U
95-47-6	o-Xylene	5.6	U
179601-23-1	m,p-Xylene	5.6	U
100-42-5	Styrene	5.6	U
75-25-2	Bromoform	5.6	U
98-82-8	Isopropylbenzene	5.6	U
79-34-5	1,1,2,2-Tetrachloroethane	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
95-50-1	1,2-Dichlorobenzene	5.6	U
96-12-8	1,2-Dibromo-3-chloropropane	5.6	U
120-82-1	1,2,4-Trichlorobenzene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L63

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293006
Sample wt/vol: 5.75 (g/mL) g Lab File ID: E062C006
Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015
% Moisture: not dec. 22. Date Analyzed: 05/27/2015
GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

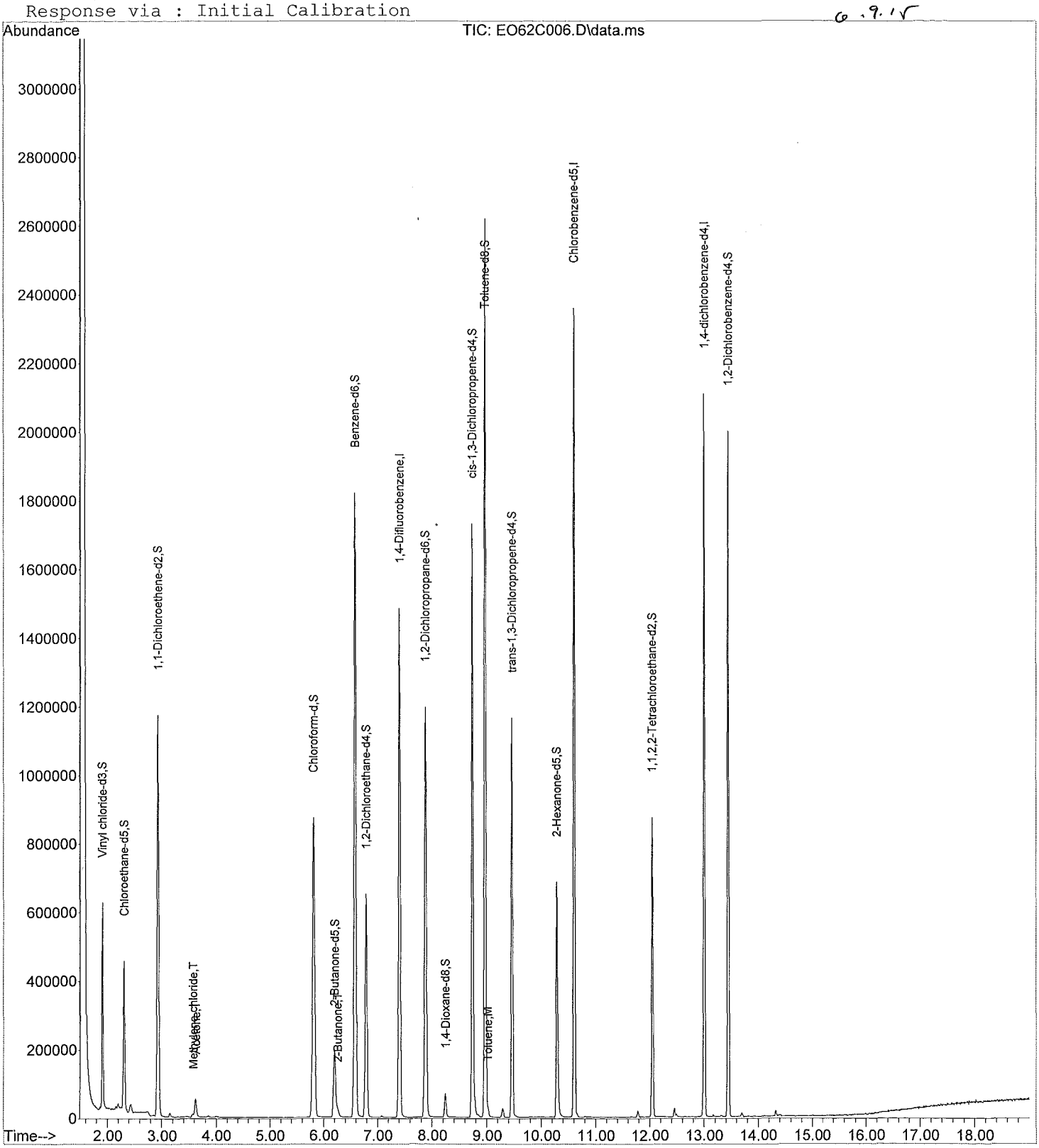
Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO62C006.D Vial: 13
Acq Time : 05/27/2015 00:01 Operator: CQC
Sample : 1514293006 F9L63 Inst : 5975-E
Misc : 1514293 5.75 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:26:42 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.15



00083

Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO62C006.D Vial: 13
Acq Time : 05/27/2015 00:01 Operator: CQC
Sample : 1514293006 F9L63 Inst : 5975-E
Misc : 1514293 5.75 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:26:42 2015 Results File: ECLPSB2.RES

Quant Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1305812	50.0000 ug/Kg	72.41
30) Chlorobenzene-d5	10.60	117	1231768	50.0000 ug/Kg	74.61
62) 1,4-dichlorobenzene-d4	13.00	152	529778	50.0000 ug/Kg	60.88
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	509861	50.1678 ug/Kg	100.34%
8) Chloroethane-d5	2.31	69	408175	52.6885 ug/Kg	105.38%
11) 1,1-Dichloroethene-d2	2.93	63	896319	38.8678 ug/Kg	77.74%
22) 2-Butanone-d5	6.20	46	319039	103.4102 ug/Kg	103.41%
25) Chloroform-d	5.81	84	971360	53.4935 ug/Kg	106.99%
27) 1,2-Dichloroethane-d4	6.78	65	553330	57.5480 ug/Kg	115.10%
29) 1,4-Dioxane-d8	8.24	96	51203	1075.5237 ug/Kg	107.55%
35) Benzene-d6	6.58	84	1926050	51.9783 ug/Kg	103.96%
39) 1,2-Dichloropropane-d6	7.88	67	579050	53.4370 ug/Kg	106.87%
42) cis-1,3-Dichloropropene-d4	8.74	79	972417	50.1940 ug/Kg	100.39%
44) trans-1,3-Dichloropropene-	9.46	79	594004	48.3920 ug/Kg	96.78%
49) Toluene-d8	8.97	98	1767140	51.8128 ug/Kg	103.63%
52) 2-Hexanone-d5	10.28	63	198325	99.0507 ug/Kg	99.05%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	430095	49.1110 ug/Kg	98.22%
67) 1,2-Dichlorobenzene-d4	13.44	152	512868	51.9181 ug/Kg	103.84%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.61	43	85208	28.4280 ug/Kg	100
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.58	84	4309	0.4783 ug/Kg	94
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.26	43	42989	12.4941 ug/Kg#	86
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	0.00	83		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

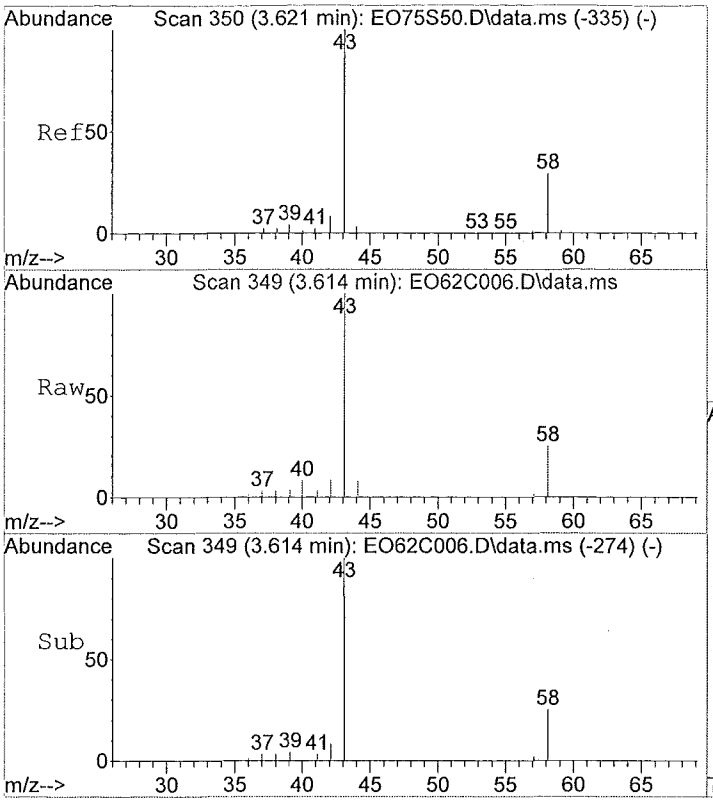
Data File : C:\msdchem\1\Data by...E\26MAY15E\EO62C006.D Vial: 13
Acq Time : 05/27/2015 00:01 Operator: CQC
Sample : 1514293006 F9L63 Inst : 5975-E
Misc : 1514293 5.75 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:26:42 2015 Results File: ECLPSB2.RES

Quant Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.02	91	15053	0.3773 ug/Kg	94
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

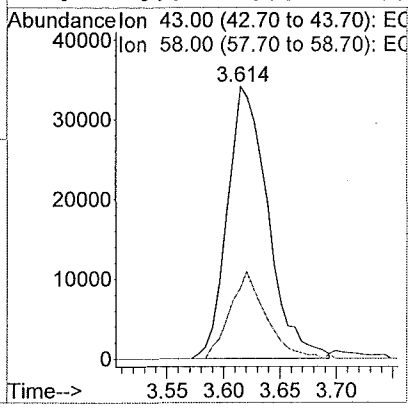
(#) = qualifier out of range (m) = manual integration

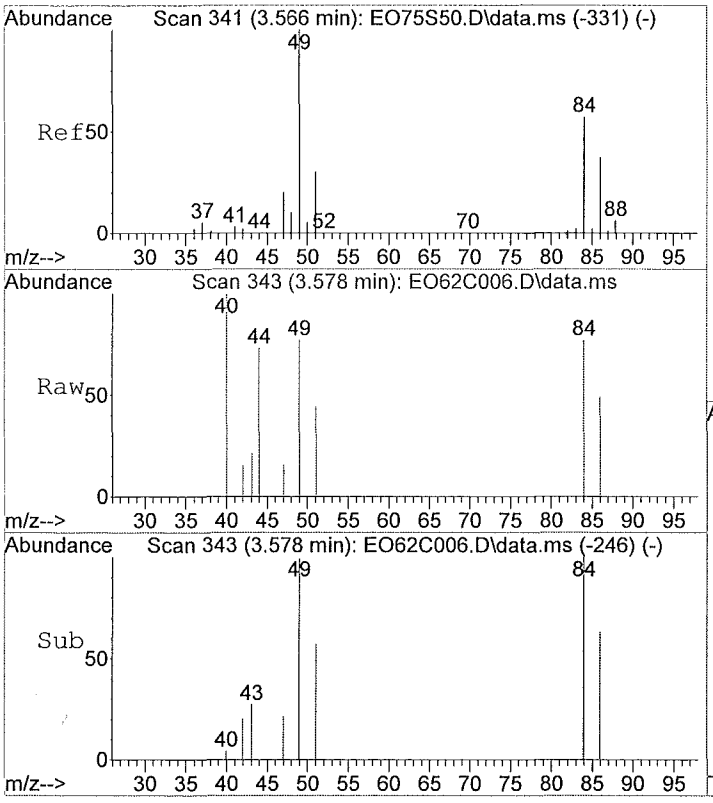


#13
Acetone
Concen: 28.43 ug/Kg
RT: 3.61 min Scan# 349
Delta R.T. -0.01 min
Lab File: EO62C006.D
Acq: 05/27/2015 00:01

Tgt Ion:43 Resp: 85208

Ion	Ratio	Lower	Upper
43	100		
58	28.2	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

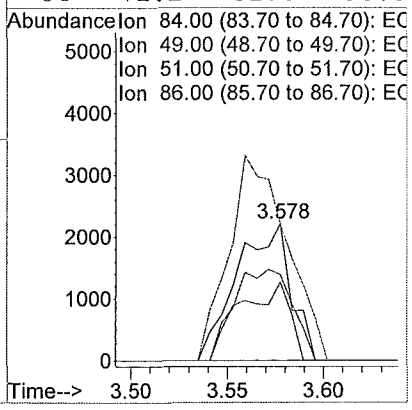


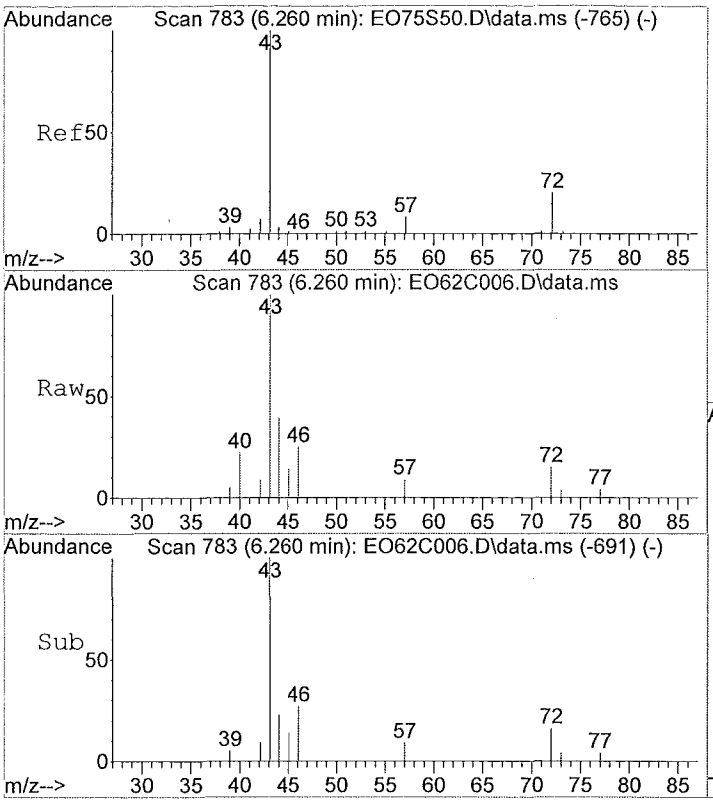


#16
Methylene chloride
Concen: 0.48 ug/Kg
RT: 3.58 min Scan# 343
Delta R.T. 0.01 min
Lab File: EO62C006.D
Acq: 05/27/2015 00:01

Tgt Ion:84 Resp: 4309

Ion	Ratio	Lower	Upper
84	100		
49	161.3	84.4	253.2
51	52.4	25.7	77.0
86	72.2	31.6	95.0

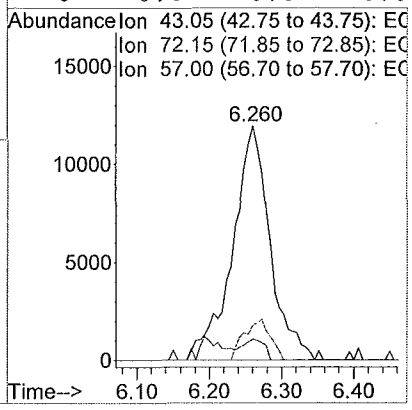


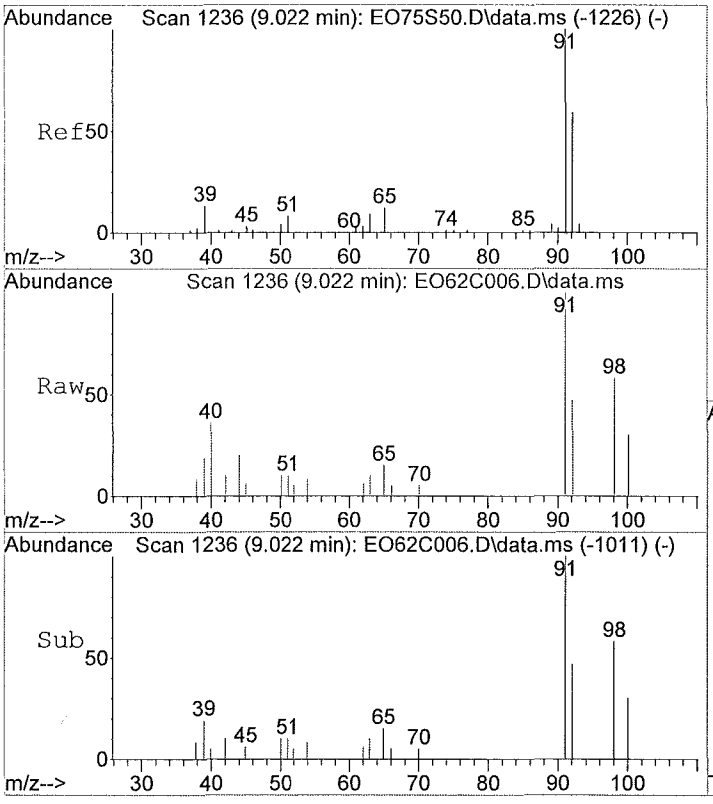


#21
2-Butanone
Concen: 12.49 ug/Kg
RT: 6.26 min Scan# 783
Delta R.T. -0.00 min
Lab File: EO62C006.D
Acq: 05/27/2015 00:01

Tgt Ion:43.05 Resp: 42989

Ion	Ratio	Lower	Upper
43	100		
72	12.1	15.5	23.3#
57	5.1	6.2	9.4#
0	0.0	0.0	0.0

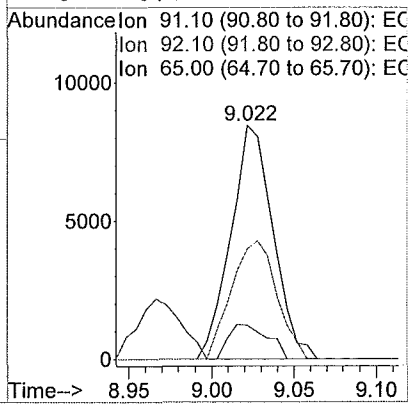




#48
Toluene
Concen: 0.38 ug/Kg
RT: 9.02 min Scan# 1236
Delta R.T. -0.00 min
Lab File: EO62C006.D
Acq: 05/27/2015 00:01

Tgt Ion:91.1 Resp: 15053

Ion	Ratio	Lower	Upper
91	100		
92	54.3	47.2	70.8
65	13.8	9.6	14.4
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L64

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293007

Sample wt/vol: 4.88 (g/mL) g Lab File ID: E063C007

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 12. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U
67-64-1	Acetone	11.	JB
75-15-0	Carbon disulfide	5.8	U
79-20-9	Methyl acetate	5.8	U
75-09-2	Methylene chloride	0.43	JB
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
78-93-3	2-Butanone	12.	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
110-82-7	Cyclohexane	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
71-43-2	Benzene	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
123-91-1	1,4-Dioxane	120	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L64

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293007

Sample wt/vol: 4.88 (g/mL) g Lab File ID: E063C007

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 12. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.8	U
108-87-2	Methylcyclohexane	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-Pentanone	12.	U
108-88-3	Toluene	0.47	J
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	12.	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
100-41-4	Ethylbenzene	5.8	U
95-47-6	o-Xylene	5.8	U
179601-23-1	m,p-Xylene	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L64

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293007

Sample wt/vol: 4.88 (g/mL) g Lab File ID: E063C007

Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 12. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

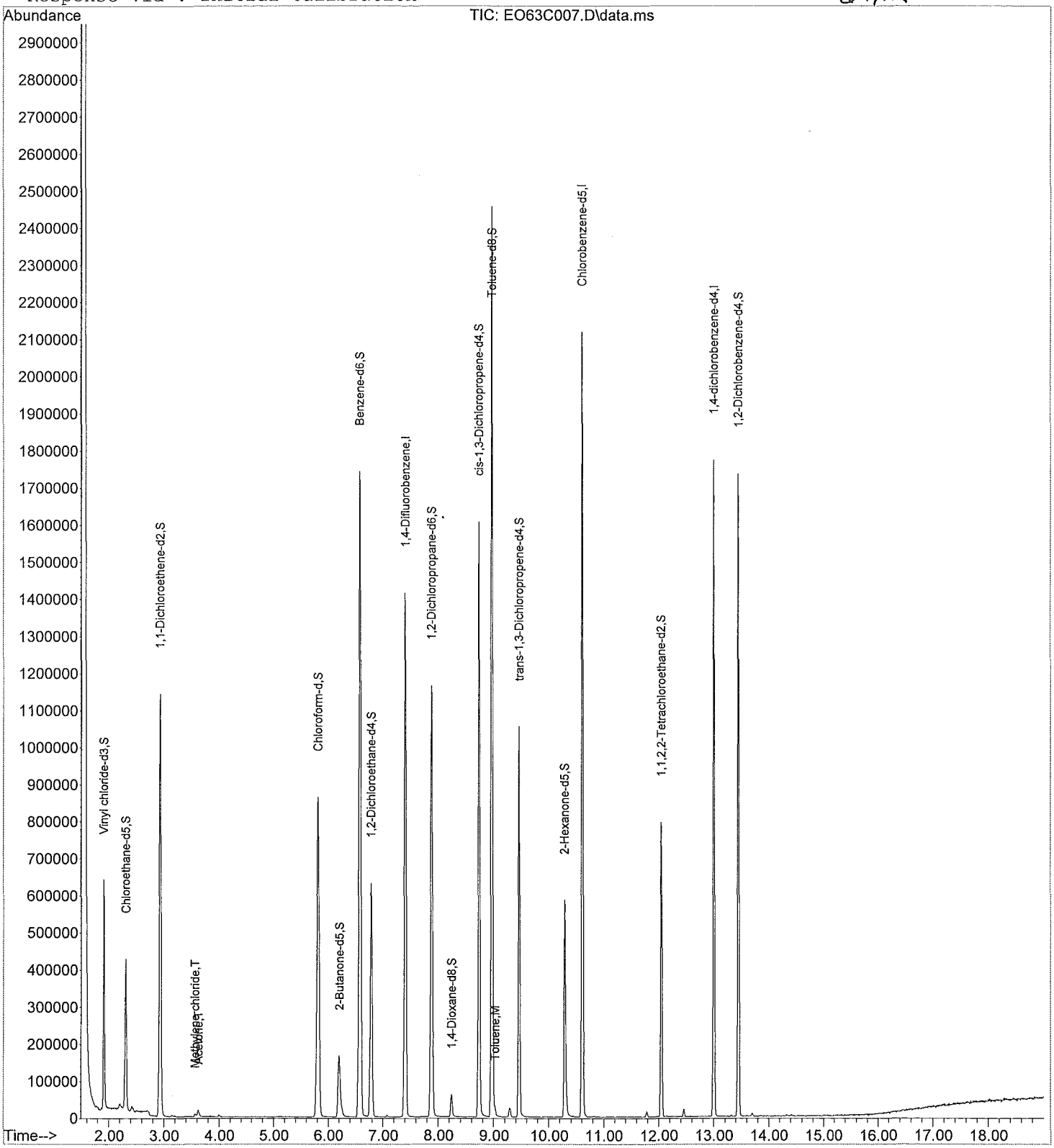
Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO63C007.D Vial: 14
Acq Time : 05/27/2015 00:25 Operator: CQC
Sample : 1514293007 F9L64 Inst : 5975-E
Misc : 1514293 4.88 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:27:08 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.15



Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO63C007.D Vial: 14
Acq Time : 05/27/2015 00:25 Operator: CQC
Sample : 1514293007 F9L64 Inst : 5975-E
Misc : 1514293 4.88 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:27:08 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1227454	50.0000	ug/Kg	68.07
30) Chlorobenzene-d5	10.60	117	1125771	50.0000	ug/Kg	68.19
62) 1,4-dichlorobenzene-d4	13.00	152	450415	50.0000	ug/Kg	51.76
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	513601	53.7619	ug/Kg	107.52%
8) Chloroethane-d5	2.31	69	401937	55.1954	ug/Kg	110.39%
11) 1,1-Dichloroethene-d2	2.93	63	881085	40.6463	ug/Kg	81.29%
22) 2-Butanone-d5	6.19	46	273768	94.4012	ug/Kg	94.40%
25) Chloroform-d	5.81	84	942764	55.2331	ug/Kg	110.47%
27) 1,2-Dichloroethane-d4	6.78	65	528684	58.4948	ug/Kg	116.99%
29) 1,4-Dioxane-d8	8.24	96	44570	995.9617	ug/Kg	99.60%
35) Benzene-d6	6.58	84	1869510	55.2028	ug/Kg	110.41%
39) 1,2-Dichloropropane-d6	7.88	67	555145	56.0546	ug/Kg	112.11%
42) cis-1,3-Dichloropropene-d4	8.74	79	892264	50.3932	ug/Kg	100.79%
44) trans-1,3-Dichloropropene-	9.46	79	539380	48.0792	ug/Kg	96.16%
49) Toluene-d8	8.97	98	1646941	52.8351	ug/Kg	105.67%
52) 2-Hexanone-d5	10.28	63	165754	90.5781	ug/Kg	90.58%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	393646	49.1812	ug/Kg	98.36%
67) 1,2-Dichlorobenzene-d4	13.44	152	445538	53.0492	ug/Kg	106.10%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected		
3) Chloromethane	0.00	50		Not Detected		
4) Vinyl chloride	0.00	62		Not Detected		
6) Bromomethane	0.00	94		Not Detected		
7) Chloroethane	0.00	64		Not Detected		
9) Trichlorofluoromethane	0.00	101		Not Detected		
10) 1,1-Dichloroethene	0.00	96		Not Detected		
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected		
13) Acetone	3.62	43	27217	9.6601	ug/Kg	100
14) Carbon disulfide	0.00	76		Not Detected		
15) Methyl acetate	0.00	43		Not Detected		
16) Methylene chloride	3.56	84	3122	0.3687	ug/Kg	87
17) trans-1,2-Dichloroethene	0.00	96		Not Detected		
18) Methyl tert-butyl ether	0.00	73		Not Detected		
19) 1,1-Dichloroethane	0.00	63		Not Detected		
20) cis-1,2-Dichloroethene	0.00	96		Not Detected		
21) 2-Butanone	0.00	43		Not Detected		
23) Bromochloromethane	0.00	128		Not Detected		
24) Chloroform	0.00	83		Not Detected		
26) 1,2-Dichloroethane	0.00	62		Not Detected		
28) 1,4-Dioxane	0.00	88		Not Detected		
31) 1,1,1-Trichloroethane	0.00	97		Not Detected		
32) Cyclohexane	0.00	56		Not Detected		
33) Carbon tetrachloride	0.00	117		Not Detected		
34) Benzene	0.00	78		Not Detected		
36) Trichloroethene	0.00	130		Not Detected		
37) Methylcyclohexane	0.00	83		Not Detected		
38) 1,2-Dichloropropane	0.00	63		Not Detected		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

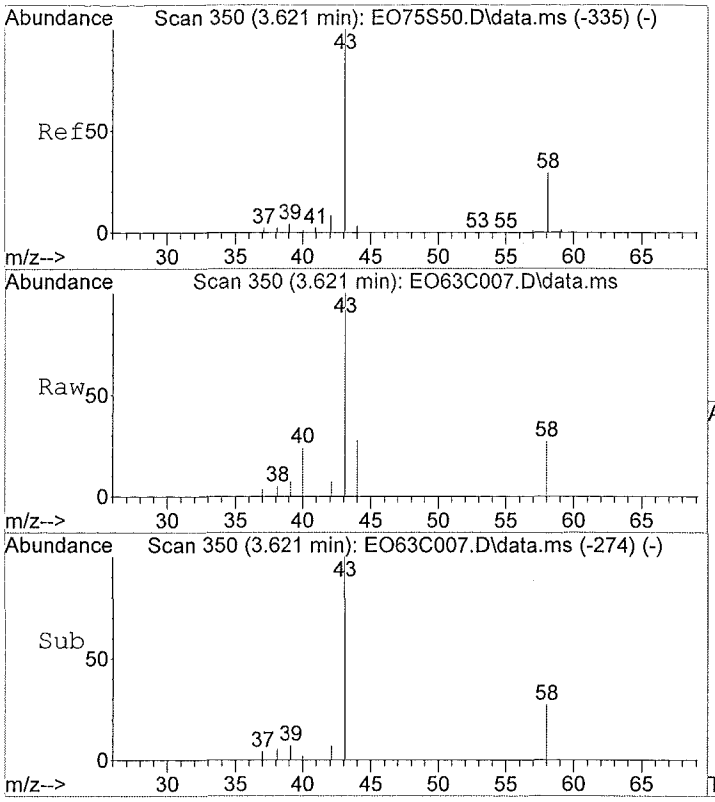
Data File : C:\msdchem\1\Data by...E\26MAY15E\EO63C007.D Vial: 14
Acq Time : 05/27/2015 00:25 Operator: CQC
Sample : 1514293007 F9L64 Inst : 5975-E
Misc : 1514293 4.88 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:27:08 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.02	91	14645	0.4016 ug/Kg	99
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

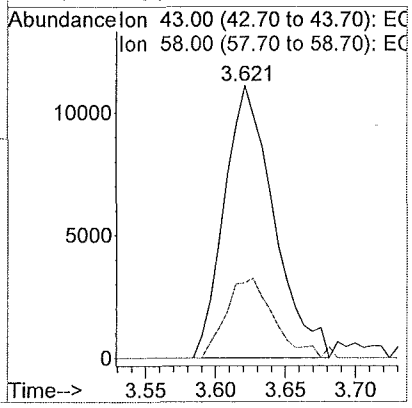
(#) = qualifier out of range (m) = manual integration

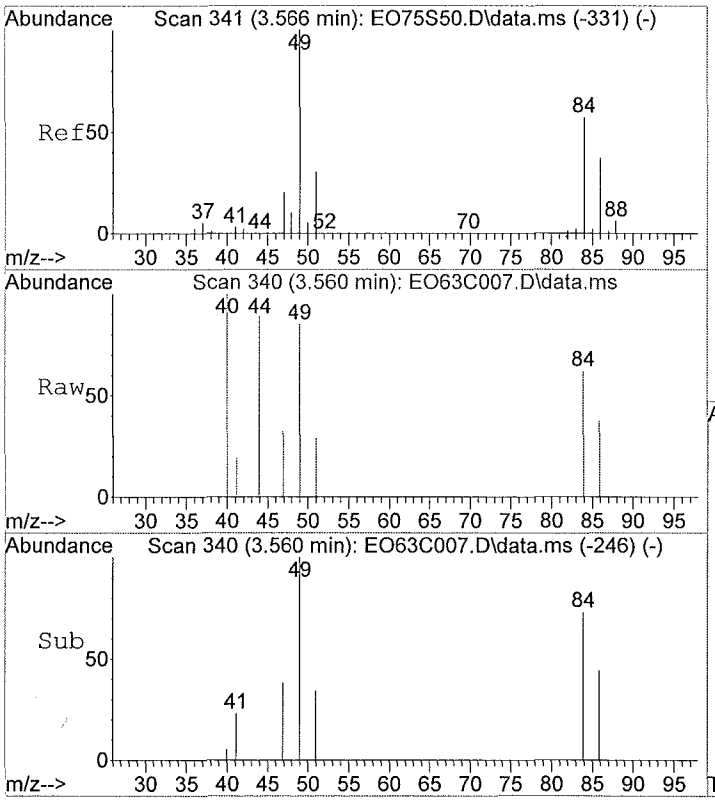


#13
Acetone
Concen: 9.66 ug/Kg
RT: 3.62 min Scan# 350
Delta R.T. 0.00 min
Lab File: EO63C007.D
Acq: 05/27/2015 00:25

Tgt Ion:43 Resp: 27217

Ion	Ratio	Lower	Upper
43	100		
58	28.5	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

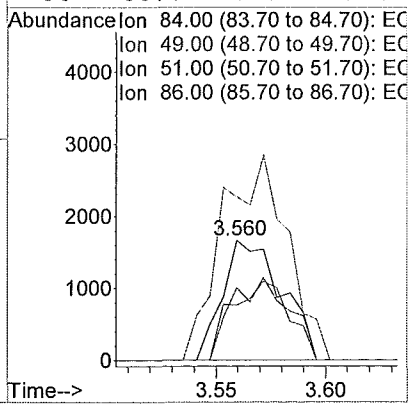


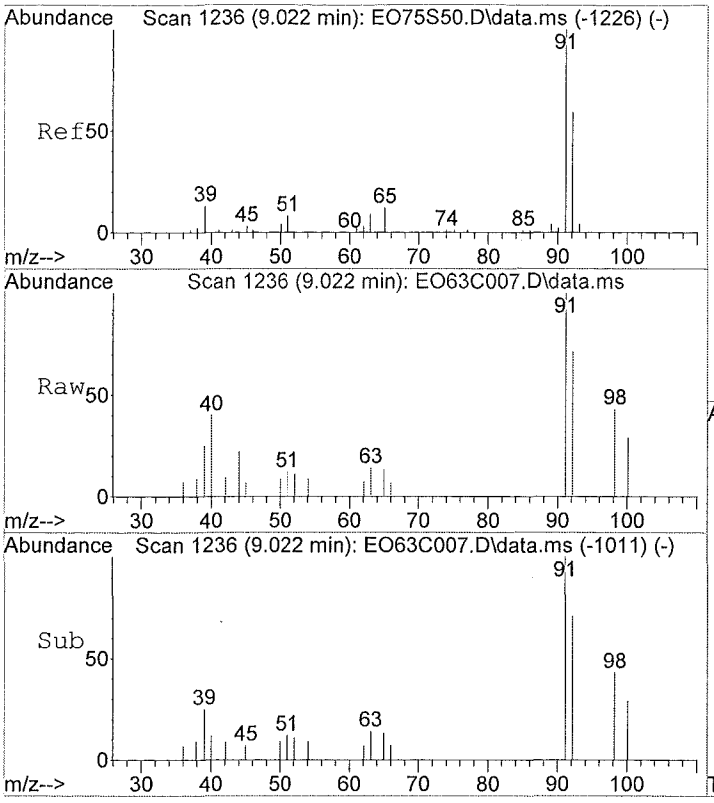


#16
Methylene chloride
Concen: 0.37 ug/Kg
RT: 3.56 min Scan# 340
Delta R.T. -0.01 min
Lab File: EO63C007.D
Acq: 05/27/2015 00:25

Tgt Ion:84 Resp: 3122

Ion	Ratio	Lower	Upper
84	100		
49	188.8	84.4	253.2
51	64.4	25.7	77.0
86	66.3	31.6	95.0

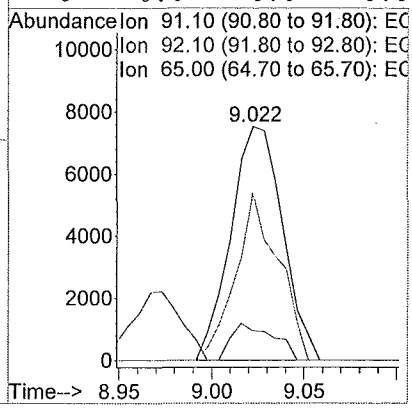




#48
Toluene
Concen: 0.40 ug/Kg
RT: 9.02 min Scan# 1236
Delta R.T. 0.00 min
Lab File: EO63C007.D
Acq: 05/27/2015 00:25

Tgt Ion:91.1 Resp: 14645

Ion	Ratio	Lower	Upper
91	100		
92	59.2	47.2	70.8
65	12.8	9.6	14.4
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293008

Sample wt/vol: 4.99 (g/mL) g Lab File ID: E064C008

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 11. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.6	U
74-87-3	Chloromethane	5.6	U
75-01-4	Vinyl chloride	5.6	U
74-83-9	Bromomethane	5.6	U
75-00-3	Chloroethane	5.6	U
75-69-4	Trichlorofluoromethane	5.6	U
75-35-4	1,1-Dichloroethene	5.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U
67-64-1	Acetone	7.9	JB
75-15-0	Carbon disulfide	5.6	U
79-20-9	Methyl acetate	5.6	U
75-09-2	Methylene chloride	0.38	JB
156-60-5	trans-1,2-Dichloroethene	5.6	U
1634-04-4	Methyl tert-butyl ether	5.6	U
75-34-3	1,1-Dichloroethane	5.6	U
156-59-2	cis-1,2-Dichloroethene	5.6	U
78-93-3	2-Butanone	11.	U
74-97-5	Bromochloromethane	5.6	U
67-66-3	Chloroform	5.6	U
71-55-6	1,1,1-Trichloroethane	5.6	U
110-82-7	Cyclohexane	5.6	U
56-23-5	Carbon tetrachloride	5.6	U
71-43-2	Benzene	5.6	U
107-06-2	1,2-Dichloroethane	5.6	U
123-91-1	1,4-Dioxane	110	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293008

Sample wt/vol: 4.99 (g/mL) g Lab File ID: E064C008

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 11. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.6	U
108-87-2	Methylcyclohexane	5.6	U
78-87-5	1,2-Dichloropropane	5.6	U
75-27-4	Bromodichloromethane	5.6	U
10061-01-5	cis-1,3-Dichloropropene	5.6	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	0.41	J
10061-02-6	trans-1,3-Dichloropropene	5.6	U
79-00-5	1,1,2-Trichloroethane	5.6	U
127-18-4	Tetrachloroethene	5.6	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.6	U
106-93-4	1,2-Dibromoethane	5.6	U
108-90-7	Chlorobenzene	5.6	U
100-41-4	Ethylbenzene	5.6	U
95-47-6	o-Xylene	5.6	U
179601-23-1	m,p-Xylene	5.6	U
100-42-5	Styrene	5.6	U
75-25-2	Bromoform	5.6	U
98-82-8	Isopropylbenzene	5.6	U
79-34-5	1,1,2,2-Tetrachloroethane	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
95-50-1	1,2-Dichlorobenzene	5.6	U
96-12-8	1,2-Dibromo-3-chloropropane	5.6	U
120-82-1	1,2,4-Trichlorobenzene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293008

Sample wt/vol: 4.99 (g/mL) g Lab File ID: E064C008

Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 11. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

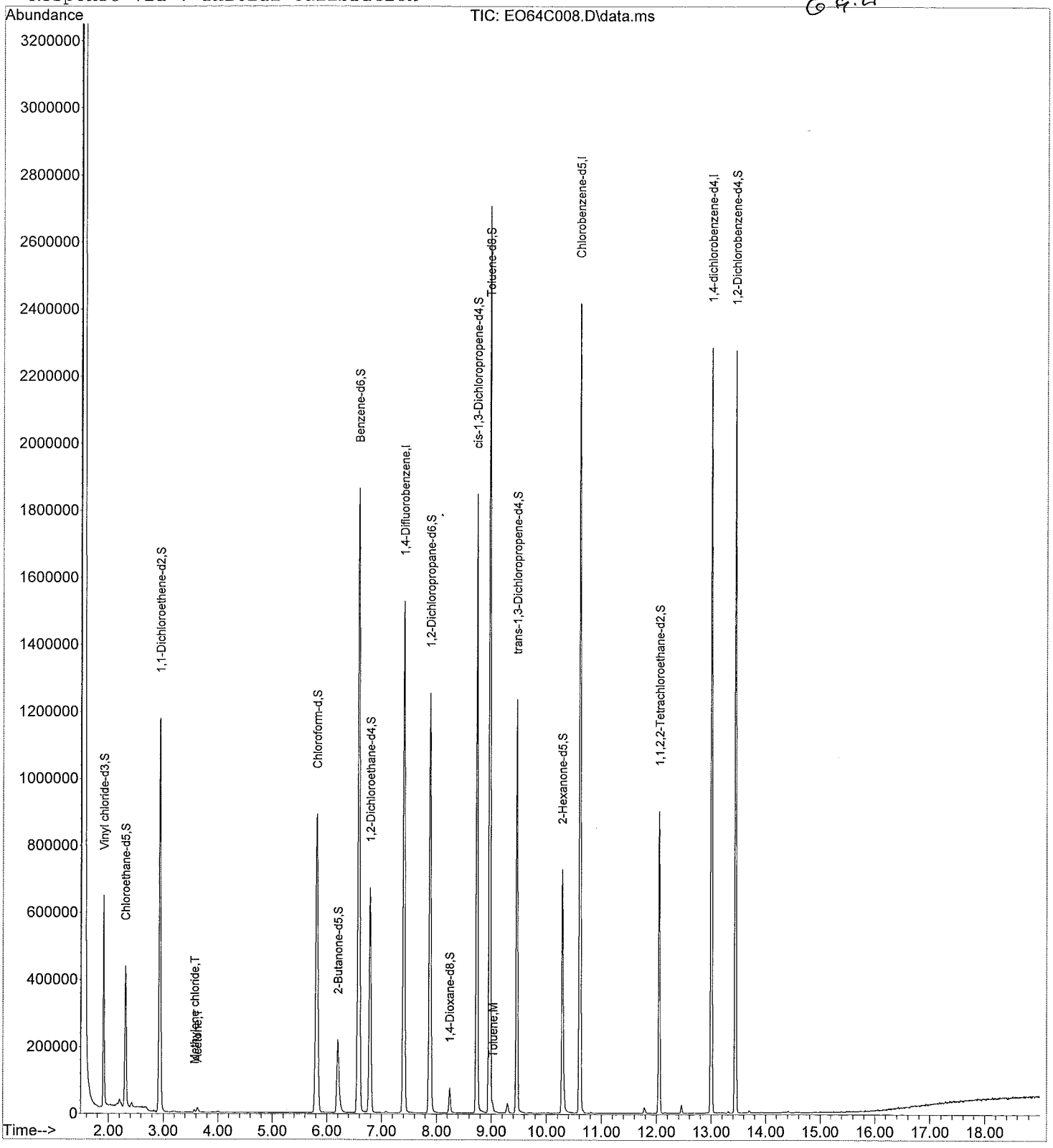
Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO64C008.D Vial: 15
Acq Time : 05/27/2015 00:49 Operator: CQC
Sample : 1514293008 F9L65 Inst : 5975-E
Misc : 1514293 4.99 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:27:38 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6-9-15



Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO64C008.D Vial: 15
Acq Time : 05/27/2015 00:49 Operator: CQC
Sample : 1514293008 F9L65 Inst : 5975-E
Misc : 1514293 4.99 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:27:38 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1336794	50.0000	ug/Kg	74.13
30) Chlorobenzene-d5	10.61	117	1294091	50.0000	ug/Kg	78.39
62) 1,4-dichlorobenzene-d4	13.00	152	592992	50.0000	ug/Kg	68.15
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	525822	50.5392	ug/Kg	101.08%
8) Chloroethane-d5	2.32	69	414332	52.2437	ug/Kg	104.49%
11) 1,1-Dichloroethene-d2	2.93	63	922603	39.0804	ug/Kg	78.16%
22) 2-Butanone-d5	6.20	46	347098	109.8975	ug/Kg	109.90%
25) Chloroform-d	5.82	84	991866	53.3568	ug/Kg	106.71%
27) 1,2-Dichloroethane-d4	6.79	65	563498	57.2472	ug/Kg	114.49%
29) 1,4-Dioxane-d8	8.24	96	50524	1036.6651	ug/Kg	103.67%
35) Benzene-d6	6.58	84	1980635	50.8772	ug/Kg	101.75%
39) 1,2-Dichloropropane-d6	7.88	67	603010	52.9682	ug/Kg	105.94%
42) cis-1,3-Dichloropropene-d4	8.74	79	1027506	50.4833	ug/Kg	100.97%
44) trans-1,3-Dichloropropene-	9.46	79	627824	48.6840	ug/Kg	97.37%
49) Toluene-d8	8.97	98	1820432	50.8048	ug/Kg	101.61%
52) 2-Hexanone-d5	10.28	63	213223	101.3628	ug/Kg	101.36%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	453421	49.2811	ug/Kg	98.56%
67) 1,2-Dichlorobenzene-d4	13.44	152	590404	53.3958	ug/Kg	106.79%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected		
3) Chloromethane	0.00	50		Not Detected		
4) Vinyl chloride	0.00	62		Not Detected		
6) Bromomethane	0.00	94		Not Detected		
7) Chloroethane	0.00	64		Not Detected		
9) Trichlorofluoromethane	0.00	101		Not Detected		
10) 1,1-Dichloroethene	0.00	96		Not Detected		
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected		
13) Acetone	3.62	43	21384	6.9690	ug/Kg	98
14) Carbon disulfide	0.00	76		Not Detected		
15) Methyl acetate	0.00	43		Not Detected		
16) Methylene chloride	3.57	84	3140	0.3405	ug/Kg	94
17) trans-1,2-Dichloroethene	0.00	96		Not Detected		
18) Methyl tert-butyl ether	0.00	73		Not Detected		
19) 1,1-Dichloroethane	0.00	63		Not Detected		
20) cis-1,2-Dichloroethene	0.00	96		Not Detected		
21) 2-Butanone	0.00	43		Not Detected		
23) Bromochloromethane	0.00	128		Not Detected		
24) Chloroform	0.00	83		Not Detected		
26) 1,2-Dichloroethane	0.00	62		Not Detected		
28) 1,4-Dioxane	0.00	88		Not Detected		
31) 1,1,1-Trichloroethane	0.00	97		Not Detected		
32) Cyclohexane	0.00	56		Not Detected		
33) Carbon tetrachloride	0.00	117		Not Detected		
34) Benzene	0.00	78		Not Detected		
36) Trichloroethene	0.00	130		Not Detected		
37) Methylcyclohexane	0.00	83		Not Detected		
38) 1,2-Dichloropropane	0.00	63		Not Detected		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

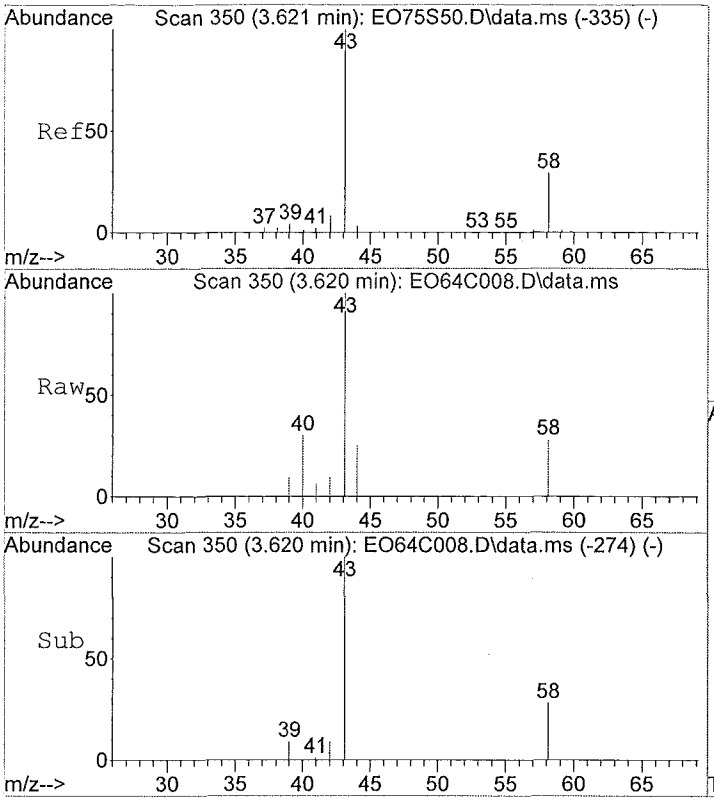
Data File : C:\msdchem\1\Data by...E\26MAY15E\EO64C008.D Vial: 15
Acq Time : 05/27/2015 00:49 Operator: CQC
Sample : 1514293008 F9L65 Inst : 5975-E
Misc : 1514293 4.99 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:27:38 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.03	91	15240	0.3636 ug/Kg	99
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

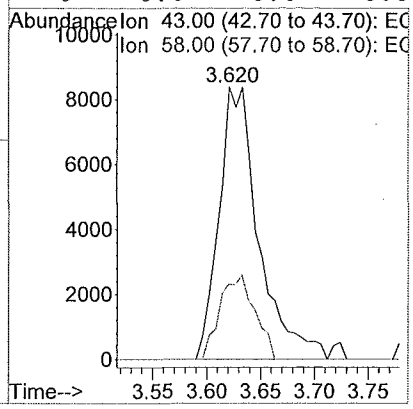
(#) = qualifier out of range (m) = manual integration

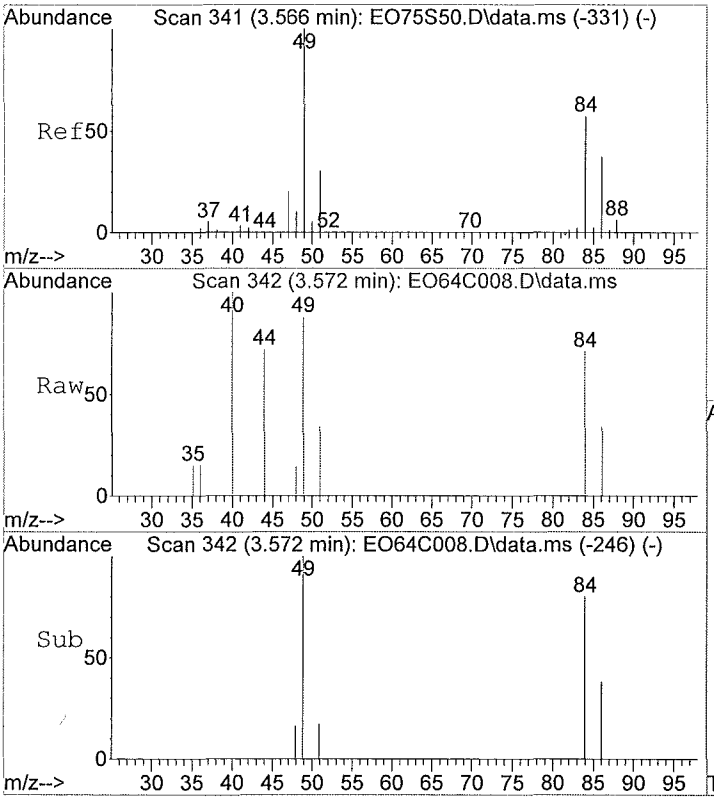


#13
Acetone
Concen: 6.97 ug/Kg
RT: 3.62 min Scan# 350
Delta R.T. -0.00 min
Lab File: EO64C008.D
Acq: 05/27/2015 00:49

Tgt Ion:43 Resp: 21384

Ion	Ratio	Lower	Upper
43	100		
58	27.3	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

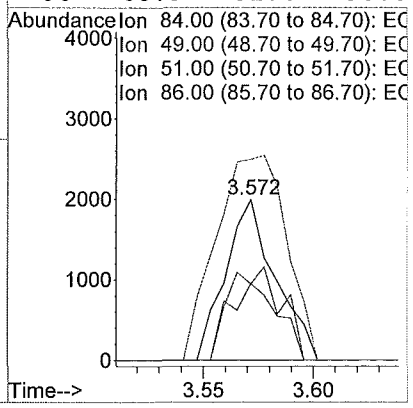


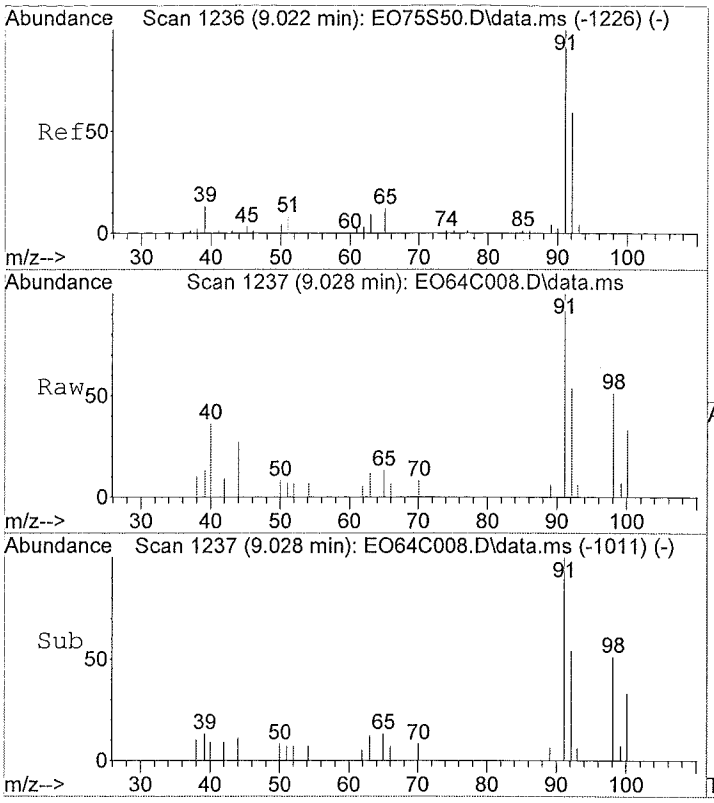


#16
Methylene chloride
Concen: 0.34 ug/Kg
RT: 3.57 min Scan# 342
Delta R.T. -0.00 min
Lab File: EO64C008.D
Acq: 05/27/2015 00:49

Tgt Ion:84 Resp: 3140

Ion	Ratio	Lower	Upper
84	100		
49	180.5	84.4	253.2
51	48.6	25.7	77.0
86	60.9	31.6	95.0

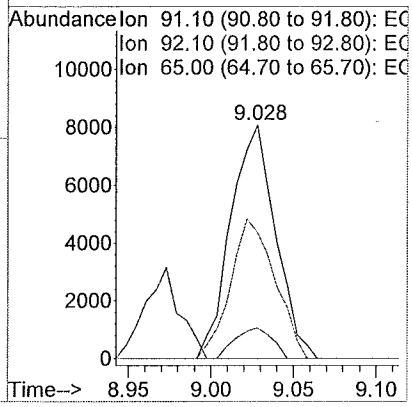




#48
Toluene
Concen: 0.36 ug/Kg
RT: 9.03 min Scan# 1237
Delta R.T. 0.01 min
Lab File: EO64C008.D
Acq: 05/27/2015 00:49

Tgt Ion:91.1 Resp: 15240

Ion	Ratio	Lower	Upper
91	100		
92	59.4	47.2	70.8
65	10.9	9.6	14.4
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L66

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293009

Sample wt/vol: 5.19 (g/mL) g Lab File ID: E065C009

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 15. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	U
67-64-1	Acetone	19.	B
75-15-0	Carbon disulfide	5.7	U
79-20-9	Methyl acetate	5.7	U
75-09-2	Methylene chloride	0.35	JB
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
78-93-3	2-Butanone	15.	
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
110-82-7	Cyclohexane	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
71-43-2	Benzene	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
123-91-1	1,4-Dioxane	110	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L66

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293009

Sample wt/vol: 5.19 (g/mL) g Lab File ID: E065C009

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 15. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.7	U
108-87-2	Methylcyclohexane	5.7	U
78-87-5	1,2-Dichloropropane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	0.84	J
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
100-41-4	Ethylbenzene	5.7	U
95-47-6	o-Xylene	5.7	U
179601-23-1	m,p-Xylene	5.7	U
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L66

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293009

Sample wt/vol: 5.19 (g/mL) g Lab File ID: E065C009

Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 15. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

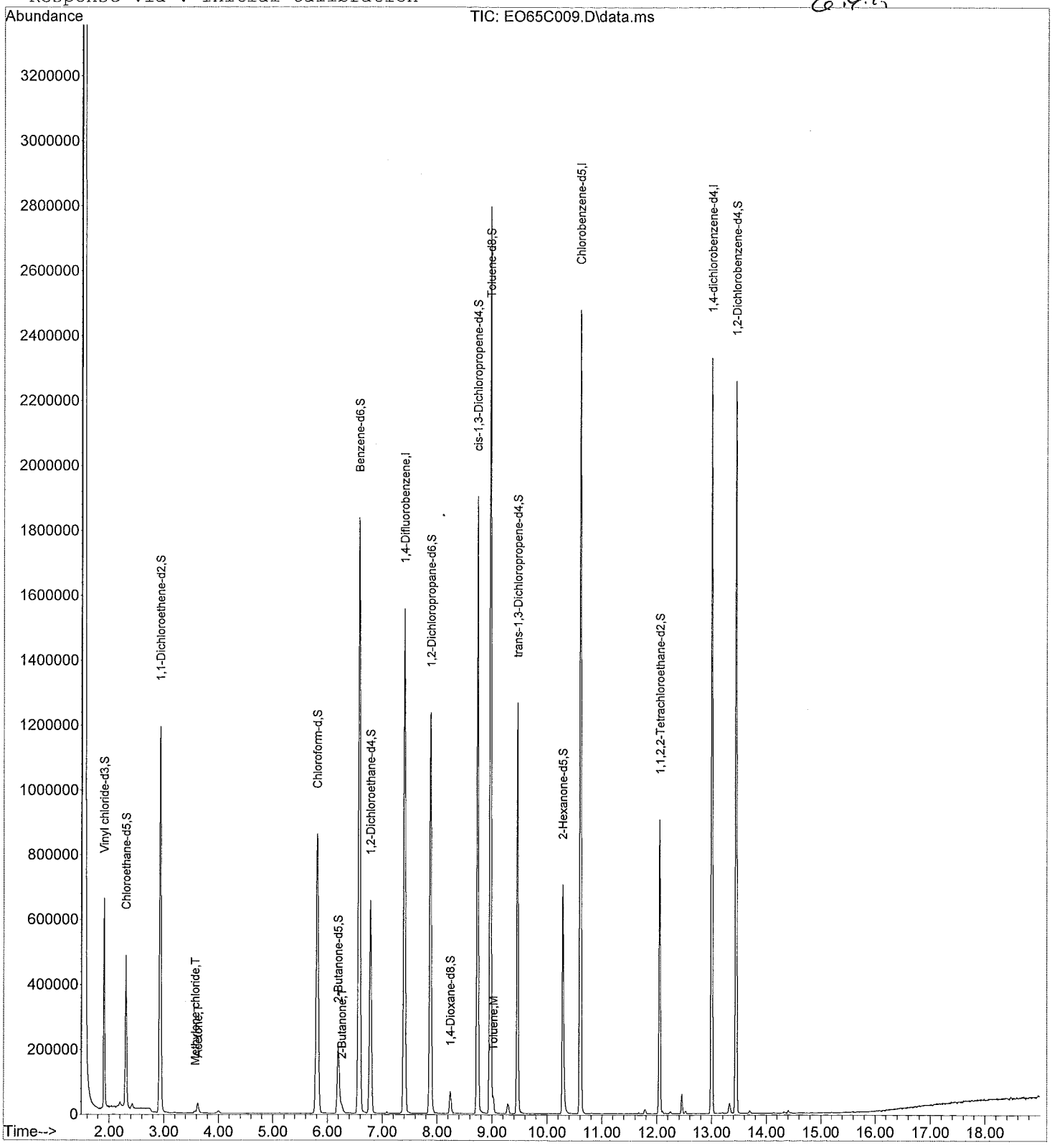
Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO65C009.D Vial: 16
Acq Time : 05/27/2015 01:13 Operator: CQC
Sample : 1514293009 F9L66 Inst : 5975-E
Misc : 1514293 5.19 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:28:00 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.15



Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO65C009.D Vial: 16
Acq Time : 05/27/2015 01:13 Operator: CQC
Sample : 1514293009 F9L66 Inst : 5975-E
Misc : 1514293 5.19 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:28:00 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1376839	50.0000 ug/Kg	76.35
30) Chlorobenzene-d5	10.61	117	1311466	50.0000 ug/Kg	79.44
62) 1,4-dichlorobenzene-d4	13.00	152	588954	50.0000 ug/Kg	67.68
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	522209	48.7321 ug/Kg	97.46%
8) Chloroethane-d5	2.31	69	416049	50.9344 ug/Kg	101.87%
11) 1,1-Dichloroethene-d2	2.93	63	914064	37.5926 ug/Kg	75.19%
22) 2-Butanone-d5	6.19	46	331165	101.8032 ug/Kg	101.80%
25) Chloroform-d	5.81	84	957888	50.0303 ug/Kg	100.06%
27) 1,2-Dichloroethane-d4	6.78	65	564640	55.6948 ug/Kg	111.39%
29) 1,4-Dioxane-d8	8.24	96	52764	1051.1381 ug/Kg	105.11%
35) Benzene-d6	6.58	84	1971299	49.9665 ug/Kg	99.93%
39) 1,2-Dichloropropane-d6	7.88	67	606609	52.5784 ug/Kg	105.16%
42) cis-1,3-Dichloropropene-d4	8.74	79	1061067	51.4416 ug/Kg	102.88%
44) trans-1,3-Dichloropropene-	9.46	79	646148	49.4411 ug/Kg	98.88%
49) Toluene-d8	8.97	98	1859521	51.2081 ug/Kg	102.42%
52) 2-Hexanone-d5	10.28	63	214347	100.5471 ug/Kg	100.55%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	445622	47.7918 ug/Kg	95.58%
67) 1,2-Dichlorobenzene-d4	13.44	152	585095	53.2785 ug/Kg	106.56%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.62	43	51741	16.3719 ug/Kg	96
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	2943	0.3098 ug/Kg	94
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.27	43	47027	12.9627 ug/Kg#	90
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	0.00	83		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO65C009.D Vial: 16
Acq Time : 05/27/2015 01:13 Operator: CQC
Sample : 1514293009 F9L66 Inst : 5975-E
Misc : 1514293 5.19 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

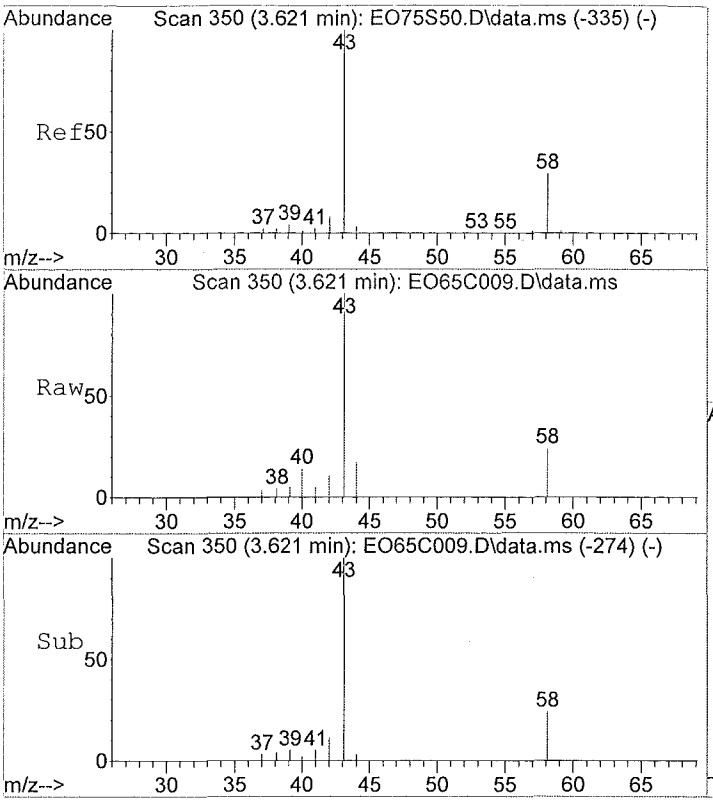
Quant Time: Jun 09 00:28:00 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.03	91	31620	0.7444 ug/Kg	98
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

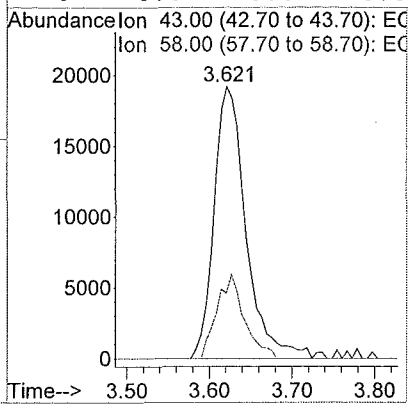
00169

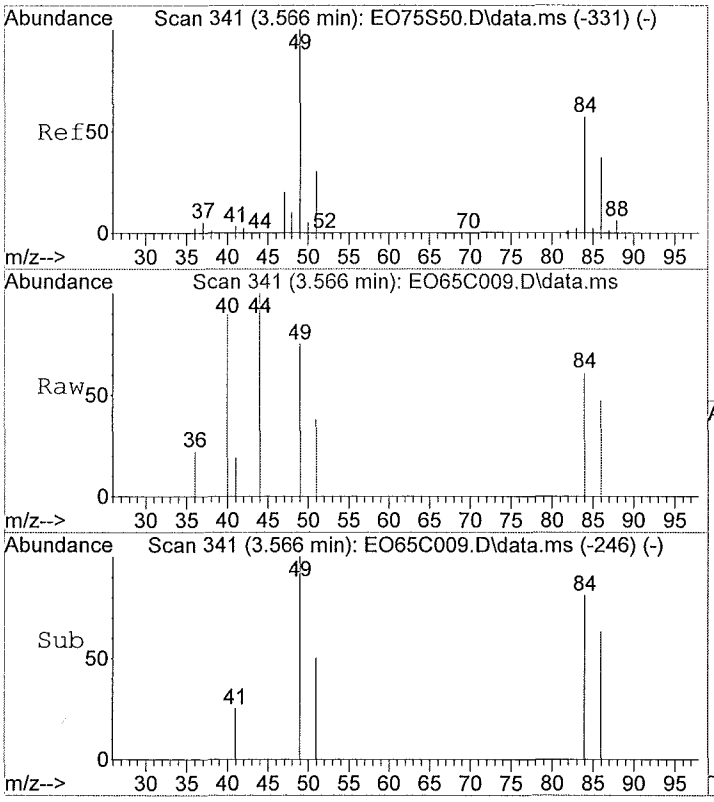


#13
Acetone
Concen: 16.37 ug/Kg
RT: 3.62 min Scan# 350
Delta R.T. -0.00 min
Lab File: EO65C009.D
Acq: 05/27/2015 01:13

Tgt Ion:43 Resp: 51741

Ion	Ratio	Lower	Upper
43	100		
58	26.5	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

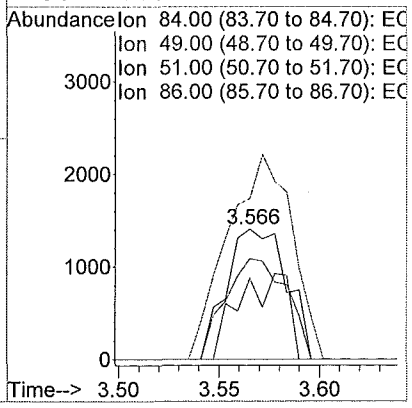


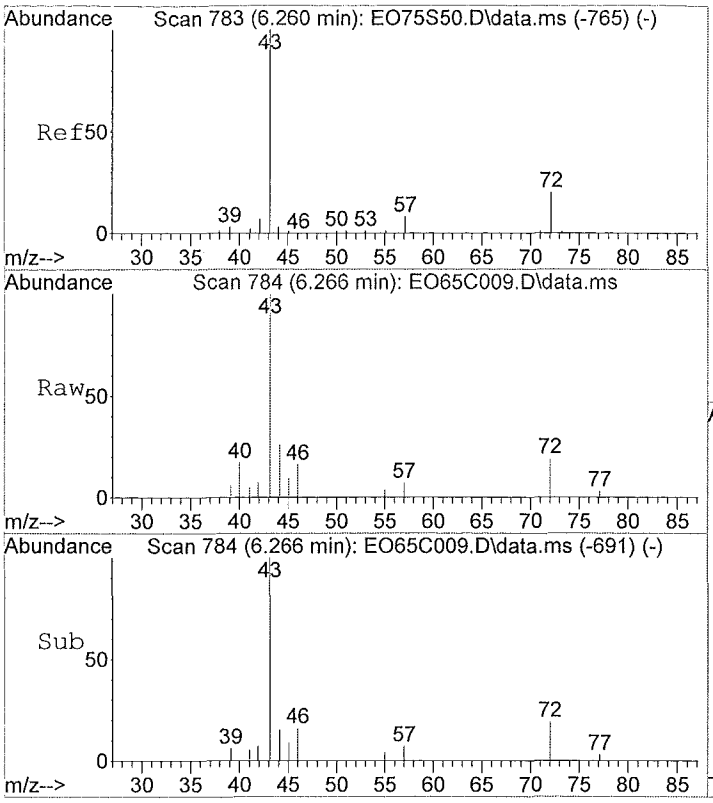


#16
Methylene chloride
Concen: 0.31 ug/Kg
RT: 3.57 min Scan# 341
Delta R.T. -0.01 min
Lab File: EO65C009.D
Acq: 05/27/2015 01:13

Tgt Ion:84 Resp: 2943

Ion	Ratio	Lower	Upper
84	100		
49	166.8	84.4	253.2
51	54.6	25.7	77.0
86	77.8	31.6	95.0

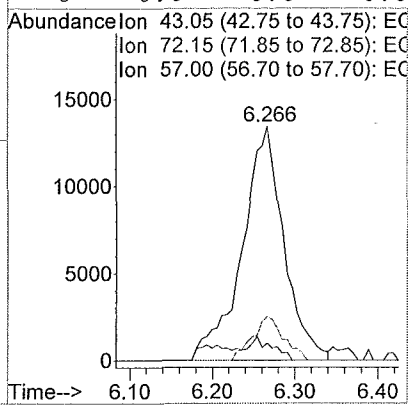


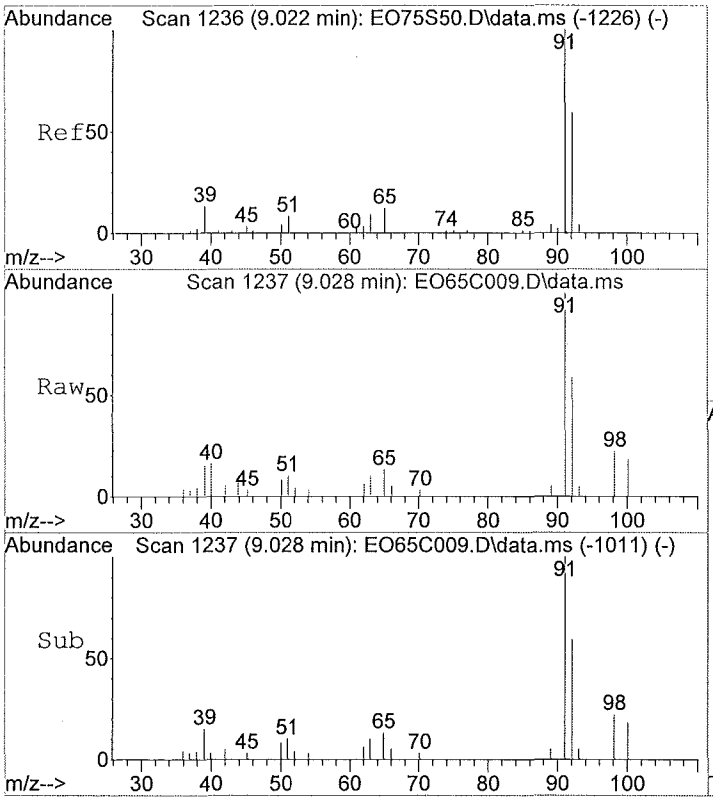


#21
2-Butanone
Concen: 12.96 ug/Kg
RT: 6.27 min Scan# 784
Delta R.T. 0.01 min
Lab File: EO65C009.D
Acq: 05/27/2015 01:13

Tgt Ion:43.05 Resp: 47027

Ion	Ratio	Lower	Upper
43	100		
72	14.1	15.5	23.3#
57	5.5	6.2	9.4#
0	0.0	0.0	0.0

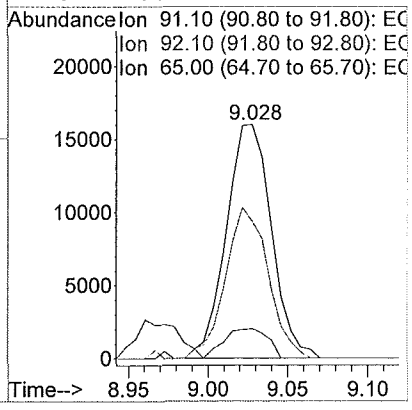




#48
Toluene
Concen: 0.74 ug/Kg
RT: 9.03 min Scan# 1237
Delta R.T. 0.01 min
Lab File: EO65C009.D
Acq: 05/27/2015 01:13

Tgt Ion:91.1 Resp: 31620

Ion	Ratio	Lower	Upper
91	100		
92	61.0	47.2	70.8
65	12.2	9.6	14.4
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L67

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293012

Sample wt/vol: 6.03 (g/mL) g Lab File ID: E066C012

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 15. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	4.9	U
74-87-3	Chloromethane	4.9	U
75-01-4	Vinyl chloride	4.9	U
74-83-9	Bromomethane	4.9	U
75-00-3	Chloroethane	4.9	U
75-69-4	Trichlorofluoromethane	4.9	U
75-35-4	1,1-Dichloroethene	4.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.9	U
67-64-1	Acetone	36.	B
75-15-0	Carbon disulfide	4.9	U
79-20-9	Methyl acetate	4.9	U
75-09-2	Methylene chloride	0.50	JB
156-60-5	trans-1,2-Dichloroethene	4.9	U
1634-04-4	Methyl tert-butyl ether	4.9	U
75-34-3	1,1-Dichloroethane	4.9	U
156-59-2	cis-1,2-Dichloroethene	4.9	U
78-93-3	2-Butanone	9.7	U
74-97-5	Bromochloromethane	4.9	U
67-66-3	Chloroform	4.9	U
71-55-6	1,1,1-Trichloroethane	4.9	U
110-82-7	Cyclohexane	4.9	U
56-23-5	Carbon tetrachloride	4.9	U
71-43-2	Benzene	4.9	U
107-06-2	1,2-Dichloroethane	4.9	U
123-91-1	1,4-Dioxane	97.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L67

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293012

Sample wt/vol: 6.03 (g/mL) g Lab File ID: E066C012

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 15. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	4.9	U
108-87-2	Methylcyclohexane	0.27	J
78-87-5	1,2-Dichloropropane	4.9	U
75-27-4	Bromodichloromethane	4.9	U
10061-01-5	cis-1,3-Dichloropropene	4.9	U
108-10-1	4-Methyl-2-Pentanone	9.7	U
108-88-3	Toluene	1.9	J
10061-02-6	trans-1,3-Dichloropropene	4.9	U
79-00-5	1,1,2-Trichloroethane	4.9	U
127-18-4	Tetrachloroethene	4.9	U
591-78-6	2-Hexanone	9.7	U
124-48-1	Dibromochloromethane	4.9	U
106-93-4	1,2-Dibromoethane	4.9	U
108-90-7	Chlorobenzene	4.9	U
100-41-4	Ethylbenzene	4.9	U
95-47-6	o-Xylene	4.9	U
179601-23-1	m,p-Xylene	4.9	U
100-42-5	Styrene	4.9	U
75-25-2	Bromoform	4.9	U
98-82-8	Isopropylbenzene	4.9	U
79-34-5	1,1,2,2-Tetrachloroethane	4.9	U
541-73-1	1,3-Dichlorobenzene	4.9	U
106-46-7	1,4-Dichlorobenzene	4.9	U
95-50-1	1,2-Dichlorobenzene	4.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.9	U
120-82-1	1,2,4-Trichlorobenzene	4.9	U
87-61-6	1,2,3-Trichlorobenzene	4.9	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L67

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293012
Sample wt/vol: 6.03 (g/mL) g Lab File ID: E066C012
Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015
% Moisture: not dec. 15. Date Analyzed: 05/27/2015
GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
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17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO66C012.D Vial: 17
Acq Time : 05/27/2015 01:37 Operator: CQC
Sample : 1514293012 F9L67 Inst : 5975-E
Misc : 1514293 6.03 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:28:58 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

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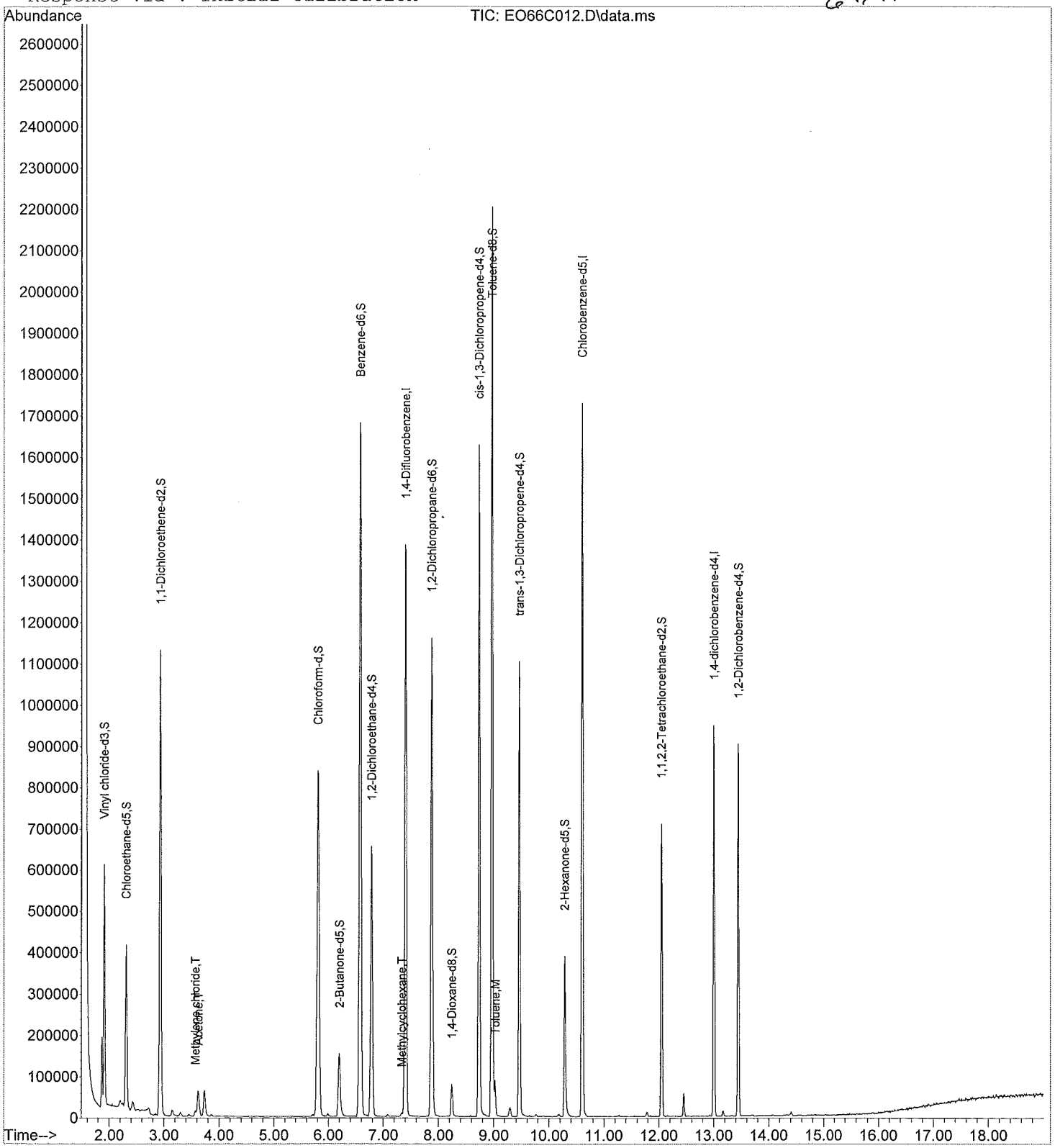


Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO66C012.D Vial: 17
Acq Time : 05/27/2015 01:37 Operator: CQC
Sample : 1514293012 F9L67 Inst : 5975-E
Misc : 1514293 6.03 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:28:58 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1209994	50.0000 ug/Kg	67.10
30) Chlorobenzene-d5	10.61	117	923606	50.0000 ug/Kg	55.94
62) 1,4-dichlorobenzene-d4	13.00	152	243006	50.0000 ug/Kg	27.93#
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	504469	53.5680 ug/Kg	107.14%
8) Chloroethane-d5	2.31	69	397470	55.3695 ug/Kg	110.74%
11) 1,1-Dichloroethene-d2	2.93	63	871220	40.7712 ug/Kg	81.54%
22) 2-Butanone-d5	6.20	46	261050	91.3147 ug/Kg	91.31%
25) Chloroform-d	5.81	84	913121	54.2684 ug/Kg	108.54%
27) 1,2-Dichloroethane-d4	6.78	65	544023	61.0605 ug/Kg	122.12%#
29) 1,4-Dioxane-d8	8.24	96	55913	1267.4616 ug/Kg	126.75%
35) Benzene-d6	6.58	84	1798479	64.7295 ug/Kg	129.46%#
39) 1,2-Dichloropropane-d6	7.88	67	544146	66.9706 ug/Kg	133.94%#
42) cis-1,3-Dichloropropene-d4	8.74	79	910684	62.6916 ug/Kg	125.38%
44) trans-1,3-Dichloropropene-	9.46	79	561865	61.0461 ug/Kg	122.09%#
49) Toluene-d8	8.97	98	1484308	58.0406 ug/Kg	116.08%
52) 2-Hexanone-d5	10.28	63	118192	78.7246 ug/Kg	78.72%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	351686	53.5564 ug/Kg	107.11%
67) 1,2-Dichlorobenzene-d4	13.44	152	234469	51.7458 ug/Kg	103.49%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.62	43	101509	36.5484 ug/Kg	99
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	4323	0.5179 ug/Kg	92
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	7.33	83	3556	0.2769 ug/Kg#	74
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

00116

Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO66C012.D Vial: 17
Acq Time : 05/27/2015 01:37 Operator: CQC
Sample : 1514293012 F9L67 Inst : 5975-E
Misc : 1514293 6.03 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

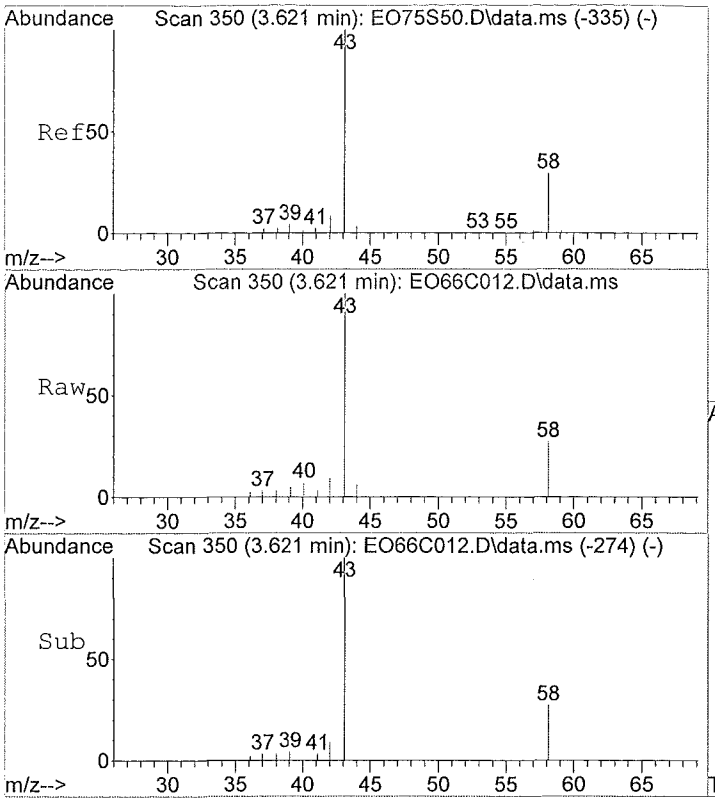
Quant Time: Jun 09 00:28:58 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.02	91	58401	1.9522 ug/Kg	99
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

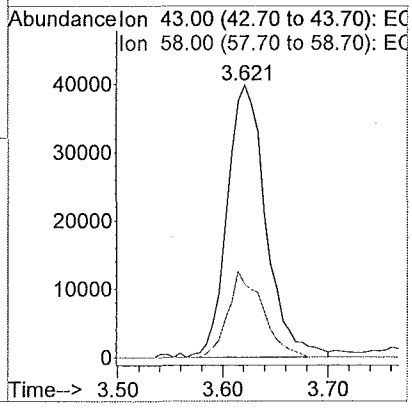
20117

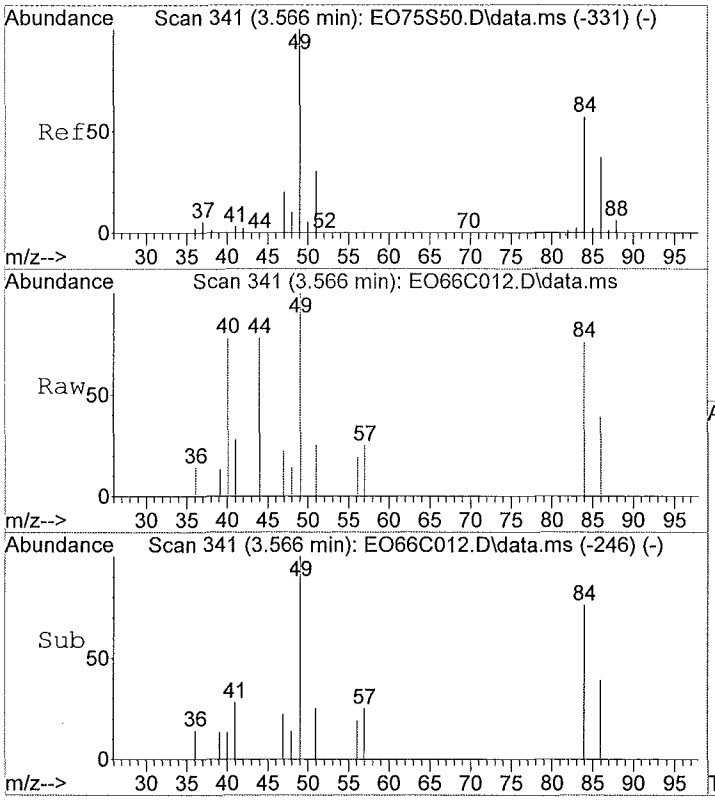


#13
Acetone
Concen: 36.55 ug/Kg
RT: 3.62 min Scan# 350
Delta R.T. 0.00 min
Lab File: EO66C012.D
Acq: 05/27/2015 01:37

Tgt Ion:43 Resp: 101509

Ion	Ratio	Lower	Upper
43	100		
58	28.2	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

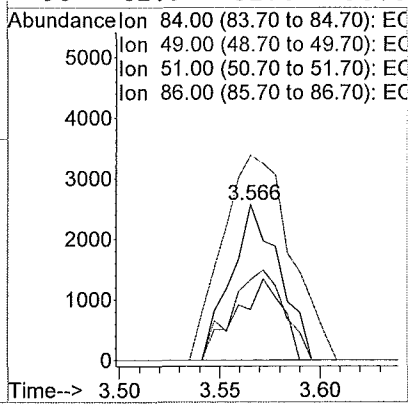


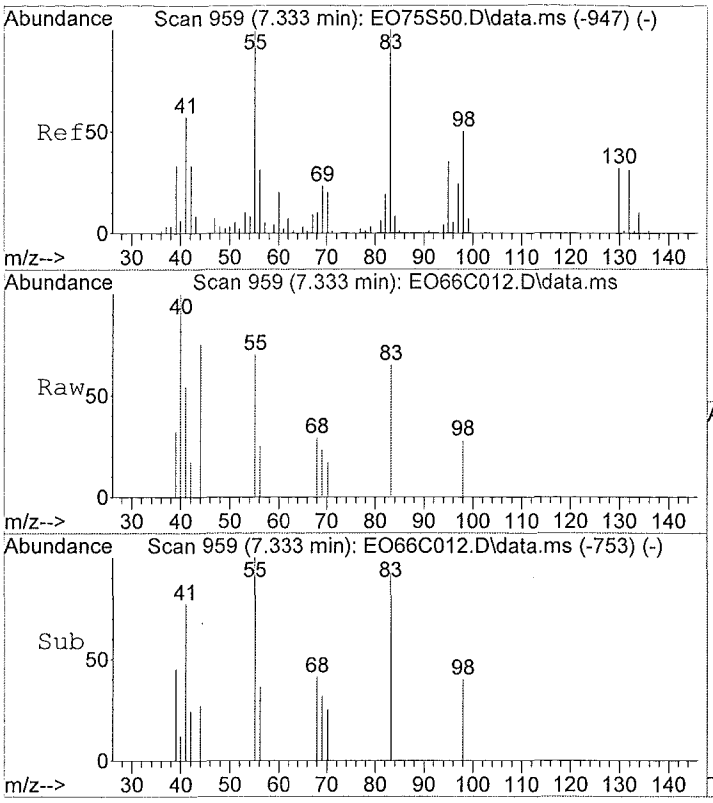


#16
Methylene chloride
Concen: 0.52 ug/Kg
RT: 3.57 min Scan# 341
Delta R.T. -0.01 min
Lab File: EO66C012.D
Acq: 05/27/2015 01:37

Tgt Ion:84 Resp: 4323

Ion	Ratio	Lower	Upper
84	100		
49	185.5	84.4	253.2
51	49.9	25.7	77.0
86	62.9	31.6	95.0

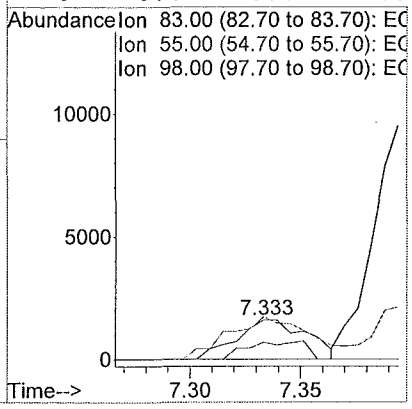


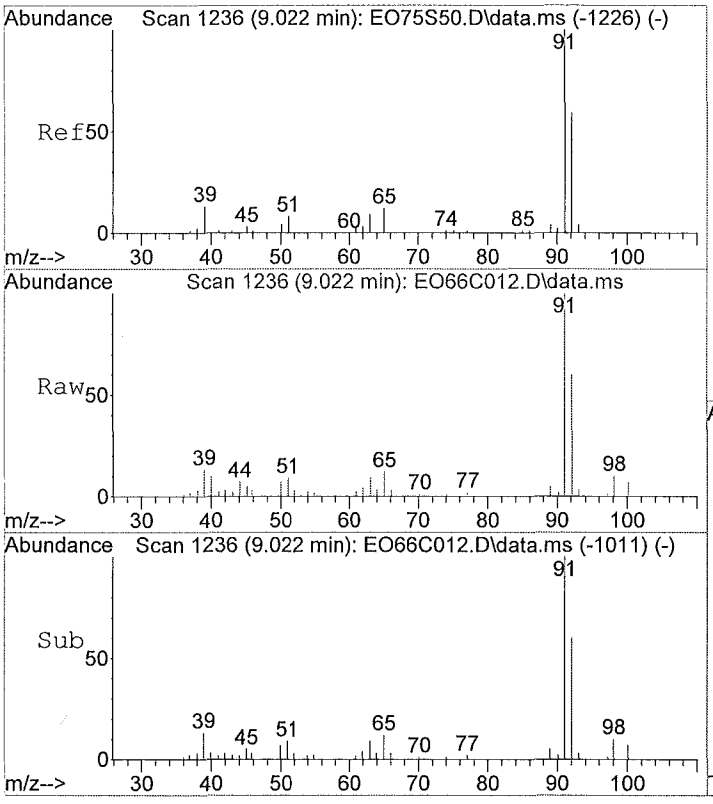


#37
Methylcyclohexane
Concen: 0.28 ug/Kg
RT: 7.33 min Scan# 959
Delta R.T. 0.00 min
Lab File: EO66C012.D
Acq: 05/27/2015 01:37

Tgt Ion:83 Resp: 3556

Ion	Ratio	Lower	Upper
83	100		
55	125.1	76.2	114.4#
98	37.0	38.5	57.7#
0	0.0	0.0	0.0

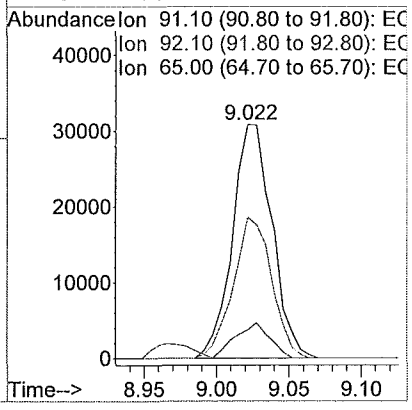




#48
Toluene
Concen: 1.95 ug/Kg
RT: 9.02 min Scan# 1236
Delta R.T. 0.00 min
Lab File: EO66C012.D
Acq: 05/27/2015 01:37

Tgt Ion:91.1 Resp: 58401

Ion	Ratio	Lower	Upper
91	100		
92	58.4	47.2	70.8
65	13.2	9.6	14.4
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L67RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293012RE

Sample wt/vol: 5.04 (g/mL) g Lab File ID: EP00R012

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 15. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U
67-64-1	Acetone	20.	
75-15-0	Carbon disulfide	5.8	U
79-20-9	Methyl acetate	5.8	U
75-09-2	Methylene chloride	0.77	JB
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
78-93-3	2-Butanone	12.	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
110-82-7	Cyclohexane	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
71-43-2	Benzene	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
123-91-1	1,4-Dioxane	120	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L67RE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293012RE

Sample wt/vol: 5.04 (g/mL) g Lab File ID: EP00R012

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 15. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.8	U
108-87-2	Methylcyclohexane	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-Pentanone	12.	U
108-88-3	Toluene	2.3	J
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	12.	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
100-41-4	Ethylbenzene	5.8	U
95-47-6	o-Xylene	5.8	U
179601-23-1	m,p-Xylene	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L67RE

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293012RE
Sample wt/vol: 5.04 (g/mL) g Lab File ID: EP00R012
Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015
% Moisture: not dec. 15. Date Analyzed: 05/27/2015
GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

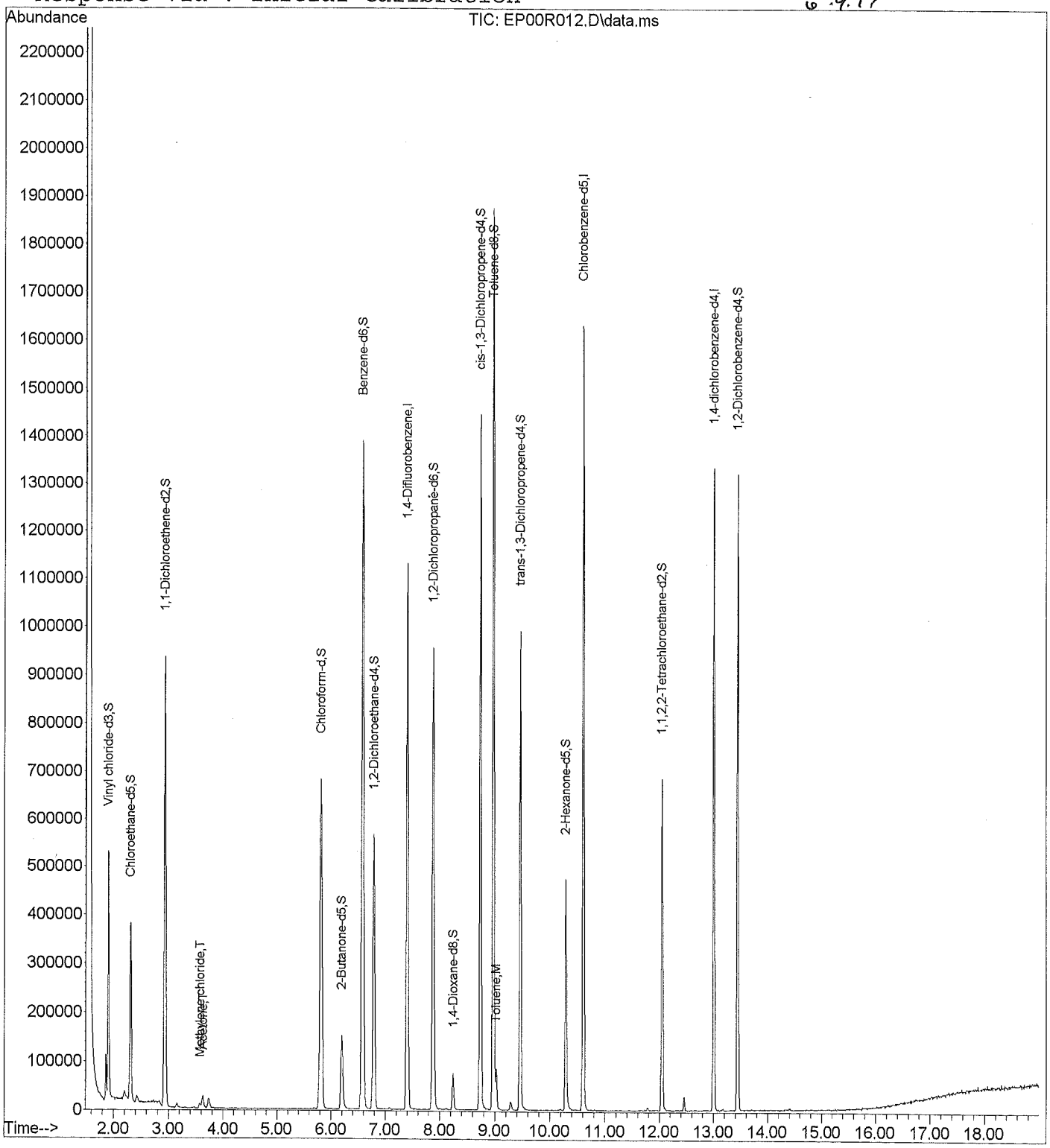
Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EP00R012.D Vial: 21
Acq Time : 05/27/2015 22:30 Operator: CQC
Sample : 1514293012RE F9L67RE Inst : 5975-E
Misc : 1514293 5.04 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:40:07 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.15



00123

Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EP00R012.D Vial: 21
Acq Time : 05/27/2015 22:30 Operator: CQC
Sample : 1514293012RE F9L67RE Inst : 5975-E
Misc : 1514293 5.04 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:40:07 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.41	114	979165	50.0000 ug/Kg	54.30
30) Chlorobenzene-d5	10.61	117	867133	50.0000 ug/Kg	52.52
62) 1,4-dichlorobenzene-d4	13.00	152	338402	50.0000 ug/Kg	38.89#
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	431167	56.5775 ug/Kg	113.15%
8) Chloroethane-d5	2.31	69	335795	57.8054 ug/Kg	115.61%
11) 1,1-Dichloroethene-d2	2.93	63	719524	41.6100 ug/Kg	83.22%
22) 2-Butanone-d5	6.19	46	261959	113.2342 ug/Kg	113.23%
25) Chloroform-d	5.82	84	764701	56.1613 ug/Kg	112.32%
27) 1,2-Dichloroethane-d4	6.78	65	483644	67.0805 ug/Kg	134.16%#
29) 1,4-Dioxane-d8	8.24	96	50646	1418.7129 ug/Kg	141.87%
35) Benzene-d6	6.58	84	1484146	56.8950 ug/Kg	113.79%
39) 1,2-Dichloropropane-d6	7.88	67	452887	59.3690 ug/Kg	118.74%
42) cis-1,3-Dichloropropene-d4	8.74	79	798553	58.5526 ug/Kg	117.11%
44) trans-1,3-Dichloropropene-	9.46	79	495737	57.3692 ug/Kg	114.74%
49) Toluene-d8	8.97	98	1259240	52.4466 ug/Kg	104.89%
52) 2-Hexanone-d5	10.28	63	143298	101.6632 ug/Kg	101.66%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	342788	55.6011 ug/Kg	111.20%
67) 1,2-Dichlorobenzene-d4	13.44	152	342936	54.3484 ug/Kg	108.70%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.62	43	37808	16.8219 ug/Kg	98
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	4489	0.6645 ug/Kg	89
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

00124

Quantitation Report

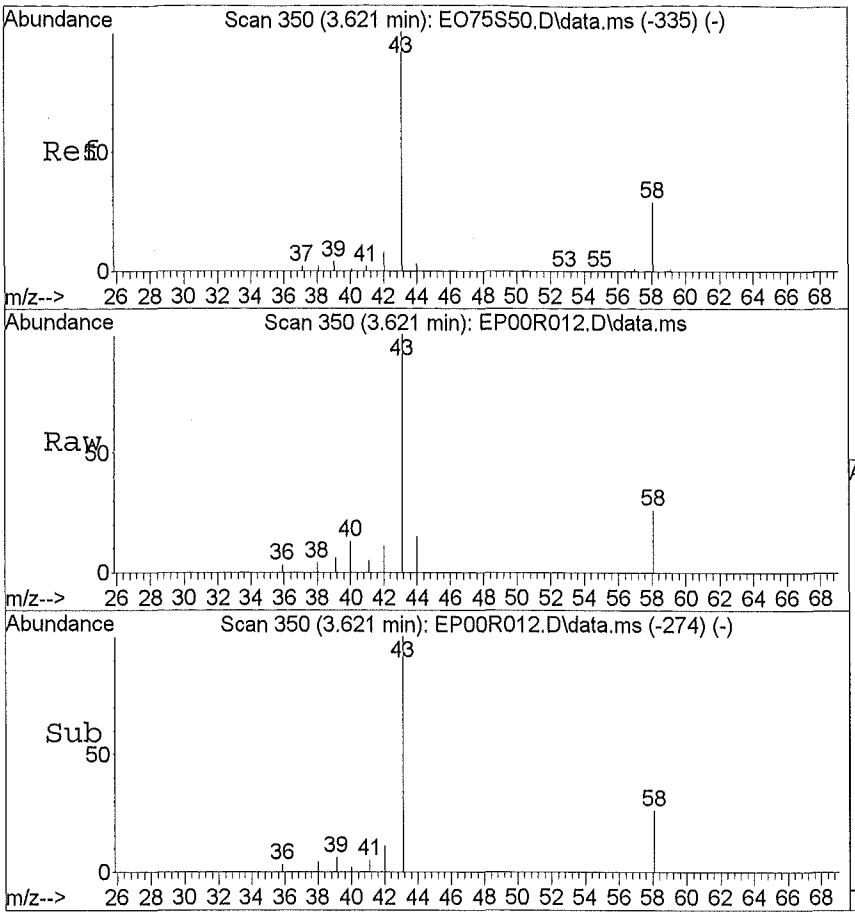
Data File : C:\msdchem\1\Data by...7MAY15E.PM\EP00R012.D Vial: 21
Acq Time : 05/27/2015 22:30 Operator: CQC
Sample : 1514293012RE F9L67RE Inst : 5975-E
Misc : 1514293 5.04 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:40:07 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	130		Not Detected	
37)	Methylcyclohexane	0.00	83		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.03	91	56600	2.0152 ug/Kg	100
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

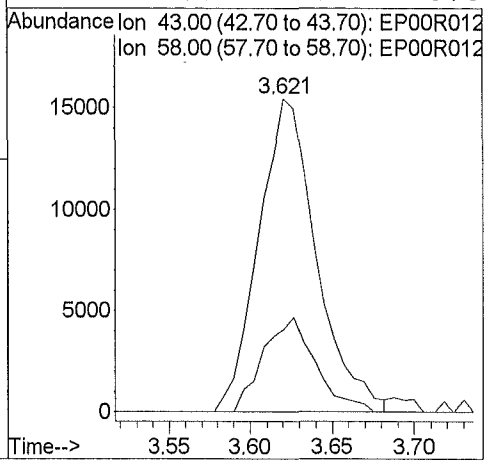
(#) = qualifier out of range (m) = manual integration

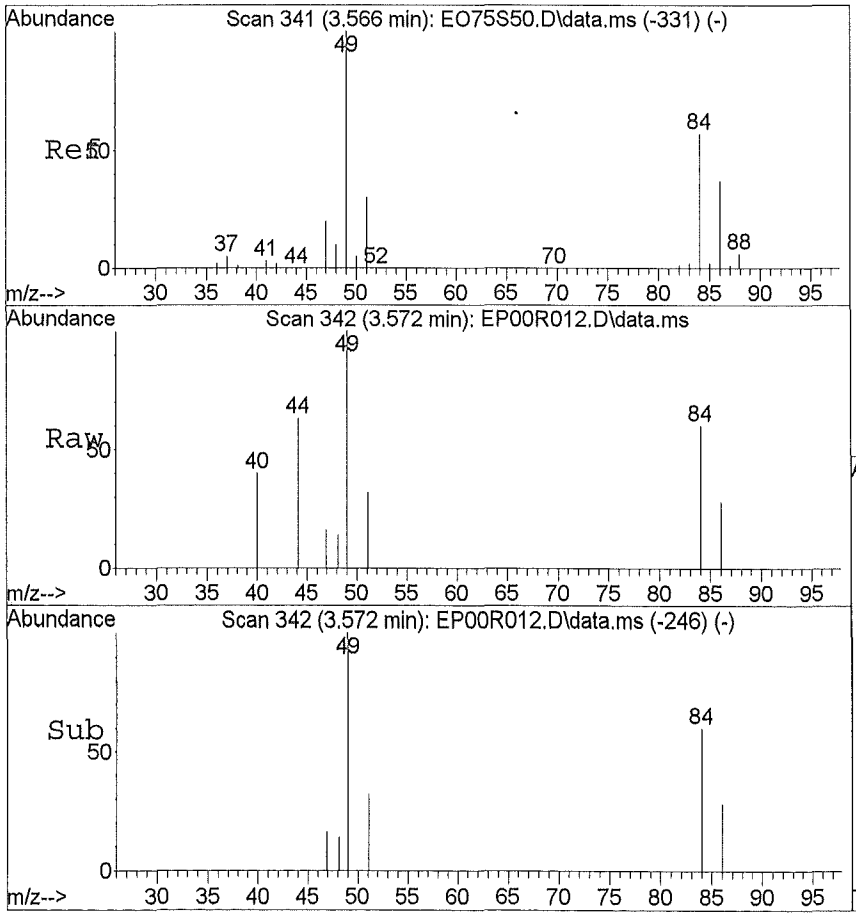


#13
Acetone
Concen: 16.82 ug/Kg
RT: 3.62 min Scan# 350
Delta R.T. -0.00 min
Lab File: EP00R012.D
Acq: 05/27/2015 22:30

Tgt Ion:43 Resp: 37808

Ion	Ratio	Lower	Upper
43	100		
58	27.3	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

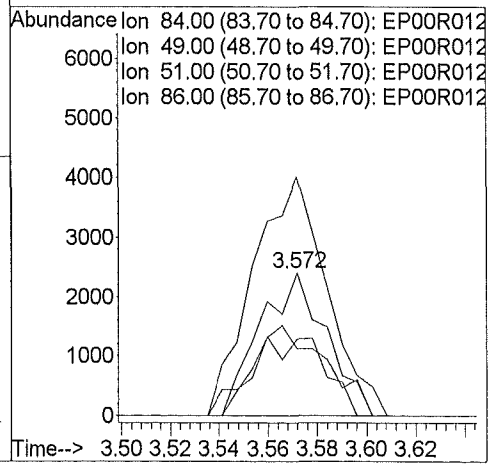


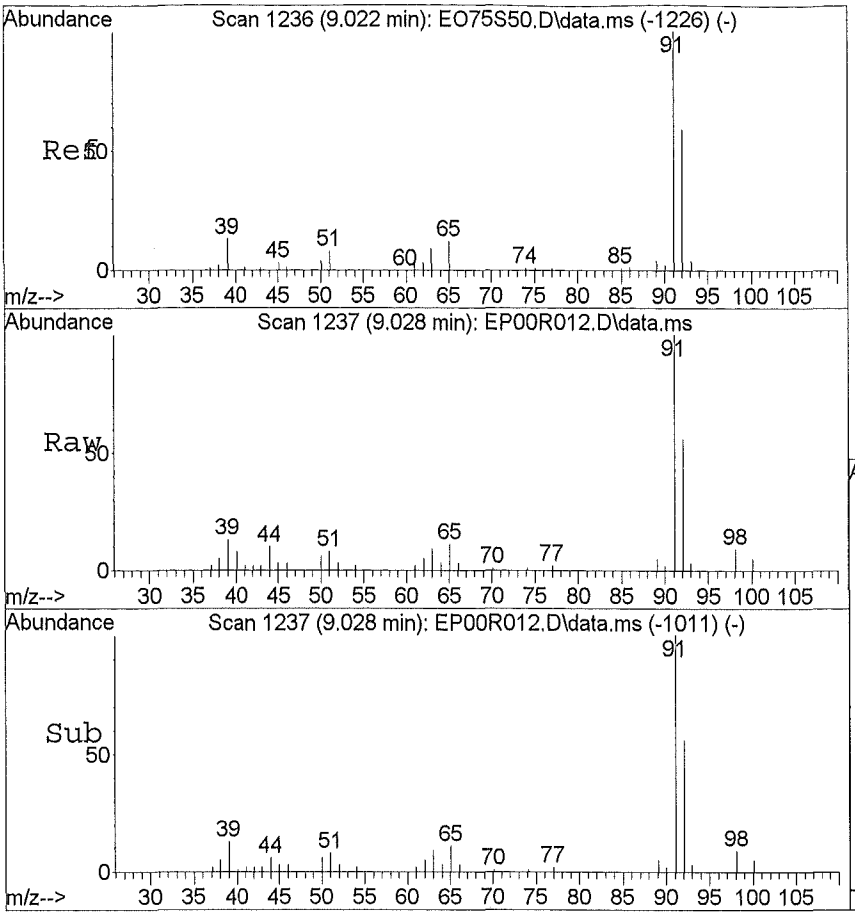


#16
Methylene chloride
Concen: 0.66 ug/Kg
RT: 3.57 min Scan# 342
Delta R.T. -0.00 min
Lab File: EP00R012.D
Acq: 05/27/2015 22:30

Tgt Ion:84 Resp: 4489

Ion	Ratio	Lower	Upper
84	100		
49	186.3	84.4	253.2
51	61.5	25.7	77.0
86	67.4	31.6	95.0

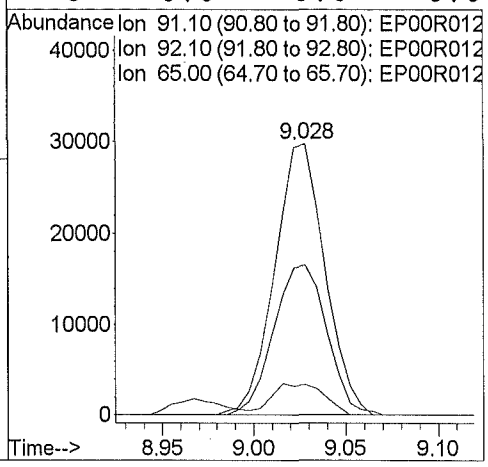




#48
Toluene
Concen: 2.02 ug/Kg
RT: 9.03 min Scan# 1237
Delta R.T. 0.01 min
Lab File: EP00R012.D
Acq: 05/27/2015 22:30

Tgt Ion:91.1 Resp: 56600

Ion	Ratio	Lower	Upper
91	100		
92	58.7	47.2	70.8
65	12.0	9.6	14.4
0	0.0	0.0	0.0



00127

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L68

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293013

Sample wt/vol: 6.49 (g/mL) g Lab File ID: E067C013

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 11. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	4.3	U
74-87-3	Chloromethane	4.3	U
75-01-4	Vinyl chloride	4.3	U
74-83-9	Bromomethane	4.3	U
75-00-3	Chloroethane	4.3	U
75-69-4	Trichlorofluoromethane	0.14	J
75-35-4	1,1-Dichloroethene	4.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.3	U
67-64-1	Acetone	3.8	JB
75-15-0	Carbon disulfide	4.3	U
79-20-9	Methyl acetate	4.3	U
75-09-2	Methylene chloride	0.42	JB
156-60-5	trans-1,2-Dichloroethene	4.3	U
1634-04-4	Methyl tert-butyl ether	4.3	U
75-34-3	1,1-Dichloroethane	4.3	U
156-59-2	cis-1,2-Dichloroethene	4.3	U
78-93-3	2-Butanone	8.7	U
74-97-5	Bromochloromethane	4.3	U
67-66-3	Chloroform	0.44	J
71-55-6	1,1,1-Trichloroethane	4.3	U
110-82-7	Cyclohexane	4.3	U
56-23-5	Carbon tetrachloride	4.3	U
71-43-2	Benzene	4.3	U
107-06-2	1,2-Dichloroethane	4.3	U
123-91-1	1,4-Dioxane	87.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L68

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293013

Sample wt/vol: 6.49 (g/mL) g Lab File ID: E067C013

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 11. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	4.3	U
108-87-2	Methylcyclohexane	4.3	U
78-87-5	1,2-Dichloropropane	4.3	U
75-27-4	Bromodichloromethane	4.3	U
10061-01-5	cis-1,3-Dichloropropene	4.3	U
108-10-1	4-Methyl-2-Pentanone	8.7	U
108-88-3	Toluene	0.70	J
10061-02-6	trans-1,3-Dichloropropene	4.3	U
79-00-5	1,1,2-Trichloroethane	4.3	U
127-18-4	Tetrachloroethene	4.3	U
591-78-6	2-Hexanone	8.7	U
124-48-1	Dibromochloromethane	4.3	U
106-93-4	1,2-Dibromoethane	4.3	U
108-90-7	Chlorobenzene	4.3	U
100-41-4	Ethylbenzene	4.3	U
95-47-6	o-Xylene	4.3	U
179601-23-1	m,p-Xylene	4.3	U
100-42-5	Styrene	4.3	U
75-25-2	Bromoform	4.3	U
98-82-8	Isopropylbenzene	4.3	U
79-34-5	1,1,2,2-Tetrachloroethane	4.3	U
541-73-1	1,3-Dichlorobenzene	4.3	U
106-46-7	1,4-Dichlorobenzene	4.3	U
95-50-1	1,2-Dichlorobenzene	4.3	U
96-12-8	1,2-Dibromo-3-chloropropane	4.3	U
120-82-1	1,2,4-Trichlorobenzene	4.3	U
87-61-6	1,2,3-Trichlorobenzene	4.3	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L68

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293013

Sample wt/vol: 6.49 (g/mL) g Lab File ID: E067C013

Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 11. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

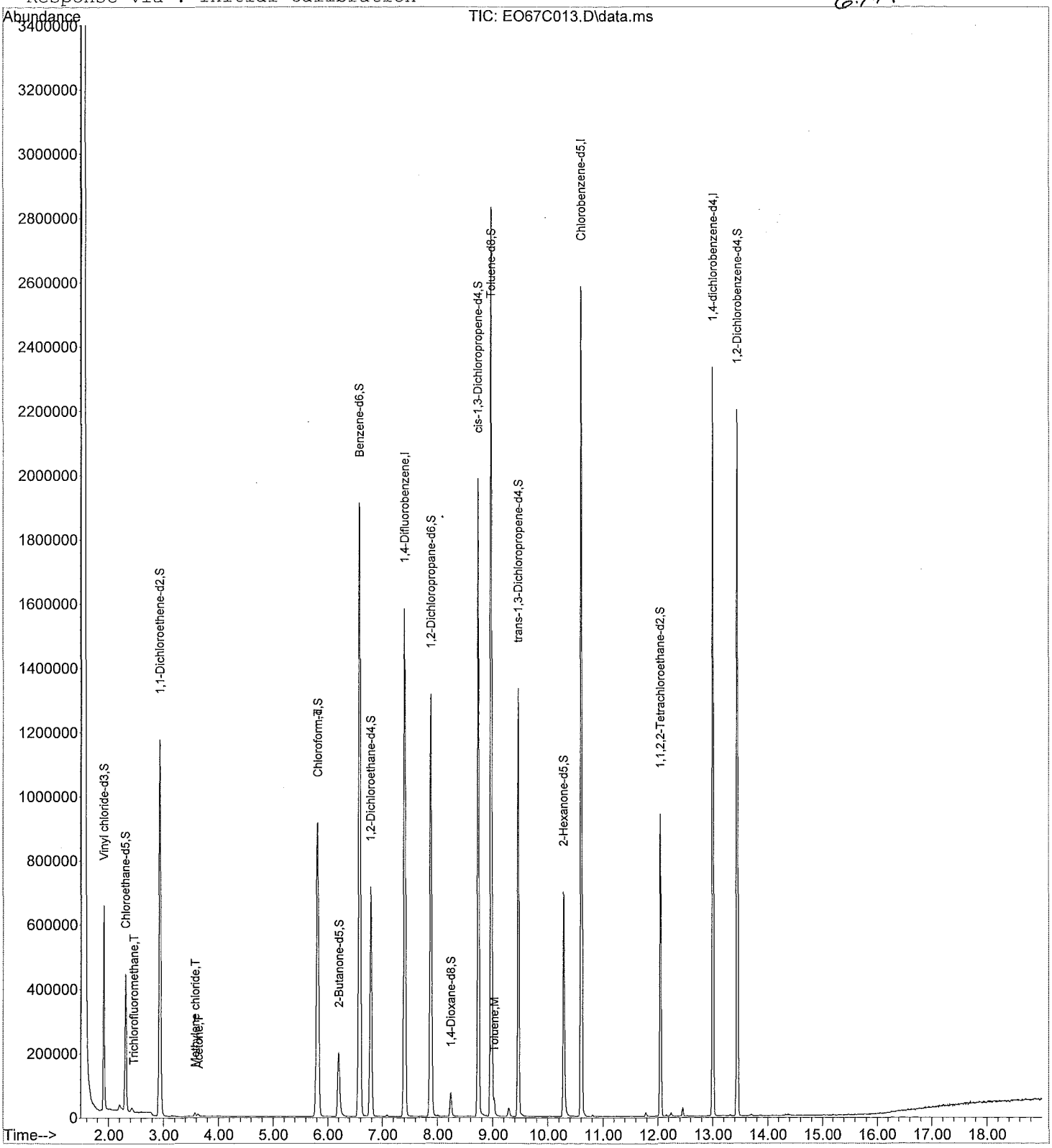
Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO67C013.D Vial: 18
Acq Time : 05/27/2015 02:02 Operator: CQC
Sample : 1514293013 F9L68 Inst : 5975-E
Misc : 1514293 6.49 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:29:39 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.15



Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO67C013.D Vial: 18
Acq Time : 05/27/2015 02:02 Operator: CQC
Sample : 1514293013 F9L68 Inst : 5975-E
Misc : 1514293 6.49 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:29:39 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1403959	50.0000 ug/Kg	77.85
30) Chlorobenzene-d5	10.61	117	1364102	50.0000 ug/Kg	82.63
62) 1,4-dichlorobenzene-d4	13.00	152	585025	50.0000 ug/Kg	67.23
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	533164	48.7933 ug/Kg	97.59%
8) Chloroethane-d5	2.32	69	419315	50.3426 ug/Kg	100.69%
11) 1,1-Dichloroethene-d2	2.93	63	926419	37.3647 ug/Kg	74.73%
22) 2-Butanone-d5	6.20	46	331595	99.9663 ug/Kg	99.97%
25) Chloroform-d	5.82	84	1017727	52.1289 ug/Kg	104.26%
27) 1,2-Dichloroethane-d4	6.78	65	602505	58.2818 ug/Kg	116.56%
29) 1,4-Dioxane-d8	8.24	96	55052	1075.5334 ug/Kg	107.55%
35) Benzene-d6	6.58	84	2053076	50.0313 ug/Kg	100.06%
39) 1,2-Dichloropropane-d6	7.88	67	630072	52.5047 ug/Kg	105.01%
42) cis-1,3-Dichloropropene-d4	8.74	79	1106360	51.5677 ug/Kg	103.14%
44) trans-1,3-Dichloropropene-	9.46	79	682199	50.1854 ug/Kg	100.37%
49) Toluene-d8	8.97	98	1925599	50.9816 ug/Kg	101.96%
52) 2-Hexanone-d5	10.28	63	210549	94.9545 ug/Kg	94.95%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	470856	48.5495 ug/Kg	97.10%
67) 1,2-Dichlorobenzene-d4	13.44	152	576598	52.8574 ug/Kg	105.71%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	2.46	101	2196	0.1569 ug/Kg#	86
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	14002	4.3449 ug/Kg	94
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	4715	0.4868 ug/Kg	94
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	5.82	83	8917	0.5054 ug/Kg#	1
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	0.00	83		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

00132

Quantitation Report

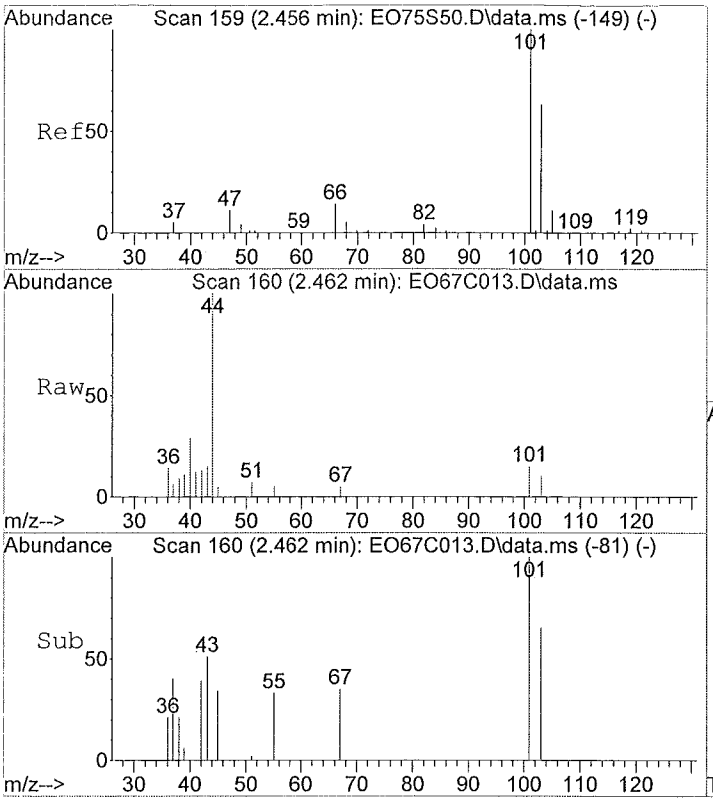
Data File : C:\msdchem\1\Data by...E\26MAY15E\EO67C013.D Vial: 18
Acq Time : 05/27/2015 02:02 Operator: CQC
Sample : 1514293013 F9L68 Inst : 5975-E
Misc : 1514293 6.49 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:29:39 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.03	91	35826	0.8108 ug/Kg	99
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

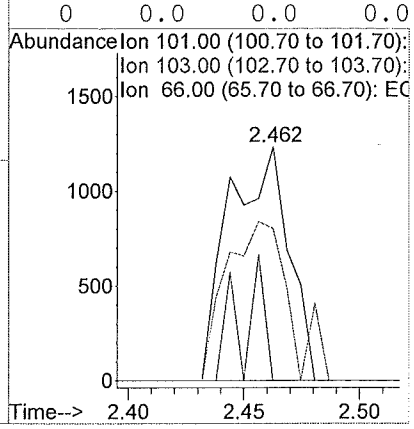
(#) = qualifier out of range (m) = manual integration

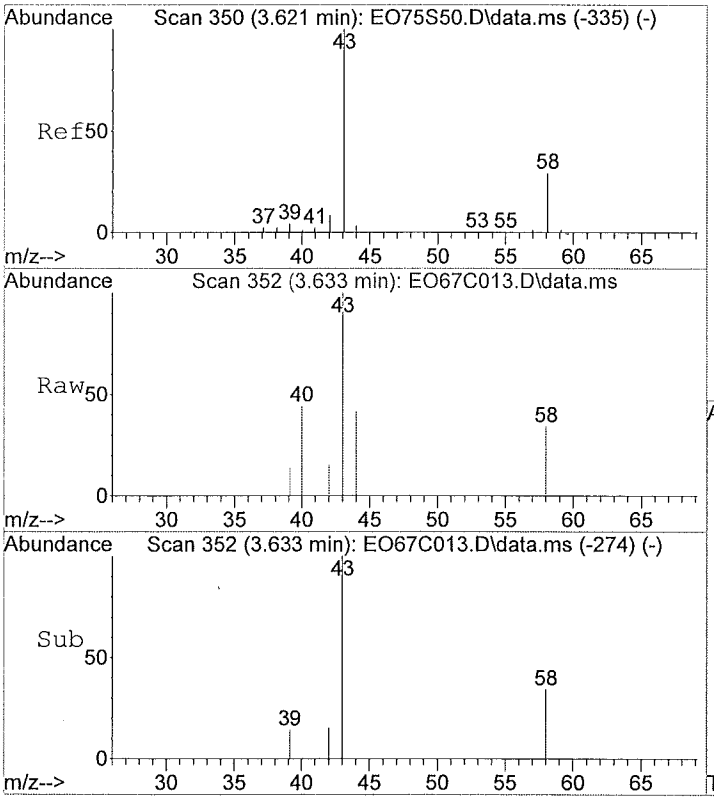


#9
Trichlorofluoromethane
Concen: 0.16 ug/Kg
RT: 2.46 min Scan# 160
Delta R.T. 0.01 min
Lab File: EO67C013.D
Acq: 05/27/2015 02:02

Tgt Ion:101 Resp: 2196

Ion	Ratio	Lower	Upper
101	100		
103	71.9	32.5	97.4
66	0.0	7.3	22.0#
0	0.0	0.0	0.0

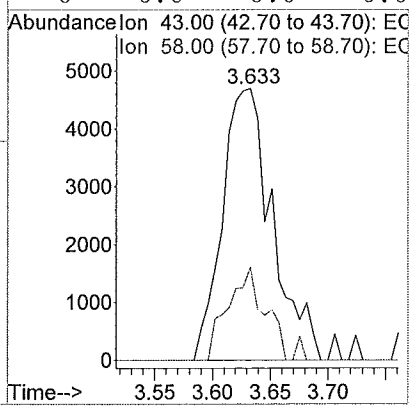


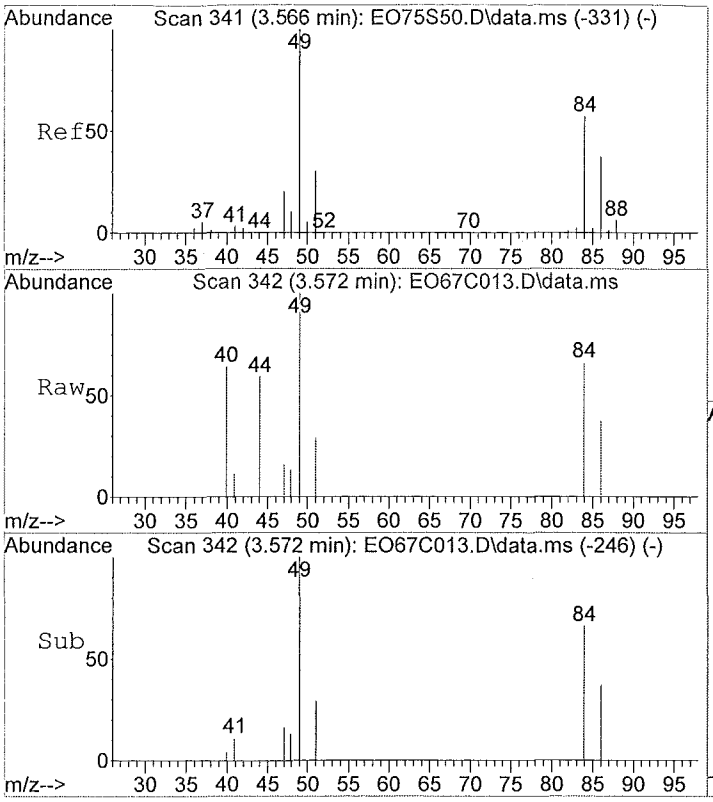


#13
Acetone
Concen: 4.34 ug/Kg
RT: 3.63 min Scan# 352
Delta R.T. 0.01 min
Lab File: EO67C013.D
Acq: 05/27/2015 02:02

Tgt Ion:43 Resp: 14002

Ion	Ratio	Lower	Upper
43	100		
58	25.3	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

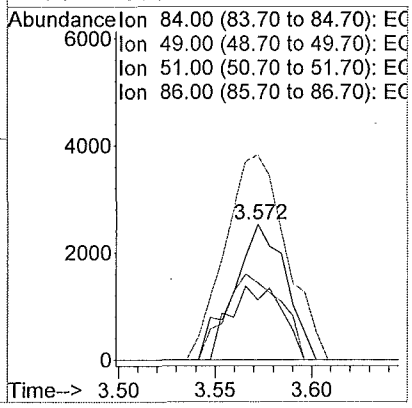


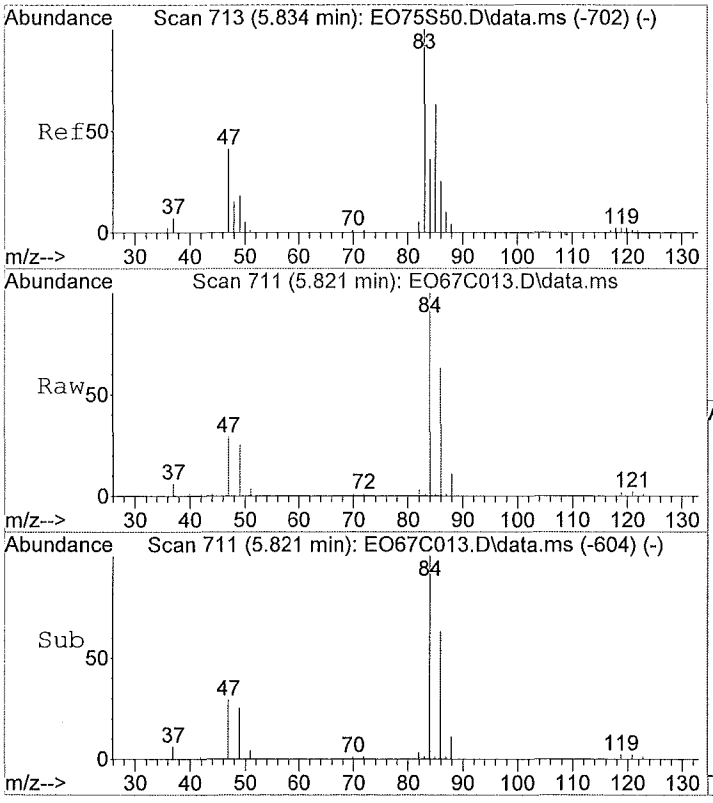


#16
Methylene chloride
Concen: 0.49 ug/Kg
RT: 3.57 min Scan# 342
Delta R.T. 0.00 min
Lab File: EO67C013.D
Acq: 05/27/2015 02:02

Tgt Ion:84 Resp: 4715

Ion	Ratio	Lower	Upper
84	100		
49	177.5	84.4	253.2
51	54.2	25.7	77.0
86	67.5	31.6	95.0

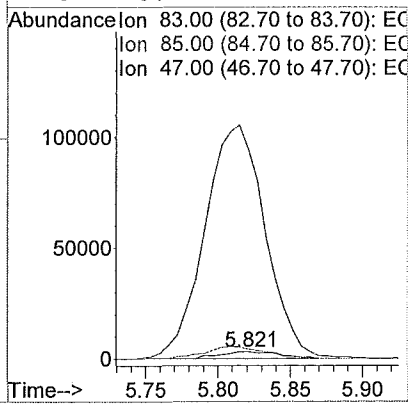


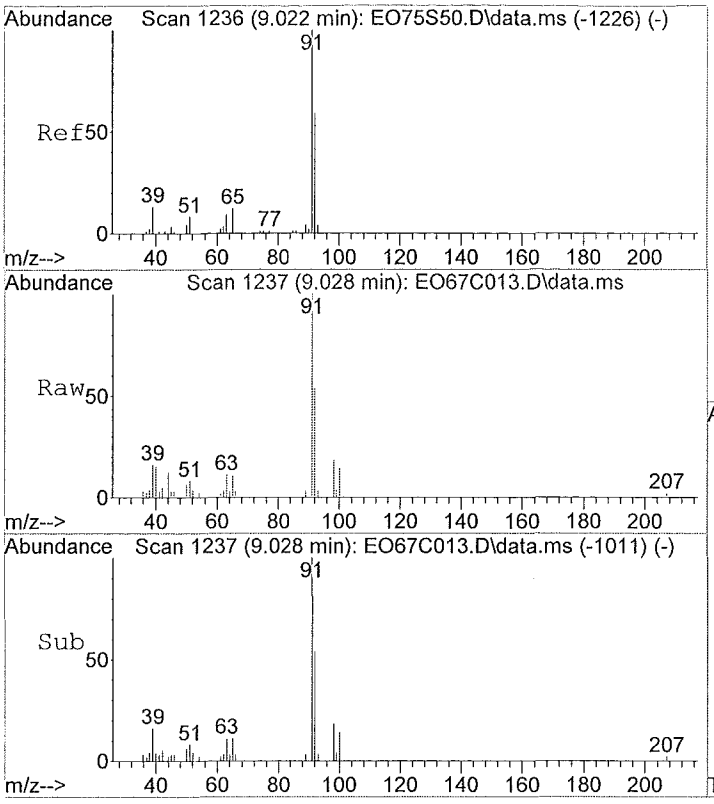


#24
Chloroform
Concen: 0.51 ug/Kg
RT: 5.82 min Scan# 711
Delta R.T. -0.01 min
Lab File: EO67C013.D
Acq: 05/27/2015 02:02

Tgt Ion:83 Resp: 8917

Ion	Ratio	Lower	Upper
83	100		
85	179.9	32.5	97.5#
47	3427.8	31.1	93.5#
0	0.0	0.0	0.0

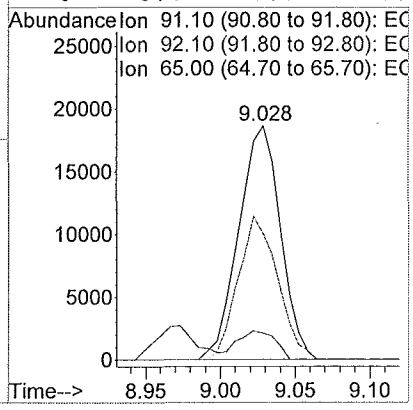




#48
Toluene
Concen: 0.81 ug/Kg
RT: 9.03 min Scan# 1237
Delta R.T. 0.01 min
Lab File: EO67C013.D
Acq: 05/27/2015 02:02

Tgt Ion:91.1 Resp: 35826

Ion	Ratio	Lower	Upper
91	100		
92	58.3	47.2	70.8
65	11.3	9.6	14.4
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L69

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293014

Sample wt/vol: 6.02 (g/mL) g Lab File ID: E068C014

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 12. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	4.7	U
74-87-3	Chloromethane	4.7	U
75-01-4	Vinyl chloride	4.7	U
74-83-9	Bromomethane	4.7	U
75-00-3	Chloroethane	4.7	U
75-69-4	Trichlorofluoromethane	0.25	J
75-35-4	1,1-Dichloroethene	4.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.7	U
67-64-1	Acetone	49.	B
75-15-0	Carbon disulfide	4.7	U
79-20-9	Methyl acetate	4.7	U
75-09-2	Methylene chloride	0.52	JB
156-60-5	trans-1,2-Dichloroethene	4.7	U
1634-04-4	Methyl tert-butyl ether	4.7	U
75-34-3	1,1-Dichloroethane	4.7	U
156-59-2	cis-1,2-Dichloroethene	4.7	U
78-93-3	2-Butanone	23.	
74-97-5	Bromochloromethane	4.7	U
67-66-3	Chloroform	0.44	J
71-55-6	1,1,1-Trichloroethane	4.7	U
110-82-7	Cyclohexane	4.7	U
56-23-5	Carbon tetrachloride	4.7	U
71-43-2	Benzene	4.7	U
107-06-2	1,2-Dichloroethane	4.7	U
123-91-1	1,4-Dioxane	94.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L69

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293014

Sample wt/vol: 6.02 (g/mL) g Lab File ID: E068C014

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 12. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	4.7	U
108-87-2	Methylcyclohexane	4.7	U
78-87-5	1,2-Dichloropropane	4.7	U
75-27-4	Bromodichloromethane	4.7	U
10061-01-5	cis-1,3-Dichloropropene	4.7	U
108-10-1	4-Methyl-2-Pentanone	9.4	U
108-88-3	Toluene	2.0	J
10061-02-6	trans-1,3-Dichloropropene	4.7	U
79-00-5	1,1,2-Trichloroethane	4.7	U
127-18-4	Tetrachloroethene	4.7	U
591-78-6	2-Hexanone	9.4	U
124-48-1	Dibromochloromethane	4.7	U
106-93-4	1,2-Dibromoethane	4.7	U
108-90-7	Chlorobenzene	4.7	U
100-41-4	Ethylbenzene	4.7	U
95-47-6	o-Xylene	4.7	U
179601-23-1	m,p-Xylene	4.7	U
100-42-5	Styrene	4.7	U
75-25-2	Bromoform	4.7	U
98-82-8	Isopropylbenzene	4.7	U
79-34-5	1,1,2,2-Tetrachloroethane	4.7	U
541-73-1	1,3-Dichlorobenzene	4.7	U
106-46-7	1,4-Dichlorobenzene	4.7	U
95-50-1	1,2-Dichlorobenzene	4.7	U
96-12-8	1,2-Dibromo-3-chloropropane	4.7	U
120-82-1	1,2,4-Trichlorobenzene	4.7	U
87-61-6	1,2,3-Trichlorobenzene	4.7	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L69

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293014

Sample wt/vol: 6.02 (g/mL) g Lab File ID: E068C014

Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 12. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

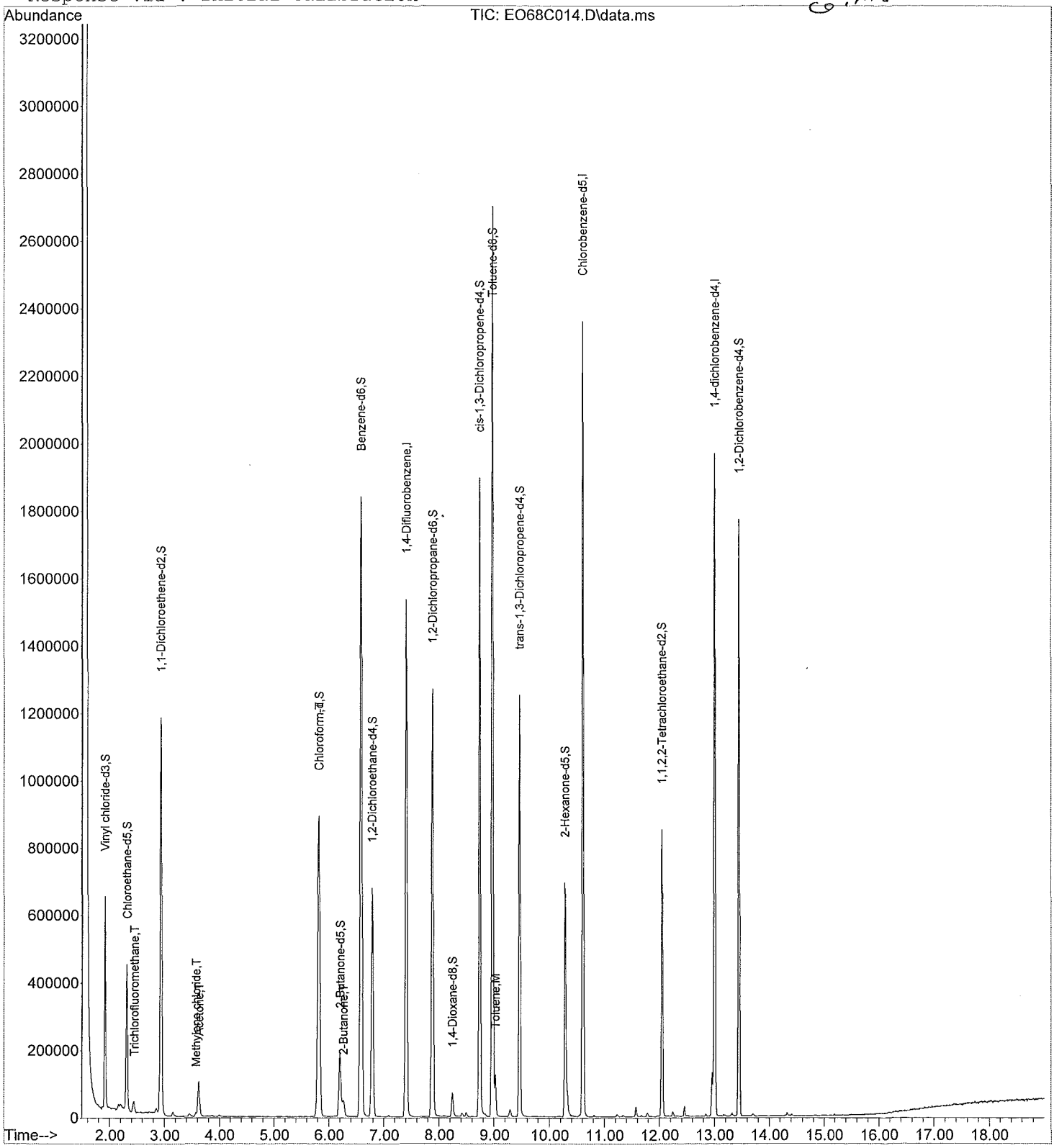
Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO68C014.D Vial: 19
Acq Time : 05/27/2015 02:26 Operator: CQC
Sample : 1514293014 F9L69 Inst : 5975-E
Misc : 1514293 6.02 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:30:05 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.16



Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO68C014.D Vial: 19
Acq Time : 05/27/2015 02:26 Operator: CQC
Sample : 1514293014 F9L69 Inst : 5975-E
Misc : 1514293 6.02 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:30:05 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1352025	50.0000 ug/Kg	74.97
30) Chlorobenzene-d5	10.61	117	1238111	50.0000 ug/Kg	74.99
62) 1,4-dichlorobenzene-d4	13.00	152	499696	50.0000 ug/Kg	57.43
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	537348	51.0652 ug/Kg	102.13%
8) Chloroethane-d5	2.32	69	427941	53.3518 ug/Kg	106.70%
11) 1,1-Dichloroethene-d2	2.93	63	913824	38.2725 ug/Kg	76.54%
22) 2-Butanone-d5	6.19	46	311713	97.5822 ug/Kg	97.58%
25) Chloroform-d	5.82	84	987556	52.5265 ug/Kg	105.05%
27) 1,2-Dichloroethane-d4	6.78	65	572366	57.4931 ug/Kg	114.99%
29) 1,4-Dioxane-d8	8.24	96	51492	1044.6247 ug/Kg	104.46%
35) Benzene-d6	6.58	84	1987560	53.3635 ug/Kg	106.73%
39) 1,2-Dichloropropane-d6	7.88	67	605237	55.5675 ug/Kg	111.14%
42) cis-1,3-Dichloropropene-d4	8.74	79	1052141	54.0310 ug/Kg	108.06%
44) trans-1,3-Dichloropropene-	9.46	79	637467	51.6667 ug/Kg	103.33%
49) Toluene-d8	8.97	98	1834351	53.5079 ug/Kg	107.02%
52) 2-Hexanone-d5	10.28	63	209450	104.0711 ug/Kg	104.07%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	426053	48.4002 ug/Kg	96.80%
67) 1,2-Dichlorobenzene-d4	13.44	152	457117	49.0601 ug/Kg	98.12%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	2.45	101	3613	0.2681 ug/Kg#	92
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	161541	52.0529 ug/Kg	98
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.58	84	5138	0.5508 ug/Kg	96
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.27	43	88470	24.8337 ug/Kg	98
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	5.82	83	8000	0.4709 ug/Kg#	1
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	0.00	83		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

EO68C014

Quantitation Report

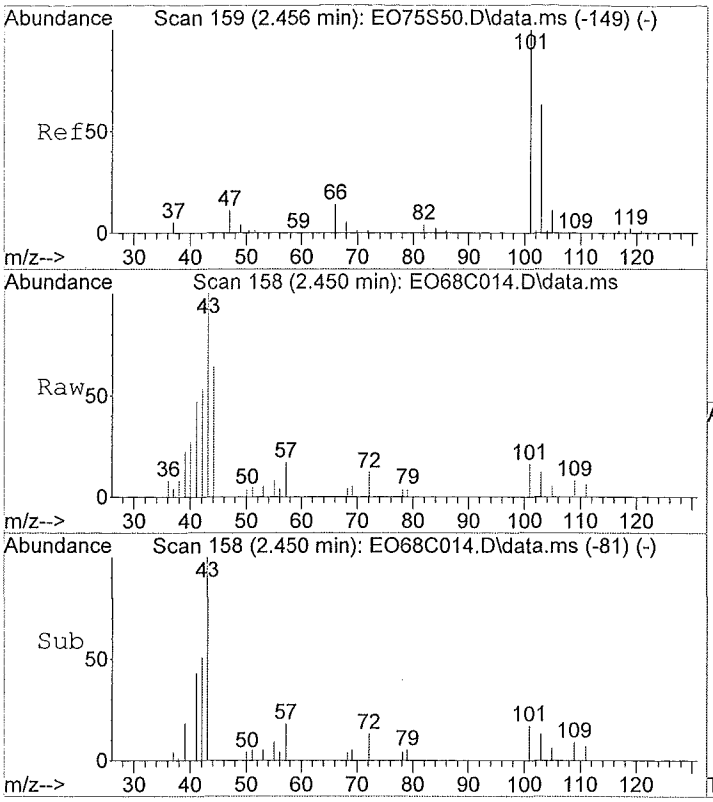
Data File : C:\msdchem\1\Data by...E\26MAY15E\EO68C014.D Vial: 19
Acq Time : 05/27/2015 02:26 Operator: CQC
Sample : 1514293014 F9L69 Inst : 5975-E
Misc : 1514293 6.02 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:30:05 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.02	91	85079	2.1215 ug/Kg	99
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

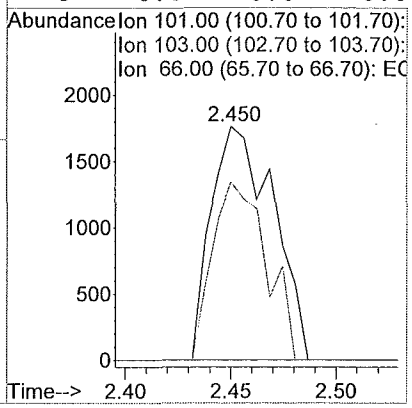
(#) = qualifier out of range (m) = manual integration

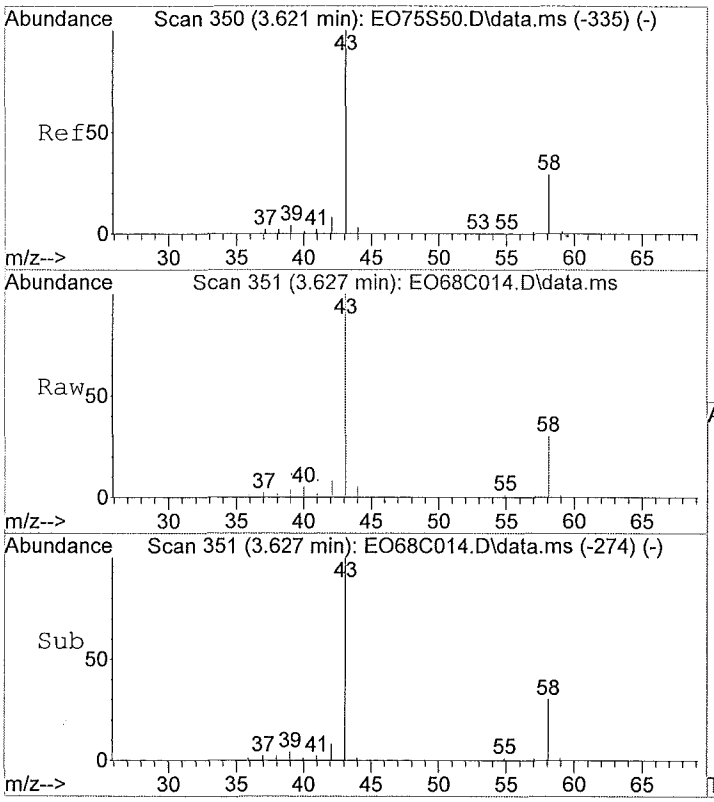


#9
Trichlorofluoromethane
Concen: 0.27 ug/Kg
RT: 2.45 min Scan# 158
Delta R.T. -0.01 min
Lab File: EO68C014.D
Acq: 05/27/2015 02:26

Tgt Ion:101 Resp: 3613

Ion	Ratio	Lower	Upper
101	100		
103	66.2	32.5	97.4
66	0.0	7.3	22.0#
0	0.0	0.0	0.0

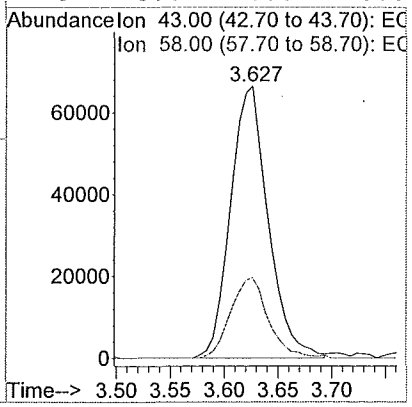


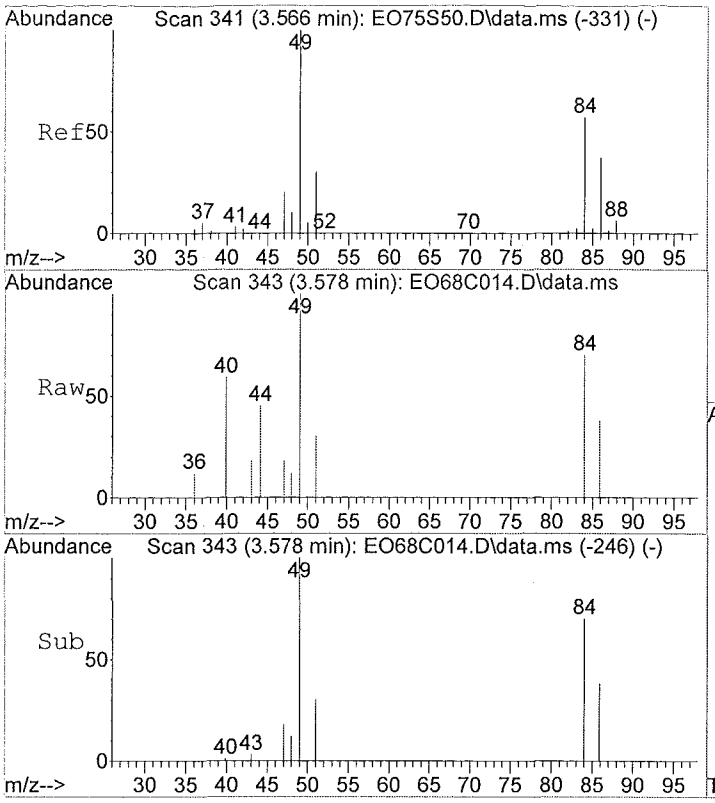


#13
Acetone
Concen: 52.05 ug/Kg
RT: 3.63 min Scan# 351
Delta R.T. 0.01 min
Lab File: EO68C014.D
Acq: 05/27/2015 02:26

Tgt Ion:43 Resp: 161541

Ion	Ratio	Lower	Upper
43	100		
58	29.5	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

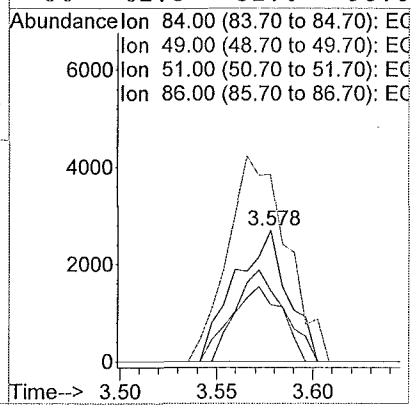


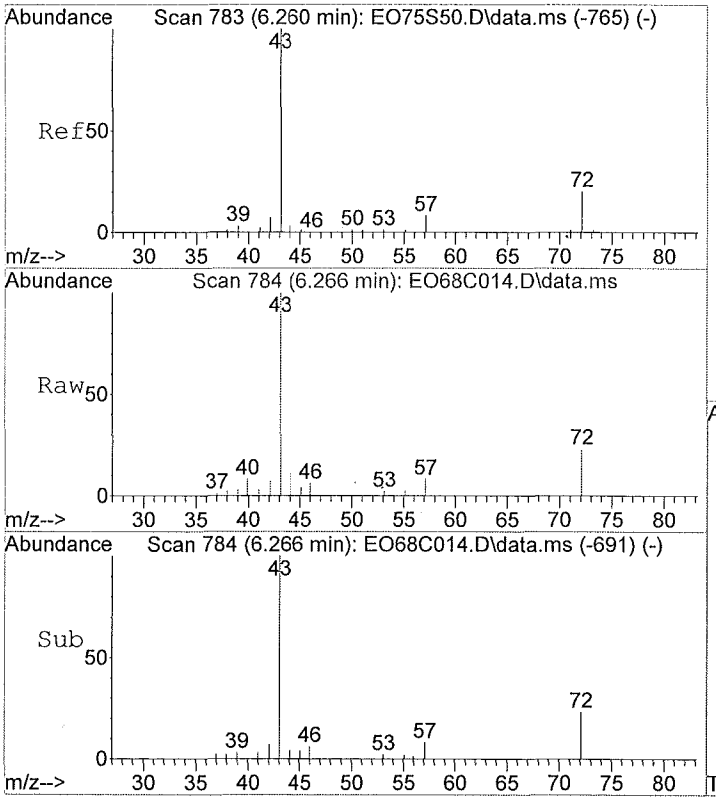


#16
Methylene chloride
Concen: 0.55 ug/Kg
RT: 3.58 min Scan# 343
Delta R.T. 0.01 min
Lab File: EO68C014.D
Acq: 05/27/2015 02:26

Tgt Ion:84 Resp: 5138

Ion	Ratio	Lower	Upper
84	100		
49	175.4	84.4	253.2
51	56.3	25.7	77.0
86	62.3	31.6	95.0

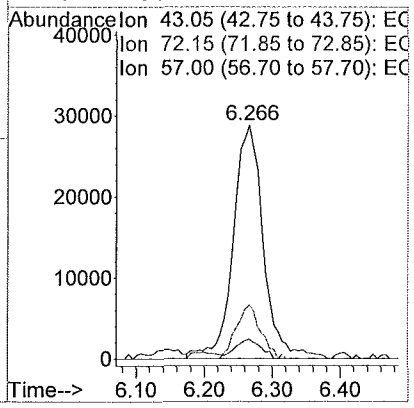


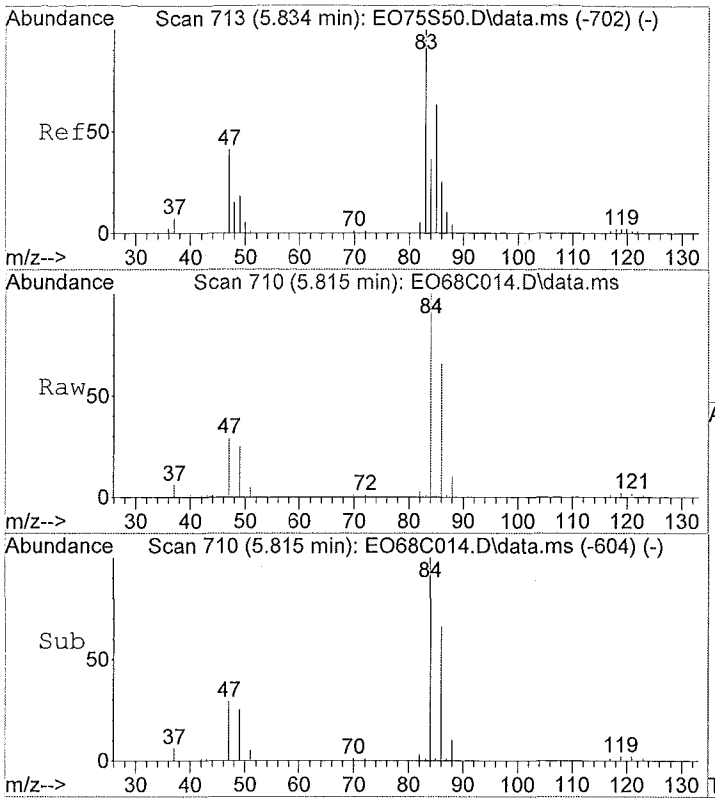


#21
2-Butanone
Concen: 24.83 ug/Kg
RT: 6.27 min Scan# 784
Delta R.T. 0.01 min
Lab File: EO68C014.D
Acq: 05/27/2015 02:26

Tgt Ion:43.05 Resp: 88470

Ion	Ratio	Lower	Upper
43	100		
72	18.6	15.5	23.3
57	6.8	6.2	9.4
0	0.0	0.0	0.0

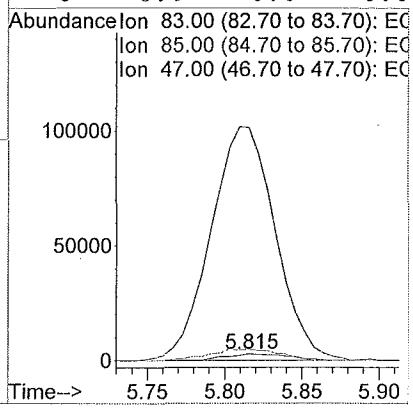


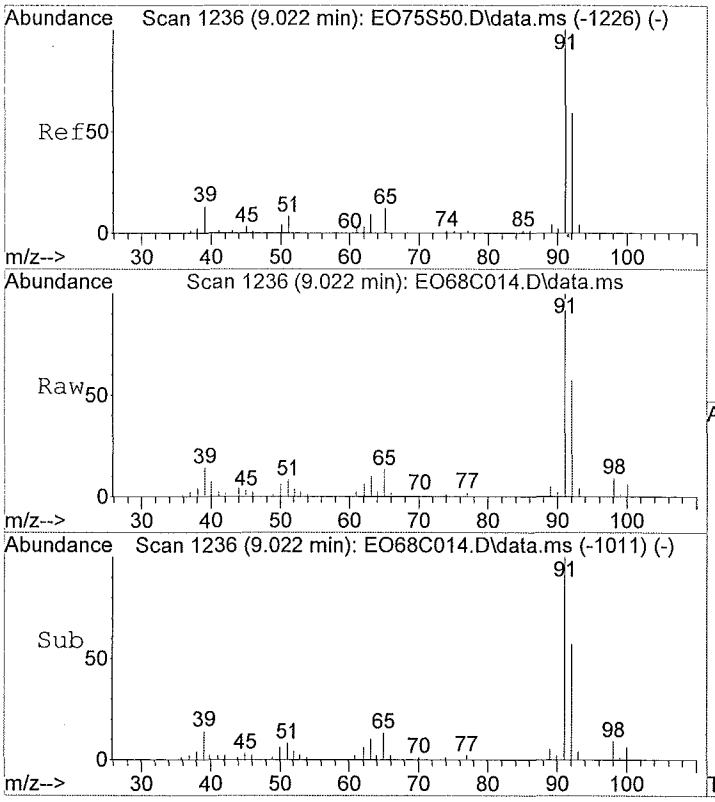


#24
Chloroform
Concen: 0.47 ug/Kg
RT: 5.82 min Scan# 710
Delta R.T. -0.01 min
Lab File: EO68C014.D
Acq: 05/27/2015 02:26

Tgt Ion:83 Resp: 8000

Ion	Ratio	Lower	Upper
83	100		
85	190.7	32.5	97.5#
47	3683.2	31.1	93.5#
0	0.0	0.0	0.0

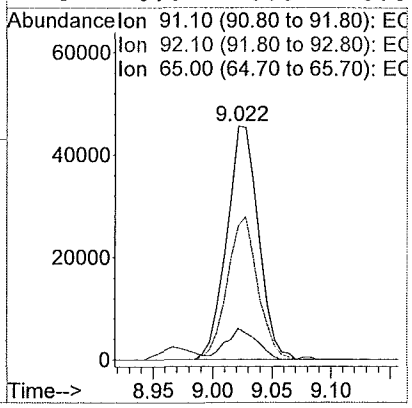




#48
Toluene
Concen: 2.12 ug/Kg
RT: 9.02 min Scan# 1236
Delta R.T. 0.00 min
Lab File: EO68C014.D
Acq: 05/27/2015 02:26

Tgt Ion:91.1 Resp: 85079

Ion	Ratio	Lower	Upper
91	100		
92	58.6	47.2	70.8
65	12.7	9.6	14.4
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L70

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293015

Sample wt/vol: 5.56 (g/mL) g Lab File ID: E069C015

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 11. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	0.17	J
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	12.	B
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.43	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	6.7	J
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	0.48	J
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L70

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293015

Sample wt/vol: 5.56 (g/mL) g Lab File ID: E069C015

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 11. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	0.61	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L70

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293015
Sample wt/vol: 5.56 (g/mL) g Lab File ID: E069C015
Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015
% Moisture: not dec. 11. Date Analyzed: 05/27/2015
GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

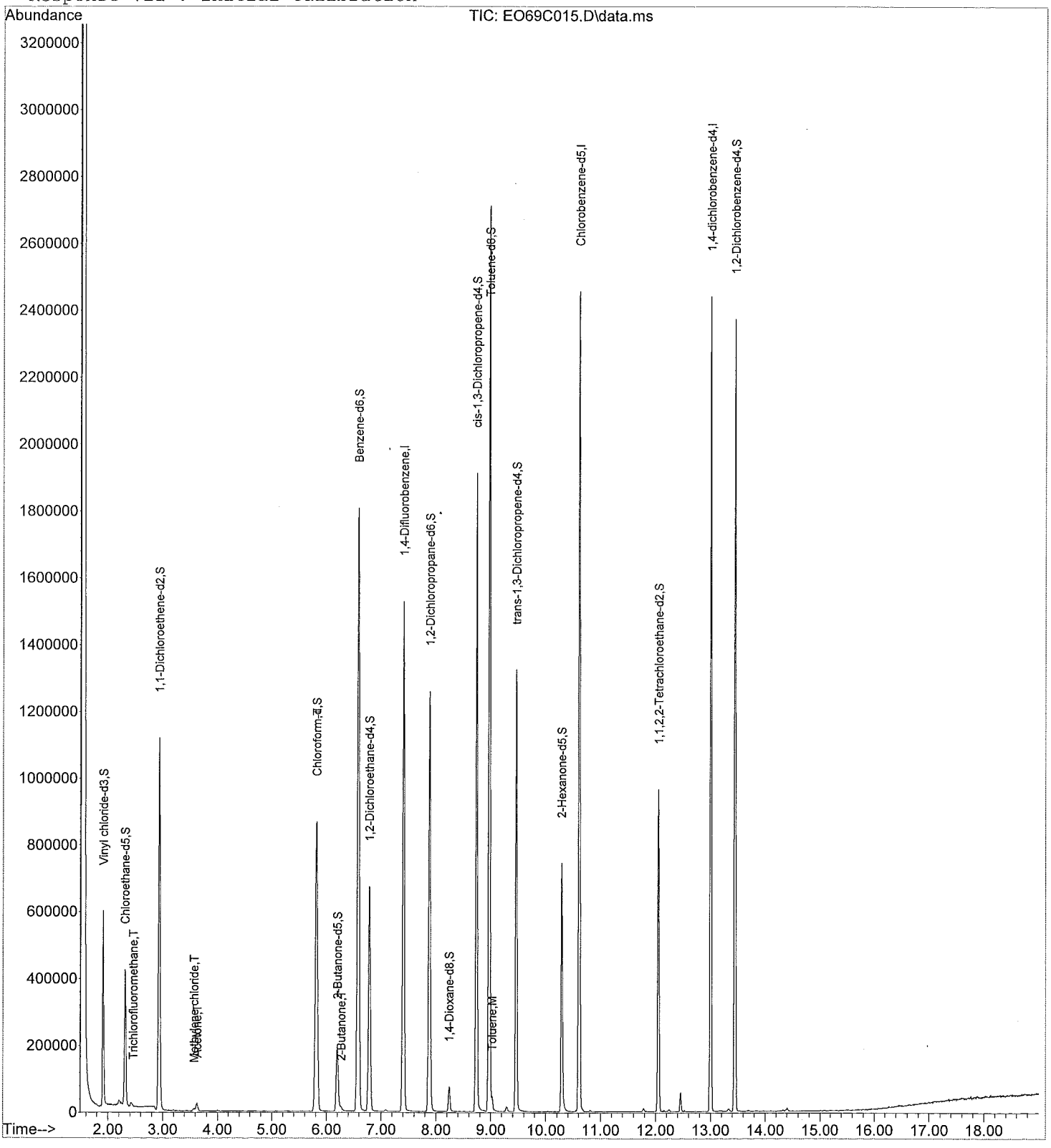
Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO69C015.D Vial: 20
Acq Time : 05/27/2015 02:50 Operator: CQC
Sample : 1514293015 F9L70 Inst : 5975-E
Misc : 1514293 5.56 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:30:30 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

G 19.1 C



Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO69C015.D Vial: 20
Acq Time : 05/27/2015 02:50 Operator: CQC
Sample : 1514293015 F9L70 Inst : 5975-E
Misc : 1514293 5.56 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:30:30 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1322663	50.0000 ug/Kg	73.35
30) Chlorobenzene-d5	10.61	117	1312559	50.0000 ug/Kg	79.50
62) 1,4-dichlorobenzene-d4	13.00	152	611969	50.0000 ug/Kg	70.33
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	505734	49.1278 ug/Kg	98.26%
8) Chloroethane-d5	2.32	69	398206	50.7468 ug/Kg	101.49%
11) 1,1-Dichloroethene-d2	2.93	63	864006	36.9893 ug/Kg	73.98%
22) 2-Butanone-d5	6.20	46	339676	108.6966 ug/Kg	108.70%
25) Chloroform-d	5.82	84	966206	52.5318 ug/Kg	105.06%
27) 1,2-Dichloroethane-d4	6.78	65	577257	59.2716 ug/Kg	118.54%
29) 1,4-Dioxane-d8	8.25	96	54791	1136.2274 ug/Kg	113.62%
35) Benzene-d6	6.58	84	1936924	49.0543 ug/Kg	98.11%
39) 1,2-Dichloropropane-d6	7.88	67	597226	51.7220 ug/Kg	103.44%
42) cis-1,3-Dichloropropene-d4	8.74	79	1089552	52.7786 ug/Kg	105.56%
44) trans-1,3-Dichloropropene-	9.46	79	673700	51.5063 ug/Kg	103.01%
49) Toluene-d8	8.97	98	1830165	50.3577 ug/Kg	100.72%
52) 2-Hexanone-d5	10.28	63	228699	107.1901 ug/Kg	107.19%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	476807	51.0937 ug/Kg	102.19%
67) 1,2-Dichlorobenzene-d4	13.44	152	614925	53.8889 ug/Kg	107.78%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	2.46	101	2217	0.1682 ug/Kg#	83
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	37309	12.2889 ug/Kg	99
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.58	84	3865	0.4236 ug/Kg	97
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.27	43	23047	6.6129 ug/Kg#	95
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	5.82	83	7857	0.4727 ug/Kg#	1
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	0.00	83		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

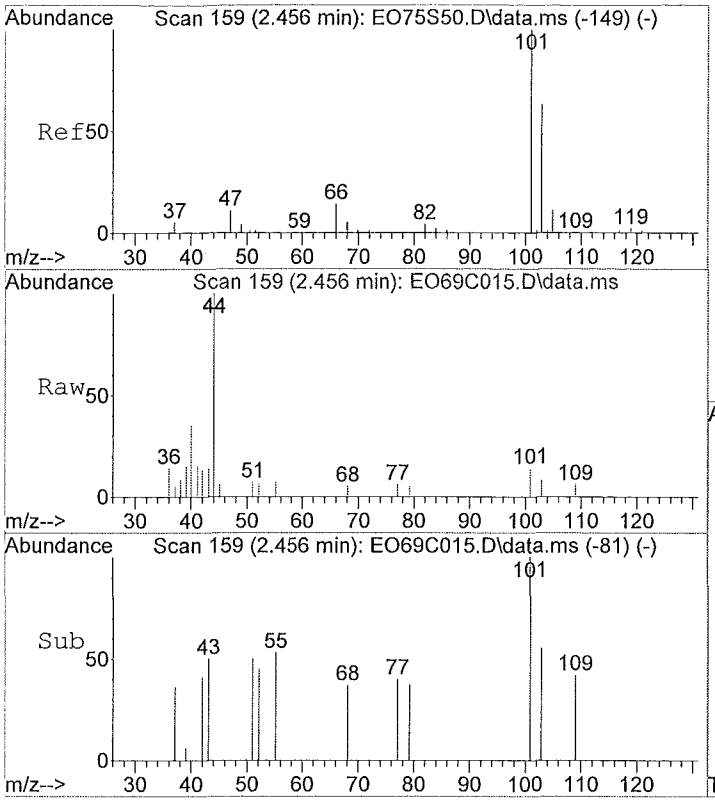
Data File : C:\msdchem\1\Data by...E\26MAY15E\EO69C015.D Vial: 20
Acq Time : 05/27/2015 02:50 Operator: CQC
Sample : 1514293015 F9L70 Inst : 5975-E
Misc : 1514293 5.56 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:30:30 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.02	91	25706	0.6046 ug/Kg	98
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

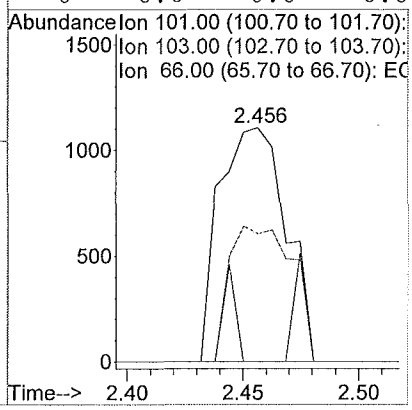
(#) = qualifier out of range (m) = manual integration

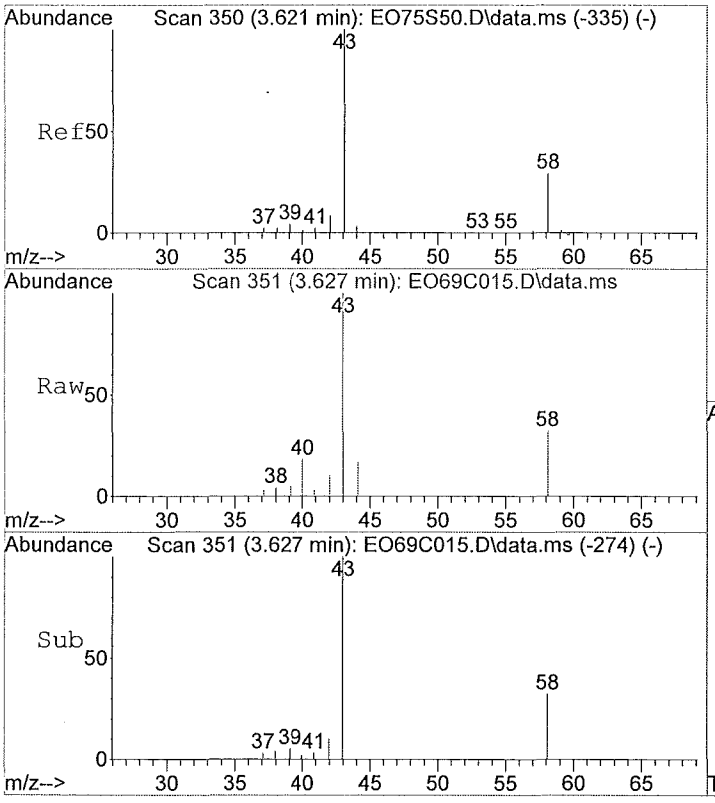


#9
Trichlorofluoromethane
Concen: 0.17 ug/Kg
RT: 2.46 min Scan# 159
Delta R.T. 0.00 min
Lab File: EO69C015.D
Acq: 05/27/2015 02:50

Tgt Ion:101 Resp: 2217

Ion	Ratio	Lower	Upper
101	100		
103	55.0	32.5	97.4
66	0.0	7.3	22.0#
0	0.0	0.0	0.0

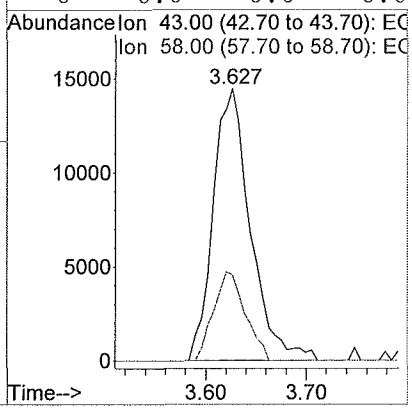


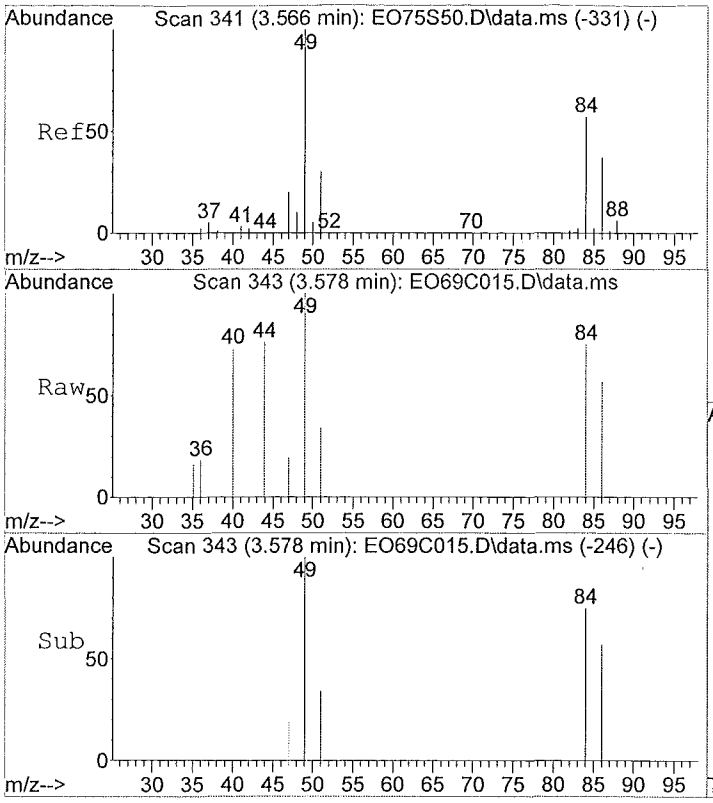


#13
Acetone
Concen: 12.29 ug/Kg
RT: 3.63 min Scan# 351
Delta R.T. 0.01 min
Lab File: EO69C015.D
Acq: 05/27/2015 02:50

Tgt Ion:43 Resp: 37309

Ion	Ratio	Lower	Upper
43	100		
58	27.7	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

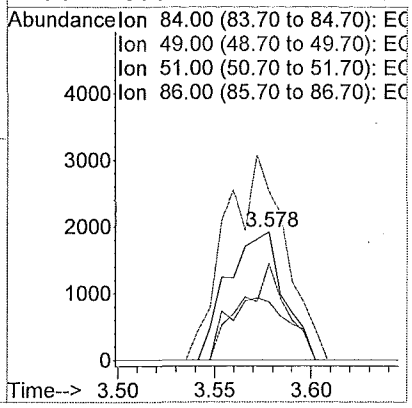


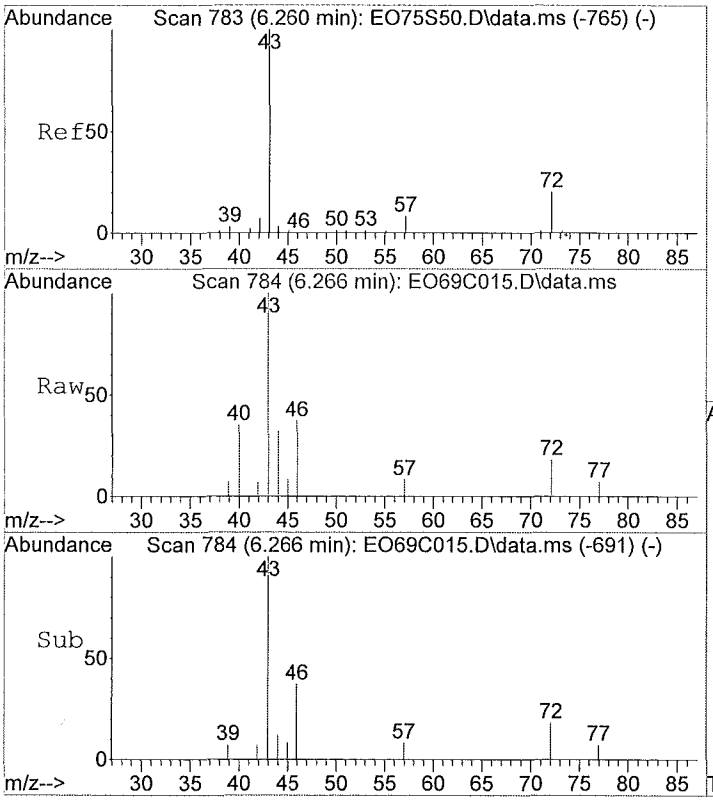


#16
Methylene chloride
Concen: 0.42 ug/Kg
RT: 3.58 min Scan# 343
Delta R.T. 0.01 min
Lab File: EO69C015.D
Acq: 05/27/2015 02:50

Tgt Ion:84 Resp: 3865

Ion	Ratio	Lower	Upper
84	100		
49	171.7	84.4	253.2
51	53.6	25.7	77.0
86	60.7	31.6	95.0

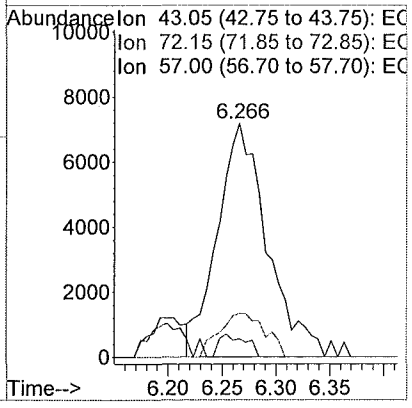


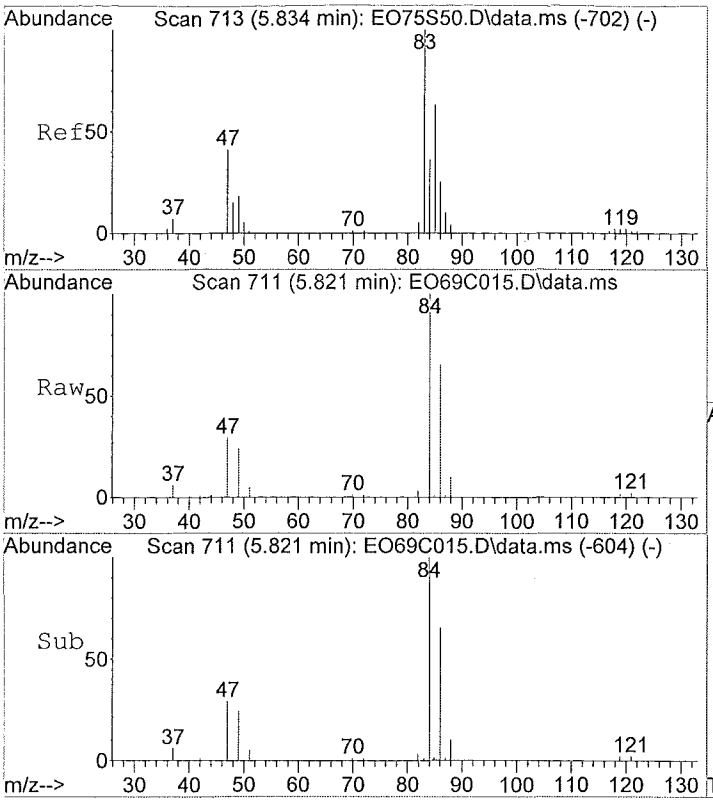


#21
2-Butanone
Concen: 6.61 ug/Kg
RT: 6.27 min Scan# 784
Delta R.T. 0.01 min
Lab File: EO69C015.D
Acq: 05/27/2015 02:50

Tgt Ion:43.05 Resp: 23047

Ion	Ratio	Lower	Upper
43	100		
72	17.3	15.5	23.3
57	5.3	6.2	9.4#
0	0.0	0.0	0.0

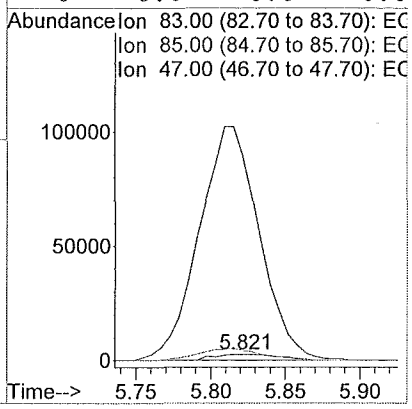


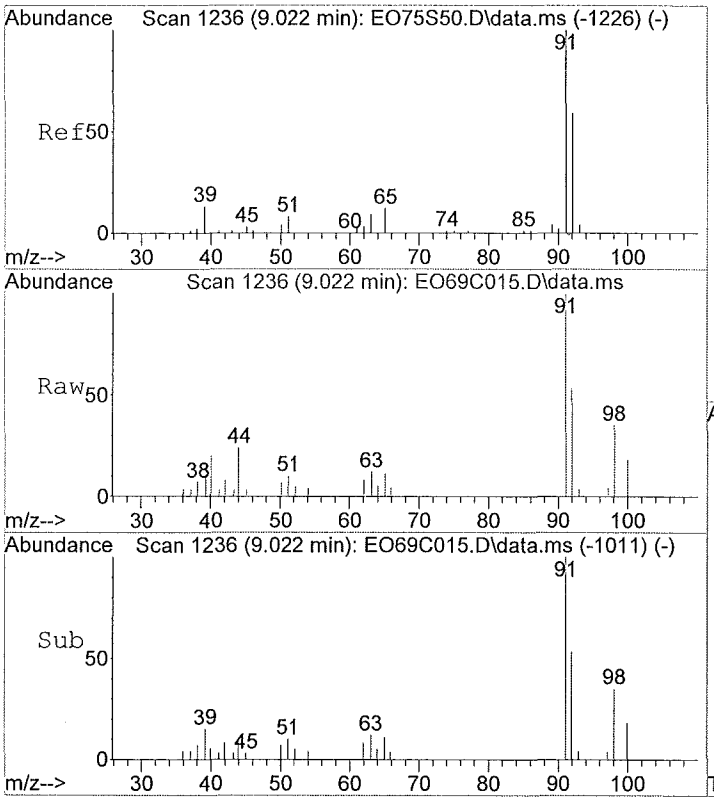


#24
Chloroform
Concen: 0.47 ug/Kg
RT: 5.82 min Scan# 711
Delta R.T. -0.01 min
Lab File: EO69C015.D
Acq: 05/27/2015 02:50

Tgt Ion:83 Resp: 7857

Ion	Ratio	Lower	Upper
83	100		
85	194.6	32.5	97.5#
47	3645.9	31.1	93.5#
0	0.0	0.0	0.0

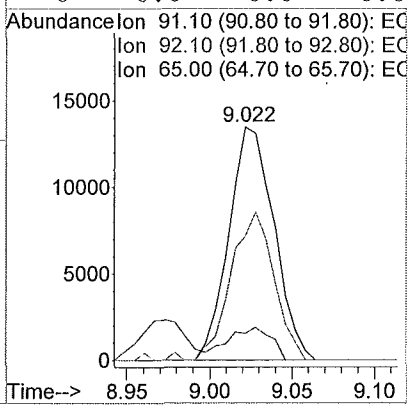




#48
Toluene
Concen: 0.60 ug/Kg
RT: 9.02 min Scan# 1236
Delta R.T. 0.00 min
Lab File: EO69C015.D
Acq: 05/27/2015 02:50

Tgt Ion:91.1 Resp: 25706

Ion	Ratio	Lower	Upper
91	100		
92	60.3	47.2	70.8
65	13.5	9.6	14.4
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293016

Sample wt/vol: 6.24 (g/mL) g Lab File ID: E070C016

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 15. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	4.7	U
74-87-3	Chloromethane	4.7	U
75-01-4	Vinyl chloride	4.7	U
74-83-9	Bromomethane	4.7	U
75-00-3	Chloroethane	4.7	U
75-69-4	Trichlorofluoromethane	4.7	U
75-35-4	1,1-Dichloroethene	4.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.7	U
67-64-1	Acetone	7.2	JB
75-15-0	Carbon disulfide	4.7	U
79-20-9	Methyl acetate	4.7	U
75-09-2	Methylene chloride	0.34	JB
156-60-5	trans-1,2-Dichloroethene	4.7	U
1634-04-4	Methyl tert-butyl ether	4.7	U
75-34-3	1,1-Dichloroethane	4.7	U
156-59-2	cis-1,2-Dichloroethene	4.7	U
78-93-3	2-Butanone	9.4	U
74-97-5	Bromochloromethane	4.7	U
67-66-3	Chloroform	0.45	J
71-55-6	1,1,1-Trichloroethane	4.7	U
110-82-7	Cyclohexane	4.7	U
56-23-5	Carbon tetrachloride	4.7	U
71-43-2	Benzene	4.7	U
107-06-2	1,2-Dichloroethane	4.7	U
123-91-1	1,4-Dioxane	94.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293016

Sample wt/vol: 6.24 (g/mL) g Lab File ID: E070C016

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 15. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	4.7	U
108-87-2	Methylcyclohexane	4.7	U
78-87-5	1,2-Dichloropropane	4.7	U
75-27-4	Bromodichloromethane	4.7	U
10061-01-5	cis-1,3-Dichloropropene	4.7	U
108-10-1	4-Methyl-2-Pentanone	9.4	U
108-88-3	Toluene	1.1	J
10061-02-6	trans-1,3-Dichloropropene	4.7	U
79-00-5	1,1,2-Trichloroethane	4.7	U
127-18-4	Tetrachloroethene	4.7	U
591-78-6	2-Hexanone	9.4	U
124-48-1	Dibromochloromethane	4.7	U
106-93-4	1,2-Dibromoethane	4.7	U
108-90-7	Chlorobenzene	4.7	U
100-41-4	Ethylbenzene	4.7	U
95-47-6	o-Xylene	4.7	U
179601-23-1	m,p-Xylene	4.7	U
100-42-5	Styrene	4.7	U
75-25-2	Bromoform	4.7	U
98-82-8	Isopropylbenzene	4.7	U
79-34-5	1,1,2,2-Tetrachloroethane	4.7	U
541-73-1	1,3-Dichlorobenzene	4.7	U
106-46-7	1,4-Dichlorobenzene	4.7	U
95-50-1	1,2-Dichlorobenzene	4.7	U
96-12-8	1,2-Dibromo-3-chloropropane	4.7	U
120-82-1	1,2,4-Trichlorobenzene	4.7	U
87-61-6	1,2,3-Trichlorobenzene	4.7	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L71

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293016
Sample wt/vol: 6.24 (g/mL) g Lab File ID: E070C016
Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015
% Moisture: not dec. 15. Date Analyzed: 05/27/2015
GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

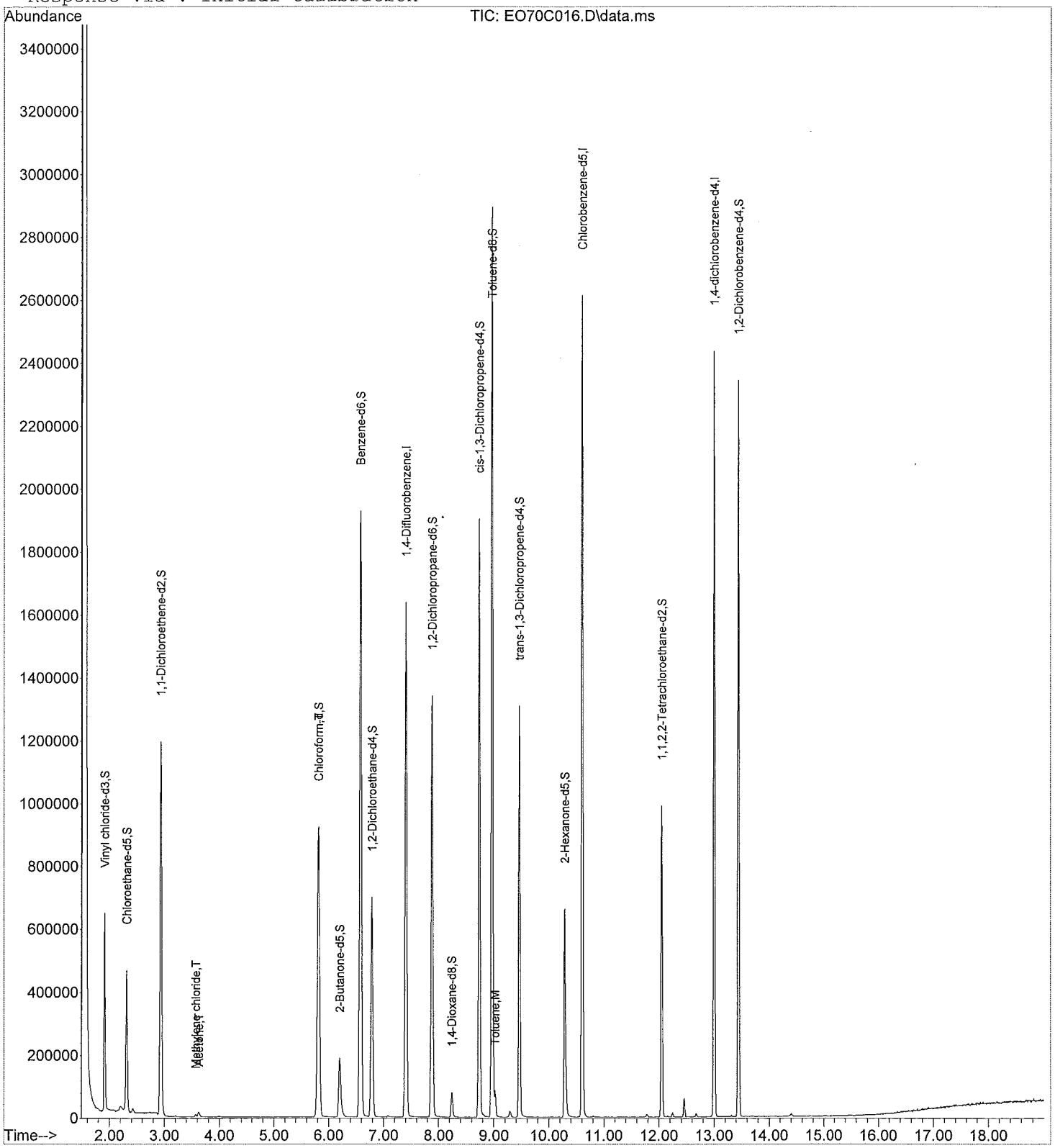
Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO70C016.D Vial: 21
Acq Time : 05/27/2015 03:14 Operator: CQC
Sample : 1514293016 F9L71 Inst : 5975-E
Misc : 1514293 6.24 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:31:12 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.15



Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO70C016.D Vial: 21
Acq Time : 05/27/2015 03:14 Operator: CQC
Sample : 1514293016 F9L71 Inst : 5975-E
Misc : 1514293 6.24 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 00:31:12 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1416563	50.0000 ug/Kg	78.55
30) Chlorobenzene-d5	10.61	117	1390021	50.0000 ug/Kg	84.20
62) 1,4-dichlorobenzene-d4	13.00	152	611286	50.0000 ug/Kg	70.25
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	530450	48.1130 ug/Kg	96.23%
8) Chloroethane-d5	2.32	69	427110	50.8222 ug/Kg	101.64%
11) 1,1-Dichloroethene-d2	2.93	63	938457	37.5134 ug/Kg	75.03%
22) 2-Butanone-d5	6.20	46	306799	91.6681 ug/Kg	91.67%
25) Chloroform-d	5.82	84	1032732	52.4268 ug/Kg	104.85%
27) 1,2-Dichloroethane-d4	6.78	65	601429	57.6600 ug/Kg	115.32%
29) 1,4-Dioxane-d8	8.24	96	56957	1102.8500 ug/Kg	110.29%
35) Benzene-d6	6.58	84	2060593	49.2781 ug/Kg	98.56%
39) 1,2-Dichloropropane-d6	7.88	67	637806	52.1582 ug/Kg	104.32%
42) cis-1,3-Dichloropropene-d4	8.74	79	1074255	49.1377 ug/Kg	98.28%
44) trans-1,3-Dichloropropene-	9.46	79	663140	47.8737 ug/Kg	95.75%
49) Toluene-d8	8.97	98	1934721	50.2680 ug/Kg	100.54%
52) 2-Hexanone-d5	10.28	63	193456	85.6190 ug/Kg	85.62%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	479661	48.5352 ug/Kg	97.07%
67) 1,2-Dichlorobenzene-d4	13.44	152	601538	52.7747 ug/Kg	105.55%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	24791	7.6244 ug/Kg	97
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	3499	0.3580 ug/Kg	94
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	5.82	83	8518	0.4785 ug/Kg#	1
26) 1,2-Dichloroethane	0.00	62		Not Detected	
28) 1,4-Dioxane	0.00	88		Not Detected	
31) 1,1,1-Trichloroethane	0.00	97		Not Detected	
32) Cyclohexane	0.00	56		Not Detected	
33) Carbon tetrachloride	0.00	117		Not Detected	
34) Benzene	0.00	78		Not Detected	
36) Trichloroethene	0.00	130		Not Detected	
37) Methylcyclohexane	0.00	83		Not Detected	
38) 1,2-Dichloropropane	0.00	63		Not Detected	

(#) = qualifier out of range (m) = manual integration

20155

Quantitation Report

Data File : C:\msdchem\1\Data by...E\26MAY15E\EO70C016.D Vial: 21
Acq Time : 05/27/2015 03:14 Operator: CQC
Sample : 1514293016 F9L71 Inst : 5975-E
Misc : 1514293 6.24 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

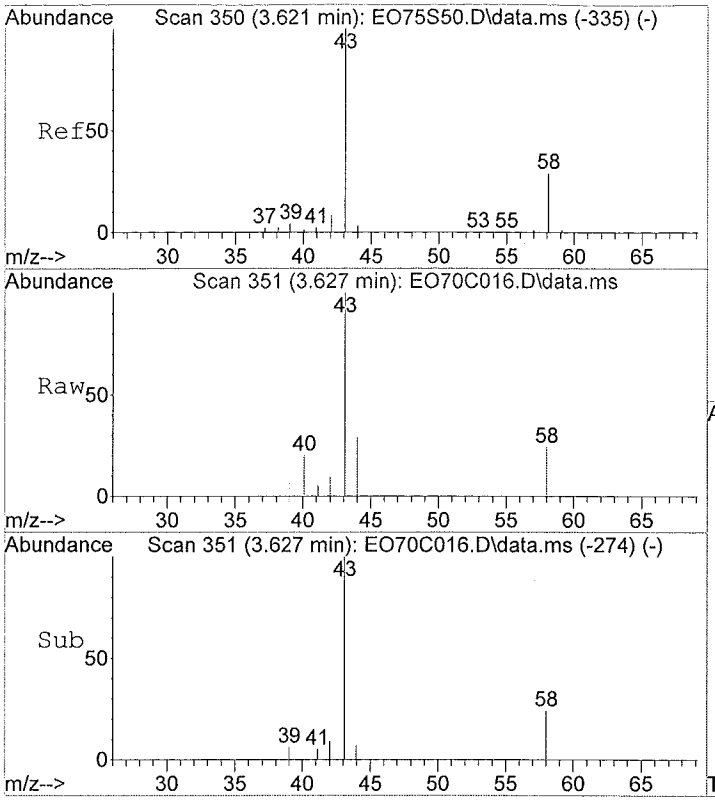
Quant Time: Jun 09 00:31:12 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.02	91	54851	1.2183 ug/Kg	97
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

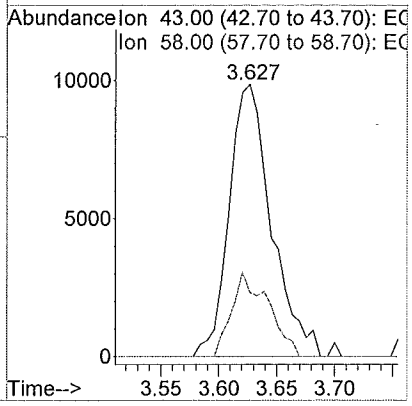
00160

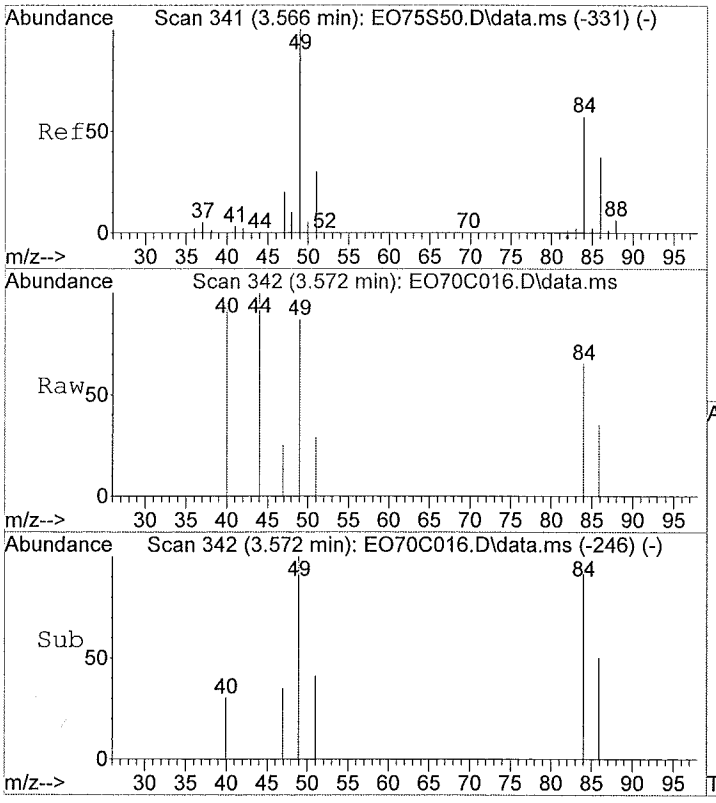


#13
Acetone
Concen: 7.62 ug/Kg
RT: 3.63 min Scan# 351
Delta R.T. 0.01 min
Lab File: EO70C016.D
Acq: 05/27/2015 03:14

Tgt Ion:43 Resp: 24791

Ion	Ratio	Lower	Upper
43	100		
58	26.7	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

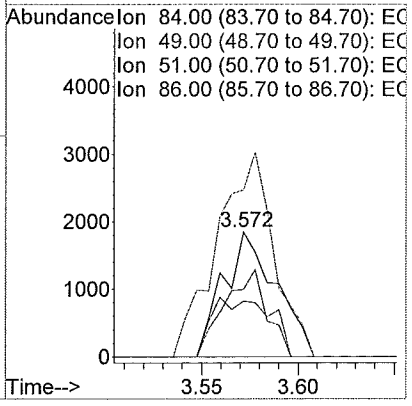


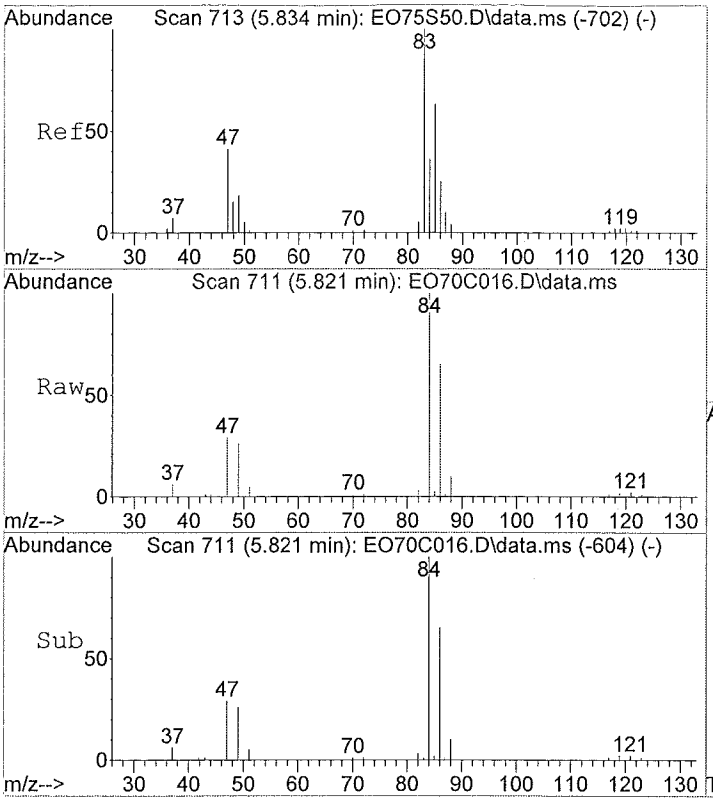


#16
Methylene chloride
Concen: 0.36 ug/Kg
RT: 3.57 min Scan# 342
Delta R.T. 0.00 min
Lab File: EO70C016.D
Acq: 05/27/2015 03:14

Tgt Ion:84 Resp: 3499

Ion	Ratio	Lower	Upper
84	100		
49	176.9	84.4	253.2
51	52.5	25.7	77.0
86	55.8	31.6	95.0

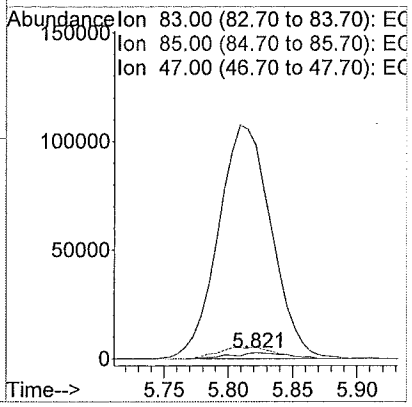


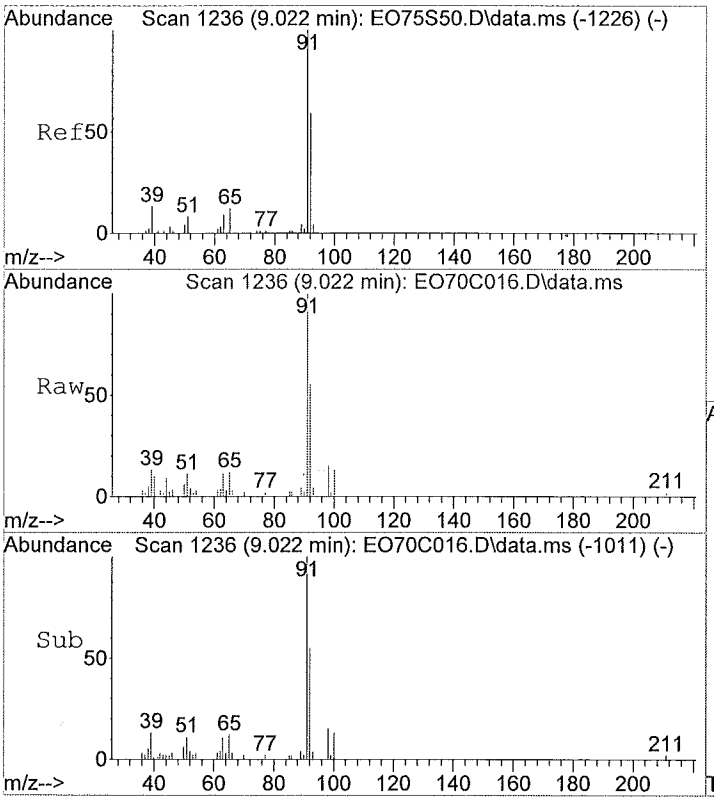


#24
Chloroform
Concen: 0.48 ug/Kg
RT: 5.82 min Scan# 711
Delta R.T. -0.01 min
Lab File: EO70C016.D
Acq: 05/27/2015 03:14

Tgt Ion:83 Resp: 8518

Ion	Ratio	Lower	Upper
83	100		
85	190.7	32.5	97.5#
47	3618.6	31.1	93.5#
0	0.0	0.0	0.0

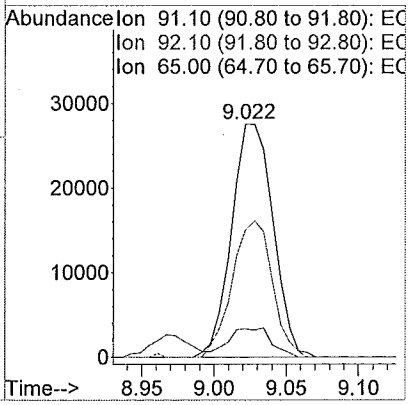




#48
Toluene
Concen: 1.22 ug/Kg
RT: 9.02 min Scan# 1236
Delta R.T. 0.00 min
Lab File: EO70C016.D
Acq: 05/27/2015 03:14

Tgt Ion:91.1 Resp: 54851

Ion	Ratio	Lower	Upper
91	100		
92	56.4	47.2	70.8
65	12.8	9.6	14.4
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293017

Sample wt/vol: 6.25 (g/mL) g Lab File ID: E094C017

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 15. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	4.7	U
74-87-3	Chloromethane	4.7	U
75-01-4	Vinyl chloride	4.7	U
74-83-9	Bromomethane	4.7	U
75-00-3	Chloroethane	4.7	U
75-69-4	Trichlorofluoromethane	0.14	J
75-35-4	1,1-Dichloroethene	4.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.7	U
67-64-1	Acetone	4.0	J
75-15-0	Carbon disulfide	4.7	U
79-20-9	Methyl acetate	4.7	U
75-09-2	Methylene chloride	0.44	JB
156-60-5	trans-1,2-Dichloroethene	4.7	U
1634-04-4	Methyl tert-butyl ether	0.17	JB
75-34-3	1,1-Dichloroethane	4.7	U
156-59-2	cis-1,2-Dichloroethene	4.7	U
78-93-3	2-Butanone	6.6	J
74-97-5	Bromochloromethane	4.7	U
67-66-3	Chloroform	4.7	U
71-55-6	1,1,1-Trichloroethane	4.7	U
110-82-7	Cyclohexane	4.7	U
56-23-5	Carbon tetrachloride	4.7	U
71-43-2	Benzene	4.7	U
107-06-2	1,2-Dichloroethane	4.7	U
123-91-1	1,4-Dioxane	94.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293017

Sample wt/vol: 6.25 (g/mL) g Lab File ID: E094C017

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 15. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	4.7	U
108-87-2	Methylcyclohexane	4.7	U
78-87-5	1,2-Dichloropropane	4.7	U
75-27-4	Bromodichloromethane	4.7	U
10061-01-5	cis-1,3-Dichloropropene	4.7	U
108-10-1	4-Methyl-2-Pentanone	9.4	U
108-88-3	Toluene	0.54	J
10061-02-6	trans-1,3-Dichloropropene	4.7	U
79-00-5	1,1,2-Trichloroethane	4.7	U
127-18-4	Tetrachloroethene	4.7	U
591-78-6	2-Hexanone	9.4	U
124-48-1	Dibromochloromethane	4.7	U
106-93-4	1,2-Dibromoethane	4.7	U
108-90-7	Chlorobenzene	4.7	U
100-41-4	Ethylbenzene	4.7	U
95-47-6	o-Xylene	4.7	U
179601-23-1	m,p-Xylene	4.7	U
100-42-5	Styrene	4.7	U
75-25-2	Bromoform	4.7	U
98-82-8	Isopropylbenzene	4.7	U
79-34-5	1,1,2,2-Tetrachloroethane	4.7	U
541-73-1	1,3-Dichlorobenzene	4.7	U
106-46-7	1,4-Dichlorobenzene	4.7	U
95-50-1	1,2-Dichlorobenzene	4.7	U
96-12-8	1,2-Dibromo-3-chloropropane	4.7	U
120-82-1	1,2,4-Trichlorobenzene	4.7	U
87-61-6	1,2,3-Trichlorobenzene	4.7	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L72

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293017
Sample wt/vol: 6.25 (g/mL) g Lab File ID: E094C017
Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015
% Moisture: not dec. 15. Date Analyzed: 05/27/2015
GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
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16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

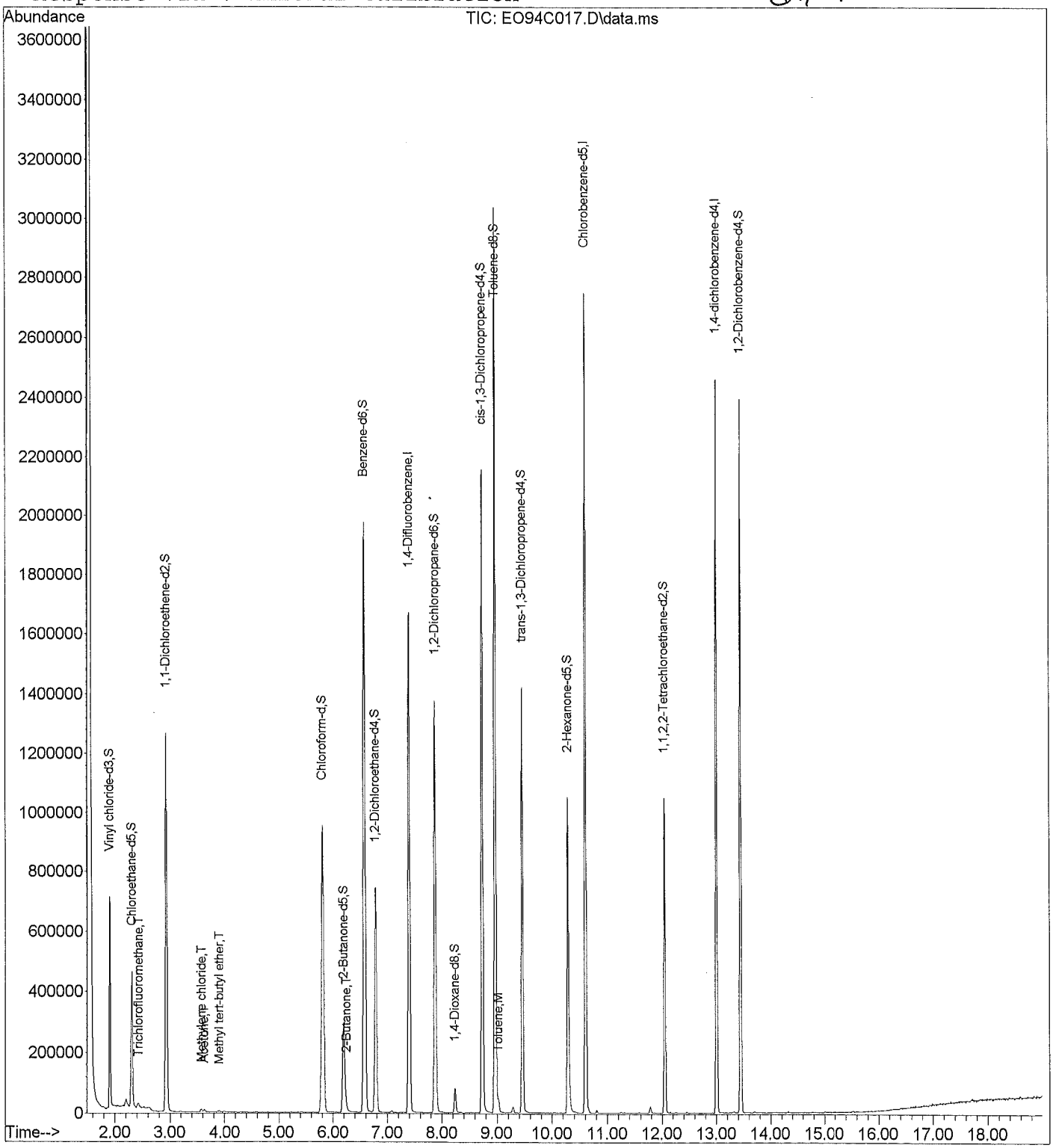
Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO94C017.D Vial: 15
Acq Time : 05/27/2015 20:05 Operator: CQC
Sample : 1514293017 F9L72 Inst : 5975-E
Misc : 1514293 6.25 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:35:42 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.15



20166

Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO94C017.D Vial: 15
Acq Time : 05/27/2015 20:05 Operator: CQC
Sample : 1514293017 F9L72 Inst : 5975-E
Misc : 1514293 6.25 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:35:42 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1458438	50.0000 ug/Kg	80.87
30) Chlorobenzene-d5	10.60	117	1417468	50.0000 ug/Kg	85.86
62) 1,4-dichlorobenzene-d4	13.00	152	618738	50.0000 ug/Kg	71.11
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	543802	47.9079 ug/Kg	95.82%
8) Chloroethane-d5	2.30	69	432572	49.9943 ug/Kg	99.99%
11) 1,1-Dichloroethene-d2	2.93	63	971295	37.7113 ug/Kg	75.42%
22) 2-Butanone-d5	6.19	46	462072	134.0979 ug/Kg	134.10%
25) Chloroform-d	5.80	84	1058238	52.1791 ug/Kg	104.36%
27) 1,2-Dichloroethane-d4	6.78	65	630926	58.7512 ug/Kg	117.50%
29) 1,4-Dioxane-d8	8.24	96	56226	1057.4369 ug/Kg	105.74%
35) Benzene-d6	6.57	84	2128701	49.9212 ug/Kg	99.84%
39) 1,2-Dichloropropane-d6	7.88	67	651231	52.2248 ug/Kg	104.45%
42) cis-1,3-Dichloropropene-d4	8.74	79	1186169	53.2061 ug/Kg	106.41%
44) trans-1,3-Dichloropropene-	9.46	79	740500	52.4233 ug/Kg	104.85%
49) Toluene-d8	8.97	98	1974344	50.3042 ug/Kg	100.61%
52) 2-Hexanone-d5	10.28	63	291003	126.2971 ug/Kg	126.30%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	513101	50.9135 ug/Kg	101.83%
67) 1,2-Dichlorobenzene-d4	13.44	152	604950	52.4348 ug/Kg	104.87%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	2.44	101	2240	0.1541 ug/Kg#	79
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.62	43	14110	4.2149 ug/Kg	96
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	4707	0.4678 ug/Kg	90
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	3.90	73	3844	0.1771 ug/Kg	87
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.25	43	26885	6.9960 ug/Kg#	73
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

00167

Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO94C017.D Vial: 15
Acq Time : 05/27/2015 20:05 Operator: CQC
Sample : 1514293017 F9L72 Inst : 5975-E
Misc : 1514293 6.25 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

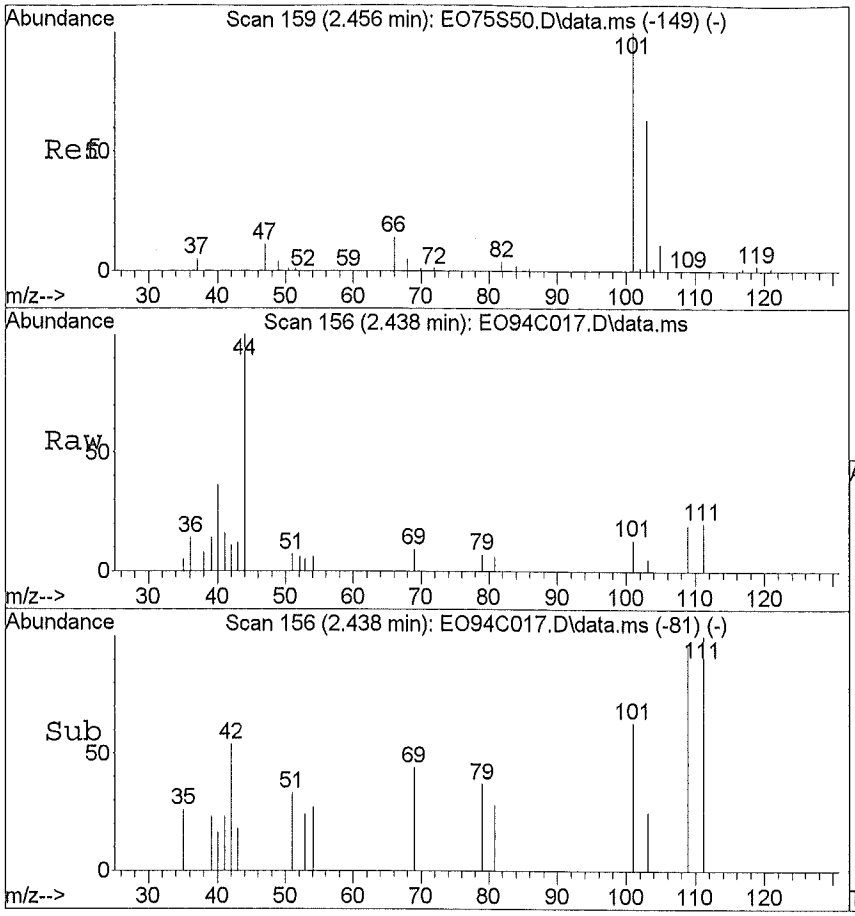
Quant Time: Jun 09 22:35:42 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	130		Not Detected	
37)	Methylcyclohexane	0.00	83		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.02	91	26313	0.5731 ug/Kg	95
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

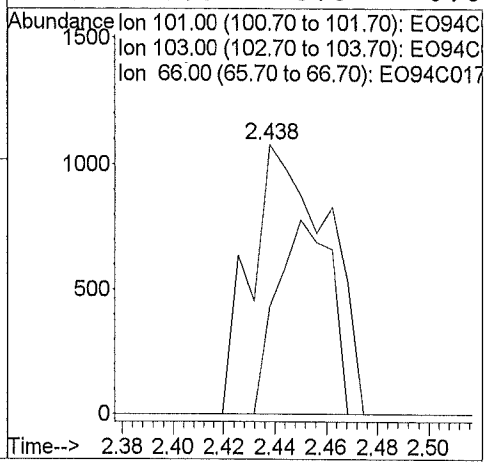
00168

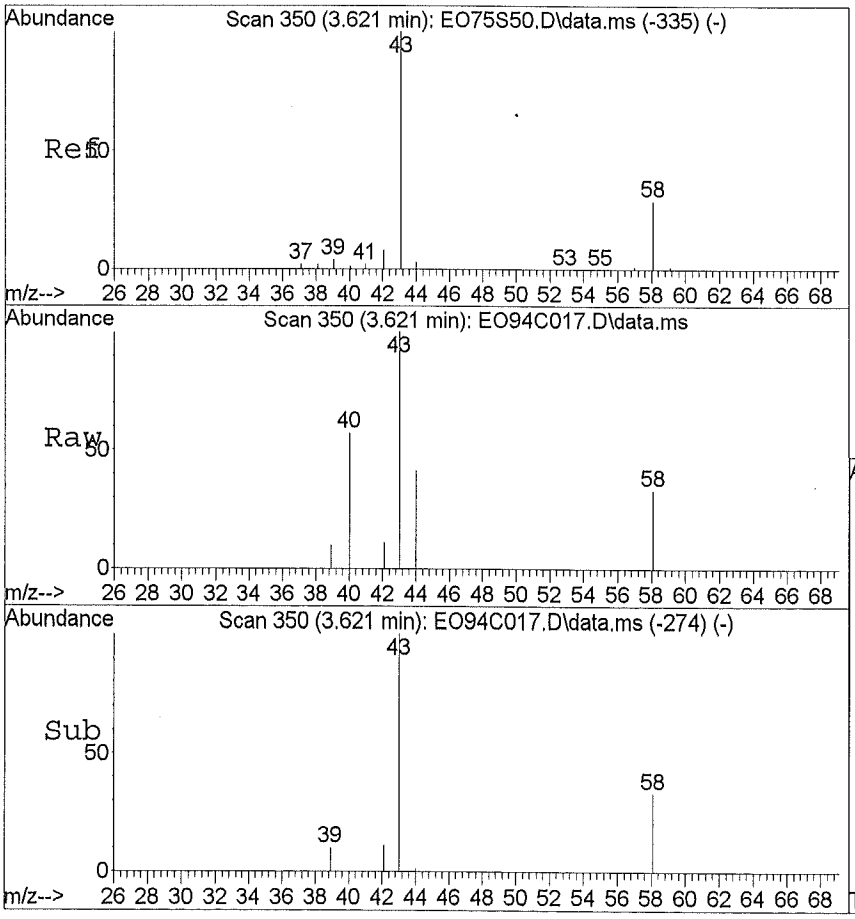


#9
Trichlorofluoromethane
Concen: 0.15 ug/Kg
RT: 2.44 min Scan# 156
Delta R.T. -0.02 min
Lab File: EO94C017.D
Acq: 05/27/2015 20:05

Tgt Ion:101 Resp: 2240

Ion	Ratio	Lower	Upper
101	100		
103	51.3	32.5	97.4
66	0.0	7.3	22.0#
0	0.0	0.0	0.0

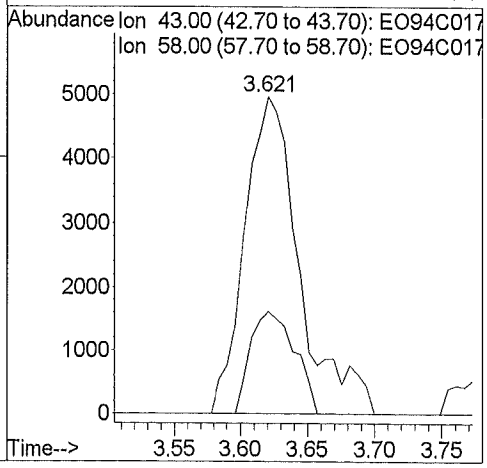


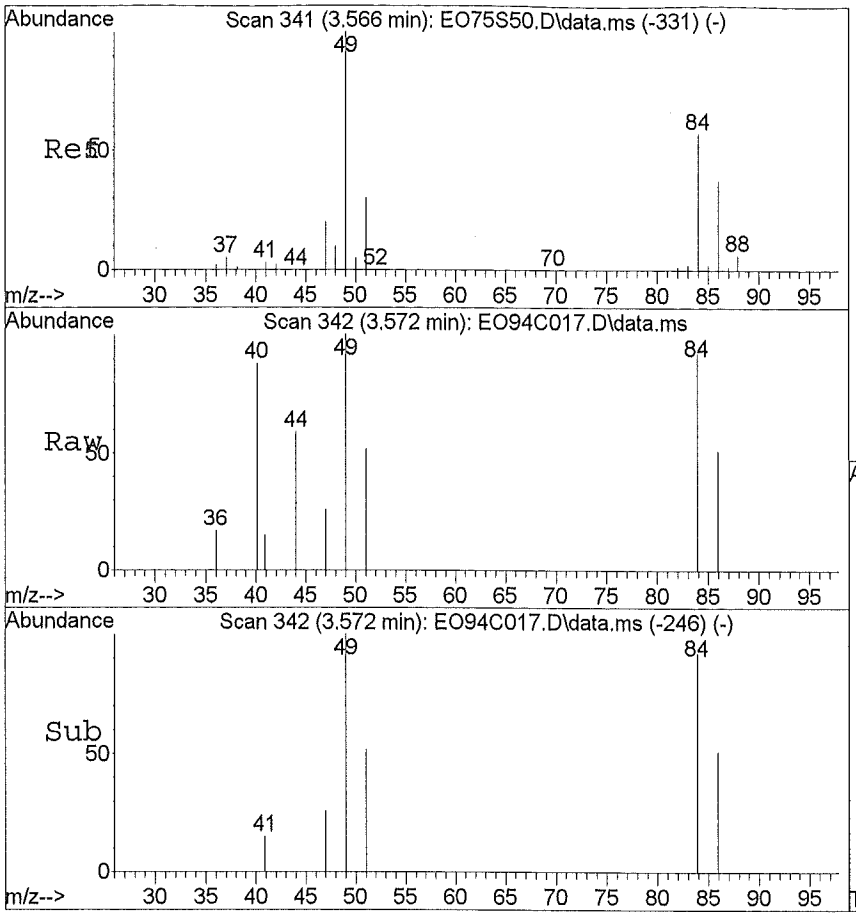


#13
Acetone
Concen: 4.21 ug/Kg
RT: 3.62 min Scan# 350
Delta R.T. 0.00 min
Lab File: EO94C017.D
Acq: 05/27/2015 20:05

Tgt Ion:43 Resp: 14110

Ion	Ratio	Lower	Upper
43	100		
58	26.3	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

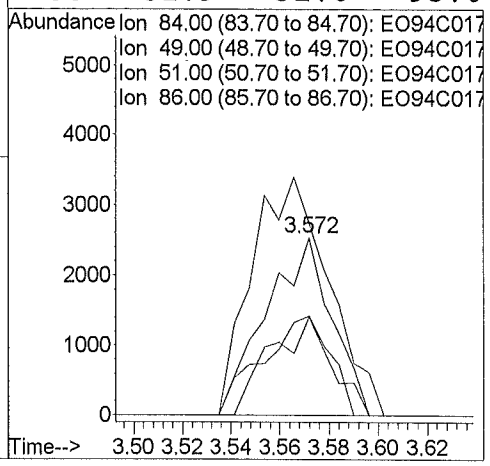


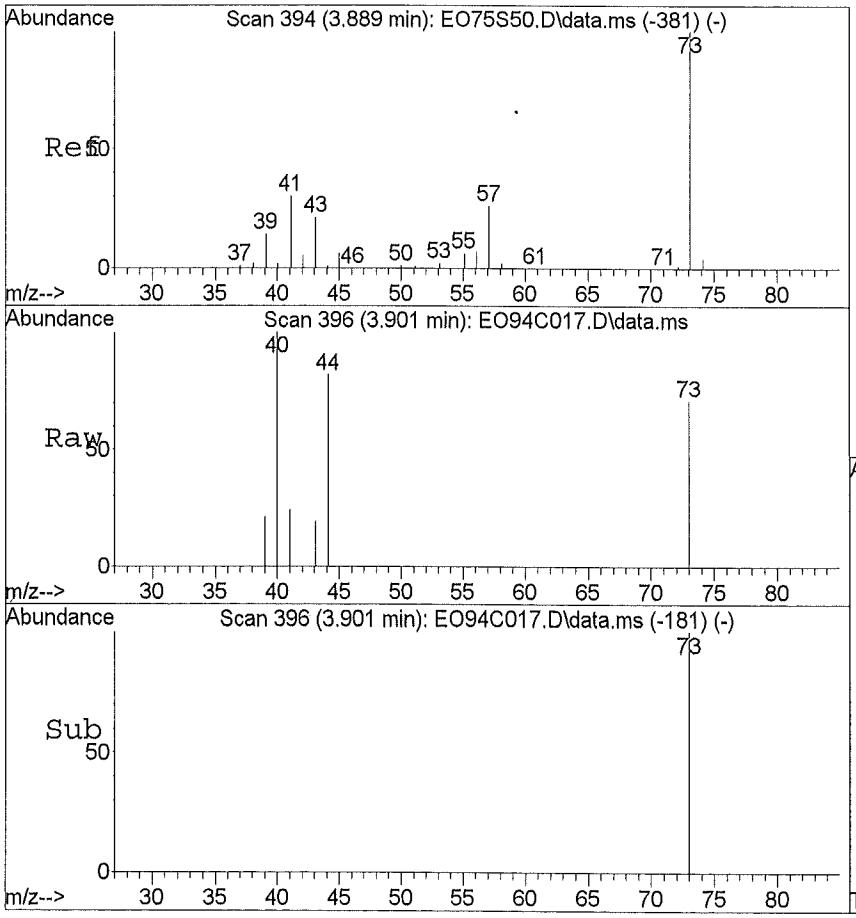


#16
Methylene chloride
Concen: 0.47 ug/Kg
RT: 3.57 min Scan# 342
Delta R.T. 0.00 min
Lab File: EO94C017.D
Acq: 05/27/2015 20:05

Tgt Ion:84 Resp: 4707

Ion	Ratio	Lower	Upper
84	100		
49	156.9	84.4	253.2
51	57.7	25.7	77.0
86	51.9	31.6	95.0

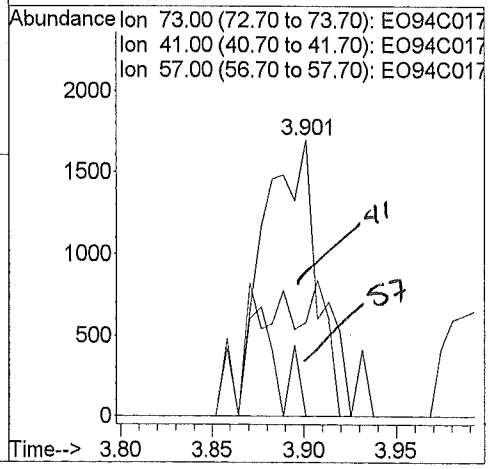


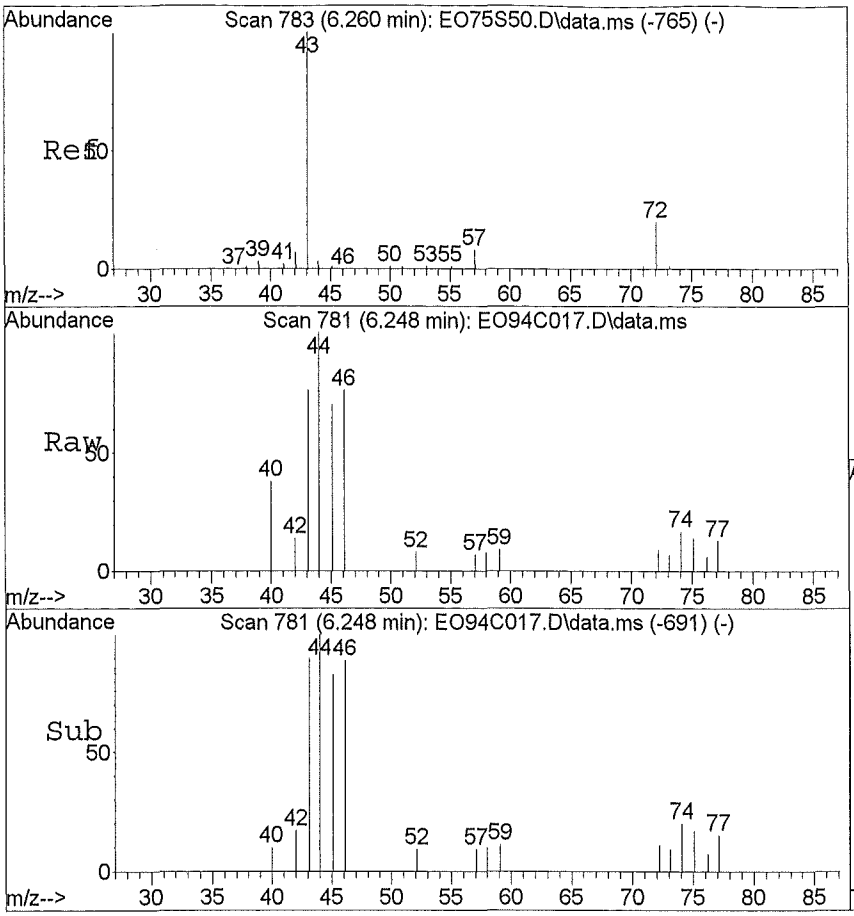


#18
Methyl tert-butyl ether
Concen: 0.18 ug/Kg
RT: 3.90 min Scan# 396
Delta R.T. 0.01 min
Lab File: EO94C017.D
Acq: 05/27/2015 20:05

Tgt Ion:73 Resp: 3844

Ion	Ratio	Lower	Upper
73	100		
41	22.4	14.5	43.5
57	20.2	13.5	40.4
0	0.0	0.0	0.0

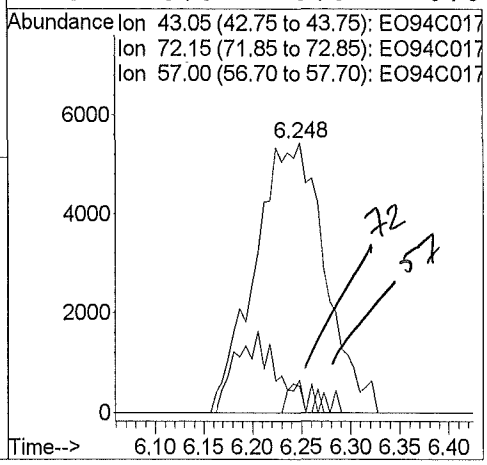


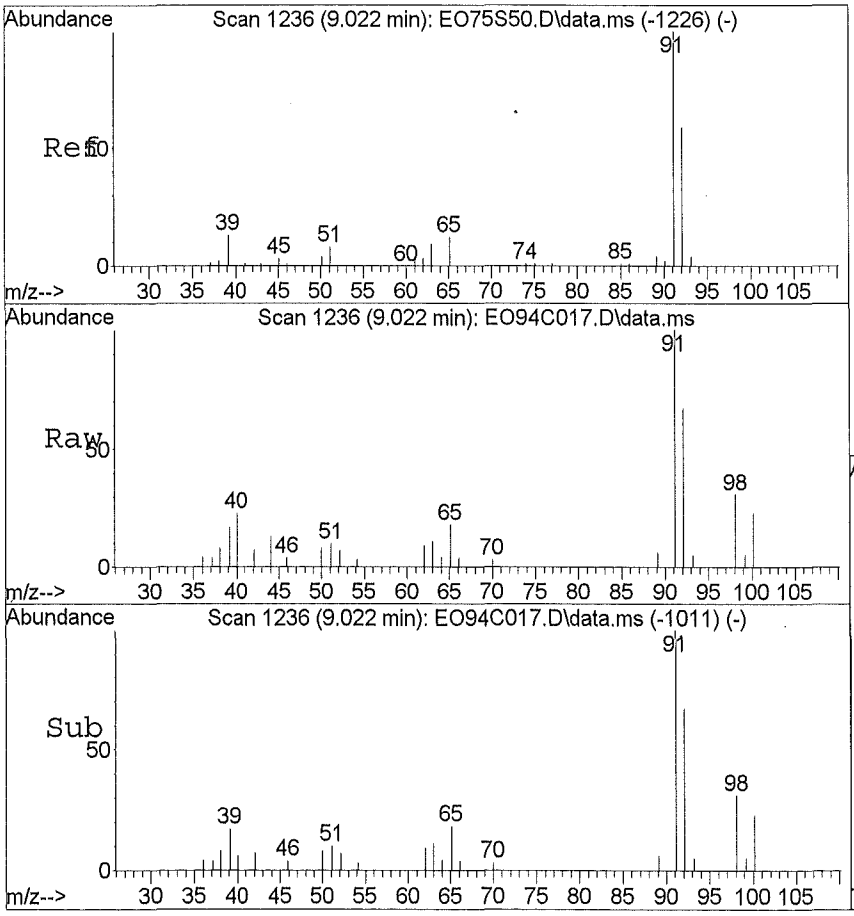


#21
2-Butanone
Concen: 7.00 ug/Kg
RT: 6.25 min Scan# 781
Delta R.T. -0.01 min
Lab File: EO94C017.D
Acq: 05/27/2015 20:05

Tgt Ion:43.05 Resp: 26885

Ion	Ratio	Lower	Upper
43	100		
72	2.1	15.5	23.3#
57	8.0	6.2	9.4
0	0.0	0.0	0.0

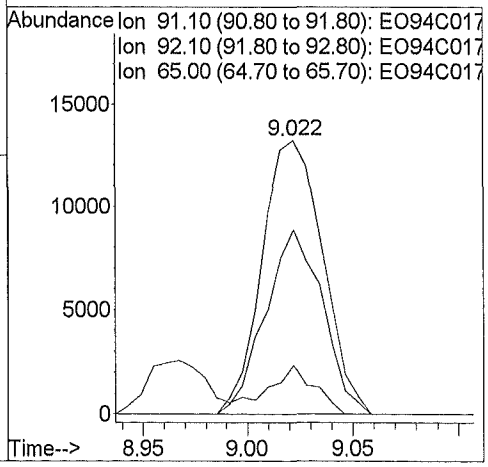




#48
Toluene
Concen: 0.57 ug/Kg
RT: 9.02 min Scan# 1236
Delta R.T. 0.00 min
Lab File: EO94C017.D
Acq: 05/27/2015 20:05

Tgt Ion:91.1 Resp: 26313

Ion	Ratio	Lower	Upper
91	100		
92	63.1	47.2	70.8
65	13.7	9.6	14.4
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293018

Sample wt/vol: 5.99 (g/mL) g Lab File ID: E095C018

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 14. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	4.8	U
74-87-3	Chloromethane	4.8	U
75-01-4	Vinyl chloride	4.8	U
74-83-9	Bromomethane	4.8	U
75-00-3	Chloroethane	4.8	U
75-69-4	Trichlorofluoromethane	4.8	U
75-35-4	1,1-Dichloroethene	4.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.8	U
67-64-1	Acetone	5.6	J
75-15-0	Carbon disulfide	4.8	U
79-20-9	Methyl acetate	4.8	U
75-09-2	Methylene chloride	0.49	JB
156-60-5	trans-1,2-Dichloroethene	4.8	U
1634-04-4	Methyl tert-butyl ether	4.8	U
75-34-3	1,1-Dichloroethane	4.8	U
156-59-2	cis-1,2-Dichloroethene	4.8	U
78-93-3	2-Butanone	3.2	J
74-97-5	Bromochloromethane	4.8	U
67-66-3	Chloroform	4.8	U
71-55-6	1,1,1-Trichloroethane	4.8	U
110-82-7	Cyclohexane	4.8	U
56-23-5	Carbon tetrachloride	4.8	U
71-43-2	Benzene	4.8	U
107-06-2	1,2-Dichloroethane	4.8	U
123-91-1	1,4-Dioxane	97.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293018

Sample wt/vol: 5.99 (g/mL) g Lab File ID: E095C018

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 14. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	4.8	U
108-87-2	Methylcyclohexane	4.8	U
78-87-5	1,2-Dichloropropane	4.8	U
75-27-4	Bromodichloromethane	4.8	U
10061-01-5	cis-1,3-Dichloropropene	4.8	U
108-10-1	4-Methyl-2-Pentanone	9.7	U
108-88-3	Toluene	0.41	J
10061-02-6	trans-1,3-Dichloropropene	4.8	U
79-00-5	1,1,2-Trichloroethane	4.8	U
127-18-4	Tetrachloroethene	4.8	U
591-78-6	2-Hexanone	9.7	U
124-48-1	Dibromochloromethane	4.8	U
106-93-4	1,2-Dibromoethane	4.8	U
108-90-7	Chlorobenzene	4.8	U
100-41-4	Ethylbenzene	4.8	U
95-47-6	o-Xylene	4.8	U
179601-23-1	m,p-Xylene	4.8	U
100-42-5	Styrene	4.8	U
75-25-2	Bromoform	4.8	U
98-82-8	Isopropylbenzene	4.8	U
79-34-5	1,1,2,2-Tetrachloroethane	4.8	U
541-73-1	1,3-Dichlorobenzene	4.8	U
106-46-7	1,4-Dichlorobenzene	4.8	U
95-50-1	1,2-Dichlorobenzene	4.8	U
96-12-8	1,2-Dibromo-3-chloropropane	4.8	U
120-82-1	1,2,4-Trichlorobenzene	4.8	U
87-61-6	1,2,3-Trichlorobenzene	4.8	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L73

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293018
Sample wt/vol: 5.99 (g/mL) g Lab File ID: E095C018
Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015
% Moisture: not dec. 14. Date Analyzed: 05/27/2015
GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

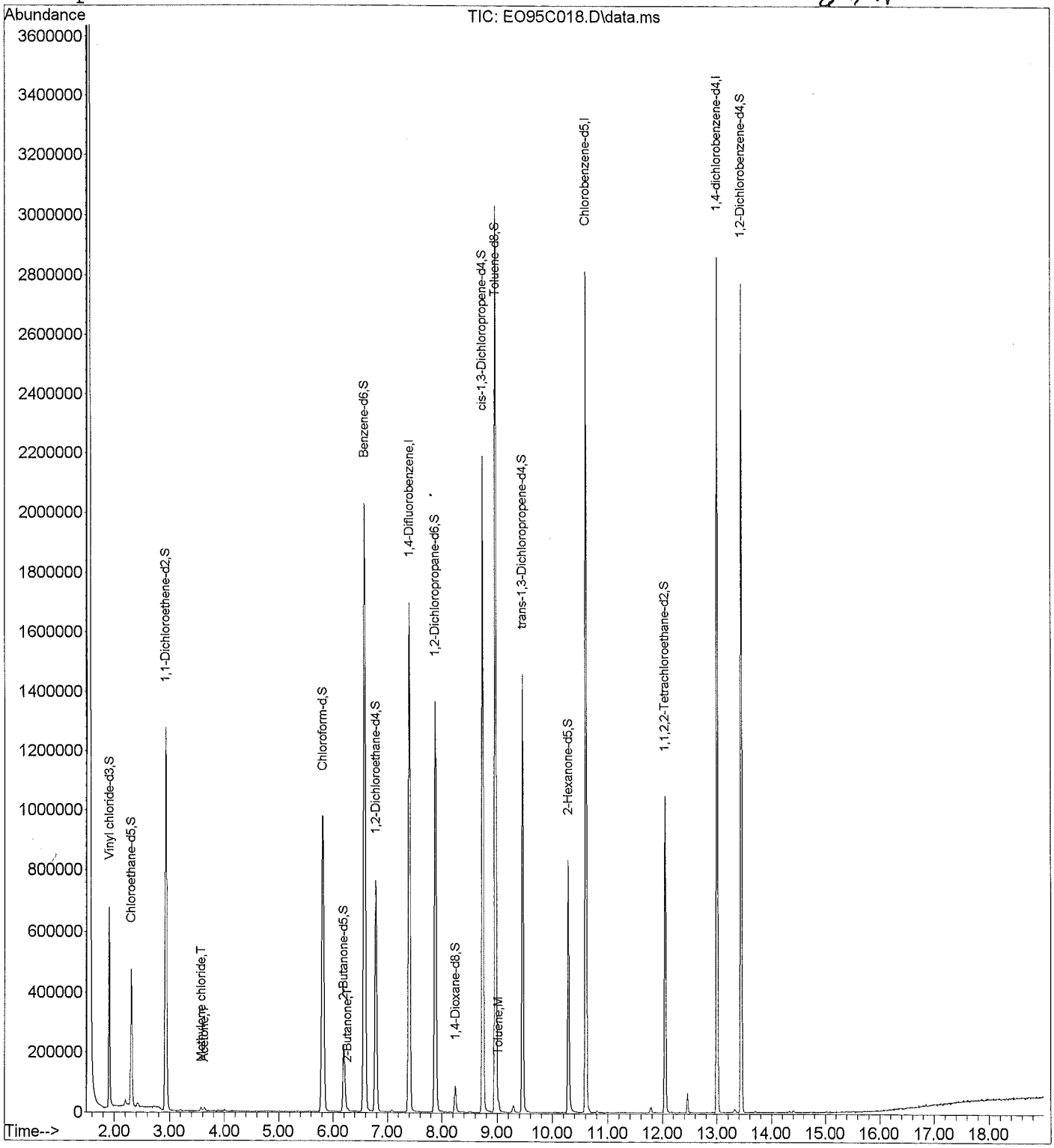
[1] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO95C018.D Vial: 16
Acq Time : 05/27/2015 20:29 Operator: CQC
Sample : 1514293018 F9L73 Inst : 5975-E
Misc : 1514293 5.99 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:36:37 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO95C018.D Vial: 16
Acq Time : 05/27/2015 20:29 Operator: CQC
Sample : 1514293018 F9L73 Inst : 5975-E
Misc : 1514293 5.99 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:36:37 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1487795	50.0000	ug/Kg	82.50
30) Chlorobenzene-d5	10.60	117	1474750	50.0000	ug/Kg	89.33
62) 1,4-dichlorobenzene-d4	13.00	152	722813	50.0000	ug/Kg	83.07
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	553670	47.8147	ug/Kg	95.63%
8) Chloroethane-d5	2.31	69	440940	49.9558	ug/Kg	99.91%
11) 1,1-Dichloroethene-d2	2.93	63	979099	37.2642	ug/Kg	74.53%
22) 2-Butanone-d5	6.19	46	372054	105.8432	ug/Kg	105.84%
25) Chloroform-d	5.81	84	1087293	52.5539	ug/Kg	105.11%
27) 1,2-Dichloroethane-d4	6.78	65	636144	58.0683	ug/Kg	116.14%
29) 1,4-Dioxane-d8	8.24	96	62318	1148.8826	ug/Kg	114.89%
35) Benzene-d6	6.58	84	2168467	48.8785	ug/Kg	97.76%
39) 1,2-Dichloropropane-d6	7.88	67	657337	50.6670	ug/Kg	101.33%
42) cis-1,3-Dichloropropene-d4	8.74	79	1197756	51.6391	ug/Kg	103.28%
44) trans-1,3-Dichloropropene-	9.46	79	740605	50.3943	ug/Kg	100.79%
49) Toluene-d8	8.97	98	2025976	49.6147	ug/Kg	99.23%
52) 2-Hexanone-d5	10.28	63	250265	104.3977	ug/Kg	104.40%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	526760	50.2386	ug/Kg	100.48%
67) 1,2-Dichlorobenzene-d4	13.44	152	705915	52.3761	ug/Kg	104.75%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected		
3) Chloromethane	0.00	50		Not Detected		
4) Vinyl chloride	0.00	62		Not Detected		
6) Bromomethane	0.00	94		Not Detected		
7) Chloroethane	0.00	64		Not Detected		
9) Trichlorofluoromethane	0.00	101		Not Detected		
10) 1,1-Dichloroethene	0.00	96		Not Detected		
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected		
13) Acetone	3.63	43	19671	5.7601	ug/Kg	98
14) Carbon disulfide	0.00	76		Not Detected		
15) Methyl acetate	0.00	43		Not Detected		
16) Methylene chloride	3.57	84	5227	0.5092	ug/Kg	90
17) trans-1,2-Dichloroethene	0.00	96		Not Detected		
18) Methyl tert-butyl ether	0.00	73		Not Detected		
19) 1,1-Dichloroethane	0.00	63		Not Detected		
20) cis-1,2-Dichloroethene	0.00	96		Not Detected		
21) 2-Butanone	6.27	43	12808	3.2671	ug/Kg#	83
23) Bromochloromethane	0.00	128		Not Detected		
24) Chloroform	0.00	83		Not Detected		

(#) = qualifier out of range (m) = manual integration

2015

Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO95C018.D Vial: 16
Acq Time : 05/27/2015 20:29 Operator: CQC
Sample : 1514293018 F9L73 Inst : 5975-E
Misc : 1514293 5.99 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

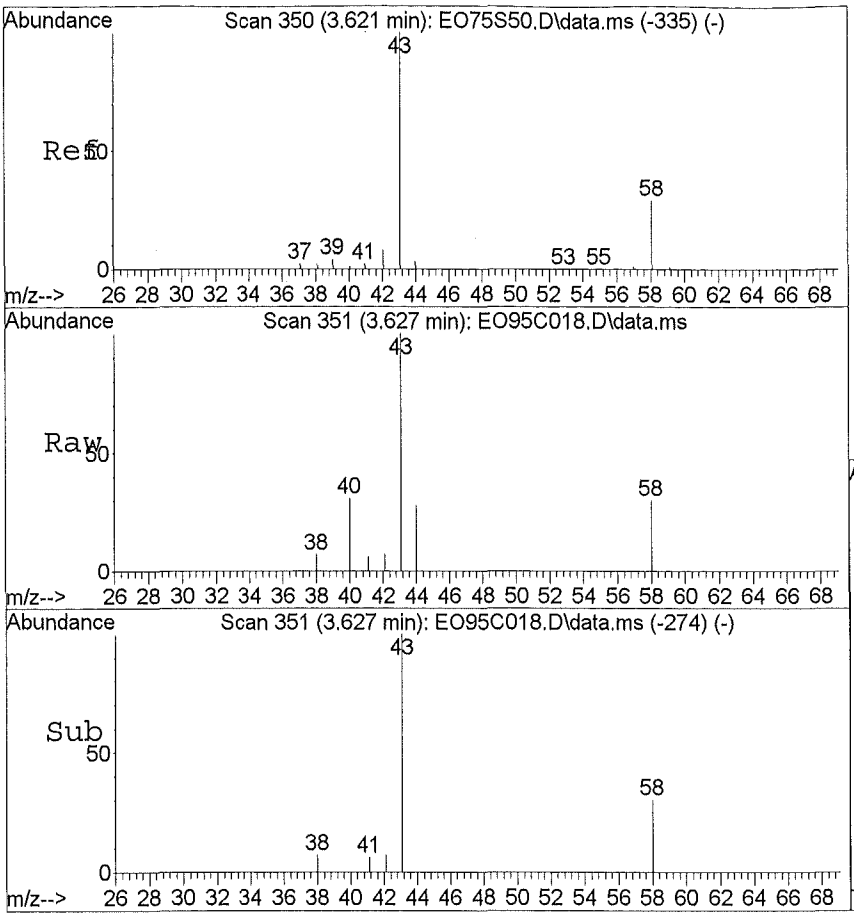
Quant Time: Jun 09 22:36:37 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	130		Not Detected	
37)	Methylcyclohexane	0.00	83		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.02	91	20047	0.4197 ug/Kg	99
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

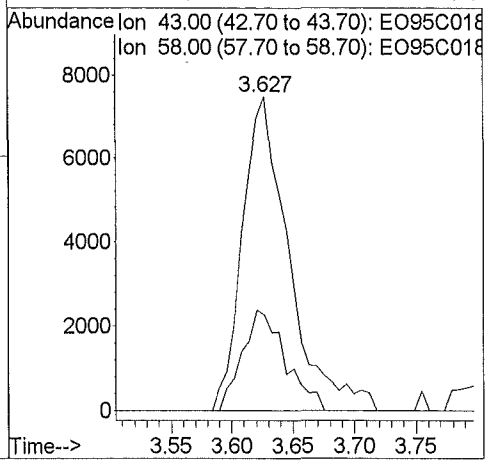
00177

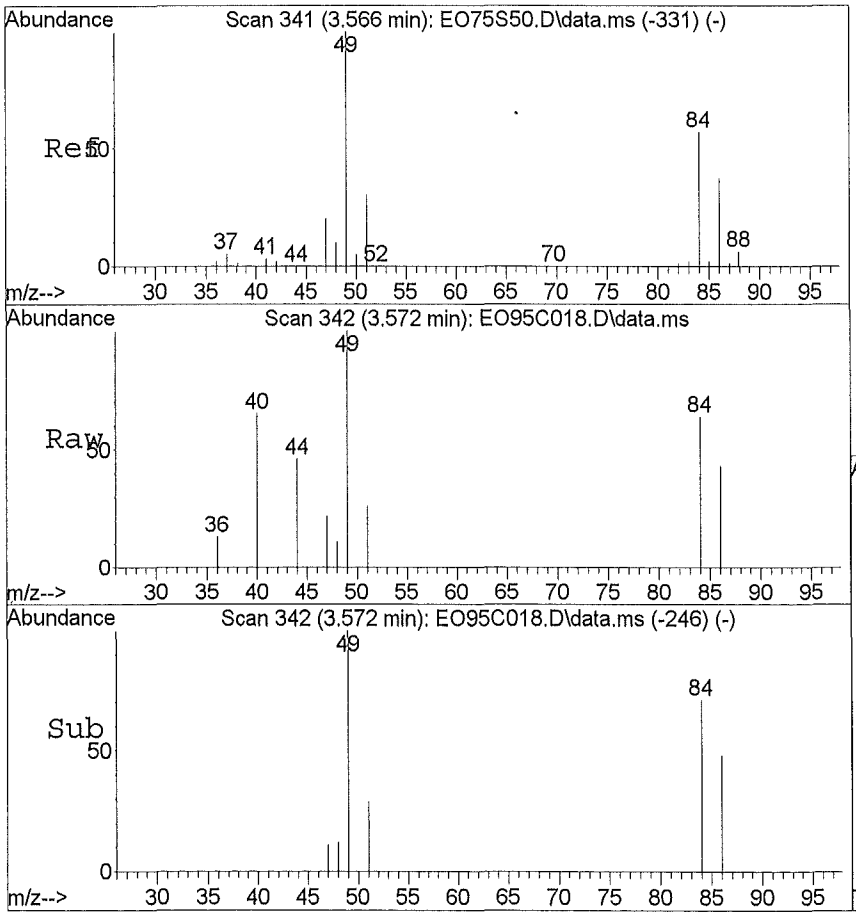


#13
Acetone
Concen: 5.76 ug/Kg
RT: 3.63 min Scan# 351
Delta R.T. 0.01 min
Lab File: EO95C018.D
Acq: 05/27/2015 20:29

Tgt Ion:43 Resp: 19671

Ion	Ratio	Lower	Upper
43	100		
58	29.8	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

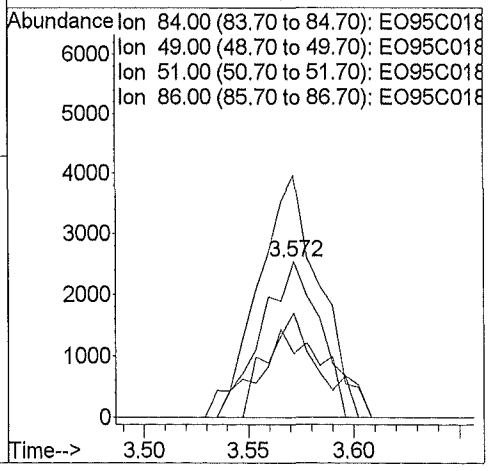


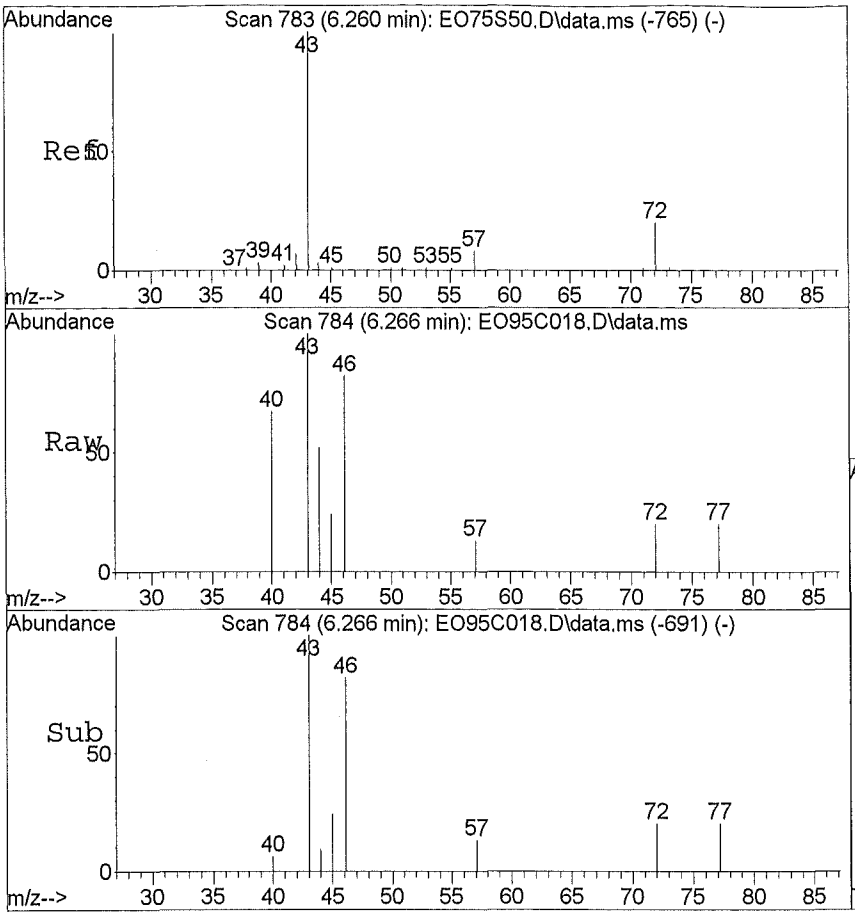


#16
Methylene chloride
Concen: 0.51 ug/Kg
RT: 3.57 min Scan# 342
Delta R.T. -0.00 min
Lab File: EO95C018.D
Acq: 05/27/2015 20:29

Tgt Ion:84 Resp: 5227

Ion	Ratio	Lower	Upper
84	100		
49	153.5	84.4	253.2
51	55.7	25.7	77.0
86	54.6	31.6	95.0

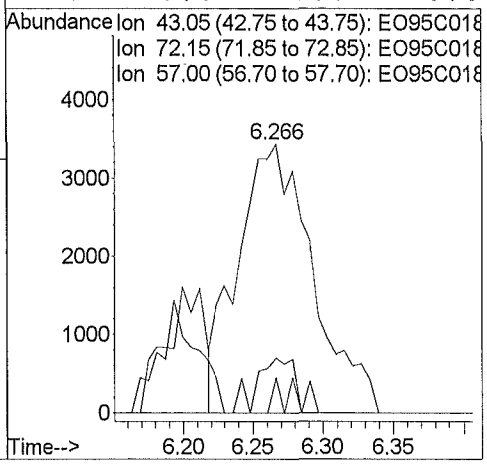


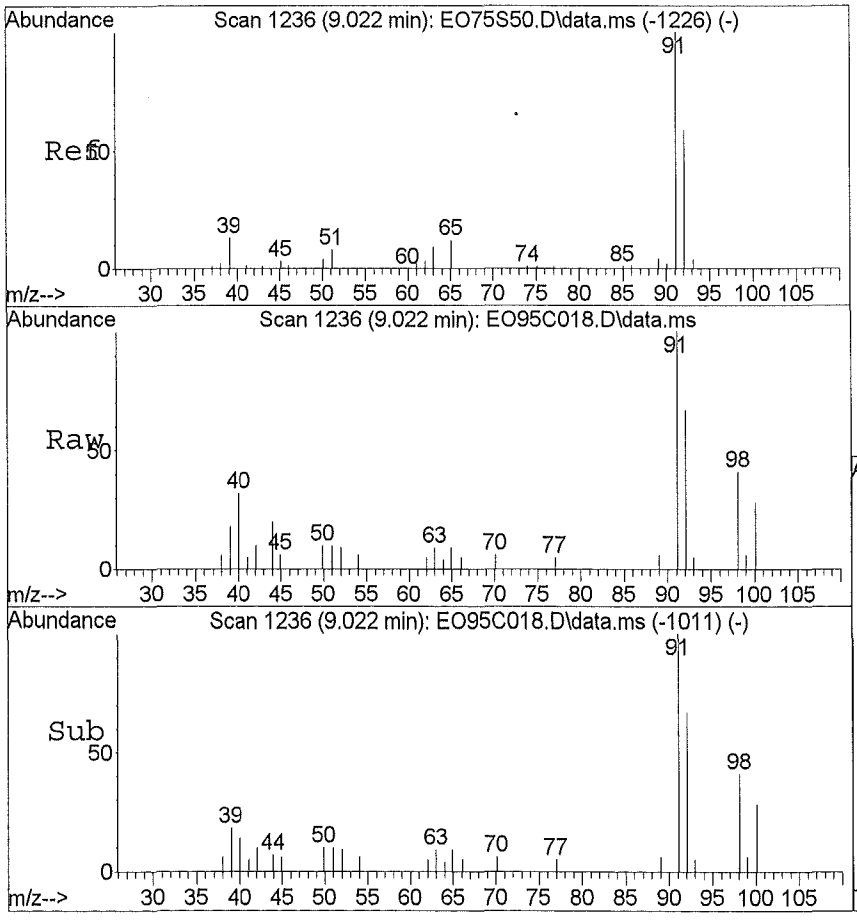


#21
2-Butanone
Concen: 3.27 ug/Kg
RT: 6.27 min Scan# 784
Delta R.T. 0.01 min
Lab File: EO95C018.D
Acq: 05/27/2015 20:29

Tgt Ion:43.05 Resp: 12808

Ion	Ratio	Lower	Upper
43	100		
72	11.3	15.5	23.3#
57	2.6	6.2	9.4#
0	0.0	0.0	0.0

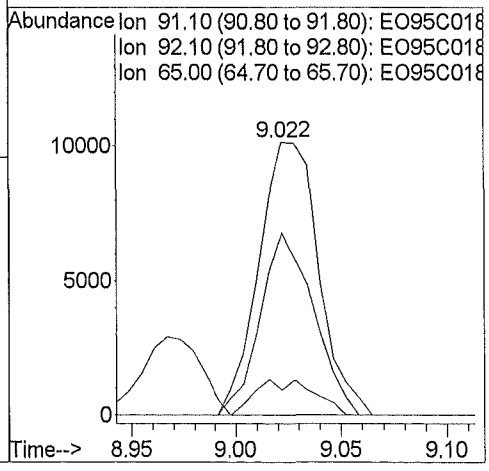




#48
Toluene
Concen: 0.42 ug/Kg
RT: 9.02 min Scan# 1236
Delta R.T. -0.00 min
Lab File: EO95C018.D
Acq: 05/27/2015 20:29

Tgt Ion:91.1 Resp: 20047

Ion	Ratio	Lower	Upper
91	100		
92	59.9	47.2	70.8
65	12.7	9.6	14.4
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L75

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293019

Sample wt/vol: 5.70 (g/mL) g Lab File ID: E096C019

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 13. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	14.	
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.60	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	2.8	J
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L75

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293019

Sample wt/vol: 5.70 (g/mL) g Lab File ID: E096C019

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 13. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	1.2	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L75

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293019

Sample wt/vol: 5.70 (g/mL) g Lab File ID: E096C019

Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 13. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

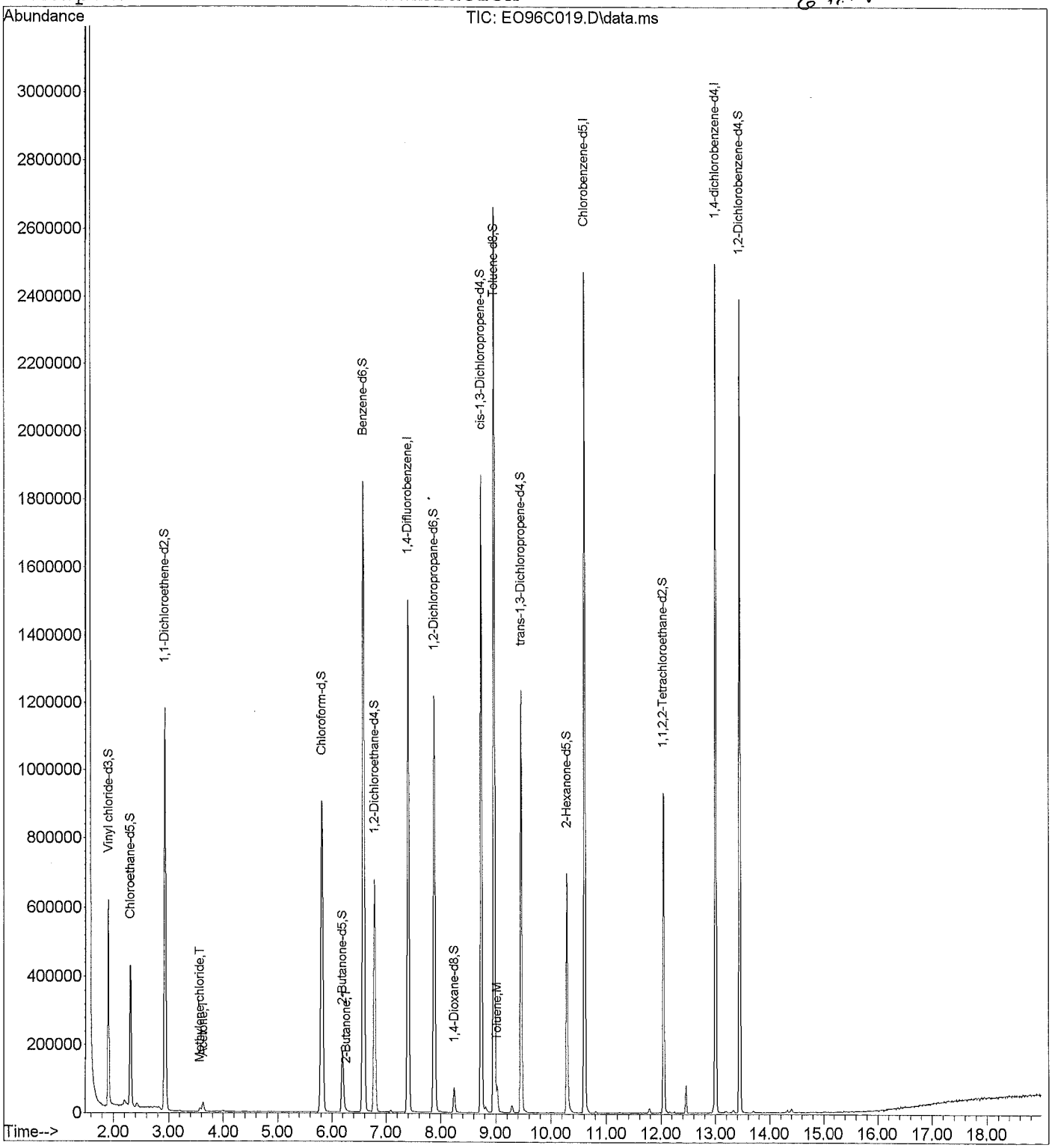
Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO96C019.D Vial: 17
Acq Time : 05/27/2015 20:53 Operator: CQC
Sample : 1514293019 F9L75 Inst : 5975-E
Misc : 1514293 5.70 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:37:28 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.15



Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO96C019.D Vial: 17
Acq Time : 05/27/2015 20:53 Operator: CQC
Sample : 1514293019 F9L75 Inst : 5975-E
Misc : 1514293 5.70 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:37:28 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1321025	50.0000	ug/Kg	73.25
30) Chlorobenzene-d5	10.60	117	1292915	50.0000	ug/Kg	78.31
62) 1,4-dichlorobenzene-d4	13.00	152	621372	50.0000	ug/Kg	71.41
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	522744	50.8431	ug/Kg	101.69%
8) Chloroethane-d5	2.32	69	419153	53.4825	ug/Kg	106.96%
11) 1,1-Dichloroethene-d2	2.93	63	916870	39.3011	ug/Kg	78.60%
22) 2-Butanone-d5	6.20	46	312453	100.1092	ug/Kg	100.11%
25) Chloroform-d	5.81	84	1002233	54.5581	ug/Kg	109.12%
27) 1,2-Dichloroethane-d4	6.78	65	567493	58.3413	ug/Kg	116.68%
29) 1,4-Dioxane-d8	8.24	96	50664	1051.9466	ug/Kg	105.19%
35) Benzene-d6	6.58	84	1979722	50.9000	ug/Kg	101.80%
39) 1,2-Dichloropropane-d6	7.88	67	588077	51.7034	ug/Kg	103.41%
42) cis-1,3-Dichloropropene-d4	8.74	79	1030306	50.6669	ug/Kg	101.33%
44) trans-1,3-Dichloropropene-	9.46	79	625210	48.5254	ug/Kg	97.05%
49) Toluene-d8	8.97	98	1780083	49.7239	ug/Kg	99.45%
52) 2-Hexanone-d5	10.28	63	207434	98.7005	ug/Kg	98.70%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	466010	50.6954	ug/Kg	101.39%
67) 1,2-Dichlorobenzene-d4	13.44	152	604428	52.1675	ug/Kg	104.33%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected		
3) Chloromethane	0.00	50		Not Detected		
4) Vinyl chloride	0.00	62		Not Detected		
6) Bromomethane	0.00	94		Not Detected		
7) Chloroethane	0.00	64		Not Detected		
9) Trichlorofluoromethane	0.00	101		Not Detected		
10) 1,1-Dichloroethene	0.00	96		Not Detected		
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected		
13) Acetone	3.63	43	43414	14.3175	ug/Kg	98
14) Carbon disulfide	0.00	76		Not Detected		
15) Methyl acetate	0.00	43		Not Detected		
16) Methylene chloride	3.56	84	5405	0.5931	ug/Kg	95
17) trans-1,2-Dichloroethene	0.00	96		Not Detected		
18) Methyl tert-butyl ether	0.00	73		Not Detected		
19) 1,1-Dichloroethane	0.00	63		Not Detected		
20) cis-1,2-Dichloroethene	0.00	96		Not Detected		
21) 2-Butanone	6.27	43	9672	2.7787	ug/Kg#	71
23) Bromochloromethane	0.00	128		Not Detected		
24) Chloroform	0.00	83		Not Detected		

(#) = qualifier out of range (m) = manual integration

: 001814

Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO96C019.D Vial: 17
Acq Time : 05/27/2015 20:53 Operator: CQC
Sample : 1514293019 F9L75 Inst : 5975-E
Misc : 1514293 5.70 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

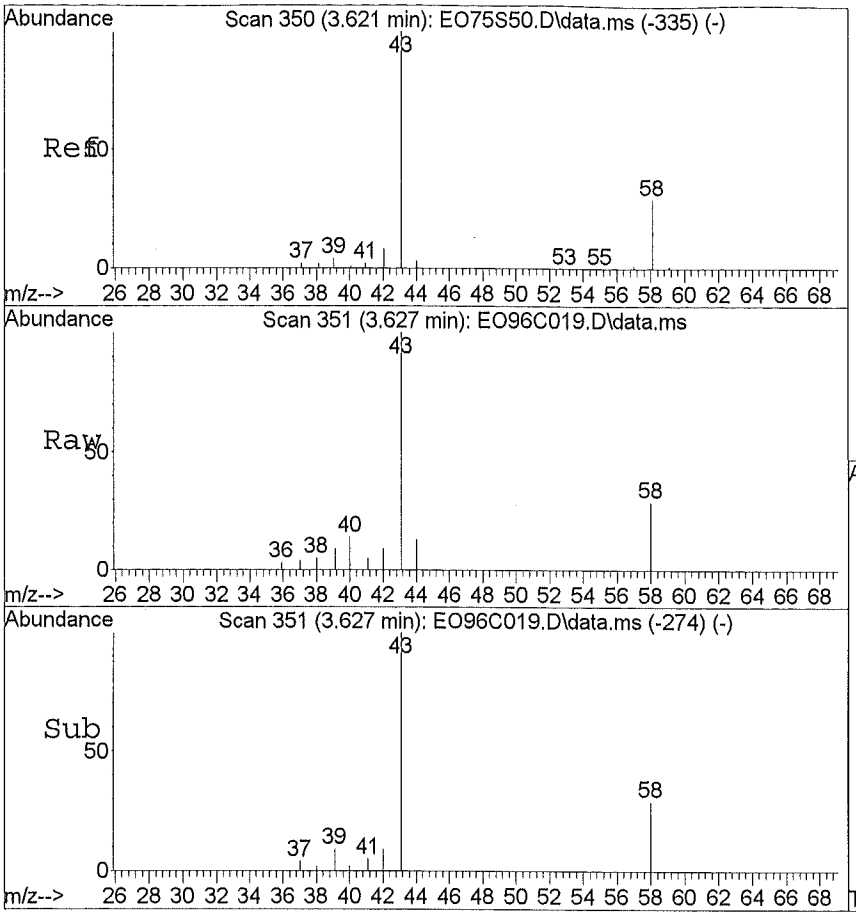
Quant Time: Jun 09 22:37:28 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	130		Not Detected	
37)	Methylcyclohexane	0.00	83		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.02	91	51165	1.2218 ug/Kg	97
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

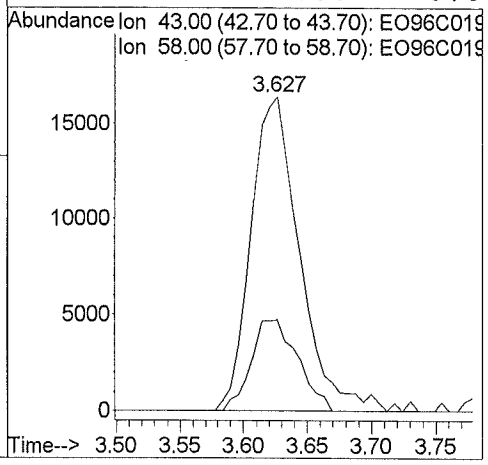
00185

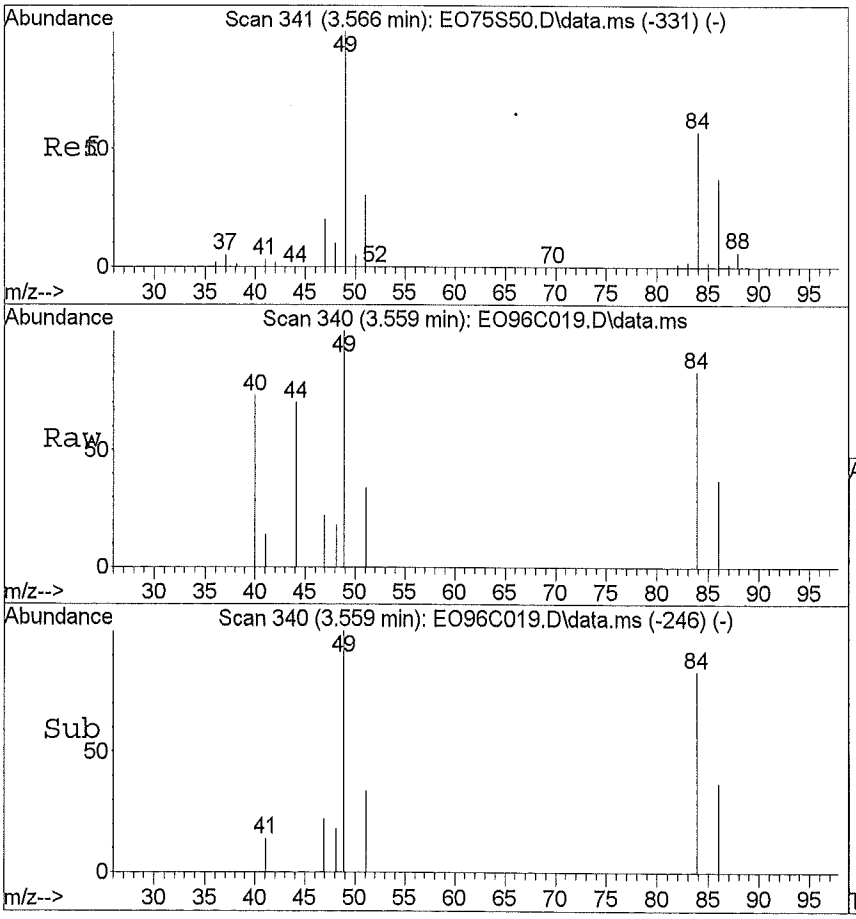


#13
Acetone
Concen: 14.32 ug/Kg
RT: 3.63 min Scan# 351
Delta R.T. 0.01 min
Lab File: EO96C019.D
Acq: 05/27/2015 20:53

Tgt Ion:43 Resp: 43414

Ion	Ratio	Lower	Upper
43	100		
58	27.7	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

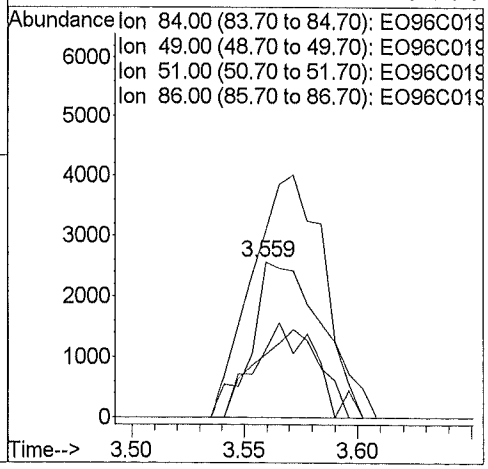


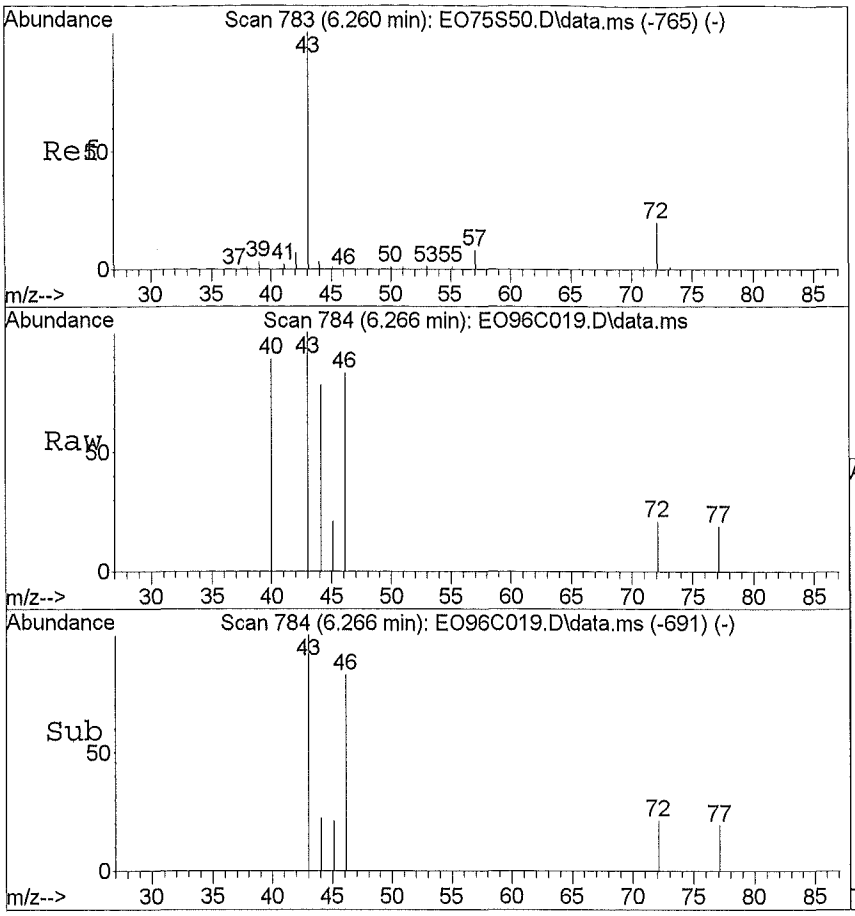


#16
Methylene chloride
Concen: 0.59 ug/Kg
RT: 3.56 min Scan# 340
Delta R.T. -0.01 min
Lab File: EO96C019.D
Acq: 05/27/2015 20:53

Tgt Ion:84 Resp: 5405

Ion	Ratio	Lower	Upper
84	100		
49	165.3	84.4	253.2
51	53.7	25.7	77.0
86	53.5	31.6	95.0

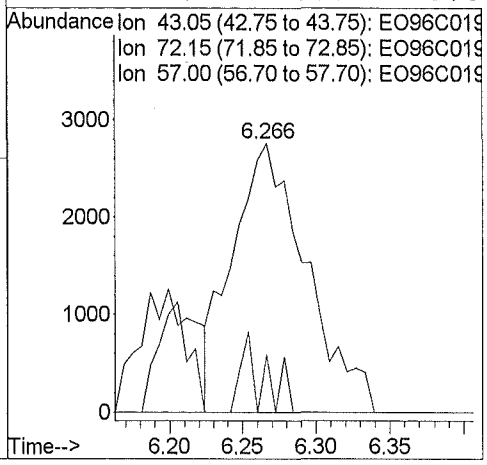


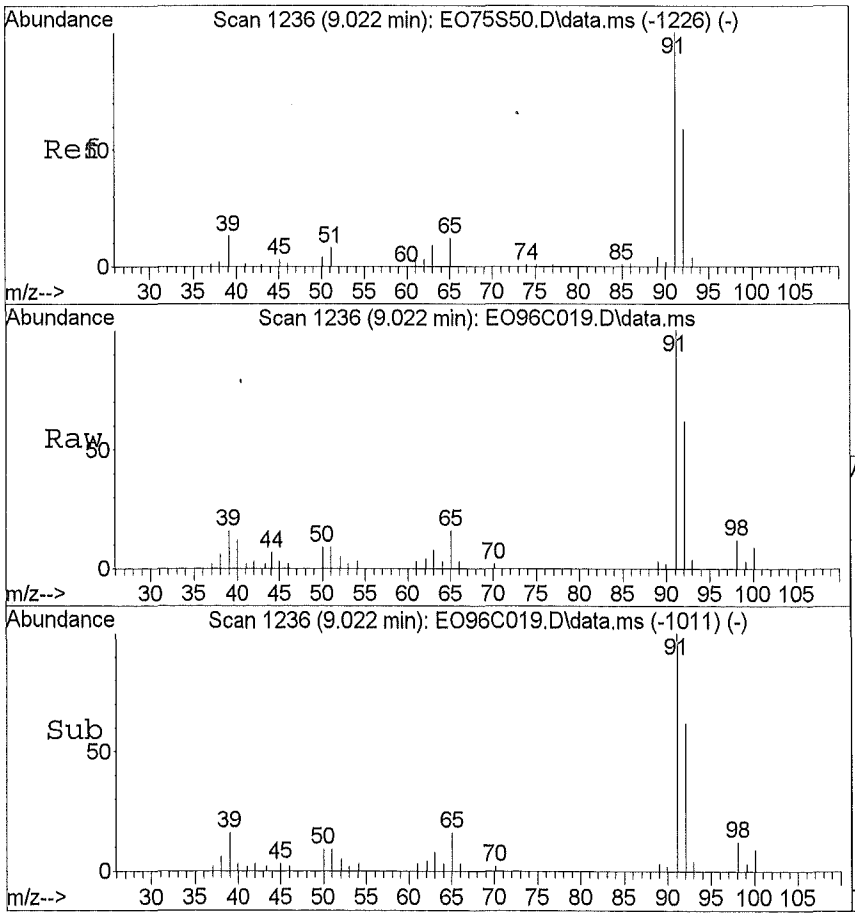


#21
2-Butanone
Concen: 2.78 ug/Kg
RT: 6.27 min Scan# 784
Delta R.T. 0.01 min
Lab File: EO96C019.D
Acq: 05/27/2015 20:53

Tgt Ion:43.05 Resp: 9672

Ion	Ratio	Lower	Upper
43	100		
72	4.7	15.5	23.3#
57	0.0	6.2	9.4#
0	0.0	0.0	0.0

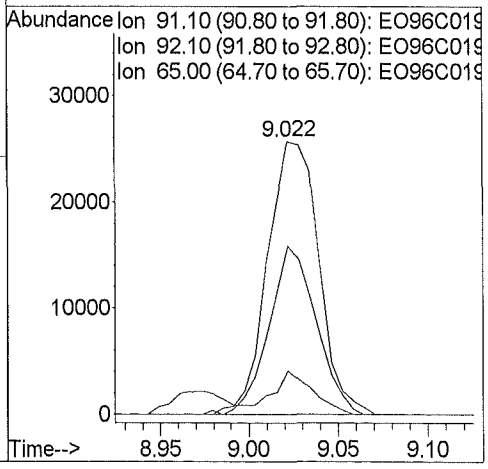




#48
Toluene
Concen: 1.22 ug/Kg
RT: 9.02 min Scan# 1236
Delta R.T. -0.00 min
Lab File: EO96C019.D
Acq: 05/27/2015 20:53

Tgt Ion:91.1 Resp: 51165

Ion	Ratio	Lower	Upper
91	100		
92	56.9	47.2	70.8
65	12.5	9.6	14.4
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293020

Sample wt/vol: 5.71 (g/mL) g Lab File ID: E097C020

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 11. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	4.9	U
74-87-3	Chloromethane	4.9	U
75-01-4	Vinyl chloride	4.9	U
74-83-9	Bromomethane	4.9	U
75-00-3	Chloroethane	4.9	U
75-69-4	Trichlorofluoromethane	4.9	U
75-35-4	1,1-Dichloroethene	4.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.9	U
67-64-1	Acetone	19.	
75-15-0	Carbon disulfide	4.9	U
79-20-9	Methyl acetate	4.9	U
75-09-2	Methylene chloride	0.54	JB
156-60-5	trans-1,2-Dichloroethene	4.9	U
1634-04-4	Methyl tert-butyl ether	4.9	U
75-34-3	1,1-Dichloroethane	4.9	U
156-59-2	cis-1,2-Dichloroethene	4.9	U
78-93-3	2-Butanone	6.6	J
74-97-5	Bromochloromethane	4.9	U
67-66-3	Chloroform	4.9	U
71-55-6	1,1,1-Trichloroethane	4.9	U
110-82-7	Cyclohexane	4.9	U
56-23-5	Carbon tetrachloride	4.9	U
71-43-2	Benzene	4.9	U
107-06-2	1,2-Dichloroethane	4.9	U
123-91-1	1,4-Dioxane	99.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293020

Sample wt/vol: 5.71 (g/mL) g Lab File ID: E097C020

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 11. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	4.9	U
108-87-2	Methylcyclohexane	4.9	U
78-87-5	1,2-Dichloropropane	4.9	U
75-27-4	Bromodichloromethane	4.9	U
10061-01-5	cis-1,3-Dichloropropene	4.9	U
108-10-1	4-Methyl-2-Pentanone	9.9	U
108-88-3	Toluene	1.0	J
10061-02-6	trans-1,3-Dichloropropene	4.9	U
79-00-5	1,1,2-Trichloroethane	4.9	U
127-18-4	Tetrachloroethene	4.9	U
591-78-6	2-Hexanone	9.9	U
124-48-1	Dibromochloromethane	4.9	U
106-93-4	1,2-Dibromoethane	4.9	U
108-90-7	Chlorobenzene	4.9	U
100-41-4	Ethylbenzene	4.9	U
95-47-6	o-Xylene	4.9	U
179601-23-1	m,p-Xylene	4.9	U
100-42-5	Styrene	4.9	U
75-25-2	Bromoform	4.9	U
98-82-8	Isopropylbenzene	4.9	U
79-34-5	1,1,2,2-Tetrachloroethane	4.9	U
541-73-1	1,3-Dichlorobenzene	4.9	U
106-46-7	1,4-Dichlorobenzene	4.9	U
95-50-1	1,2-Dichlorobenzene	4.9	U
96-12-8	1,2-Dibromo-3-chloropropane	4.9	U
120-82-1	1,2,4-Trichlorobenzene	4.9	U
87-61-6	1,2,3-Trichlorobenzene	4.9	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293020

Sample wt/vol: 5.71 (g/mL) g Lab File ID: E097C020

Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 11. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

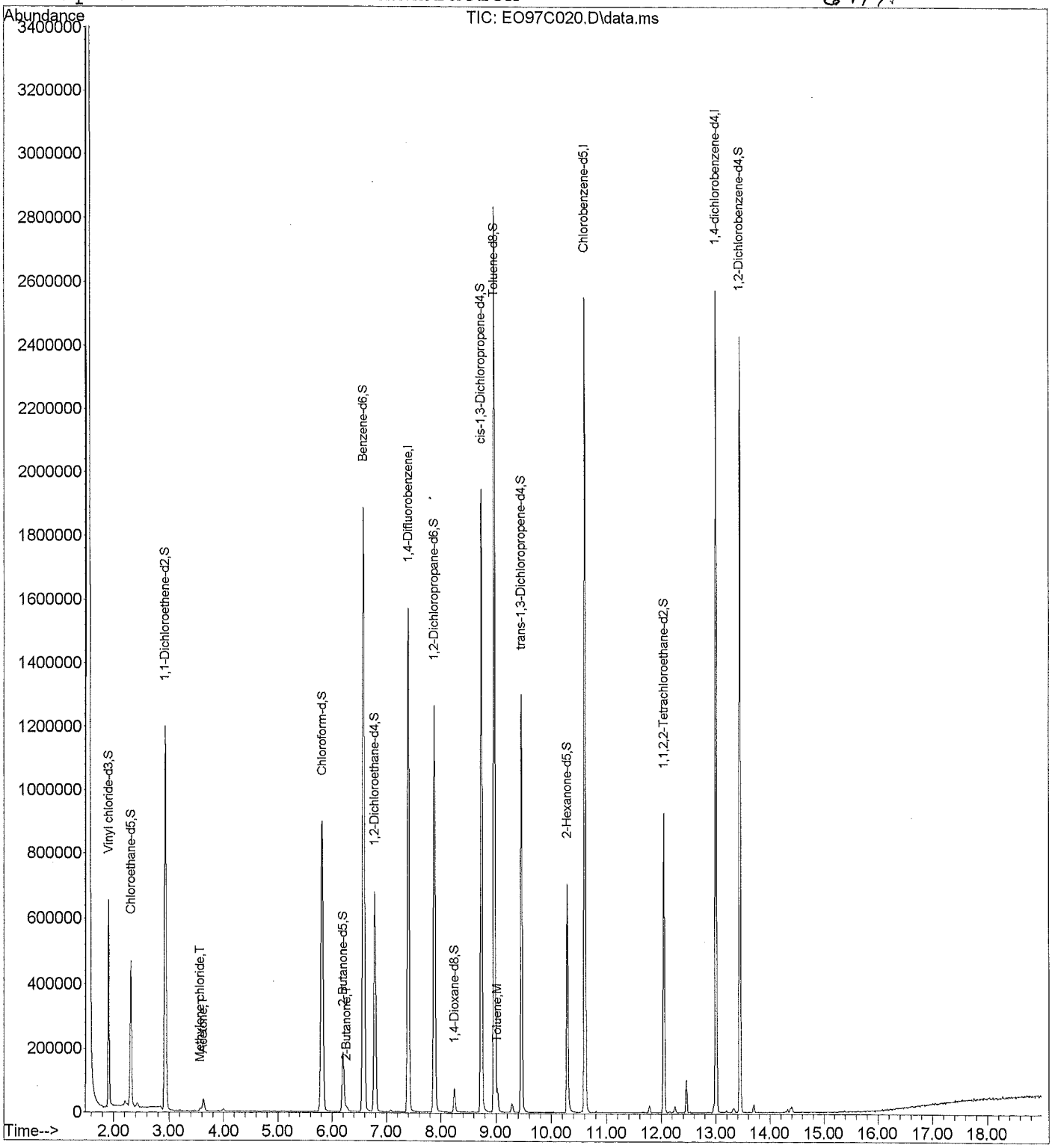
Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO97C020.D Vial: 18
Acq Time : 05/27/2015 21:18 Operator: CQC
Sample : 1514293020 F9L77 Inst : 5975-E
Misc : 1514293 5.71 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:38:01 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.19.15



Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO97C020.D Vial: 18
Acq Time : 05/27/2015 21:18 Operator: CQC
Sample : 1514293020 F9L77 Inst : 5975-E
Misc : 1514293 5.71 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:38:01 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1377114	50.0000 ug/Kg	76.36
30) Chlorobenzene-d5	10.61	117	1355755	50.0000 ug/Kg	82.12
62) 1,4-dichlorobenzene-d4	13.00	152	641114	50.0000 ug/Kg	73.68
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	527186	49.1867 ug/Kg	98.37%
8) Chloroethane-d5	2.32	69	418286	51.1980 ug/Kg	102.40%
11) 1,1-Dichloroethene-d2	2.93	63	920929	37.8673 ug/Kg	75.73%
22) 2-Butanone-d5	6.20	46	319151	98.0904 ug/Kg	98.09%
25) Chloroform-d	5.81	84	1002748	52.3629 ug/Kg	104.73%
27) 1,2-Dichloroethane-d4	6.78	65	582470	57.4421 ug/Kg	114.88%
29) 1,4-Dioxane-d8	8.24	96	52455	1044.7737 ug/Kg	104.48%
35) Benzene-d6	6.58	84	2030546	49.7869 ug/Kg	99.57%
39) 1,2-Dichloropropane-d6	7.88	67	613338	51.4250 ug/Kg	102.85%
42) cis-1,3-Dichloropropene-d4	8.74	79	1084302	50.8508 ug/Kg	101.70%
44) trans-1,3-Dichloropropene-	9.46	79	662237	49.0168 ug/Kg	98.03%
49) Toluene-d8	8.97	98	1895647	50.4976 ug/Kg	101.00%
52) 2-Hexanone-d5	10.28	63	211962	96.1803 ug/Kg	96.18%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	461721	47.9007 ug/Kg	95.80%
67) 1,2-Dichlorobenzene-d4	13.44	152	618748	51.7589 ug/Kg	103.52%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	0.00	101		Not Detected	
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	60735	19.2139 ug/Kg	100
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	5172	0.5444 ug/Kg	97
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	6.27	43	24357	6.7125 ug/Kg	96
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO97C020.D Vial: 18
Acq Time : 05/27/2015 21:18 Operator: CQC
Sample : 1514293020 F9L77 Inst : 5975-E
Misc : 1514293 5.71 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

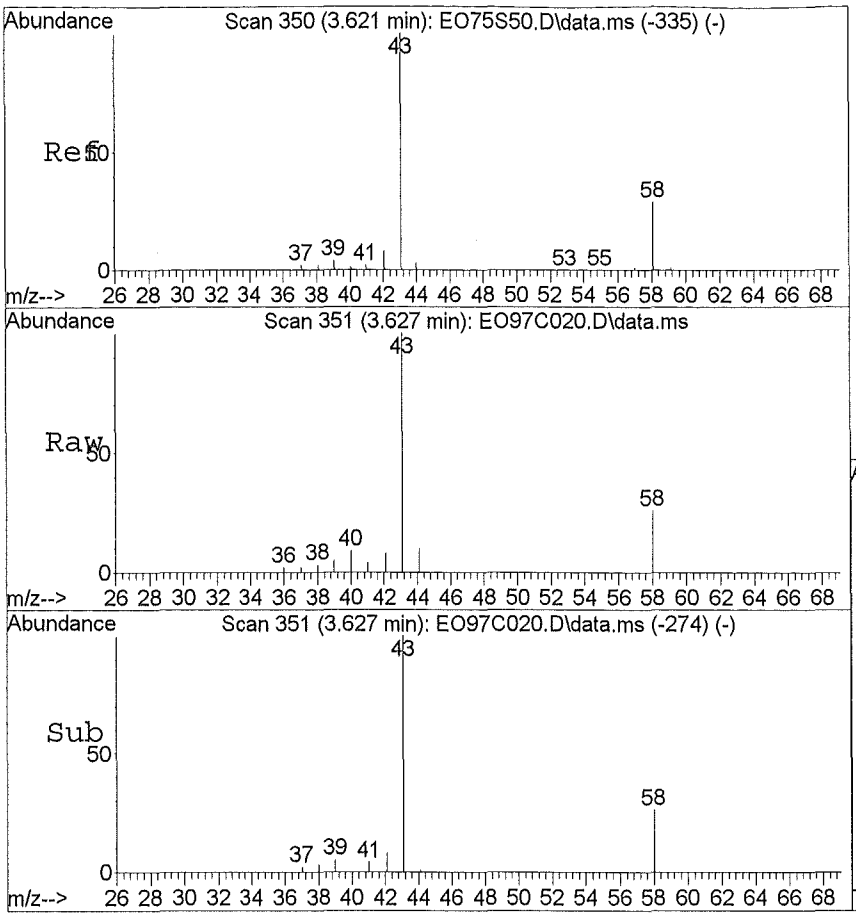
Quant Time: Jun 09 22:38:01 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	130		Not Detected	
37)	Methylcyclohexane	0.00	83		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.02	91	45489	1.0359 ug/Kg	99
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

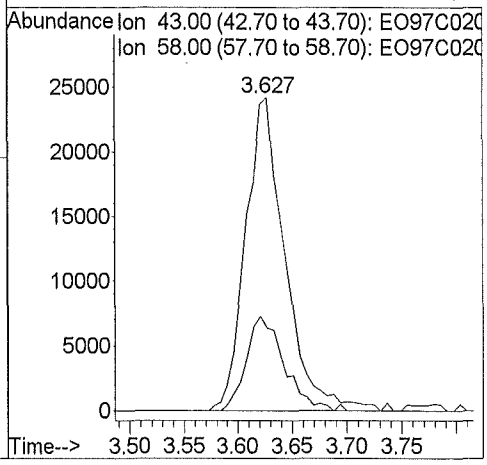
00193

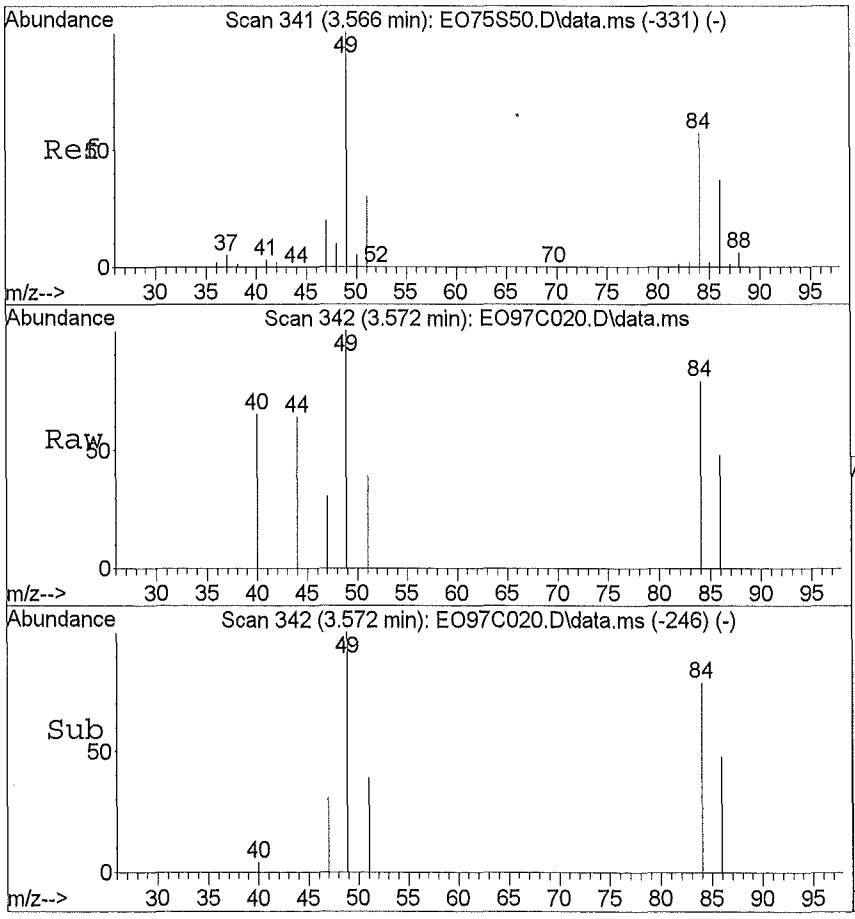


#13
Acetone
Concen: 19.21 ug/Kg
RT: 3.63 min Scan# 351
Delta R.T. 0.01 min
Lab File: EO97C020.D
Acq: 05/27/2015 21:18

Tgt Ion:43 Resp: 60735

Ion	Ratio	Lower	Upper
43	100		
58	28.6	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

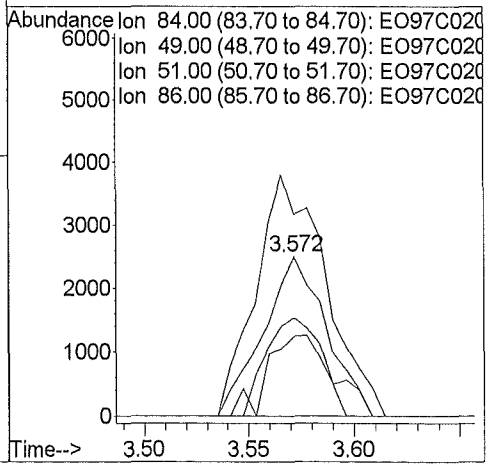


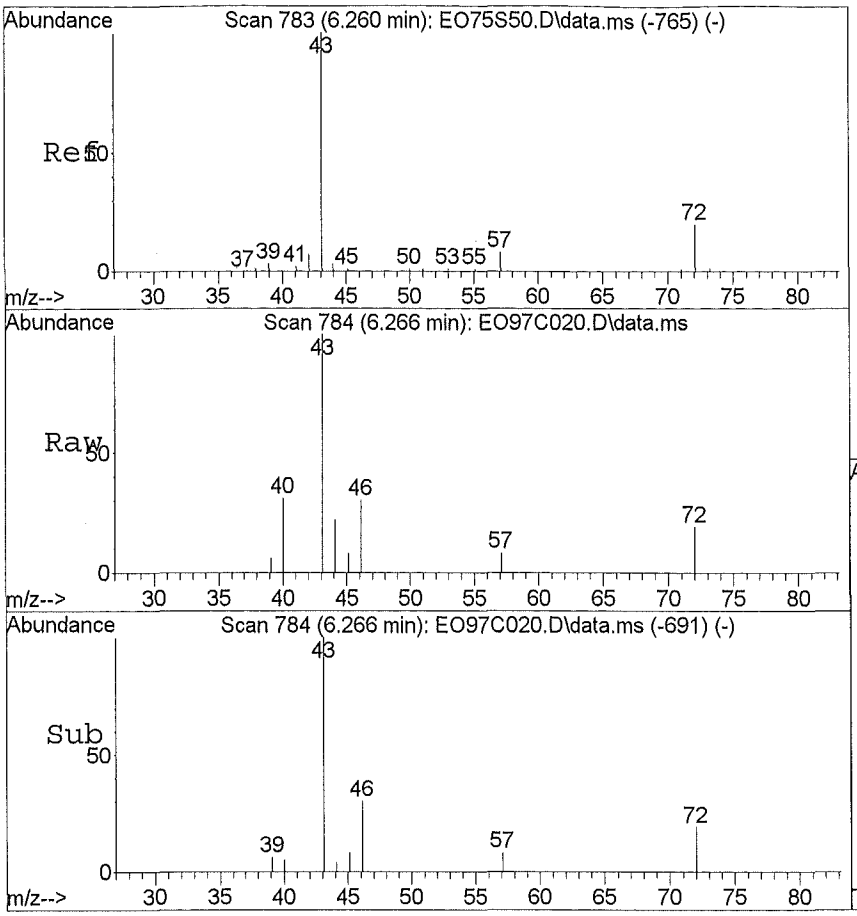


#16
Methylene chloride
Concen: 0.54 ug/Kg
RT: 3.57 min Scan# 342
Delta R.T. 0.00 min
Lab File: EO97C020.D
Acq: 05/27/2015 21:18

Tgt Ion:84 Resp: 5172

Ion	Ratio	Lower	Upper
84	100		
49	168.0	84.4	253.2
51	51.7	25.7	77.0
86	54.0	31.6	95.0

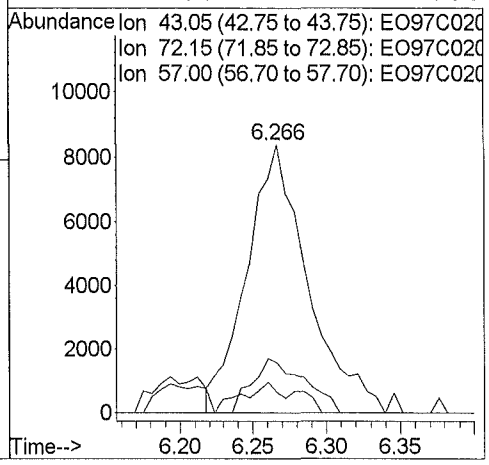


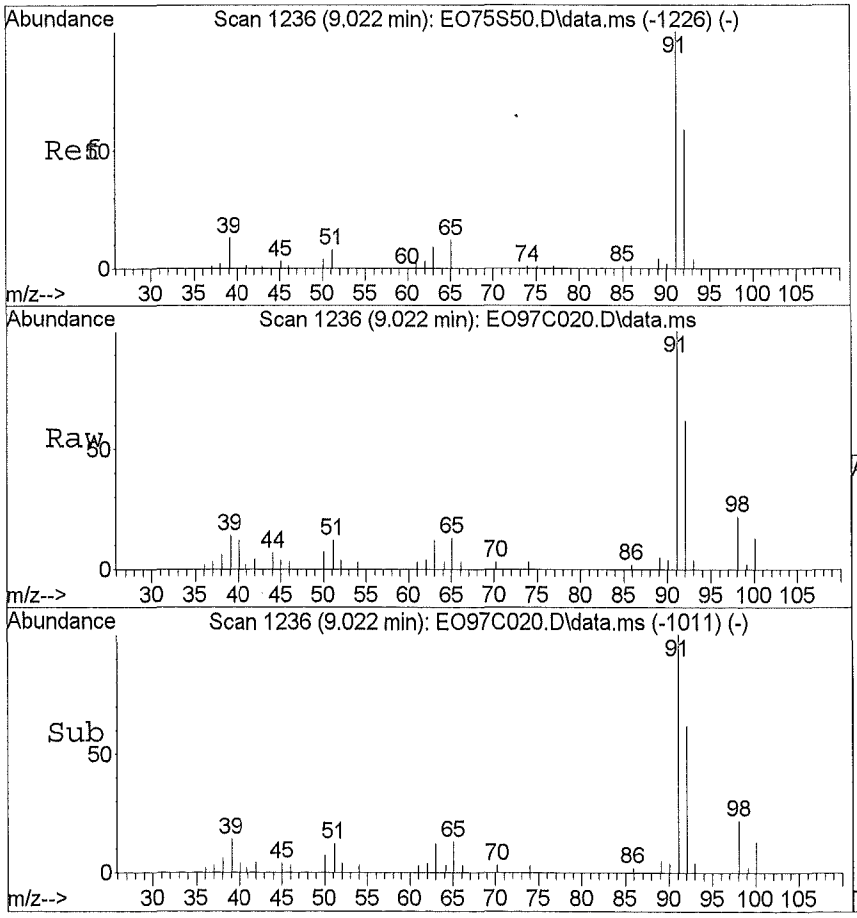


#21
2-Butanone
Concen: 6.71 ug/Kg
RT: 6.27 min Scan# 784
Delta R.T. 0.01 min
Lab File: EO97C020.D
Acq: 05/27/2015 21:18

Tgt Ion:43.05 Resp: 24357

Ion	Ratio	Lower	Upper
43	100		
72	17.3	15.5	23.3
57	7.1	6.2	9.4
0	0.0	0.0	0.0

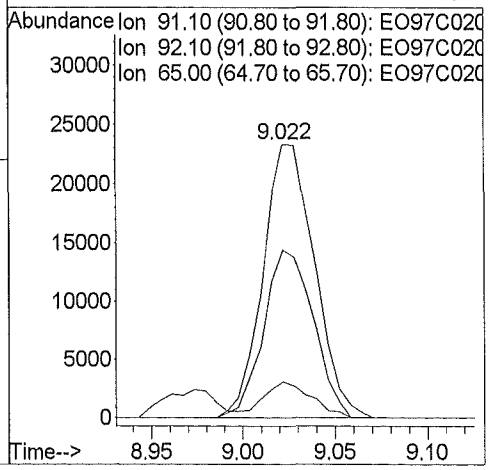




#48
Toluene
Concen: 1.04 ug/Kg
RT: 9.02 min Scan# 1236
Delta R.T. 0.00 min
Lab File: EO97C020.D
Acq: 05/27/2015 21:18

Tgt Ion:91.1 Resp: 45489

Ion	Ratio	Lower	Upper
91	100		
92	59.4	47.2	70.8
65	12.3	9.6	14.4
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293021

Sample wt/vol: 5.35 (g/mL) g Lab File ID: E098C021

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 14. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	0.22	J
75-35-4	1,1-Dichloroethene	5.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U
67-64-1	Acetone	4.2	J
75-15-0	Carbon disulfide	5.4	U
79-20-9	Methyl acetate	5.4	U
75-09-2	Methylene chloride	0.52	JB
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
78-93-3	2-Butanone	11.	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
110-82-7	Cyclohexane	5.4	U
56-23-5	Carbon tetrachloride	5.4	U
71-43-2	Benzene	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
123-91-1	1,4-Dioxane	110	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293021

Sample wt/vol: 5.35 (g/mL) g Lab File ID: E098C021

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 14. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.4	U
108-87-2	Methylcyclohexane	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-Pentanone	11.	U
108-88-3	Toluene	1.5	J
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	11.	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
100-41-4	Ethylbenzene	5.4	U
95-47-6	o-Xylene	5.4	U
179601-23-1	m,p-Xylene	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293021

Sample wt/vol: 5.35 (g/mL) g Lab File ID: E098C021

Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 14. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

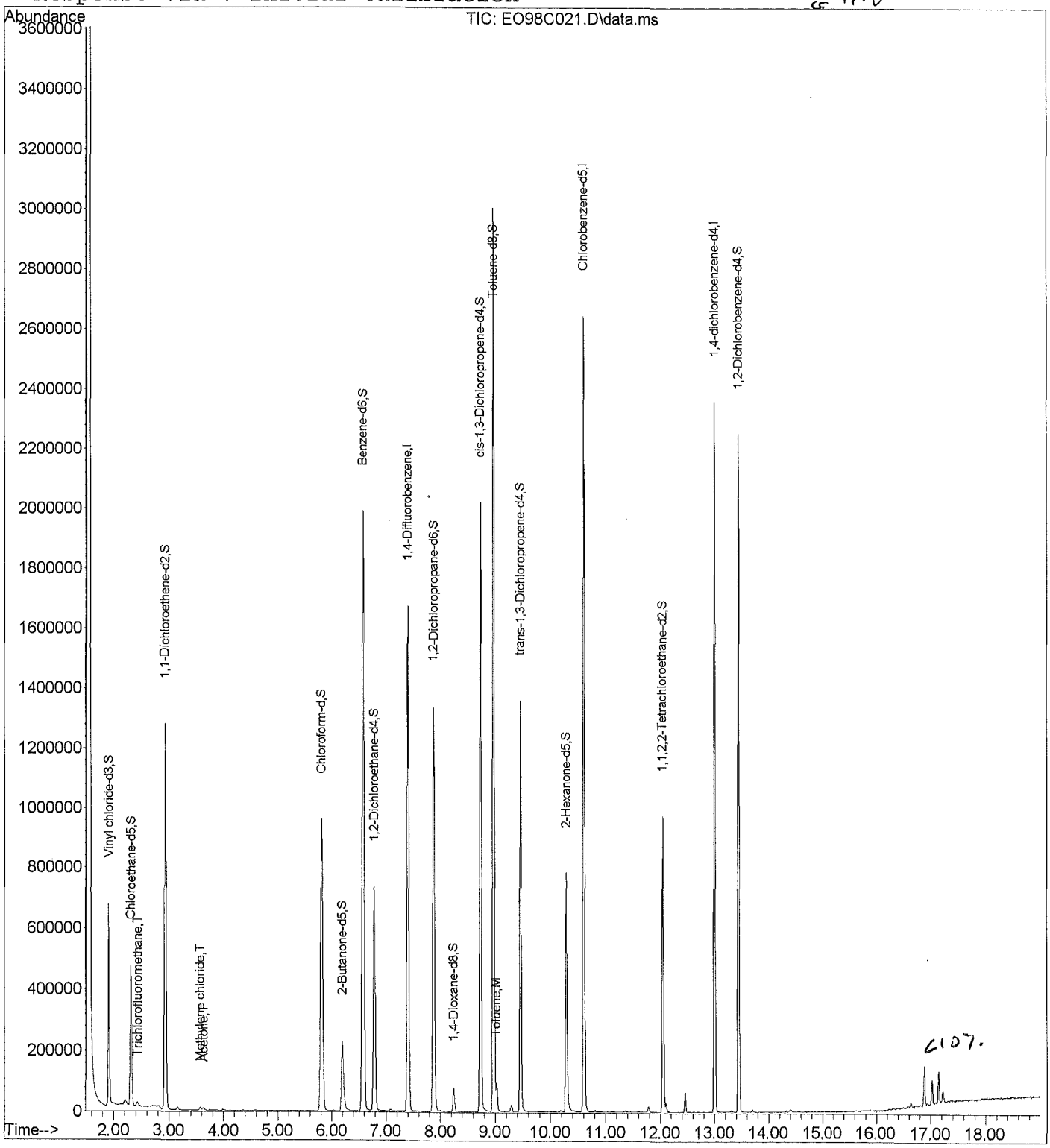
[1] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO98C021.D Vial: 19
Acq Time : 05/27/2015 21:42 Operator: CQC
Sample : 1514293021 F9L78 Inst : 5975-E
Misc : 1514293 5.35 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:38:48 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO98C021.D Vial: 19
Acq Time : 05/27/2015 21:42 Operator: CQC
Sample : 1514293021 F9L78 Inst : 5975-E
Misc : 1514293 5.35 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:38:48 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1465063	50.0000 ug/Kg	81.24
30) Chlorobenzene-d5	10.61	117	1397003	50.0000 ug/Kg	84.62
62) 1,4-dichlorobenzene-d4	13.00	152	597604	50.0000 ug/Kg	68.68
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	545291	47.8218 ug/Kg	95.64%
8) Chloroethane-d5	2.32	69	426014	49.0137 ug/Kg	98.03%
11) 1,1-Dichloroethene-d2	2.93	63	984687	38.0584 ug/Kg	76.12%
22) 2-Butanone-d5	6.20	46	374980	108.3308 ug/Kg	108.33%
25) Chloroform-d	5.81	84	1068694	52.4564 ug/Kg	104.91%
27) 1,2-Dichloroethane-d4	6.78	65	615865	57.0894 ug/Kg	114.18%
29) 1,4-Dioxane-d8	8.24	96	58108	1087.8897 ug/Kg	108.79%
35) Benzene-d6	6.58	84	2142730	50.9863 ug/Kg	101.97%
39) 1,2-Dichloropropane-d6	7.88	67	645594	52.5312 ug/Kg	105.06%
42) cis-1,3-Dichloropropene-d4	8.74	79	1113306	50.6694 ug/Kg	101.34%
44) trans-1,3-Dichloropropene-	9.46	79	682810	49.0473 ug/Kg	98.09%
49) Toluene-d8	8.97	98	1985127	51.3199 ug/Kg	102.64%
52) 2-Hexanone-d5	10.28	63	227831	100.3286 ug/Kg	100.33%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	491163	49.4506 ug/Kg	98.90%
67) 1,2-Dichlorobenzene-d4	13.44	152	574760	51.5798 ug/Kg	103.16%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	2.44	101	2927	0.2005 ug/Kg#	85
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	13082	3.8901 ug/Kg	94
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	4809	0.4758 ug/Kg	92
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

002200

Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO98C021.D Vial: 19
Acq Time : 05/27/2015 21:42 Operator: CQC
Sample : 1514293021 F9L78 Inst : 5975-E
Misc : 1514293 5.35 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

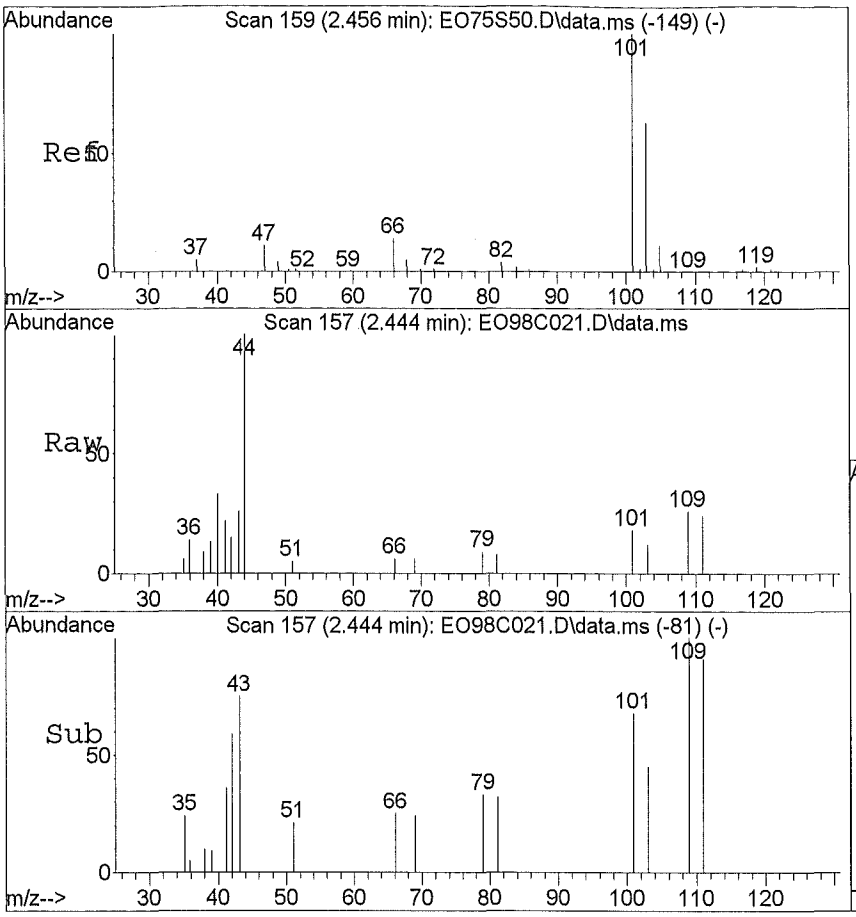
Quant Time: Jun 09 22:38:48 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	130		Not Detected	
37)	Methylcyclohexane	0.00	83		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.03	91	62195	1.3745 ug/Kg	96
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

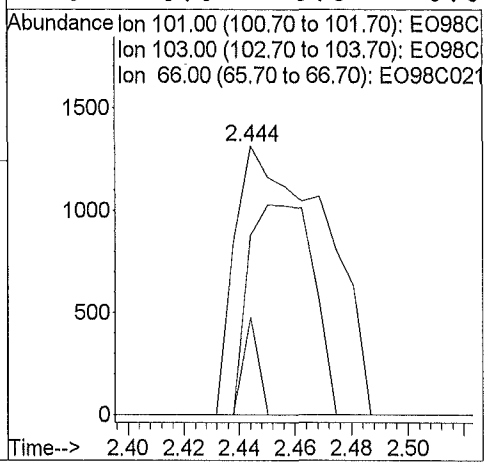
00201

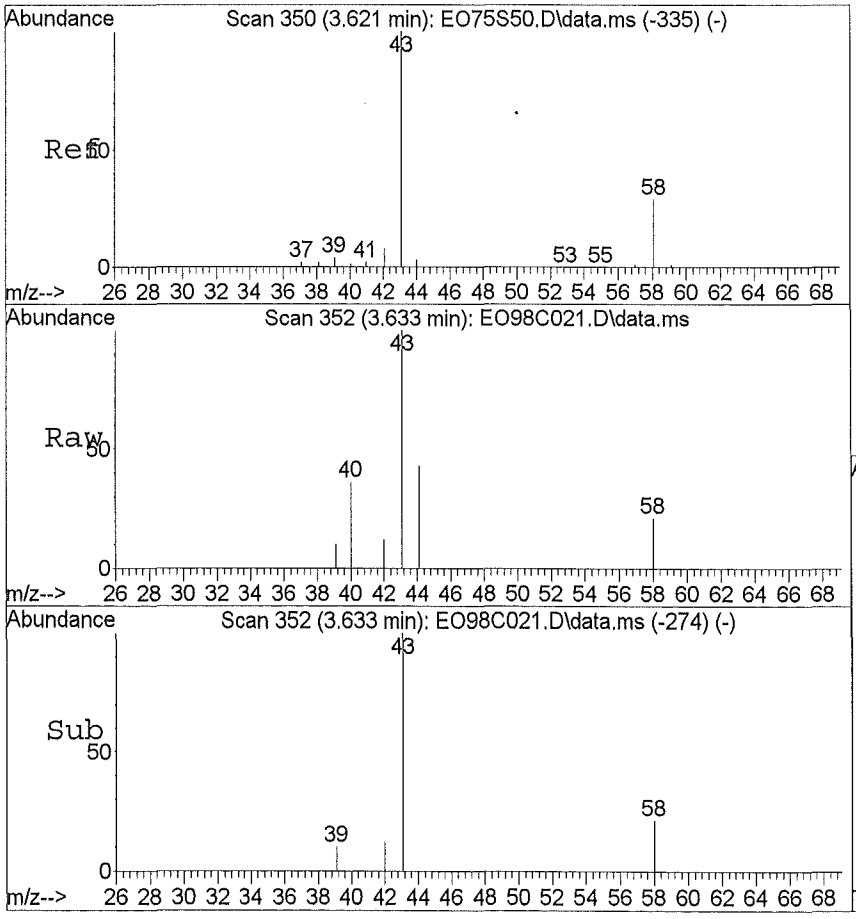


#9
Trichlorofluoromethane
Concen: 0.20 ug/Kg
RT: 2.44 min Scan# 157
Delta R.T. -0.01 min
Lab File: EO98C021.D
Acq: 05/27/2015 21:42

Tgt Ion:101 Resp: 2927

Ion	Ratio	Lower	Upper
101	100		
103	56.3	32.5	97.4
66	0.0	7.3	22.0#
0	0.0	0.0	0.0

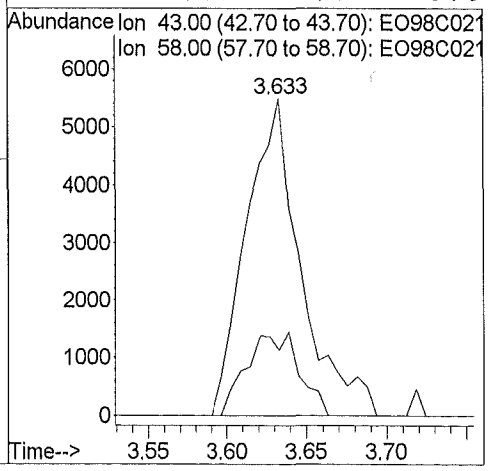


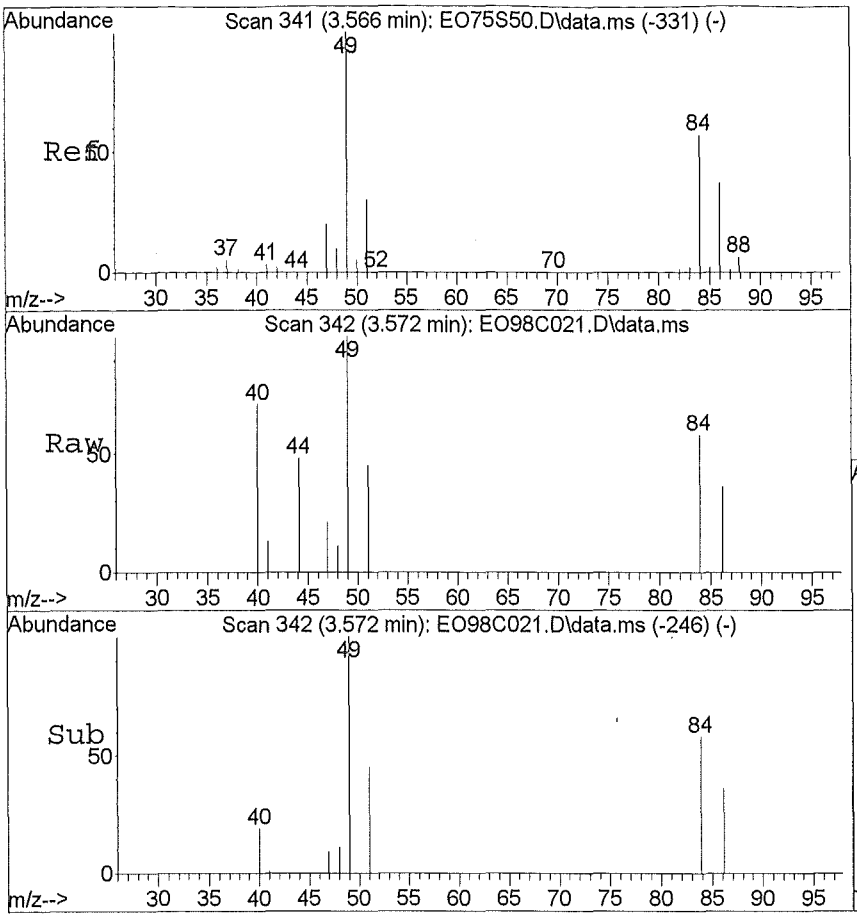


#13
Acetone
Concen: 3.89 ug/Kg
RT: 3.63 min Scan# 352
Delta R.T. 0.01 min
Lab File: EO98C021.D
Acq: 05/27/2015 21:42

Tgt Ion:43 Resp: 13082

Ion	Ratio	Lower	Upper
43	100		
58	25.1	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

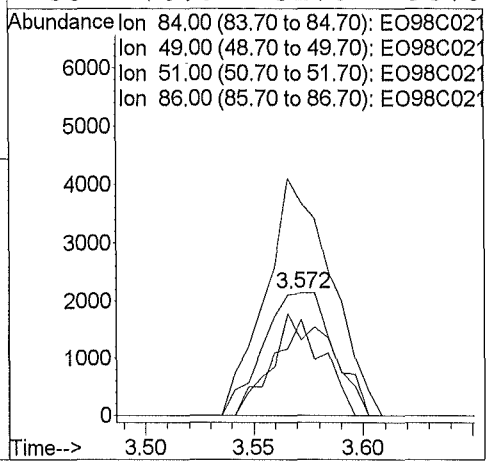


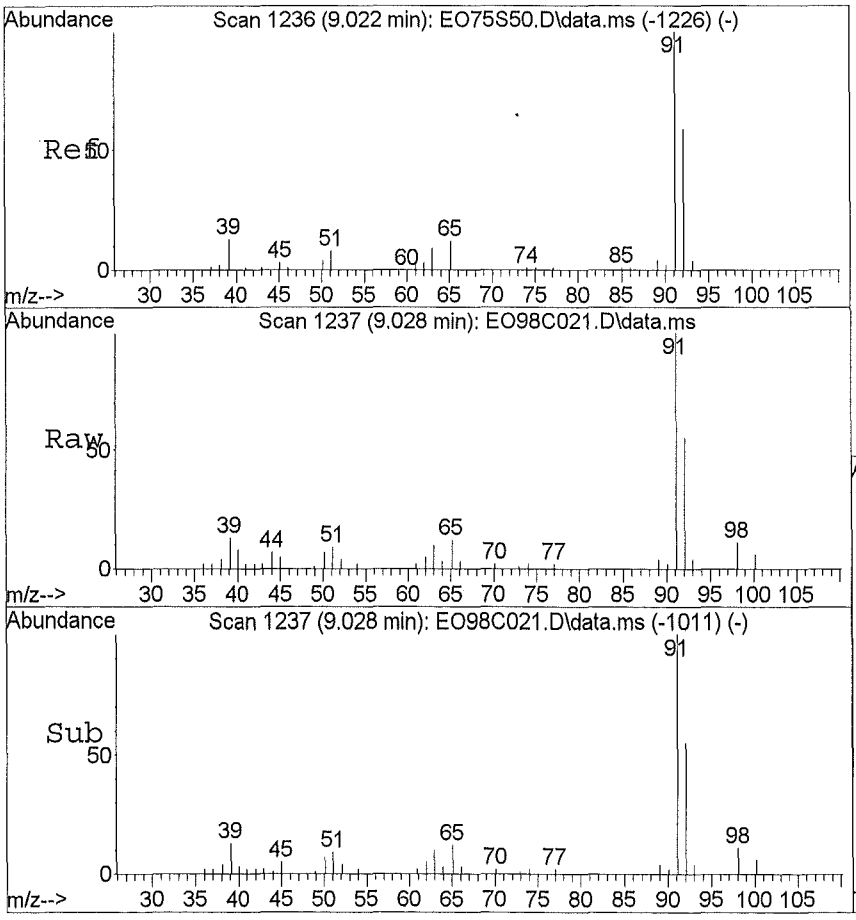


#16
Methylene chloride
Concen: 0.48 ug/Kg
RT: 3.57 min Scan# 342
Delta R.T. 0.00 min
Lab File: EO98C021.D
Acq: 05/27/2015 21:42

Tgt Ion:84 Resp: 4809

Ion	Ratio	Lower	Upper
84	100		
49	179.6	84.4	253.2
51	57.2	25.7	77.0
86	70.0	31.6	95.0

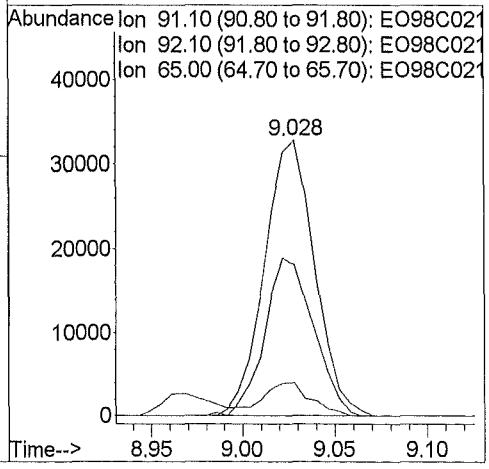




#48
Toluene
Concen: 1.37 ug/Kg
RT: 9.03 min Scan# 1237
Delta R.T. 0.01 min
Lab File: EO98C021.D
Acq: 05/27/2015 21:42

Tgt Ion:91.1 Resp: 62195

Ion	Ratio	Lower	Upper
91	100		
92	56.3	47.2	70.8
65	10.9	9.6	14.4
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L79

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293022

Sample wt/vol: 6.22 (g/mL) g Lab File ID: E099C022

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 12. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	4.6	U
74-87-3	Chloromethane	4.6	U
75-01-4	Vinyl chloride	4.6	U
74-83-9	Bromomethane	4.6	U
75-00-3	Chloroethane	4.6	U
75-69-4	Trichlorofluoromethane	0.17	J
75-35-4	1,1-Dichloroethene	4.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U
67-64-1	Acetone	3.6	J
75-15-0	Carbon disulfide	4.6	U
79-20-9	Methyl acetate	4.6	U
75-09-2	Methylene chloride	0.43	JB
156-60-5	trans-1,2-Dichloroethene	4.6	U
1634-04-4	Methyl tert-butyl ether	4.6	U
75-34-3	1,1-Dichloroethane	4.6	U
156-59-2	cis-1,2-Dichloroethene	4.6	U
78-93-3	2-Butanone	9.1	U
74-97-5	Bromochloromethane	4.6	U
67-66-3	Chloroform	4.6	U
71-55-6	1,1,1-Trichloroethane	4.6	U
110-82-7	Cyclohexane	4.6	U
56-23-5	Carbon tetrachloride	4.6	U
71-43-2	Benzene	4.6	U
107-06-2	1,2-Dichloroethane	4.6	U
123-91-1	1,4-Dioxane	91.	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L79

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293022

Sample wt/vol: 6.22 (g/mL) g Lab File ID: E099C022

Level: (TRACE/LOW/MED) LOW Date Received: 05/22/2015

% Moisture: not dec. 12. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	4.6	U
108-87-2	Methylcyclohexane	4.6	U
78-87-5	1,2-Dichloropropane	4.6	U
75-27-4	Bromodichloromethane	4.6	U
10061-01-5	cis-1,3-Dichloropropene	4.6	U
108-10-1	4-Methyl-2-Pentanone	9.1	U
108-88-3	Toluene	0.38	J
10061-02-6	trans-1,3-Dichloropropene	4.6	U
79-00-5	1,1,2-Trichloroethane	4.6	U
127-18-4	Tetrachloroethene	4.6	U
591-78-6	2-Hexanone	9.1	U
124-48-1	Dibromochloromethane	4.6	U
106-93-4	1,2-Dibromoethane	4.6	U
108-90-7	Chlorobenzene	4.6	U
100-41-4	Ethylbenzene	4.6	U
95-47-6	o-Xylene	4.6	U
179601-23-1	m,p-Xylene	4.6	U
100-42-5	Styrene	4.6	U
75-25-2	Bromoform	4.6	U
98-82-8	Isopropylbenzene	4.6	U
79-34-5	1,1,2,2-Tetrachloroethane	4.6	U
541-73-1	1,3-Dichlorobenzene	4.6	U
106-46-7	1,4-Dichlorobenzene	4.6	U
95-50-1	1,2-Dichlorobenzene	4.6	U
96-12-8	1,2-Dibromo-3-chloropropane	4.6	U
120-82-1	1,2,4-Trichlorobenzene	4.6	U
87-61-6	1,2,3-Trichlorobenzene	4.6	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L79

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293022
Sample wt/vol: 6.22 (g/mL) g Lab File ID: E099C022
Level: (TRACE or LOW/MED) LOW Date Received: 05/22/2015
% Moisture: not dec. 12. Date Analyzed: 05/27/2015
GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

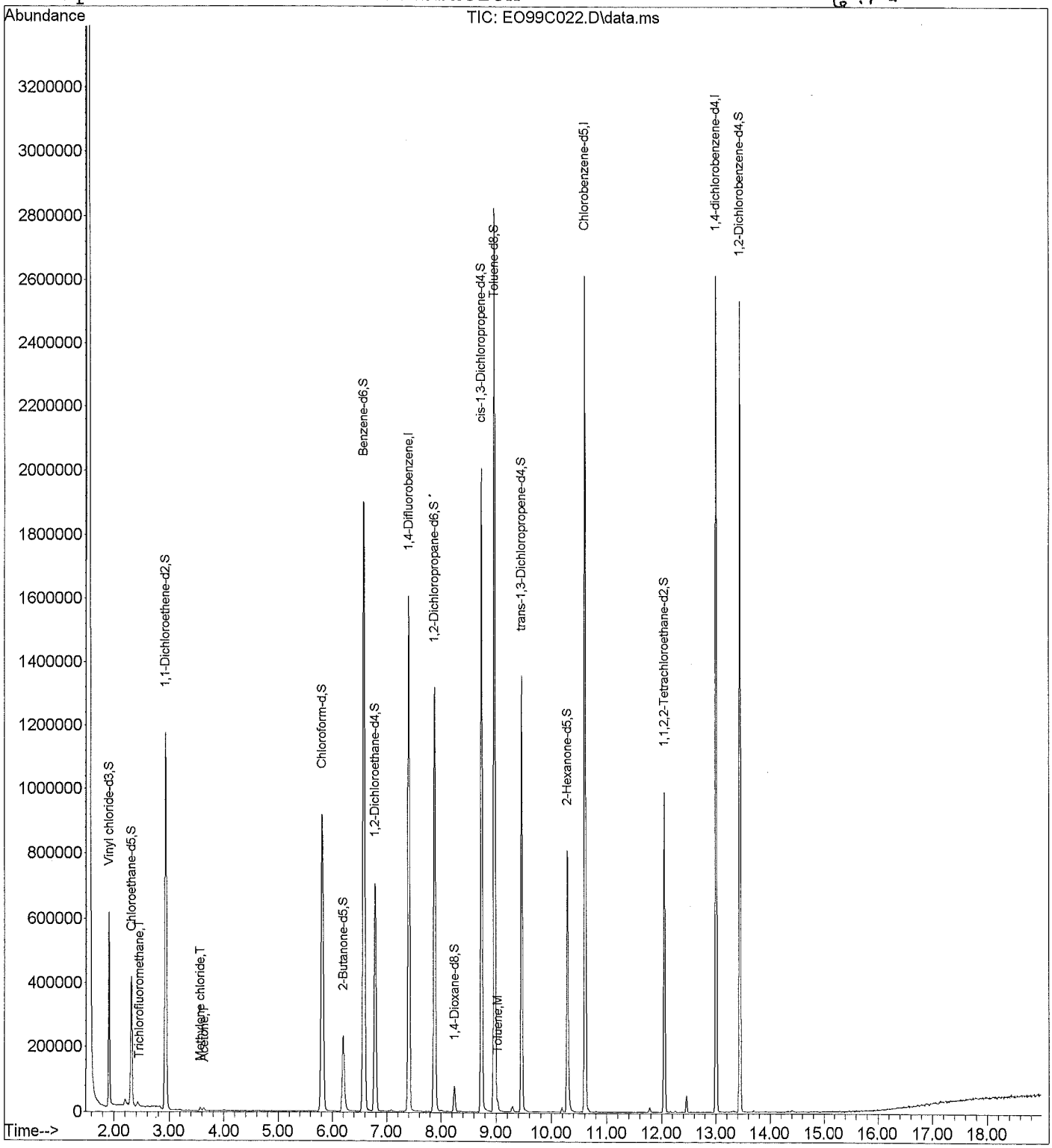
Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO99C022.D Vial: 20
Acq Time : 05/27/2015 22:06 Operator: CQC
Sample : 1514293022 F9L79 Inst : 5975-E
Misc : 1514293 6.22 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:39:24 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.5



Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO99C022.D Vial: 20
Acq Time : 05/27/2015 22:06 Operator: CQC
Sample : 1514293022 F9L79 Inst : 5975-E
Misc : 1514293 6.22 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:39:24 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1390538	50.0000 ug/Kg	77.11
30) Chlorobenzene-d5	10.61	117	1376165	50.0000 ug/Kg	83.36
62) 1,4-dichlorobenzene-d4	13.00	152	652651	50.0000 ug/Kg	75.00
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	509171	47.0473 ug/Kg	94.09%
8) Chloroethane-d5	2.32	69	398318	48.2833 ug/Kg	96.57%
11) 1,1-Dichloroethene-d2	2.93	63	914152	37.2258 ug/Kg	74.45%
22) 2-Butanone-d5	6.20	46	382567	116.4461 ug/Kg	116.45%
25) Chloroform-d	5.82	84	1020771	52.7894 ug/Kg	105.58%
27) 1,2-Dichloroethane-d4	6.78	65	607666	59.3483 ug/Kg	118.70%
29) 1,4-Dioxane-d8	8.24	96	55648	1097.6704 ug/Kg	109.77%
35) Benzene-d6	6.58	84	2039190	49.2573 ug/Kg	98.51%
39) 1,2-Dichloropropane-d6	7.88	67	629203	51.9727 ug/Kg	103.95%
42) cis-1,3-Dichloropropene-d4	8.74	79	1126254	52.0348 ug/Kg	104.07%
44) trans-1,3-Dichloropropene-	9.46	79	692121	50.4690 ug/Kg	100.94%
49) Toluene-d8	8.97	98	1896453	49.7699 ug/Kg	99.54%
52) 2-Hexanone-d5	10.28	63	237163	106.0195 ug/Kg	106.02%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	485967	49.6683 ug/Kg	99.34%
67) 1,2-Dichlorobenzene-d4	13.44	152	643432	52.8723 ug/Kg	105.74%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	2.46	101	2656	0.1917 ug/Kg#	84
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	12455	3.9022 ug/Kg	86
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	4523	0.4715 ug/Kg	95
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

00208

Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EO99C022.D Vial: 20
Acq Time : 05/27/2015 22:06 Operator: CQC
Sample : 1514293022 F9L79 Inst : 5975-E
Misc : 1514293 6.22 g Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

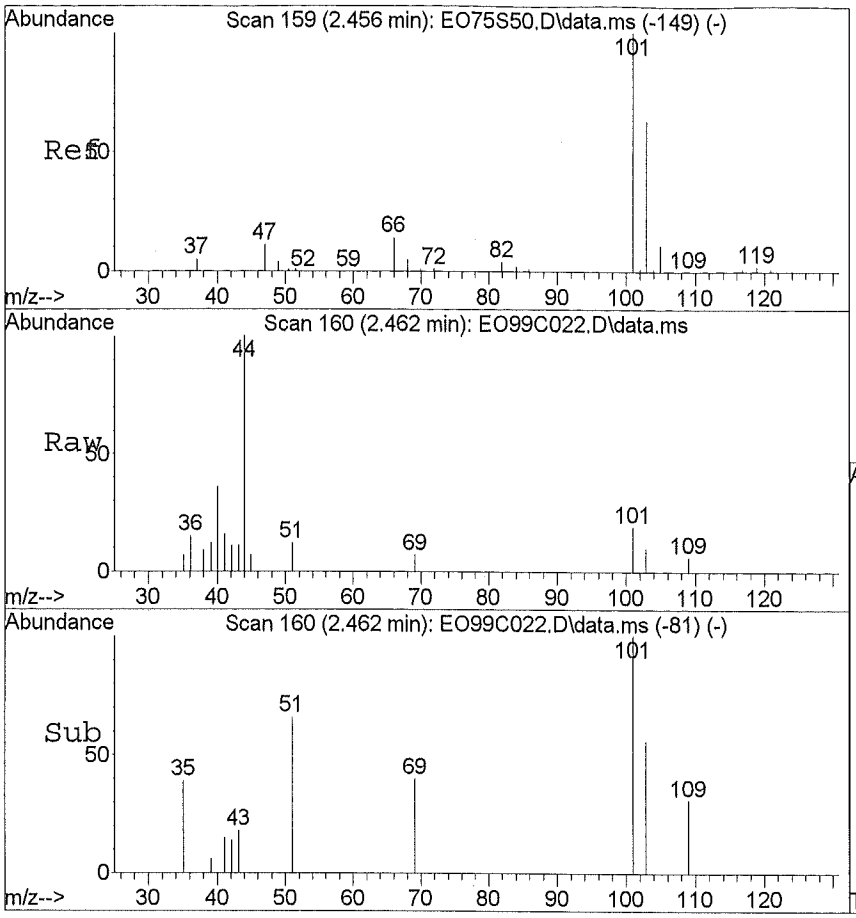
Quant Time: Jun 09 22:39:24 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	130		Not Detected	
37)	Methylcyclohexane	0.00	83		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	9.03	91	18567	0.4165 ug/Kg	96
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

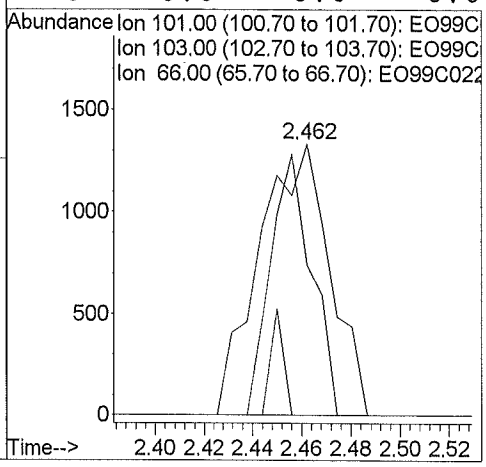
00209

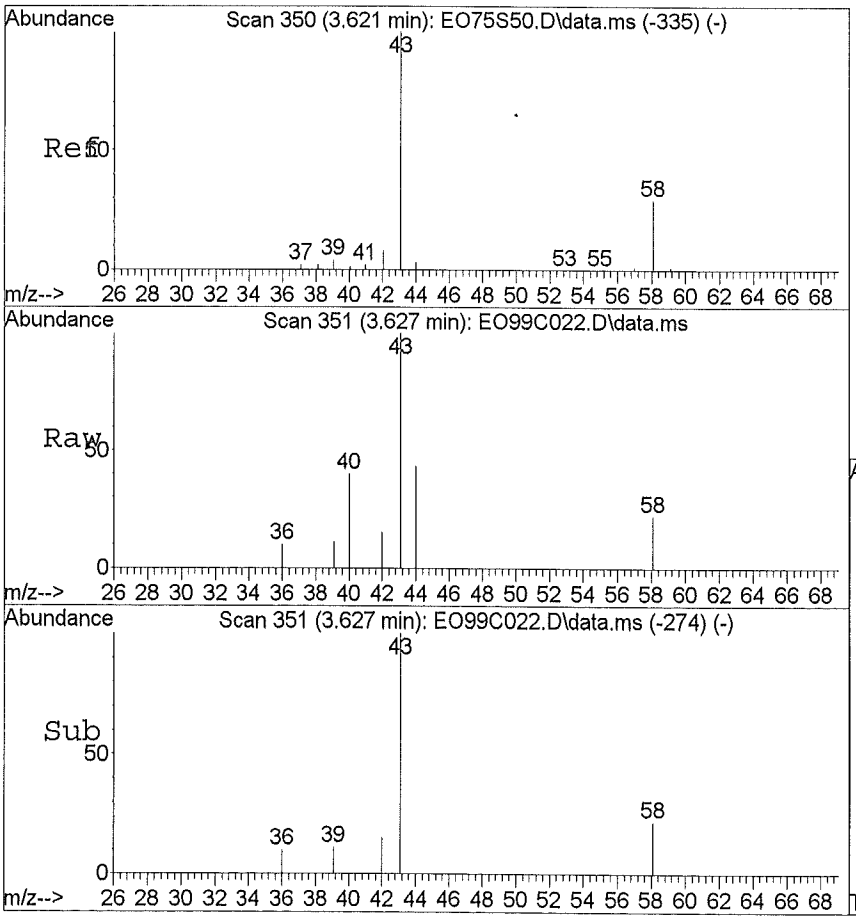


#9
Trichlorofluoromethane
Concen: 0.19 ug/Kg
RT: 2.46 min Scan# 160
Delta R.T. 0.01 min
Lab File: EO99C022.D
Acq: 05/27/2015 22:06

Tgt Ion:101 Resp: 2656

Ion	Ratio	Lower	Upper
101	100		
103	56.1	32.5	97.4
66	0.0	7.3	22.0#
0	0.0	0.0	0.0

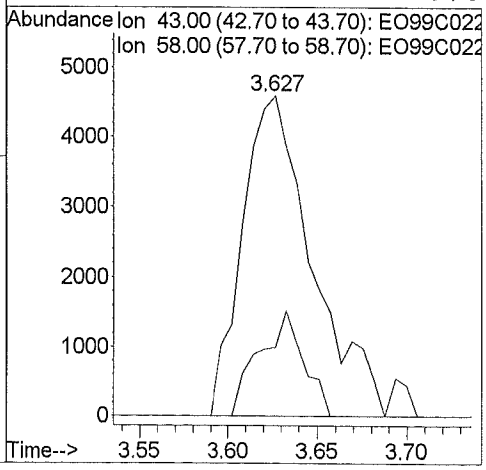


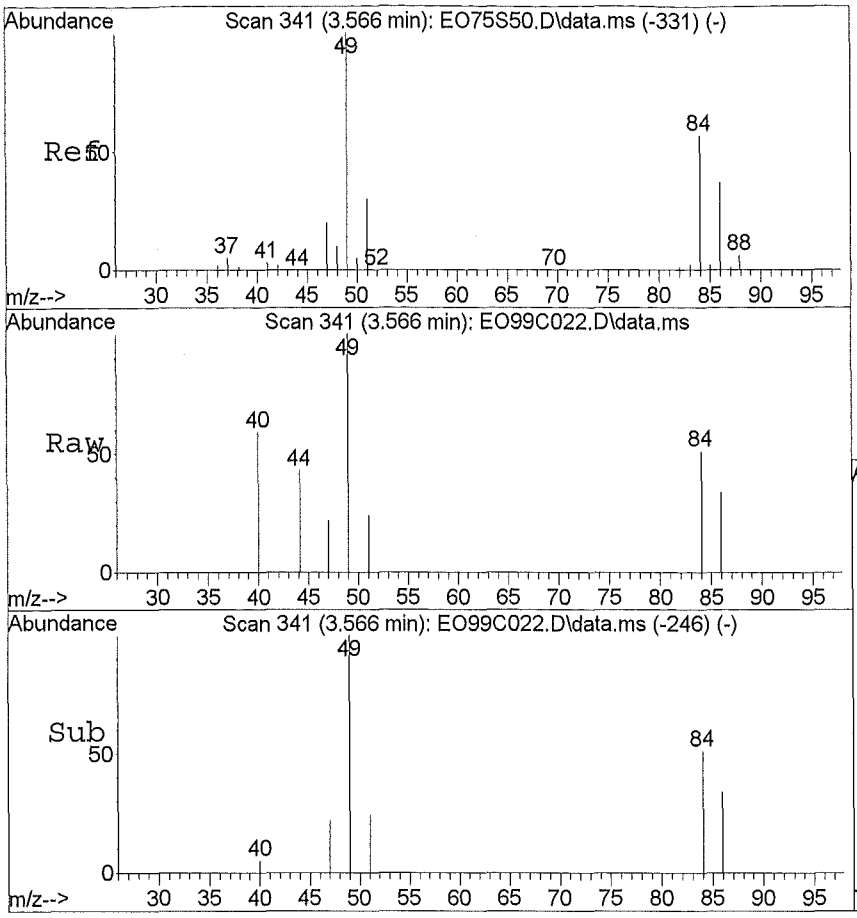


#13
Acetone
Concen: 3.90 ug/Kg
RT: 3.63 min Scan# 351
Delta R.T. 0.01 min
Lab File: EO99C022.D
Acq: 05/27/2015 22:06

Tgt Ion:43 Resp: 12455

Ion	Ratio	Lower	Upper
43	100		
58	21.0	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

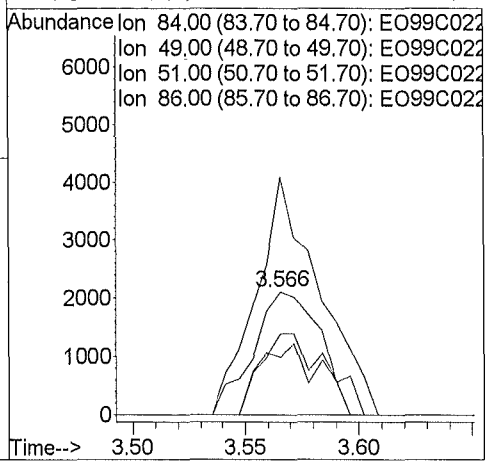


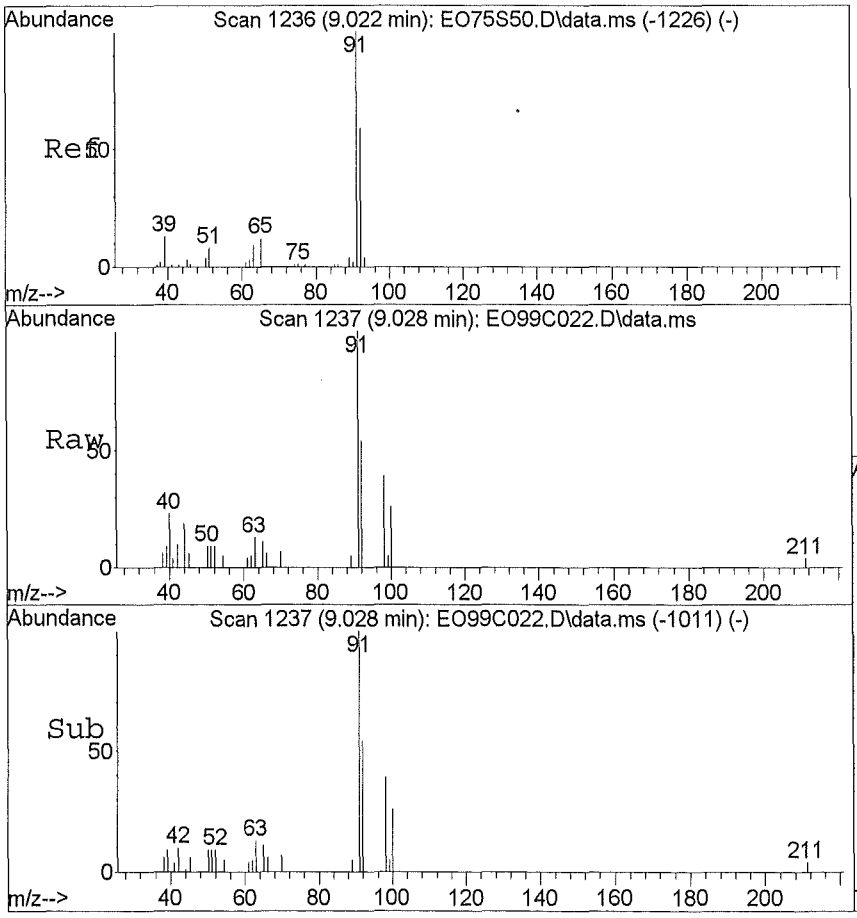


#16
Methylene chloride
Concen: 0.47 ug/Kg
RT: 3.57 min Scan# 341
Delta R.T. -0.01 min
Lab File: EO99C022.D
Acq: 05/27/2015 22:06

Tgt Ion:84 Resp: 4523

Ion	Ratio	Lower	Upper
84	100		
49	173.9	84.4	253.2
51	49.1	25.7	77.0
86	55.6	31.6	95.0

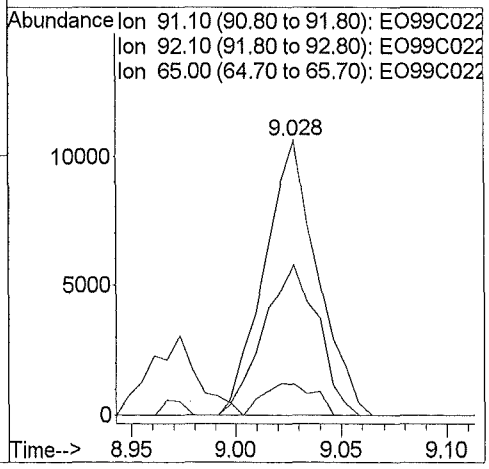




#48
Toluene
Concen: 0.42 ug/Kg
RT: 9.03 min Scan# 1237
Delta R.T. 0.01 min
Lab File: EO99C022.D
Acq: 05/27/2015 22:06

Tgt Ion:91.1 Resp: 18567

Ion	Ratio	Lower	Upper
91	100		
92	56.1	47.2	70.8
65	11.3	9.6	14.4
0	0.0	0.0	0.0



6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date(s): 05/15/2015 05/15/2015

Heated Purge: (Y/N) Y Calibration Time(s): 17:38 19:15

Purge Volume: 10.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: RRF 5.0 = E041S05 RRF 10 = E042S10

RRF 50 = E043S50 RRF 100 = E044S100 RRF 200 = E045S200

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	0.322	0.273	0.245	0.244	0.244	0.266	12.8
Chloromethane	0.549	0.469	0.421	0.416	0.421	0.455	12.4
Vinyl chloride	0.523	0.451	0.403	0.399	0.405	0.436	12.2
Bromomethane	0.281	0.245	0.212	0.218	0.216	0.234	12.4
Chloroethane	0.315	0.264	0.236	0.231	0.241	0.257	13.4
Trichlorofluoromethane	0.603	0.513	0.462	0.451	0.463	0.498	12.7
1,1-Dichloroethene	0.409	0.341	0.319	0.320	0.327	0.343	11.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.432	0.370	0.338	0.330	0.336	0.361	11.8
Acetone	0.142	0.104	0.099	0.115	0.114	0.115	14.4
Carbon disulfide	1.453	1.225	1.136	1.126	1.136	1.215	11.4
Methyl acetate	0.241	0.197	0.181	0.183	0.175	0.196	13.6
Methylene chloride	0.428	0.363	0.316	0.310	0.308	0.345	14.9
trans-1,2-Dichloroethene	0.421	0.369	0.338	0.340	0.344	0.362	9.7
Methyl tert-butyl ether	0.850	0.710	0.712	0.728	0.721	0.744	8.0
1,1-Dichloroethane	0.834	0.699	0.638	0.645	0.652	0.694	11.8
cis-1,2-Dichloroethene	0.411	0.350	0.334	0.344	0.348	0.357	8.6
2-Butanone	0.153	0.115	0.121	0.136	0.134	0.132	11.1
Bromochloromethane	0.200	0.160	0.148	0.150	0.148	0.161	13.7
Chloroform	0.752	0.634	0.580	0.586	0.590	0.628	11.5
1,1,1-Trichloroethane	0.775	0.657	0.599	0.600	0.609	0.648	11.6
Cyclohexane	0.873	0.767	0.787	0.814	0.840	0.816	5.2
Carbon tetrachloride	0.738	0.608	0.563	0.561	0.571	0.608	12.3
Benzene	1.765	1.485	1.398	1.416	1.436	1.500	10.1
1,2-Dichloroethane	0.526	0.438	0.411	0.409	0.405	0.438	11.7
1,4-Dioxane	0.0022	0.0018	0.0020	0.0020	0.0019	0.0020	6.8
Trichloroethene	0.461	0.391	0.376	0.375	0.384	0.397	9.1
Methylcyclohexane	0.717	0.630	0.686	0.705	0.738	0.695	5.9

Report 1,4-Dioxane for Low-Medium VOA analysis only

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date(s): 05/15/2015 05/15/2015

Heated Purge: (Y/N) Y Calibration Time(s): 17:38 19:15

Purge Volume: 10.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: RRF 5.0 = E041S05 RRF 10 = E042S10
RRF 50 = E043S50 RRF 100 = E044S100 RRF 200 = E045S200

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
1,2-Dichloropropane	0.471	0.384	0.366	0.359	0.359	0.388	12.3
Bromodichloromethane	0.579	0.483	0.459	0.447	0.452	0.484	11.3
cis-1,3-Dichloropropene	0.666	0.579	0.599	0.581	0.574	0.600	6.3
4-Methyl-2-Pentanone	0.295	0.256	0.271	0.267	0.254	0.269	6.1
Toluene	1.812	1.636	1.601	1.532	1.516	1.620	7.3
trans-1,3-Dichloropropene	0.587	0.524	0.528	0.513	0.503	0.531	6.2
1,1,2-Trichloroethane	0.334	0.281	0.263	0.250	0.241	0.274	13.5
Tetrachloroethene	0.407	0.351	0.333	0.320	0.323	0.347	10.3
2-Hexanone	0.237	0.197	0.224	0.232	0.224	0.223	6.9
Dibromochloromethane	0.416	0.340	0.329	0.322	0.319	0.345	11.7
1,2-Dibromoethane	0.308	0.256	0.248	0.240	0.234	0.257	11.5
Chlorobenzene	1.305	1.086	1.026	0.990	0.988	1.079	12.3
Ethylbenzene	2.155	1.844	1.847	1.774	1.748	1.874	8.7
o-Xylene	0.688	0.609	0.647	0.642	0.655	0.648	4.3
m,p-Xylene	0.756	0.653	0.675	0.666	0.677	0.686	5.9
Styrene	1.104	0.961	1.036	1.048	1.065	1.043	5.0
Bromoform	0.499	0.432	0.425	0.407	0.397	0.432	9.3
Isopropylbenzene	1.947	1.731	1.810	1.795	1.791	1.815	4.4
1,1,2,2-Tetrachloroethane	0.403	0.327	0.313	0.314	0.300	0.331	12.4
1,3-Dichlorobenzene	1.748	1.459	1.429	1.397	1.402	1.487	10.0
1,4-Dichlorobenzene	1.941	1.580	1.470	1.421	1.404	1.563	14.2
1,2-Dichlorobenzene	1.604	1.369	1.310	1.274	1.263	1.364	10.3
1,2-Dibromo-3-chloropropane	0.108	0.098	0.092	0.091	0.088	0.096	8.3
1,2,4-Trichlorobenzene	1.033	0.860	0.848	0.861	0.878	0.896	8.6
1,2,3-Trichlorobenzene	0.909	0.735	0.745	0.742	0.753	0.777	9.5

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date(s): 05/15/2015 05/15/2015

Heated Purge: (Y/N) Y Calibration Time(s): 17:38 19:15

Purge Volume: 10.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: RRF 5.0 = E041S05 RRF 10 = E042S10
RRF 50 = E043S50 RRF 100 = E044S100 RRF 200 = E045S200

COMPOUND	RRF 5.0	RRF 10	RRF 50	RRF 100	RRF 200	$\overline{RRF}$	%RSD
Vinyl chloride-d3	0.453	0.434	0.325	0.367	0.366	0.389	13.5
Chloroethane-d5	0.332	0.341	0.256	0.274	0.280	0.297	12.7
1,1-Dichloroethene-d2	0.993	0.941	0.805	0.836	0.840	0.883	9.1
2-Butanone-d5	0.130	0.121	0.108	0.118	0.114	0.118	6.9
Chloroform-d	0.789	0.754	0.626	0.658	0.649	0.695	10.3
1,2-Dichloroethane-d4	0.417	0.404	0.338	0.345	0.337	0.368	10.5
Benzene-d6	1.678	1.596	1.369	1.437	1.439	1.504	8.5
1,2-Dichloropropane-d6	0.503	0.471	0.406	0.410	0.409	0.440	10.1
Toluene-d8	1.462	1.479	1.347	1.328	1.306	1.384	5.8
trans-1,3-Dichloropropene-d4	0.527	0.518	0.491	0.484	0.472	0.498	4.6
2-Hexanone-d5	0.079	0.075	0.081	0.087	0.085	0.081	5.8
1,4-Dioxane-d8	0.0021	0.0019	0.0017	0.0018	0.0017	0.0018	10.7
1,1,2,2-Tetrachloroethane-d2	0.414	0.377	0.330	0.337	0.320	0.355	11.0
1,2-Dichlorobenzene-d4	1.048	1.019	0.869	0.870	0.856	0.932	10.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report

Data File : C:\msdchem\1\DATA\15MAY15E\EO41S05.D Vial: 2
Acq Time : 05/15/2015 17:38 Operator: CQC
Sample : VSTD005SE VSTD005SE 5.0 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28016; 0.25 uL o f28017, 19; 2 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 19 22:38:04 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:37:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\15MAY15E\EO43S50.D 5.19.15

Original w/ 45316
F91K24

TIC: EO41S05.D\data.ms

Quantitation Report

Data File : C:\msdchem\1\DATA\15MAY15E\EO41S05.D Vial: 2
Acq Time : 05/15/2015 17:38 Operator: CQC
Sample : VSTD005SE VSTD005SE 5.0 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28016; 0.25 uL o f28017, 19; 2 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 19 22:38:04 2015 Results File: ECLPSB2.RES

Quant Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:37:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\15MAY15E\EO43S50.D
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.39	114	1747999	50.0000	ug/Kg	96.93
30) Chlorobenzene-d5	10.60	117	1571411	50.0000	ug/Kg	95.18
62) 1,4-dichlorobenzene-d4	13.00	152	844803	50.0000	ug/Kg	97.09
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	79159	6.9572	ug/Kg	13.91%#
8) Chloroethane-d5	2.32	69	58102	6.4953	ug/Kg	12.99%#
11) 1,1-Dichloroethene-d2	2.93	63	173542	6.1701	ug/Kg	12.34%#
22) 2-Butanone-d5	6.20	46	45367	12.0422	ug/Kg	12.04%#
25) Chloroform-d	5.80	84	137905	6.3004	ug/Kg	12.60%#
27) 1,2-Dichloroethane-d4	6.78	65	72807	6.1589	ug/Kg	12.32%#
29) 1,4-Dioxane-d8	8.24	96	7385	127.1304	ug/Kg	12.71%#
35) Benzene-d6	6.57	84	263703	6.1268	ug/Kg	12.25%#
39) 1,2-Dichloropropane-d6	7.87	67	79050	6.1991	ug/Kg	12.40%#
42) cis-1,3-Dichloropropene-d4	8.73	79	130802	5.4758	ug/Kg	10.95%
44) trans-1,3-Dichloropropene-	9.45	79	82747	5.3660	ug/Kg	10.73%#
49) Toluene-d8	8.97	98	229747	5.4270	ug/Kg	10.85%#
52) 2-Hexanone-d5	10.28	63	24804	9.7568	ug/Kg	9.76%#
61) 1,1,2,2-Tetrachloroethane-	12.05	84	65015	6.2701	ug/Kg	12.54%#
67) 1,2-Dichlorobenzene-d4	13.44	152	88538	6.0287	ug/Kg	12.06%#
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.68	85	56320	6.5788	ug/Kg#	98
3) Chloromethane	1.84	50	95906	6.5104	ug/Kg	99
4) Vinyl chloride	1.91	62	91426	6.4923	ug/Kg	99
6) Bromomethane	2.21	94	49067	6.6154	ug/Kg	99
7) Chloroethane	2.33	64	54986	6.6684	ug/Kg	97
9) Trichlorofluoromethane	2.46	101	105472	6.5345	ug/Kg	99
10) 1,1-Dichloroethene	2.94	96	71483	6.4196	ug/Kg	97
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	75451	6.3924	ug/Kg	99
13) Acetone	3.61	43	49627	14.3031	ug/Kg	98
14) Carbon disulfide	2.98	76	253919	6.3925	ug/Kg	99
15) Methyl acetate	3.77	43	42129	6.6431	ug/Kg	99
16) Methylene chloride	3.57	84	74742	6.7738	ug/Kg	99
17) trans-1,2-Dichloroethene	3.76	96	73590	6.2308	ug/Kg	99
18) Methyl tert-butyl ether	3.89	73	148595	5.9734	ug/Kg	97
19) 1,1-Dichloroethane	4.58	63	145782	6.5365	ug/Kg	99
20) cis-1,2-Dichloroethene	5.42	96	71865	6.1602	ug/Kg	98
21) 2-Butanone	6.25	43	53336	12.5590	ug/Kg#	96
23) Bromochloromethane	5.71	128	34904	6.7439	ug/Kg	93
24) Chloroform	5.83	83	131442	6.4861	ug/Kg	99
26) 1,2-Dichloroethane	6.86	62	92017	6.4035	ug/Kg	98
28) 1,4-Dioxane	8.27	88	7727	108.7371	ug/Kg	91
31) 1,1,1-Trichloroethane	6.10	97	121834	6.4716	ug/Kg	99
32) Cyclohexane	5.71	56	137222	5.5504	ug/Kg	99
33) Carbon tetrachloride	6.00	117	115914	6.5479	ug/Kg	100
34) Benzene	6.61	78	277372	6.3152	ug/Kg#	98
36) Trichloroethene	7.35	130	72498	6.1362	ug/Kg	99
37) Methylcyclohexane	7.33	83	112624	5.2263	ug/Kg	95
38) 1,2-Dichloropropane	7.96	63	74024	6.4323	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

00216

Quantitation Report

Data File : C:\msdchem\1\DATA\15MAY15E\EO41S05.D Vial: 2
Acq Time : 05/15/2015 17:38 Operator: CQC
Sample : VSTD005SE VSTD005SE 5.0 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28016; 0.25 uL o f28017, 19; 2 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 19 22:38:04 2015 Results File: ECLPSB2.RES

Quant Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:37:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\15MAY15E\EO43S50.D
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40)	Bromodichloromethane	8.05	83	90909	6.3068	ug/Kg	100
41)	cis-1,3-Dichloropropene	8.76	75	104586	5.5552	ug/Kg	98
43)	trans-1,3-Dichloropropene	9.47	75	92292	5.5616	ug/Kg	97
45)	1,1,2-Trichloroethane	9.64	97	52477	6.3468	ug/Kg	99
46)	Dibromochloromethane	9.82	129	65297	6.3125	ug/Kg	100
47)	4-Methyl-2-pentanone	9.44	43	92664	10.8916	ug/Kg	99
48)	Toluene	9.02	91	284756	5.6586	ug/Kg	100
50)	Tetrachloroethene	9.43	164	63943	6.1132	ug/Kg	98
51)	2-Hexanone	10.32	43	74509	10.5759	ug/Kg	96
53)	1,2-Dibromoethane	10.06	107	48400	6.2168	ug/Kg	98
54)	Chlorobenzene	10.62	112	205043	6.3618	ug/Kg	95
55)	Ethylbenzene	10.66	91	338709	5.8343	ug/Kg	100
56)	m,p-Xylene	10.81	106	118851	5.5991	ug/Kg	100
57)	o-Xylene	11.25	106	108059	5.3134	ug/Kg	98
58)	Styrene	11.30	104	173486	5.3263	ug/Kg	99
59)	Isopropylbenzene	11.57	105	305952	5.3782	ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	12.06	83	63265	6.4234	ug/Kg	99
63)	Bromoform	11.32	173	42171	5.8734	ug/Kg	100
64)	1,3-Dichlorobenzene	12.92	146	147697	6.1170	ug/Kg	99
65)	1,4-Dichlorobenzene	13.02	146	163952	6.6016	ug/Kg#	72
66)	1,2-Dichlorobenzene	13.45	146	135511	6.1245	ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	14.28	75	9143	5.8753	ug/Kg	93
69)	1,2,4-Trichlorobenzene	15.00	180	87228	6.0869	ug/Kg	99
70)	1,2,3-Trichlorobenzene	15.54	180	76772	6.0973	ug/Kg	99

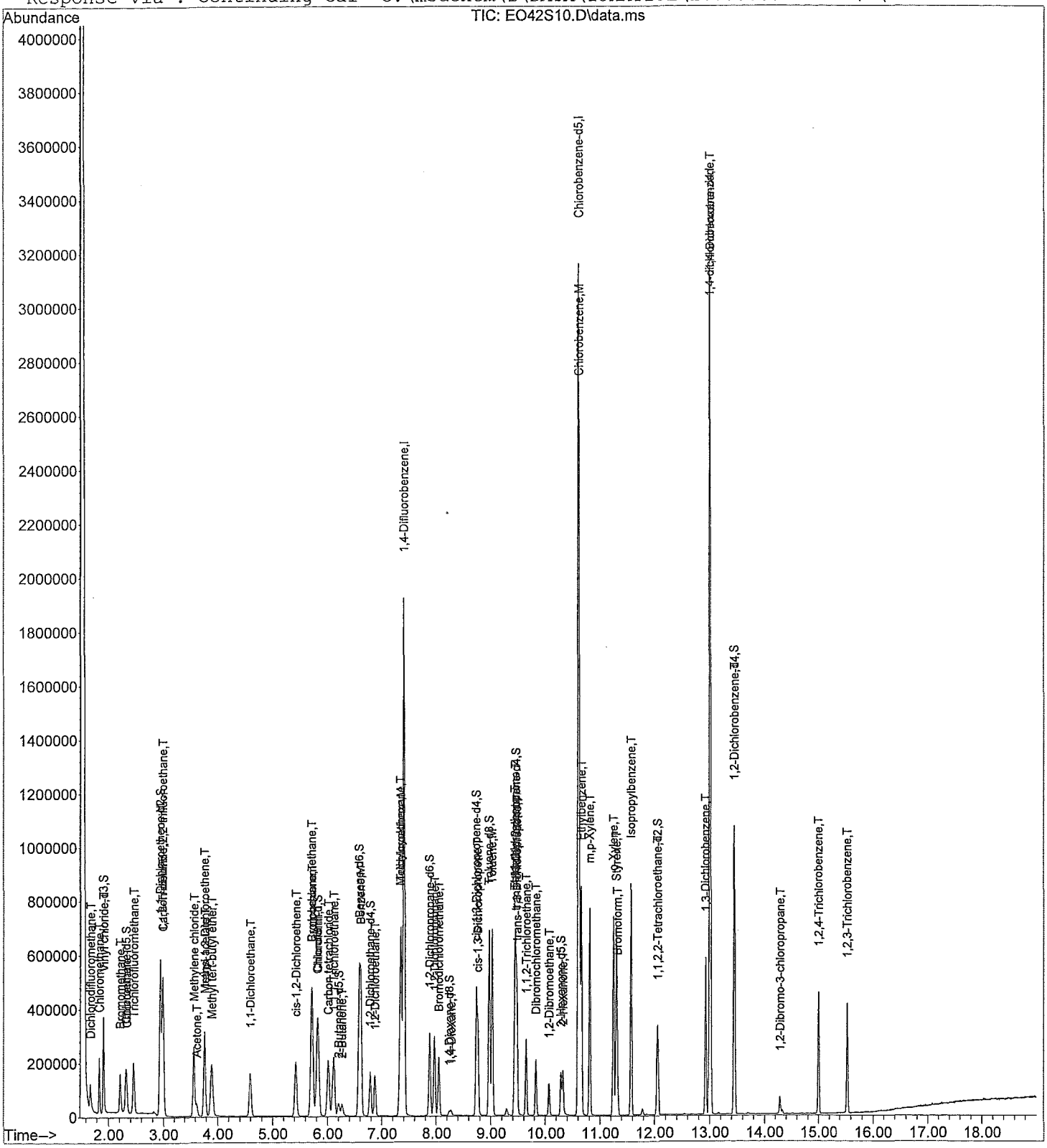
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\DATA\15MAY15E\EO42S10.D Vial: 3
Acq Time : 05/15/2015 18:02 Operator: CQC
Sample : VSTD010SE VSTD010SE 10 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28016; 0.5 uL o f28017, 19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 19 22:38:08 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:37:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\15MAY15E\EO43S50.D 5.19.15



00218

Quantitation Report

Data File : C:\msdchem\1\DATA\15MAY15E\EO42S10.D Vial: 3
Acq Time : 05/15/2015 18:02 Operator: CQC
Sample : VSTD010SE VSTD010SE 10 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28016; 0.5 uL o f28017, 19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 19 22:38:08 2015 Results File: ECLPSB2.RES

Quant Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:37:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\15MAY15E\EO43S50.D
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1700149	50.0000	ug/Kg	94.28
30) Chlorobenzene-d5	10.60	117	1566936	50.0000	ug/Kg	94.91
62) 1,4-dichlorobenzene-d4	13.00	152	808998	50.0000	ug/Kg	92.97
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	147500	13.3284	ug/Kg	26.66%#
8) Chloroethane-d5	2.31	69	115791	13.3088	ug/Kg	26.62%#
11) 1,1-Dichloroethene-d2	2.94	63	320101	11.7011	ug/Kg	23.40%#
22) 2-Butanone-d5	6.21	46	82358	22.4763	ug/Kg	22.48%#
25) Chloroform-d	5.81	84	256411	12.0442	ug/Kg	24.09%#
27) 1,2-Dichloroethane-d4	6.78	65	137305	11.9419	ug/Kg	23.88%#
29) 1,4-Dioxane-d8	8.24	96	13099	231.8415	ug/Kg	23.18%#
35) Benzene-d6	6.58	84	500238	11.6556	ug/Kg	23.31%#
39) 1,2-Dichloropropane-d6	7.88	67	147663	11.6128	ug/Kg	23.23%#
42) cis-1,3-Dichloropropene-d4	8.74	79	254342	10.6781	ug/Kg	21.36%
44) trans-1,3-Dichloropropene-	9.46	79	162297	10.5547	ug/Kg	21.11%#
49) Toluene-d8	8.97	98	463449	10.9786	ug/Kg	21.96%#
52) 2-Hexanone-d5	10.28	63	46988	18.5358	ug/Kg	18.54%#
61) 1,1,2,2-Tetrachloroethane-	12.05	84	118242	11.4360	ug/Kg	22.87%#
67) 1,2-Dichlorobenzene-d4	13.44	152	164800	11.7181	ug/Kg	23.44%#
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.68	85	92899	11.1570	ug/Kg#	99
3) Chloromethane	1.84	50	159584	11.1380	ug/Kg	99
4) Vinyl chloride	1.91	62	153261	11.1896	ug/Kg	100
6) Bromomethane	2.21	94	83313	11.5487	ug/Kg	97
7) Chloroethane	2.33	64	89643	11.1774	ug/Kg	99
9) Trichlorofluoromethane	2.46	101	174288	11.1018	ug/Kg	100
10) 1,1-Dichloroethene	2.94	96	115786	10.6909	ug/Kg	96
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	125943	10.9705	ug/Kg	99
13) Acetone	3.62	43	70676	20.9430	ug/Kg	100
14) Carbon disulfide	2.98	76	416415	10.7785	ug/Kg	99
15) Methyl acetate	3.78	43	67141	10.8850	ug/Kg	98
16) Methylene chloride	3.57	84	123535	11.5110	ug/Kg	99
17) trans-1,2-Dichloroethene	3.77	96	125386	10.9152	ug/Kg	100
18) Methyl tert-butyl ether	3.89	73	241416	9.9779	ug/Kg	97
19) 1,1-Dichloroethane	4.59	63	237629	10.9545	ug/Kg	99
20) cis-1,2-Dichloroethene	5.42	96	118844	10.4739	ug/Kg	98
21) 2-Butanone	6.26	43	78071	18.9007	ug/Kg	99
23) Bromochloromethane	5.71	128	54431	10.8128	ug/Kg	98
24) Chloroform	5.83	83	215625	10.9397	ug/Kg	97
26) 1,2-Dichloroethane	6.87	62	149042	10.6637	ug/Kg	99
28) 1,4-Dioxane	8.28	88	12569	181.8535	ug/Kg	94
31) 1,1,1-Trichloroethane	6.11	97	205741	10.9598	ug/Kg	99
32) Cyclohexane	5.72	56	240509	9.7559	ug/Kg	100
33) Carbon tetrachloride	6.02	117	190670	10.8016	ug/Kg	99
34) Benzene	6.61	78	465269	10.6235	ug/Kg#	98
36) Trichloroethene	7.35	130	122392	10.3888	ug/Kg	98
37) Methylcyclohexane	7.33	83	197539	9.1930	ug/Kg	94
38) 1,2-Dichloropropane	7.97	63	120259	10.4798	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

00219

Quantitation Report

Data File : C:\msdchem\1\DATA\15MAY15E\EO42S10.D Vial: 3
Acq Time : 05/15/2015 18:02 Operator: CQC
Sample : VSTD010SE VSTD010SE 10 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28016; 0.5 uL o f28017, 19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 19 22:38:08 2015 Results File: ECLPSB2.RES

Quant Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:37:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\15MAY15E\EO43S50.D
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40)	Bromodichloromethane	8.05	83	151491	10.5396	ug/Kg	99
41)	cis-1,3-Dichloropropene	8.77	75	181366	9.6610	ug/Kg	98
43)	trans-1,3-Dichloropropene	9.48	75	164303	9.9292	ug/Kg	99
45)	1,1,2-Trichloroethane	9.64	97	88084	10.6837	ug/Kg	98
46)	Dibromochloromethane	9.83	129	106444	10.3196	ug/Kg	99
47)	4-Methyl-2-pentanone	9.44	43	160639	18.9352	ug/Kg	98
48)	Toluene	9.02	91	512806	10.2195	ug/Kg	99
50)	Tetrachloroethene	9.43	164	109858	10.5328	ug/Kg	99
51)	2-Hexanone	10.32	43	123665	17.6033	ug/Kg	97
53)	1,2-Dibromoethane	10.07	107	80170	10.3269	ug/Kg	99
54)	Chlorobenzene	10.62	112	340253	10.5871	ug/Kg	97
55)	Ethylbenzene	10.66	91	577821	9.9814	ug/Kg	99
56)	m,p-Xylene	10.81	106	204629	9.6677	ug/Kg	100
57)	o-Xylene	11.25	106	190995	9.4182	ug/Kg	100
58)	Styrene	11.30	104	301254	9.2755	ug/Kg	99
59)	Isopropylbenzene	11.57	105	542574	9.5650	ug/Kg	100
60)	1,1,2,2-Tetrachloroethane	12.06	83	102555	10.4423	ug/Kg	99
63)	Bromoform	11.32	173	69943	10.1725	ug/Kg	99
64)	1,3-Dichlorobenzene	12.92	146	236005	10.2069	ug/Kg	100
65)	1,4-Dichlorobenzene	13.02	146	255599	10.7473	ug/Kg#	84
66)	1,2-Dichlorobenzene	13.45	146	221546	10.4561	ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	14.28	75	15907	10.6743	ug/Kg	97
69)	1,2,4-Trichlorobenzene	15.00	180	139088	10.1353	ug/Kg	98
70)	1,2,3-Trichlorobenzene	15.53	180	118926	9.8633	ug/Kg	96

(#) = qualifier out of range (m) = manual integration

000220

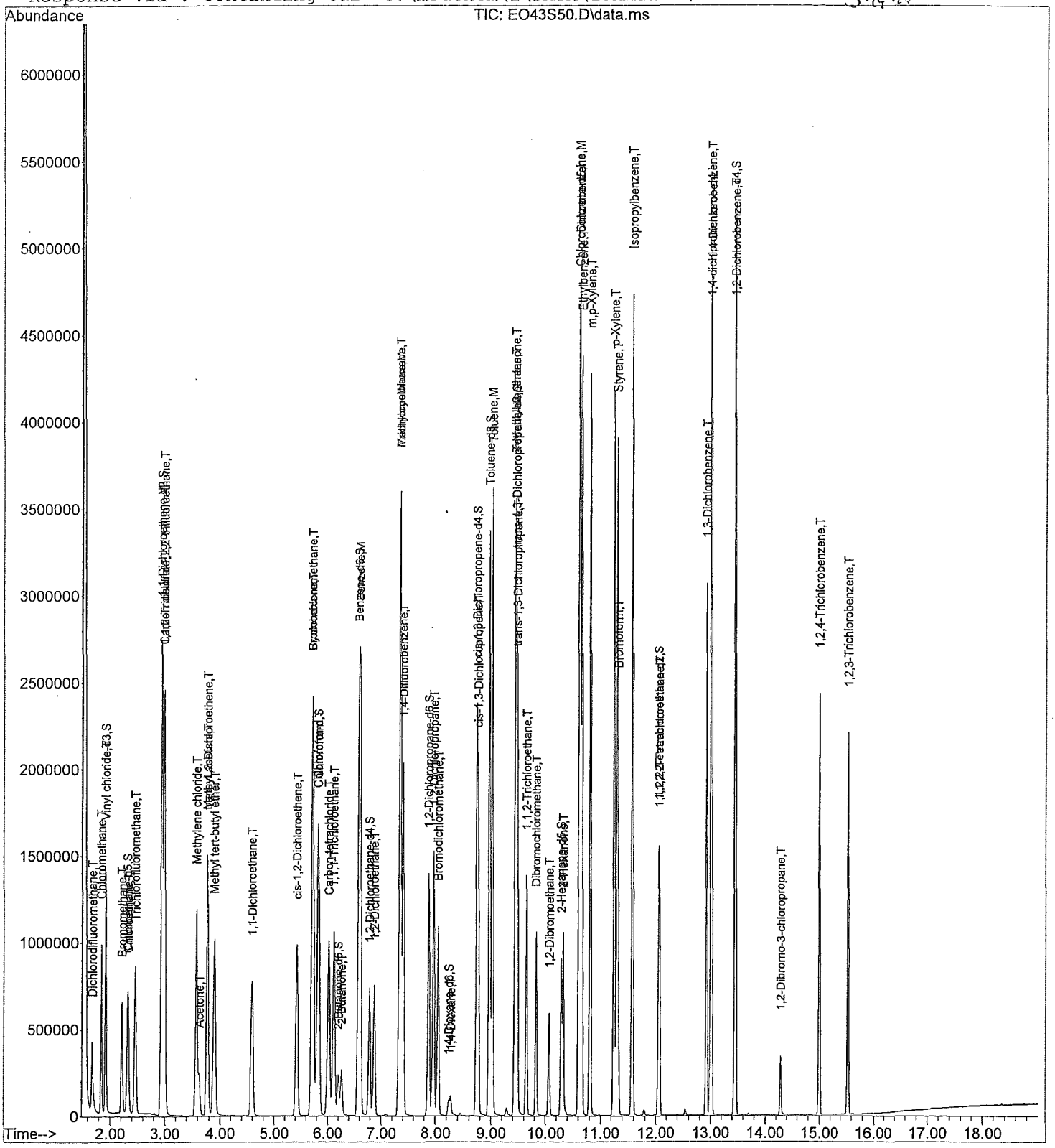
Quantitation Report

Data File : C:\msdchem\1\DATA\15MAY15E\EO43S50.D Vial: 4
Acq Time : 05/15/2015 18:26 Operator: CQC
Sample : VSTD050SE VSTD050SE 50 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28016; 2.5 uL o f28017, 19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 19 22:38:12 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:37:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\15MAY15E\EO43S50.D

5.19.15



Quantitation Report

Data File : C:\msdchem\1\DATA\15MAY15E\EO43S50.D Vial: 4
Acq Time : 05/15/2015 18:26 Operator: CQC
Sample : VSTD050SE VSTD050SE 50 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28016; 2.5 uL o f28017, 19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 19 22:38:12 2015 Results File: ECLPSB2.RES

Quant Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:37:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\15MAY15E\EO43S50.D
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1803338	50.0000	ug/Kg	100.00
30) Chlorobenzene-d5	10.60	117	1650933	50.0000	ug/Kg	100.00
62) 1,4-dichlorobenzene-d4	13.00	152	870159	50.0000	ug/Kg	100.00
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	586913	50.0000	ug/Kg	100.00%
8) Chloroethane-d5	2.31	69	461420	50.0000	ug/Kg	100.00%
11) 1,1-Dichloroethene-d2	2.94	63	1450838	50.0000	ug/Kg	100.00%
22) 2-Butanone-d5	6.19	46	388661	100.0000	ug/Kg	100.00%
25) Chloroform-d	5.81	84	1129063	50.0000	ug/Kg	100.00%
27) 1,2-Dichloroethane-d4	6.78	65	609779	50.0000	ug/Kg	100.00%
29) 1,4-Dioxane-d8	8.24	96	59929	1000.0000	ug/Kg	100.00%
35) Benzene-d6	6.58	84	2260941	50.0000	ug/Kg	100.00%
39) 1,2-Dichloropropane-d6	7.88	67	669859	50.0000	ug/Kg	100.00%
42) cis-1,3-Dichloropropene-d4	8.74	79	1254798	50.0000	ug/Kg	100.00%
44) trans-1,3-Dichloropropene-	9.46	79	810051	50.0000	ug/Kg	100.00%
49) Toluene-d8	8.97	98	2223834	50.0000	ug/Kg	100.00%
52) 2-Hexanone-d5	10.28	63	267088	100.0000	ug/Kg	100.00%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	544687	50.0000	ug/Kg	100.00%
67) 1,2-Dichlorobenzene-d4	13.44	152	756348	50.0000	ug/Kg	100.00%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.68	85	441594	50.0000	ug/Kg#	100
3) Chloromethane	1.84	50	759878	50.0000	ug/Kg	100
4) Vinyl chloride	1.92	62	726400	50.0000	ug/Kg	100
6) Bromomethane	2.21	94	382595	50.0000	ug/Kg	100
7) Chloroethane	2.33	64	425340	50.0000	ug/Kg	100
9) Trichlorofluoromethane	2.46	101	832595	50.0000	ug/Kg	100
10) 1,1-Dichloroethene	2.94	96	574382	50.0000	ug/Kg	100
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	608846	50.0000	ug/Kg	100
13) Acetone	3.62	43	357950	100.0000	ug/Kg	100
14) Carbon disulfide	2.98	76	2048932	50.0000	ug/Kg	100
15) Methyl acetate	3.77	43	327129	50.0000	ug/Kg	100
16) Methylene chloride	3.57	84	569163	50.0000	ug/Kg	100
17) trans-1,2-Dichloroethene	3.77	96	609226	50.0000	ug/Kg	100
18) Methyl tert-butyl ether	3.89	73	1283181	50.0000	ug/Kg	100
19) 1,1-Dichloroethane	4.59	63	1150448	50.0000	ug/Kg	100
20) cis-1,2-Dichloroethene	5.43	96	601770	50.0000	ug/Kg	100
21) 2-Butanone	6.26	43	438128	100.0000	ug/Kg	100
23) Bromochloromethane	5.71	128	266973	50.0000	ug/Kg	100
24) Chloroform	5.83	83	1045335	50.0000	ug/Kg	100
26) 1,2-Dichloroethane	6.87	62	741241	50.0000	ug/Kg	100
28) 1,4-Dioxane	8.28	88	73311	1000.0000	ug/Kg	100
31) 1,1,1-Trichloroethane	6.11	97	988930	50.0000	ug/Kg	100
32) Cyclohexane	5.72	56	1298705	50.0000	ug/Kg	100
33) Carbon tetrachloride	6.02	117	929911	50.0000	ug/Kg	100
34) Benzene	6.61	78	2307187	50.0000	ug/Kg#	100
36) Trichloroethene	7.35	130	620636	50.0000	ug/Kg	100
37) Methylcyclohexane	7.33	83	1131997	50.0000	ug/Kg	100
38) 1,2-Dichloropropane	7.97	63	604524	50.0000	ug/Kg	100

(#) = qualifier out of range (m) = manual integration

000222

Quantitation Report

Data File : C:\msdchem\1\DATA\15MAY15E\EO43S50.D Vial: 4
Acq Time : 05/15/2015 18:26 Operator: CQC
Sample : VSTD050SE VSTD050SE 50 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28016; 2.5 uL o f28017, 19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 19 22:38:12 2015 Results File: ECLPSB2.RES

Quant Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:37:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\15MAY15E\EO43S50.D
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40)	Bromodichloromethane	8.05	83	757199	50.0000	ug/Kg	100
41)	cis-1,3-Dichloropropene	8.77	75	988967	50.0000	ug/Kg	100
43)	trans-1,3-Dichloropropene	9.48	75	871721	50.0000	ug/Kg	100
45)	1,1,2-Trichloroethane	9.64	97	434335	50.0000	ug/Kg	100
46)	Dibromochloromethane	9.83	129	543381	50.0000	ug/Kg	100
47)	4-Methyl-2-pentanone	9.44	43	893841	100.0000	ug/Kg	100
48)	Toluene	9.02	91	2643460	50.0000	ug/Kg	100
50)	Tetrachloroethene	9.44	164	549461	50.0000	ug/Kg	100
51)	2-Hexanone	10.32	43	740169	100.0000	ug/Kg	100
53)	1,2-Dibromoethane	10.07	107	408969	50.0000	ug/Kg	100
54)	Chlorobenzene	10.62	112	1693067	50.0000	ug/Kg	100
55)	Ethylbenzene	10.66	91	3049651	50.0000	ug/Kg	100
56)	m,p-Xylene	10.81	106	1115050	50.0000	ug/Kg	100
57)	o-Xylene	11.25	106	1068321	50.0000	ug/Kg	100
58)	Styrene	11.30	104	1710978	50.0000	ug/Kg	100
59)	Isopropylbenzene	11.57	105	2988298	50.0000	ug/Kg	100
60)	1,1,2,2-Tetrachloroethane	12.06	83	517380	50.0000	ug/Kg	100
63)	Bromoform	11.32	173	369774	50.0000	ug/Kg	100
64)	1,3-Dichlorobenzene	12.92	146	1243509	50.0000	ug/Kg	100
65)	1,4-Dichlorobenzene	13.02	146	1279034	50.0000	ug/Kg	100
66)	1,2-Dichlorobenzene	13.45	146	1139499	50.0000	ug/Kg	100
68)	1,2-Dibromo-3-chloropropan	14.28	75	80144	50.0000	ug/Kg	100
69)	1,2,4-Trichlorobenzene	15.00	180	738032	50.0000	ug/Kg	100
70)	1,2,3-Trichlorobenzene	15.53	180	648452	50.0000	ug/Kg	100

(#) = qualifier out of range (m) = manual integration

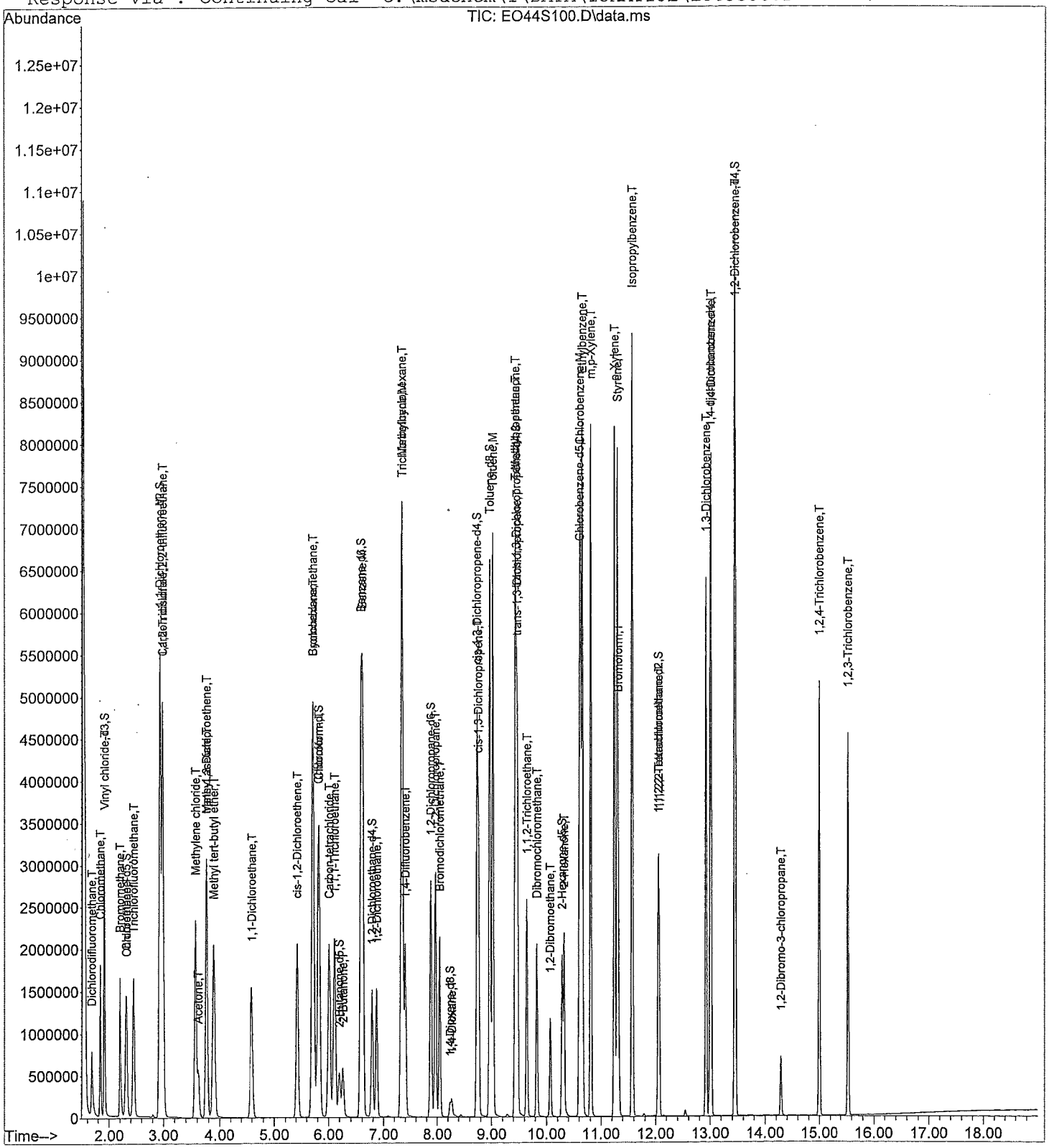
00223

Quantitation Report

Data File : C:\msdchem\1\DATA\15MAY15E\EO44S100.D Vial: 5
Acq Time : 05/15/2015 18:50 Operator: CQC
Sample : VSTD100SE VSTD100SE 100 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28016; 5.0 uL o f28017, 19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 19 22:38:16 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:37:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\15MAY15E\EO43S50.D 5.19.15



Quantitation Report

Data File : C:\msdchem\1\DATA\15MAY15E\EO44S100.D Vial: 5
Acq Time : 05/15/2015 18:50 Operator: CQC
Sample : VSTD100SE VSTD100SE 100 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28016; 5.0 uL o f28017, 19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 19 22:38:16 2015 Results File: ECLPSB2.RES

Quant Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:37:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\15MAY15E\EO43S50.D
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1812659	50.0000	ug/Kg	100.52
30) Chlorobenzene-d5	10.60	117	1647075	50.0000	ug/Kg	99.77
62) 1,4-dichlorobenzene-d4	13.00	152	908539	50.0000	ug/Kg	104.41
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	1332006	112.8921	ug/Kg	225.78%#
8) Chloroethane-d5	2.31	69	994688	107.2313	ug/Kg	214.46%#
11) 1,1-Dichloroethene-d2	2.93	63	3032072	103.9565	ug/Kg	207.91%#
22) 2-Butanone-d5	6.19	46	854917	218.8336	ug/Kg	218.83%#
25) Chloroform-d	5.81	84	2386485	105.1409	ug/Kg	210.28%#
27) 1,2-Dichloroethane-d4	6.78	65	1252135	102.1433	ug/Kg	204.29%#
29) 1,4-Dioxane-d8	8.24	96	127217	2111.8795	ug/Kg	211.19%#
35) Benzene-d6	6.58	84	4734824	104.9544	ug/Kg	209.91%#
39) 1,2-Dichloropropane-d6	7.88	67	1350759	101.0603	ug/Kg	202.12%#
42) cis-1,3-Dichloropropene-d4	8.74	79	2537425	101.3457	ug/Kg	202.69%#
44) trans-1,3-Dichloropropene-	9.46	79	1595304	98.7000	ug/Kg	197.40%#
49) Toluene-d8	8.97	98	4375691	98.6121	ug/Kg	197.22%#
52) 2-Hexanone-d5	10.28	63	572519	214.8580	ug/Kg	214.86%#
61) 1,1,2,2-Tetrachloroethane-	12.05	84	1109770	102.1109	ug/Kg	204.22%#
67) 1,2-Dichlorobenzene-d4	13.44	152	1580784	100.0866	ug/Kg	200.17%#
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.68	85	884682	99.6541	ug/Kg#	99
3) Chloromethane	1.83	50	1509191	98.7942	ug/Kg	100
4) Vinyl chloride	1.91	62	1445793	99.0060	ug/Kg	100
6) Bromomethane	2.20	94	791555	102.9136	ug/Kg	99
7) Chloroethane	2.33	64	838871	98.1047	ug/Kg	99
9) Trichlorofluoromethane	2.45	101	1633571	97.5967	ug/Kg	100
10) 1,1-Dichloroethene	2.94	96	1160080	100.4658	ug/Kg	99
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	1196440	97.7495	ug/Kg	99
13) Acetone	3.61	43	834151	231.8373	ug/Kg	100
14) Carbon disulfide	2.98	76	4082807	99.1202	ug/Kg	100
15) Methyl acetate	3.77	43	664004	100.9677	ug/Kg	99
16) Methylene chloride	3.57	84	1124672	98.2925	ug/Kg	99
17) trans-1,2-Dichloroethene	3.76	96	1233436	100.7092	ug/Kg	100
18) Methyl tert-butyl ether	3.89	73	2638165	102.2692	ug/Kg	99
19) 1,1-Dichloroethane	4.59	63	2337723	101.0781	ug/Kg	100
20) cis-1,2-Dichloroethene	5.42	96	1245588	102.9615	ug/Kg	99
21) 2-Butanone	6.25	43	984332	223.5124	ug/Kg	99
23) Bromochloromethane	5.71	128	544923	101.5310	ug/Kg	99
24) Chloroform	5.83	83	2124934	101.1163	ug/Kg	99
26) 1,2-Dichloroethane	6.87	62	1481632	99.4287	ug/Kg	100
28) 1,4-Dioxane	8.28	88	145549	1975.1546	ug/Kg	98
31) 1,1,1-Trichloroethane	6.11	97	1976149	100.1475	ug/Kg	100
32) Cyclohexane	5.71	56	2681405	103.4756	ug/Kg	99
33) Carbon tetrachloride	6.01	117	1848011	99.5977	ug/Kg	99
34) Benzene	6.61	78	4663161	101.2940	ug/Kg#	100
36) Trichloroethene	7.35	130	1236914	99.8823	ug/Kg	98
37) Methylcyclohexane	7.33	83	2323379	102.8634	ug/Kg	100
38) 1,2-Dichloropropane	7.97	63	1183418	98.1094	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

GC225

Quantitation Report

Data File : C:\msdchem\1\DATA\15MAY15E\EO44S100.D Vial: 5
Acq Time : 05/15/2015 18:50 Operator: CQC
Sample : VSTD100SE VSTD100SE 100 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28016; 5.0 uL o f28017, 19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 19 22:38:16 2015 Results File: ECLPSB2.RES

Quant Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:37:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\15MAY15E\EO43S50.D
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40)	Bromodichloromethane	8.05	83	1473690	97.5399	ug/Kg	99
41)	cis-1,3-Dichloropropene	8.77	75	1914287	97.0088	ug/Kg	100
43)	trans-1,3-Dichloropropene	9.47	75	1688388	97.0691	ug/Kg	100
45)	1,1,2-Trichloroethane	9.64	97	822379	94.8928	ug/Kg	99
46)	Dibromochloromethane	9.83	129	1060954	97.8539	ug/Kg	100
47)	4-Methyl-2-pentanone	9.44	43	1760497	197.4200	ug/Kg	100
48)	Toluene	9.02	91	5047120	95.6879	ug/Kg	100
50)	Tetrachloroethene	9.44	164	1053720	96.1113	ug/Kg	100
51)	2-Hexanone	10.32	43	1530160	207.2154	ug/Kg	100
53)	1,2-Dibromoethane	10.06	107	791373	96.9788	ug/Kg	99
54)	Chlorobenzene	10.62	112	3261570	96.5470	ug/Kg	100
55)	Ethylbenzene	10.66	91	5843803	96.0354	ug/Kg	100
56)	m,p-Xylene	10.81	106	2195120	98.6620	ug/Kg	99
57)	o-Xylene	11.25	106	2114426	99.1920	ug/Kg	100
58)	Styrene	11.30	104	3451740	101.1067	ug/Kg	100
59)	Isopropylbenzene	11.57	105	5913757	99.1804	ug/Kg	99
60)	1,1,2,2-Tetrachloroethane	12.06	83	1033667	100.1284	ug/Kg	99
63)	Bromoform	11.32	173	739166	95.7262	ug/Kg	99
64)	1,3-Dichlorobenzene	12.92	146	2537552	97.7217	ug/Kg	100
65)	1,4-Dichlorobenzene	13.02	146	2581683	96.6598	ug/Kg	98
66)	1,2-Dichlorobenzene	13.45	146	2314600	97.2718	ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	14.28	75	165807	99.0734	ug/Kg	98
69)	1,2,4-Trichlorobenzene	15.00	180	1564937	101.5422	ug/Kg	100
70)	1,2,3-Trichlorobenzene	15.53	180	1348508	99.5866	ug/Kg	99

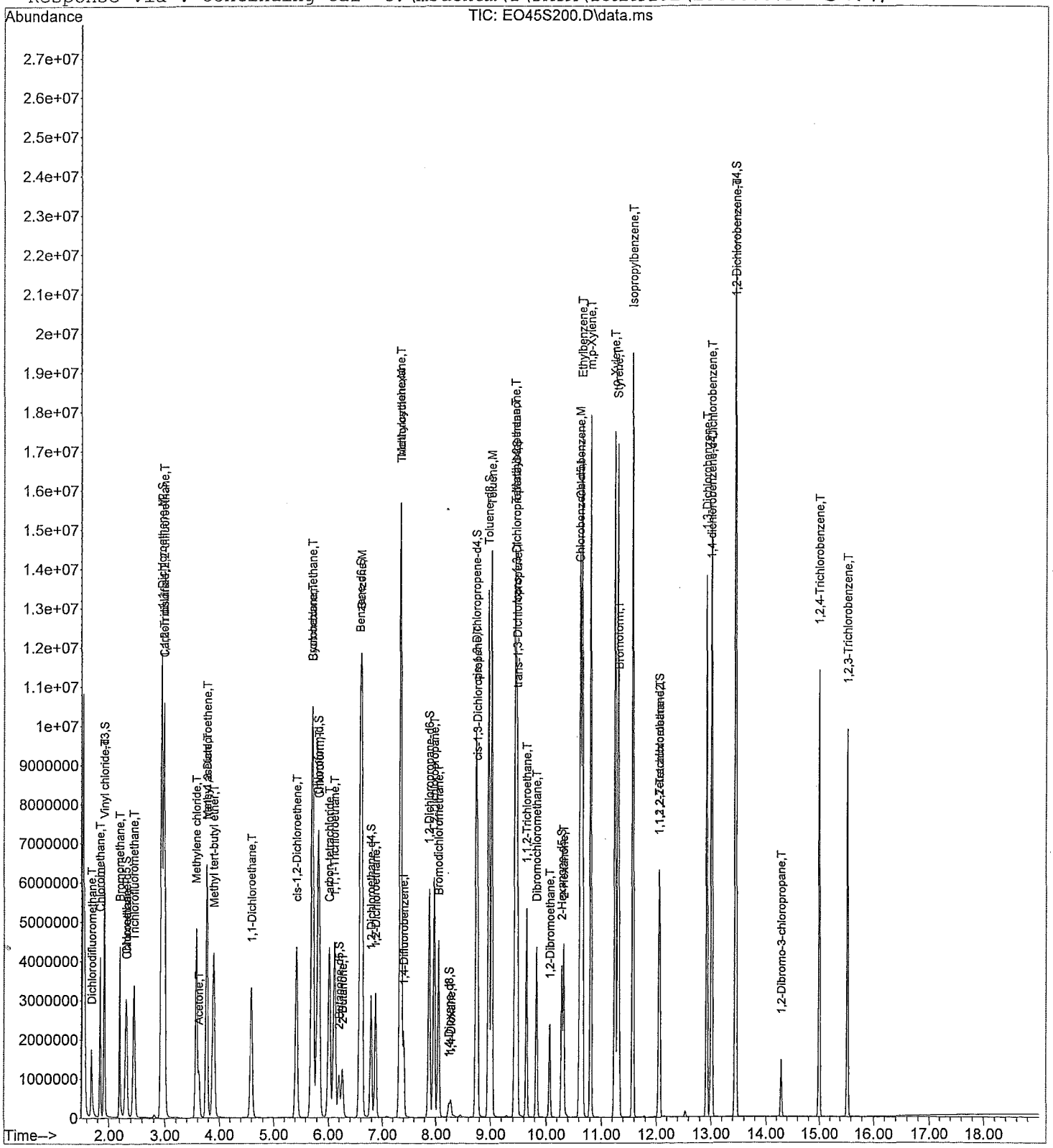
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\DATA\15MAY15E\EO45S200.D Vial: 6
Acq Time : 05/15/2015 19:15 Operator: CQC
Sample : VSTD200SE VSTD200SE 200 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28016; 10 uL o f28017, 19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 19 22:38:20 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:37:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\15MAY15E\EO43S50.D 5.18.15



Quantitation Report

Data File : C:\msdchem\1\DATA\15MAY15E\EO45S200.D Vial: 6
Acq Time : 05/15/2015 19:15 Operator: CQC
Sample : VSTD200SE VSTD200SE 200 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28016; 10 uL o f28017, 19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 19 22:38:20 2015 Results File: ECLPSB2.RES

Quant Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:37:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\15MAY15E\EO43S50.D
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1916360	50.0000	ug/Kg	106.27
30) Chlorobenzene-d5	10.61	117	1733583	50.0000	ug/Kg	105.01
62) 1,4-dichlorobenzene-d4	13.00	152	970196	50.0000	ug/Kg	111.50
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	2807300	225.0532	ug/Kg	450.11%#
8) Chloroethane-d5	2.31	69	2146336	218.8625	ug/Kg	437.72%#
11) 1,1-Dichloroethene-d2	2.93	63	6438385	208.7988	ug/Kg	417.60%#
22) 2-Butanone-d5	6.19	46	1749557	423.6012	ug/Kg	423.60%#
25) Chloroform-d	5.81	84	4975455	207.3408	ug/Kg	414.68%#
27) 1,2-Dichloroethane-d4	6.78	65	2583140	199.3175	ug/Kg	398.64%#
29) 1,4-Dioxane-d8	8.24	96	254461	3995.6205	ug/Kg	399.56%#
35) Benzene-d6	6.58	84	9981809	210.2204	ug/Kg	420.44%#
39) 1,2-Dichloropropane-d6	7.88	67	2838035	201.7387	ug/Kg	403.48%#
42) cis-1,3-Dichloropropene-d4	8.74	79	5253939	199.3729	ug/Kg	398.75%#
44) trans-1,3-Dichloropropene-	9.46	79	3272327	192.3531	ug/Kg	384.71%#
49) Toluene-d8	8.97	98	9056213	193.9095	ug/Kg	387.82%#
52) 2-Hexanone-d5	10.28	63	1174656	418.8332	ug/Kg	418.83%#
61) 1,1,2,2-Tetrachloroethane-	12.05	84	2216139	193.7335	ug/Kg	387.47%#
67) 1,2-Dichlorobenzene-d4	13.44	152	3321329	196.9243	ug/Kg	393.85%#
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.68	85	1872931	199.5578	ug/Kg#	98
3) Chloromethane	1.84	50	3225789	199.7387	ug/Kg	100
4) Vinyl chloride	1.92	62	3104734	201.1030	ug/Kg	100
6) Bromomethane	2.20	94	1654689	203.4919	ug/Kg	99
7) Chloroethane	2.33	64	1845344	204.1320	ug/Kg	99
9) Trichlorofluoromethane	2.45	101	3550908	200.6669	ug/Kg	100
10) 1,1-Dichloroethene	2.94	96	2508224	205.4639	ug/Kg	100
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	2572761	198.8209	ug/Kg	99
13) Acetone	3.62	43	1742675	458.1356	ug/Kg	99
14) Carbon disulfide	2.98	76	8707821	199.9641	ug/Kg	100
15) Methyl acetate	3.77	43	1343527	193.2402	ug/Kg	100
16) Methylene chloride	3.57	84	2361210	195.1947	ug/Kg	100
17) trans-1,2-Dichloroethene	3.77	96	2637432	203.6915	ug/Kg	99
18) Methyl tert-butyl ether	3.89	73	5524129	202.5564	ug/Kg	97
19) 1,1-Dichloroethane	4.59	63	4997429	204.3853	ug/Kg	100
20) cis-1,2-Dichloroethene	5.42	96	2669958	208.7584	ug/Kg	100
21) 2-Butanone	6.26	43	2056425	441.6842	ug/Kg	99
23) Bromochloromethane	5.71	128	1135277	200.0804	ug/Kg	99
24) Chloroform	5.83	83	4520800	203.4838	ug/Kg	100
26) 1,2-Dichloroethane	6.87	62	3103708	197.0114	ug/Kg	99
28) 1,4-Dioxane	8.27	88	294330	3778.0302	ug/Kg	99
31) 1,1,1-Trichloroethane	6.11	97	4220333	203.2057	ug/Kg	99
32) Cyclohexane	5.71	56	5824162	213.5393	ug/Kg	100
33) Carbon tetrachloride	6.02	117	3962045	202.8770	ug/Kg	100
34) Benzene	6.61	78	9956417	205.4826	ug/Kg#	99
36) Trichloroethene	7.35	130	2661831	204.2200	ug/Kg	97
37) Methylcyclohexane	7.33	83	5116427	215.2169	ug/Kg	100
38) 1,2-Dichloropropane	7.97	63	2492353	196.3138	ug/Kg	98

(#) = qualifier out of range (m) = manual integration

00228

Quantitation Report

Data File : C:\msdchem\1\DATA\15MAY15E\EO45S200.D Vial: 6
Acq Time : 05/15/2015 19:15 Operator: CQC
Sample : VSTD200SE VSTD200SE 200 ug/Kg ICS Inst : 5975-E
Misc : 2.5 uL of 28016; 10 uL o f28017, 19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 19 22:38:20 2015 Results File: ECLPSB2.RES

Quant Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:37:49 2015
Response via : Continuing Cal C:\msdchem\1\DATA\15MAY15E\EO43S50.D
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40)	Bromodichloromethane	8.05	83	3133753	197.0650	ug/Kg	99
41)	cis-1,3-Dichloropropene	8.77	75	3980240	191.6383	ug/Kg	99
43)	trans-1,3-Dichloropropene	9.48	75	3487068	190.4749	ug/Kg	99
45)	1,1,2-Trichloroethane	9.64	97	1672203	183.3239	ug/Kg	99
46)	Dibromochloromethane	9.83	129	2210817	193.7328	ug/Kg	99
47)	4-Methyl-2-pentanone	9.44	43	3521188	375.1576	ug/Kg	98
48)	Toluene	9.02	91	10510984	189.3326	ug/Kg	99
50)	Tetrachloroethene	9.44	164	2238849	194.0183	ug/Kg	99
51)	2-Hexanone	10.32	43	3105232	399.5287	ug/Kg	100
53)	1,2-Dibromoethane	10.07	107	1619601	188.5699	ug/Kg	99
54)	Chlorobenzene	10.62	112	6853089	192.7379	ug/Kg	100
55)	Ethylbenzene	10.66	91	12123210	189.2877	ug/Kg	98
56)	m,p-Xylene	10.81	106	4693498	200.4274	ug/Kg	98
57)	o-Xylene	11.25	106	4538930	202.3050	ug/Kg	99
58)	Styrene	11.30	104	7388314	205.6154	ug/Kg	99
59)	Isopropylbenzene	11.57	105	12421264	197.9232	ug/Kg	98
60)	1,1,2,2-Tetrachloroethane	12.06	83	2079656	191.3977	ug/Kg	99
63)	Bromoform	11.32	173	1541645	186.9636	ug/Kg	99
64)	1,3-Dichlorobenzene	12.92	146	5441134	196.2229	ug/Kg	99
65)	1,4-Dichlorobenzene	13.02	146	5449290	191.0588	ug/Kg	97
66)	1,2-Dichlorobenzene	13.45	146	4902844	192.9493	ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	14.28	75	343096	191.9790	ug/Kg	99
69)	1,2,4-Trichlorobenzene	15.00	180	3407217	207.0302	ug/Kg	100
70)	1,2,3-Trichlorobenzene	15.53	180	2920649	201.9811	ug/Kg	100

(#) = qualifier out of range (m) = manual integration

00229

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date: 05/26/2015 Time: 19:30

Lab File ID: E051S50 Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050S7 Init. Calib. Time(s): 17:38 19:15

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.266	0.257	0.010	-3.2	40.0
Chloromethane	0.455	0.471	0.010	3.4	40.0
Vinyl chloride	0.436	0.443	0.100	1.6	25.0
Bromomethane	0.234	0.247	0.100	5.3	25.0
Chloroethane	0.257	0.269	0.010	4.4	40.0
Trichlorofluoromethane	0.498	0.529	0.010	6.1	40.0
1,1-Dichloroethene	0.343	0.363	0.100	5.9	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.361	0.376	0.010	4.1	40.0
Acetone	0.115	0.155	0.010	35.0	40.0
Carbon disulfide	1.215	1.270	0.010	4.5	40.0
Methyl acetate	0.196	0.227	0.010	16.1	40.0
Methylene chloride	0.345	0.361	0.010	4.6	40.0
trans-1,2-Dichloroethene	0.362	0.383	0.010	5.7	40.0
Methyl tert-butyl ether	0.744	0.821	0.010	10.4	40.0
1,1-Dichloroethane	0.694	0.737	0.200	6.2	25.0
cis-1,2-Dichloroethene	0.357	0.379	0.010	6.0	40.0
2-Butanone	0.132	0.173	0.010	31.1	40.0
Bromochloromethane	0.161	0.175	0.050	8.6	25.0
Chloroform	0.628	0.673	0.200	7.0	25.0
1,1,1-Trichloroethane	0.648	0.695	0.100	7.3	25.0
Cyclohexane	0.816	0.915	0.010	12.1	40.0
Carbon tetrachloride	0.608	0.656	0.100	7.9	25.0
Benzene	1.500	1.662	0.400	10.8	25.0
1,2-Dichloroethane	0.438	0.484	0.100	10.5	25.0
1,4-Dioxane	0.0020	0.0024	0.0050	18.2	50.0
Trichloroethene	0.397	0.444	0.300	11.6	25.0
Methylcyclohexane	0.695	0.794	0.010	14.2	40.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date: 05/26/2015 Time: 19:30

Lab File ID: E051S50 Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050S7 Init. Calib. Time(s): 17:38 19:15

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.388	0.424	0.010	9.2	40.0
Bromodichloromethane	0.484	0.539	0.200	11.3	25.0
cis-1,3-Dichloropropene	0.600	0.664	0.200	10.6	25.0
4-Methyl-2-Pentanone	0.269	0.323	0.010	20.3	40.0
Toluene	1.620	1.763	0.400	8.9	25.0
trans-1,3-Dichloropropene	0.531	0.595	0.100	12.0	25.0
1,1,2-Trichloroethane	0.274	0.298	0.100	9.0	25.0
Tetrachloroethene	0.347	0.367	0.100	5.9	25.0
2-Hexanone	0.223	0.295	0.010	32.5	40.0
Dibromochloromethane	0.345	0.380	0.100	10.2	25.0
1,2-Dibromoethane	0.257	0.281	0.010	9.5	40.0
Chlorobenzene	1.079	1.140	0.500	5.7	25.0
Ethylbenzene	1.874	2.039	0.100	8.8	25.0
o-Xylene	0.648	0.720	0.300	11.1	25.0
m,p-Xylene	0.686	0.751	0.300	9.6	25.0
Styrene	1.043	1.192	0.300	14.3	25.0
Bromoform	0.432	0.495	0.050	14.6	25.0
Isopropylbenzene	1.815	2.031	0.010	11.9	40.0
1,1,2,2-Tetrachloroethane	0.331	0.380	0.300	14.6	25.0
1,3-Dichlorobenzene	1.487	1.594	0.600	7.2	25.0
1,4-Dichlorobenzene	1.563	1.657	0.500	6.0	25.0
1,2-Dichlorobenzene	1.364	1.484	0.400	8.8	25.0
1,2-Dibromo-3-chloropropane	0.096	0.117	0.010	21.9	40.0
1,2,4-Trichlorobenzene	0.896	0.969	0.200	8.1	25.0
1,2,3-Trichlorobenzene	0.777	0.864	0.200	11.2	25.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date: 05/26/2015 Time: 19:30

Lab File ID: E051S50 Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050S7 Init. Calib. Time(s): 17:38 19:15

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.389	0.363	0.010	-6.7	25.0
Chloroethane-d5	0.297	0.286	0.010	-3.5	40.0
1,1-Dichloroethene-d2	0.883	0.861	0.010	-2.5	25.0
2-Butanone-d5	0.118	0.135	0.010	14.2	40.0
Chloroform-d	0.695	0.688	0.010	-1.0	25.0
1,2-Dichloroethane-d4	0.368	0.379	0.010	2.8	25.0
Benzene-d6	1.504	1.536	0.010	2.1	25.0
1,2-Dichloropropane-d6	0.440	0.440	0.010	0.1	40.0
Toluene-d8	1.384	1.373	0.010	-0.8	25.0
trans-1,3-Dichloropropene-d4	0.498	0.522	0.010	4.8	25.0
2-Hexanone-d5	0.081	0.092	0.010	13.6	40.0
1,4-Dioxane-d8	0.0018	0.0019	0.0050	3.3	50.0
1,1,2,2-Tetrachloroethane-d2	0.355	0.380	0.010	6.9	25.0
1,2-Dichlorobenzene-d4	0.932	0.937	0.010	0.5	25.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

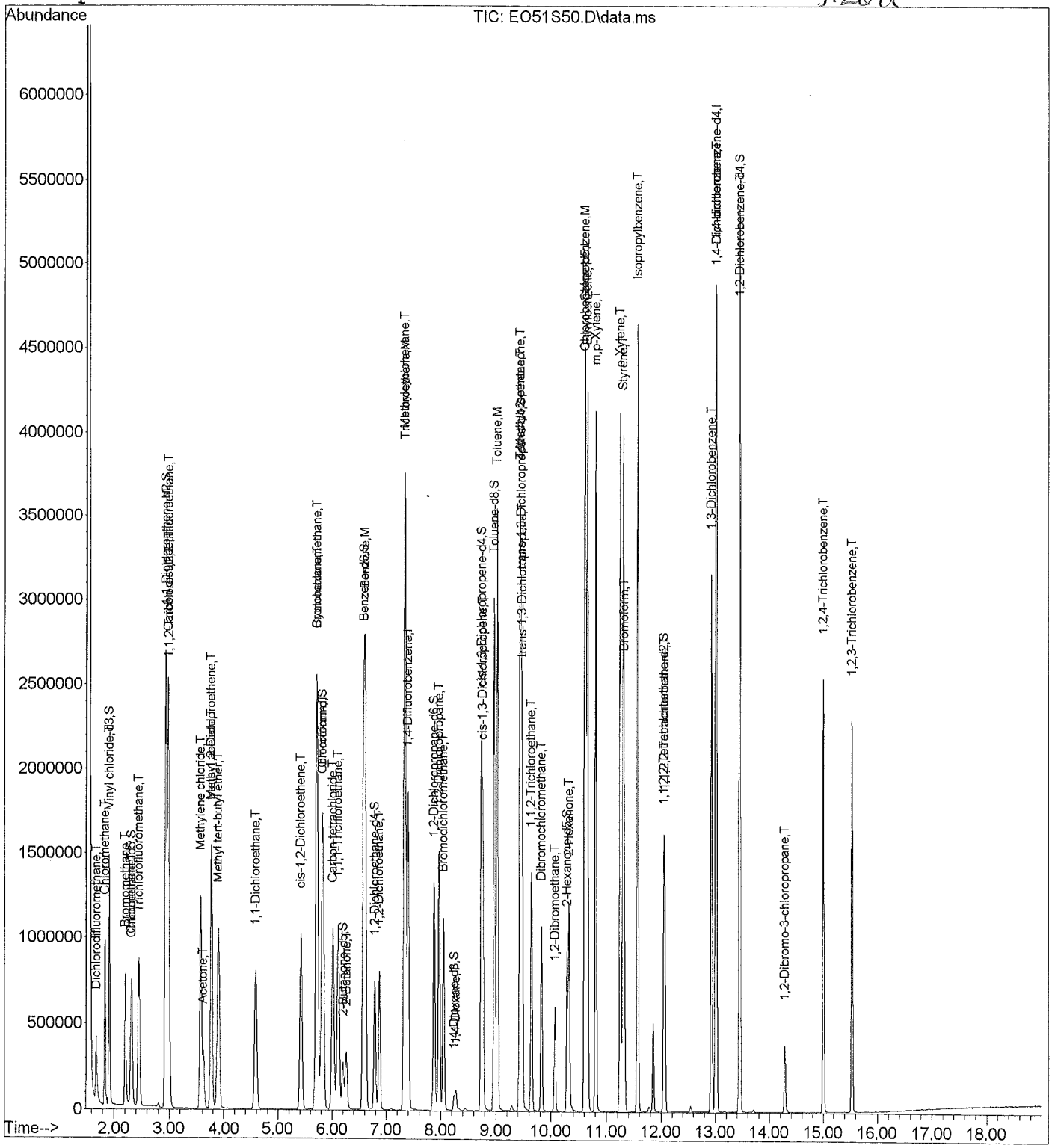
Quantitation Report

Data File : C:\msdchem\1\DATA\26MAY15E\EO51S50.D Vial: 2
Acq Time : 05/26/2015 19:30 Operator: CQC
Sample : VSTD050S7 VSTD050S7 50 ug/Kg CVS Inst : 5975-E
Misc : 2.5 uL of 28018, 19; 2.0 uL of 27660 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 26 19:49:11 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration

5.26.15



Quantitation Report

Data File : C:\msdchem\1\DATA\26MAY15E\EO51S50.D Vial: 2
Acq Time : 05/26/2015 19:30 Operator: CQC
Sample : VSTD050S7 VSTD050S7 50 ug/Kg CVS Inst : 5975-E
Misc : 2.5 uL of 28018, 19; 2.0 uL of 27660 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 26 19:49:11 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1639838	50.0000	ug/Kg	90.93
30) Chlorobenzene-d5	10.60	117	1452073	50.0000	ug/Kg	87.95
62) 1,4-dichlorobenzene-d4	13.00	152	795149	50.0000	ug/Kg	91.38
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	595589	46.6659	ug/Kg	93.33%
8) Chloroethane-d5	2.31	69	469180	48.2268	ug/Kg	96.45%
11) 1,1-Dichloroethene-d2	2.93	63	1411207	48.7302	ug/Kg	97.46%
22) 2-Butanone-d5	6.19	46	442407	114.1882	ug/Kg	114.19%
25) Chloroform-d	5.81	84	1128452	49.4862	ug/Kg	98.97%
27) 1,2-Dichloroethane-d4	6.78	65	620789	51.4126	ug/Kg	102.83%
29) 1,4-Dioxane-d8	8.24	96	61749	1032.8428	ug/Kg	103.28%
35) Benzene-d6	6.58	84	2231066	51.0749	ug/Kg	102.15%
39) 1,2-Dichloropropane-d6	7.88	67	639287	50.0452	ug/Kg	100.09%
42) cis-1,3-Dichloropropene-d4	8.74	79	1158791	50.7394	ug/Kg	101.48%
44) trans-1,3-Dichloropropene-	9.46	79	757984	52.3823	ug/Kg	104.76%
49) Toluene-d8	8.97	98	1993245	49.5755	ug/Kg	99.15%
52) 2-Hexanone-d5	10.28	63	268240	113.6434	ug/Kg	113.64%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	551833	53.4518	ug/Kg	106.90%
67) 1,2-Dichlorobenzene-d4	13.44	152	745209	50.2616	ug/Kg	100.52%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.68	85	422005	48.4226	ug/Kg#	99
3) Chloromethane	1.84	50	771681	51.6790	ug/Kg	99
4) Vinyl chloride	1.91	62	726465	50.7945	ug/Kg	99
6) Bromomethane	2.21	94	404663	52.6349	ug/Kg	99
7) Chloroethane	2.33	64	440489	52.2119	ug/Kg	100
9) Trichlorofluoromethane	2.45	101	866714	53.0342	ug/Kg	100
10) 1,1-Dichloroethene	2.94	96	595912	52.9679	ug/Kg	96
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	616228	52.0391	ug/Kg	100
13) Acetone	3.62	43	507996	134.9605	ug/Kg	99
14) Carbon disulfide	2.98	76	2082555	52.2569	ug/Kg	99
15) Methyl acetate	3.77	43	372413	58.0353	ug/Kg	99
16) Methylene chloride	3.57	84	591452	52.2790	ug/Kg	100
17) trans-1,2-Dichloroethene	3.76	96	628328	52.8685	ug/Kg	99
18) Methyl tert-butyl ether	3.89	73	1346616	55.1875	ug/Kg	100
19) 1,1-Dichloroethane	4.59	63	1207834	53.1032	ug/Kg	100
20) cis-1,2-Dichloroethene	5.42	96	620745	52.9804	ug/Kg	99
21) 2-Butanone	6.26	43	566471	131.1011	ug/Kg	100
23) Bromochloromethane	5.71	128	287086	54.2876	ug/Kg	99
24) Chloroform	5.83	83	1102881	53.5191	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

00234

Quantitation Report

Data File : C:\msdchem\1\DATA\26MAY15E\EO51S50.D Vial: 2
Acq Time : 05/26/2015 19:30 Operator: CQC
Sample : VSTD050S7 VSTD050S7 50 ug/Kg CVS Inst : 5975-E
Misc : 2.5 uL of 28018, 19; 2.0 uL of 27660 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 26 19:49:11 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2-Dichloroethane	6.87	62	793291	55.2401	ug/Kg	100
28)	1,4-Dioxane	8.27	88	77689	1182.2304	ug/Kg	100
31)	1,1,1-Trichloroethane	6.11	97	1009061	53.6305	ug/Kg	99
32)	Cyclohexane	5.71	56	1328521	56.0439	ug/Kg	99
33)	Carbon tetrachloride	6.01	117	953235	53.9556	ug/Kg	99
34)	Benzene	6.61	78	2413149	55.4053	ug/Kg#	98
36)	Trichloroethene	7.35	130	644027	55.7979	ug/Kg	99
37)	Methylcyclohexane	7.33	83	1152876	57.1048	ug/Kg	99
38)	1,2-Dichloropropane	7.97	63	615284	54.6140	ug/Kg	99
40)	Bromodichloromethane	8.05	83	782478	55.6718	ug/Kg	99
41)	cis-1,3-Dichloropropene	8.77	75	963485	55.3227	ug/Kg	99
43)	trans-1,3-Dichloropropene	9.48	75	863814	56.0148	ug/Kg	99
45)	1,1,2-Trichloroethane	9.64	97	433155	54.4782	ug/Kg	99
46)	Dibromochloromethane	9.83	129	552058	55.0925	ug/Kg	100
47)	4-Methyl-2-pentanone	9.44	43	938504	120.3166	ug/Kg	99
48)	Toluene	9.02	91	2560008	54.4300	ug/Kg	100
50)	Tetrachloroethene	9.44	164	532925	52.9436	ug/Kg	99
51)	2-Hexanone	10.32	43	858015	132.5216	ug/Kg	100
53)	1,2-Dibromoethane	10.07	107	408572	54.7271	ug/Kg	99
54)	Chlorobenzene	10.62	112	1655887	52.8485	ug/Kg	100
55)	Ethylbenzene	10.66	91	2960345	54.4017	ug/Kg	100
56)	m,p-Xylene	10.81	106	1091023	54.7968	ug/Kg	98
57)	o-Xylene	11.25	106	1045209	55.5295	ug/Kg	99
58)	Styrene	11.30	104	1730627	57.1351	ug/Kg	100
59)	Isopropylbenzene	11.57	105	2949138	55.9507	ug/Kg	100
60)	1,1,2,2-Tetrachloroethane	12.06	83	551311	57.2854	ug/Kg	98
63)	Bromoform	11.32	173	393656	57.2880	ug/Kg	99
64)	1,3-Dichlorobenzene	12.93	146	1267709	53.6112	ug/Kg	100
65)	1,4-Dichlorobenzene	13.02	146	1317476	53.0017	ug/Kg	99
66)	1,2-Dichlorobenzene	13.45	146	1180341	54.4144	ug/Kg	100
68)	1,2-Dibromo-3-chloropropan	14.28	75	92718	60.9474	ug/Kg	96
69)	1,2,4-Trichlorobenzene	15.00	180	770203	54.0586	ug/Kg	99
70)	1,2,3-Trichlorobenzene	15.53	180	686861	55.6050	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

00233

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date: 05/27/2015 Time: 03:38

Lab File ID: E071F50 Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050S8 Init. Calib. Time(s): 17:38 19:15

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.266	0.265	0.010	-0.3	50.0
Chloromethane	0.455	0.467	0.010	2.5	50.0
Vinyl chloride	0.436	0.446	0.010	2.3	50.0
Bromomethane	0.234	0.243	0.010	3.5	50.0
Chloroethane	0.257	0.259	0.010	0.8	50.0
Trichlorofluoromethane	0.498	0.500	0.010	0.4	50.0
1,1-Dichloroethene	0.343	0.353	0.010	3.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.361	0.368	0.010	1.9	50.0
Acetone	0.115	0.086	0.010	-25.1	50.0
Carbon disulfide	1.215	1.255	0.010	3.3	50.0
Methyl acetate	0.196	0.213	0.010	9.0	50.0
Methylene chloride	0.345	0.364	0.010	5.4	50.0
trans-1,2-Dichloroethene	0.362	0.377	0.010	4.0	50.0
Methyl tert-butyl ether	0.744	0.814	0.010	9.5	50.0
1,1-Dichloroethane	0.694	0.743	0.010	7.1	50.0
cis-1,2-Dichloroethene	0.357	0.387	0.010	8.5	50.0
2-Butanone	0.132	0.121	0.010	-8.2	50.0
Bromochloromethane	0.161	0.176	0.010	9.2	50.0
Chloroform	0.628	0.681	0.010	8.4	50.0
1,1,1-Trichloroethane	0.648	0.667	0.010	2.9	50.0
Cyclohexane	0.816	0.862	0.010	5.6	50.0
Carbon tetrachloride	0.608	0.622	0.010	2.3	50.0
Benzene	1.500	1.590	0.010	6.0	50.0
1,2-Dichloroethane	0.438	0.489	0.010	11.6	50.0
1,4-Dioxane	0.0020	0.0021	0.0050	7.2	50.0
Trichloroethene	0.397	0.420	0.010	5.7	50.0
Methylcyclohexane	0.695	0.742	0.010	6.7	50.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date: 05/27/2015 Time: 03:38

Lab File ID: E071F50 Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050S8 Init. Calib. Time(s): 17:38 19:15

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.388	0.412	0.010	6.2	50.0
Bromodichloromethane	0.484	0.519	0.010	7.1	50.0
cis-1,3-Dichloropropene	0.600	0.664	0.010	10.7	50.0
4-Methyl-2-Pentanone	0.269	0.303	0.010	12.7	50.0
Toluene	1.620	1.771	0.010	9.4	50.0
trans-1,3-Dichloropropene	0.531	0.595	0.010	12.1	50.0
1,1,2-Trichloroethane	0.274	0.299	0.010	9.2	50.0
Tetrachloroethene	0.347	0.356	0.010	2.7	50.0
2-Hexanone	0.223	0.232	0.010	4.0	50.0
Dibromochloromethane	0.345	0.378	0.010	9.6	50.0
1,2-Dibromoethane	0.257	0.281	0.010	9.1	50.0
Chlorobenzene	1.079	1.152	0.010	6.8	50.0
Ethylbenzene	1.874	2.033	0.010	8.5	50.0
o-Xylene	0.648	0.707	0.010	9.0	50.0
m,p-Xylene	0.686	0.750	0.010	9.4	50.0
Styrene	1.043	1.183	0.010	13.4	50.0
Bromoform	0.432	0.500	0.010	15.8	50.0
Isopropylbenzene	1.815	1.985	0.010	9.4	50.0
1,1,2,2-Tetrachloroethane	0.331	0.359	0.010	8.2	50.0
1,3-Dichlorobenzene	1.487	1.579	0.010	6.2	50.0
1,4-Dichlorobenzene	1.563	1.652	0.010	5.7	50.0
1,2-Dichlorobenzene	1.364	1.479	0.010	8.5	50.0
1,2-Dibromo-3-chloropropane	0.096	0.107	0.010	12.3	50.0
1,2,4-Trichlorobenzene	0.896	0.933	0.010	4.1	50.0
1,2,3-Trichlorobenzene	0.777	0.834	0.010	7.4	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date: 05/27/2015 Time: 03:38

Lab File ID: E071F50 Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050S8 Init. Calib. Time(s): 17:38 19:15

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.389	0.357	0.010	-8.2	50.0
Chloroethane-d5	0.297	0.277	0.010	-6.8	50.0
1,1-Dichloroethene-d2	0.883	0.844	0.010	-4.4	50.0
2-Butanone-d5	0.118	0.113	0.010	-4.5	50.0
Chloroform-d	0.695	0.693	0.010	-0.3	50.0
1,2-Dichloroethane-d4	0.368	0.375	0.010	1.8	50.0
Benzene-d6	1.504	1.454	0.010	-3.3	50.0
1,2-Dichloropropane-d6	0.440	0.430	0.010	-2.3	50.0
Toluene-d8	1.384	1.371	0.010	-1.0	50.0
trans-1,3-Dichloropropene-d4	0.498	0.519	0.010	4.1	50.0
2-Hexanone-d5	0.081	0.082	0.010	0.8	50.0
1,4-Dioxane-d8	0.0018	0.0017	0.0050	-8.4	50.0
1,1,2,2-Tetrachloroethane-d2	0.355	0.357	0.010	0.3	50.0
1,2-Dichlorobenzene-d4	0.932	0.927	0.010	-0.6	50.0

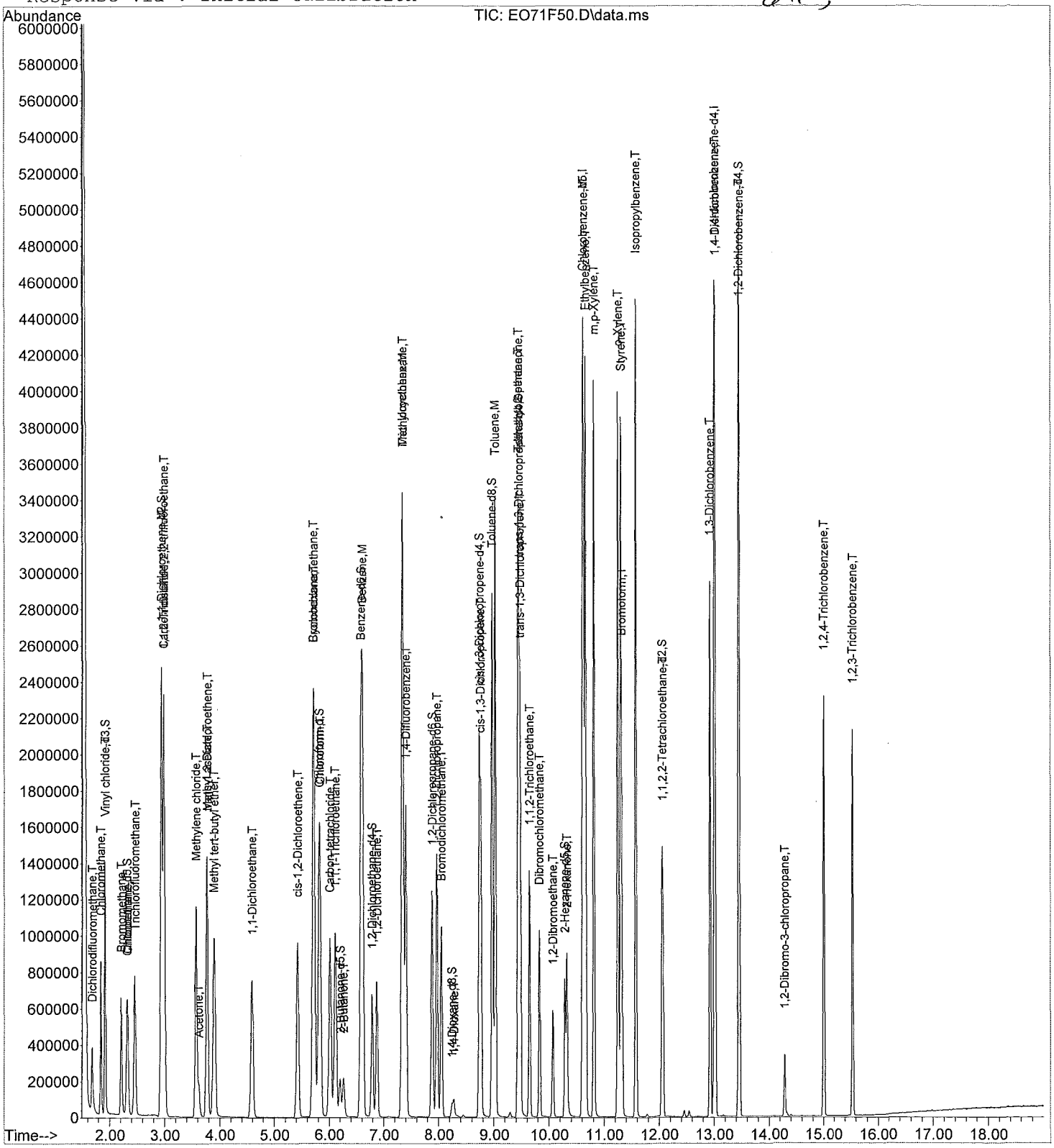
Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report

Data File : C:\msdchem\1\Data by...5E\26MAY15E\EO71F50.D Vial: 22
Acq Time : 05/27/2015 03:38 Operator: CQC
Sample : VSTD050S8 VSTD050S8 50 ug/Kg FCS Inst : 5975-E
Misc : 2.5 uL of 28018, 19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 27 03:57:18 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\Data by...5E\26MAY15E\EO71F50.D Vial: 22
Acq Time : 05/27/2015 03:38 Operator: CQC
Sample : VSTD050S8 VSTD050S8 50 ug/Kg FCS Inst : 5975-E
Misc : 2.5 uL of 28018, 19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 27 03:57:18 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1517648	50.0000	ug/Kg	84.16
30) Chlorobenzene-d5	10.61	117	1412156	50.0000	ug/Kg	85.54
62) 1,4-dichlorobenzene-d4	13.00	152	751288	50.0000	ug/Kg	86.34
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	542380	45.9184	ug/Kg	91.84%
8) Chloroethane-d5	2.31	69	419729	46.6174	ug/Kg	93.23%
11) 1,1-Dichloroethene-d2	2.93	63	1280609	47.7809	ug/Kg	95.56%
22) 2-Butanone-d5	6.20	46	342545	95.5315	ug/Kg	95.53%
25) Chloroform-d	5.81	84	1052395	49.8665	ug/Kg	99.73%
27) 1,2-Dichloroethane-d4	6.78	65	568844	50.9036	ug/Kg	101.81%
29) 1,4-Dioxane-d8	8.24	96	50672	915.8034	ug/Kg	91.58%
35) Benzene-d6	6.58	84	2053175	48.3311	ug/Kg	96.66%
39) 1,2-Dichloropropane-d6	7.88	67	606612	48.8296	ug/Kg	97.66%
42) cis-1,3-Dichloropropene-d4	8.74	79	1104057	49.7093	ug/Kg	99.42%
44) trans-1,3-Dichloropropene-	9.46	79	732252	52.0344	ug/Kg	104.07%
49) Toluene-d8	8.97	98	1935891	49.5100	ug/Kg	99.02%
52) 2-Hexanone-d5	10.28	63	231423	100.8168	ug/Kg	100.82%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	503673	50.1660	ug/Kg	100.33%
67) 1,2-Dichlorobenzene-d4	13.44	152	696088	49.6895	ug/Kg	99.38%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.68	85	401963	49.8364	ug/Kg#	100
3) Chloromethane	1.83	50	708312	51.2544	ug/Kg	100
4) Vinyl chloride	1.91	62	676908	51.1401	ug/Kg	99
6) Bromomethane	2.21	94	368204	51.7486	ug/Kg	99
7) Chloroethane	2.33	64	393380	50.3821	ug/Kg	100
9) Trichlorofluoromethane	2.46	101	759192	50.1952	ug/Kg	99
10) 1,1-Dichloroethene	2.94	96	536126	51.4905	ug/Kg	97
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	558277	50.9410	ug/Kg	99
13) Acetone	3.62	43	260897	74.8937	ug/Kg	100
14) Carbon disulfide	2.98	76	1904221	51.6291	ug/Kg	100
15) Methyl acetate	3.77	43	323811	54.5242	ug/Kg	100
16) Methylene chloride	3.57	84	551738	52.6952	ug/Kg	98
17) trans-1,2-Dichloroethene	3.77	96	572171	52.0196	ug/Kg	99
18) Methyl tert-butyl ether	3.89	73	1236010	54.7330	ug/Kg	98
19) 1,1-Dichloroethane	4.59	63	1127391	53.5572	ug/Kg	99
20) cis-1,2-Dichloroethene	5.43	96	588079	54.2335	ug/Kg	99
21) 2-Butanone	6.26	43	366983	91.7708	ug/Kg	100
23) Bromochloromethane	5.71	128	267271	54.6098	ug/Kg	98
24) Chloroform	5.83	83	1034141	54.2237	ug/Kg	99
26) 1,2-Dichloroethane	6.87	62	741704	55.8062	ug/Kg	100
28) 1,4-Dioxane	8.28	88	65189	1071.8816	ug/Kg	98
31) 1,1,1-Trichloroethane	6.11	97	941560	51.4574	ug/Kg	99
32) Cyclohexane	5.72	56	1217518	52.8131	ug/Kg	99
33) Carbon tetrachloride	6.01	117	878935	51.1563	ug/Kg	99
34) Benzene	6.61	78	2244716	52.9950	ug/Kg#	98
36) Trichloroethene	7.35	130	593191	52.8462	ug/Kg	99
37) Methylcyclohexane	7.34	83	1047951	53.3748	ug/Kg	100
38) 1,2-Dichloropropane	7.97	63	581965	53.1167	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\msdchem\1\Data by...5E\26MAY15E\EO71F50.D Vial: 22
Acq Time : 05/27/2015 03:38 Operator: CQC
Sample : VSTD050S8 VSTD050S8 50 ug/Kg FCS Inst : 5975-E
Misc : 2.5 uL of 28018, 19 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 27 03:57:18 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40)	Bromodichloromethane	8.05	83	732222	53.5688	ug/Kg	98
41)	cis-1,3-Dichloropropene	8.77	75	937627	55.3598	ug/Kg	99
43)	trans-1,3-Dichloropropene	9.48	75	840570	56.0482	ug/Kg	99
45)	1,1,2-Trichloroethane	9.64	97	422194	54.6006	ug/Kg	100
46)	Dibromochloromethane	9.83	129	533887	54.7852	ug/Kg	100
47)	4-Methyl-2-pentanone	9.44	43	854905	112.6972	ug/Kg	99
48)	Toluene	9.03	91	2501008	54.6787	ug/Kg	99
50)	Tetrachloroethene	9.44	164	502665	51.3489	ug/Kg	100
51)	2-Hexanone	10.32	43	654935	104.0150	ug/Kg	98
53)	1,2-Dibromoethane	10.07	107	396218	54.5725	ug/Kg	99
54)	Chlorobenzene	10.62	112	1626410	53.3750	ug/Kg	99
55)	Ethylbenzene	10.66	91	2871394	54.2586	ug/Kg	100
56)	m,p-Xylene	10.81	106	1058703	54.6766	ug/Kg	98
57)	o-Xylene	11.25	106	997934	54.5165	ug/Kg	99
58)	Styrene	11.30	104	1670619	56.7130	ug/Kg	100
59)	Isopropylbenzene	11.57	105	2803284	54.6869	ug/Kg	100
60)	1,1,2,2-Tetrachloroethane	12.06	83	506300	54.0955	ug/Kg	98
63)	Bromoform	11.32	173	375952	57.9057	ug/Kg	99
64)	1,3-Dichlorobenzene	12.93	146	1186367	53.1004	ug/Kg	100
65)	1,4-Dichlorobenzene	13.02	146	1240865	52.8340	ug/Kg	99
66)	1,2-Dichlorobenzene	13.45	146	1111489	54.2317	ug/Kg	100
68)	1,2-Dibromo-3-chloropropan	14.29	75	80700	56.1444	ug/Kg	98
69)	1,2,4-Trichlorobenzene	15.00	180	700757	52.0558	ug/Kg	99
70)	1,2,3-Trichlorobenzene	15.53	180	626942	53.7173	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

00241

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date: 05/27/2015 Time: 09:10

Lab File ID: E075S50 Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050S9 Init. Calib. Time(s): 17:38 19:15

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.266	0.229	0.010	-13.6	40.0
Chloromethane	0.455	0.419	0.010	-7.9	40.0
Vinyl chloride	0.436	0.396	0.100	-9.3	25.0
Bromomethane	0.234	0.228	0.100	-2.7	25.0
Chloroethane	0.257	0.239	0.010	-7.1	40.0
Trichlorofluoromethane	0.498	0.439	0.010	-11.9	40.0
1,1-Dichloroethene	0.343	0.317	0.100	-7.7	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.361	0.328	0.010	-9.0	40.0
Acetone	0.115	0.113	0.010	-1.4	40.0
Carbon disulfide	1.215	1.109	0.010	-8.7	40.0
Methyl acetate	0.196	0.216	0.010	10.1	40.0
Methylene chloride	0.345	0.330	0.010	-4.5	40.0
trans-1,2-Dichloroethene	0.362	0.338	0.010	-6.9	40.0
Methyl tert-butyl ether	0.744	0.756	0.010	1.7	40.0
1,1-Dichloroethane	0.694	0.662	0.200	-4.5	25.0
cis-1,2-Dichloroethene	0.357	0.341	0.010	-4.4	40.0
2-Butanone	0.132	0.146	0.010	11.0	40.0
Bromochloromethane	0.161	0.163	0.050	1.0	25.0
Chloroform	0.628	0.612	0.200	-2.6	25.0
1,1,1-Trichloroethane	0.648	0.604	0.100	-6.8	25.0
Cyclohexane	0.816	0.778	0.010	-4.7	40.0
Carbon tetrachloride	0.608	0.567	0.100	-6.9	25.0
Benzene	1.500	1.481	0.400	-1.3	25.0
1,2-Dichloroethane	0.438	0.456	0.100	4.1	25.0
1,4-Dioxane	0.0020	0.0022	0.0050	12.0	50.0
Trichloroethene	0.397	0.395	0.300	-0.6	25.0
Methylcyclohexane	0.695	0.667	0.010	-4.0	40.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date: 05/27/2015 Time: 09:10

Lab File ID: E075S50 Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050S9 Init. Calib. Time(s): 17:38 19:15

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.388	0.384	0.010	-1.0	40.0
Bromodichloromethane	0.484	0.493	0.200	1.9	25.0
cis-1,3-Dichloropropene	0.600	0.623	0.200	3.9	25.0
4-Methyl-2-Pentanone	0.269	0.313	0.010	16.5	40.0
Toluene	1.620	1.609	0.400	-0.6	25.0
trans-1,3-Dichloropropene	0.531	0.562	0.100	5.9	25.0
1,1,2-Trichloroethane	0.274	0.282	0.100	3.0	25.0
Tetrachloroethene	0.347	0.331	0.100	-4.6	25.0
2-Hexanone	0.223	0.258	0.010	15.9	40.0
Dibromochloromethane	0.345	0.352	0.100	2.1	25.0
1,2-Dibromoethane	0.257	0.266	0.010	3.5	40.0
Chlorobenzene	1.079	1.057	0.500	-2.1	25.0
Ethylbenzene	1.874	1.841	0.100	-1.7	25.0
o-Xylene	0.648	0.647	0.300	-0.2	25.0
m,p-Xylene	0.686	0.678	0.300	-1.2	25.0
Styrene	1.043	1.087	0.300	4.2	25.0
Bromoform	0.432	0.449	0.050	4.0	25.0
Isopropylbenzene	1.815	1.802	0.010	-0.7	40.0
1,1,2,2-Tetrachloroethane	0.331	0.362	0.300	9.3	25.0
1,3-Dichlorobenzene	1.487	1.447	0.600	-2.7	25.0
1,4-Dichlorobenzene	1.563	1.528	0.500	-2.2	25.0
1,2-Dichlorobenzene	1.364	1.367	0.400	0.2	25.0
1,2-Dibromo-3-chloropropane	0.096	0.106	0.010	11.1	40.0
1,2,4-Trichlorobenzene	0.896	0.916	0.200	2.2	25.0
1,2,3-Trichlorobenzene	0.777	0.818	0.200	5.3	25.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date: 05/27/2015 Time: 09:10

Lab File ID: E075S50 Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050S9 Init. Calib. Time(s): 17:38 19:15

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.389	0.338	0.010	-13.2	25.0
Chloroethane-d5	0.297	0.263	0.010	-11.2	40.0
1,1-Dichloroethene-d2	0.883	0.771	0.010	-12.7	25.0
2-Butanone-d5	0.118	0.129	0.010	9.6	40.0
Chloroform-d	0.695	0.654	0.010	-5.9	25.0
1,2-Dichloroethane-d4	0.368	0.364	0.010	-1.3	25.0
Benzene-d6	1.504	1.412	0.010	-6.1	25.0
1,2-Dichloropropane-d6	0.440	0.415	0.010	-5.8	40.0
Toluene-d8	1.384	1.303	0.010	-5.9	25.0
trans-1,3-Dichloropropene-d4	0.498	0.500	0.010	0.4	25.0
2-Hexanone-d5	0.081	0.091	0.010	11.4	40.0
1,4-Dioxane-d8	0.0018	0.0019	0.0050	6.0	50.0
1,1,2,2-Tetrachloroethane-d2	0.355	0.373	0.010	5.0	25.0
1,2-Dichlorobenzene-d4	0.932	0.873	0.010	-6.4	25.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

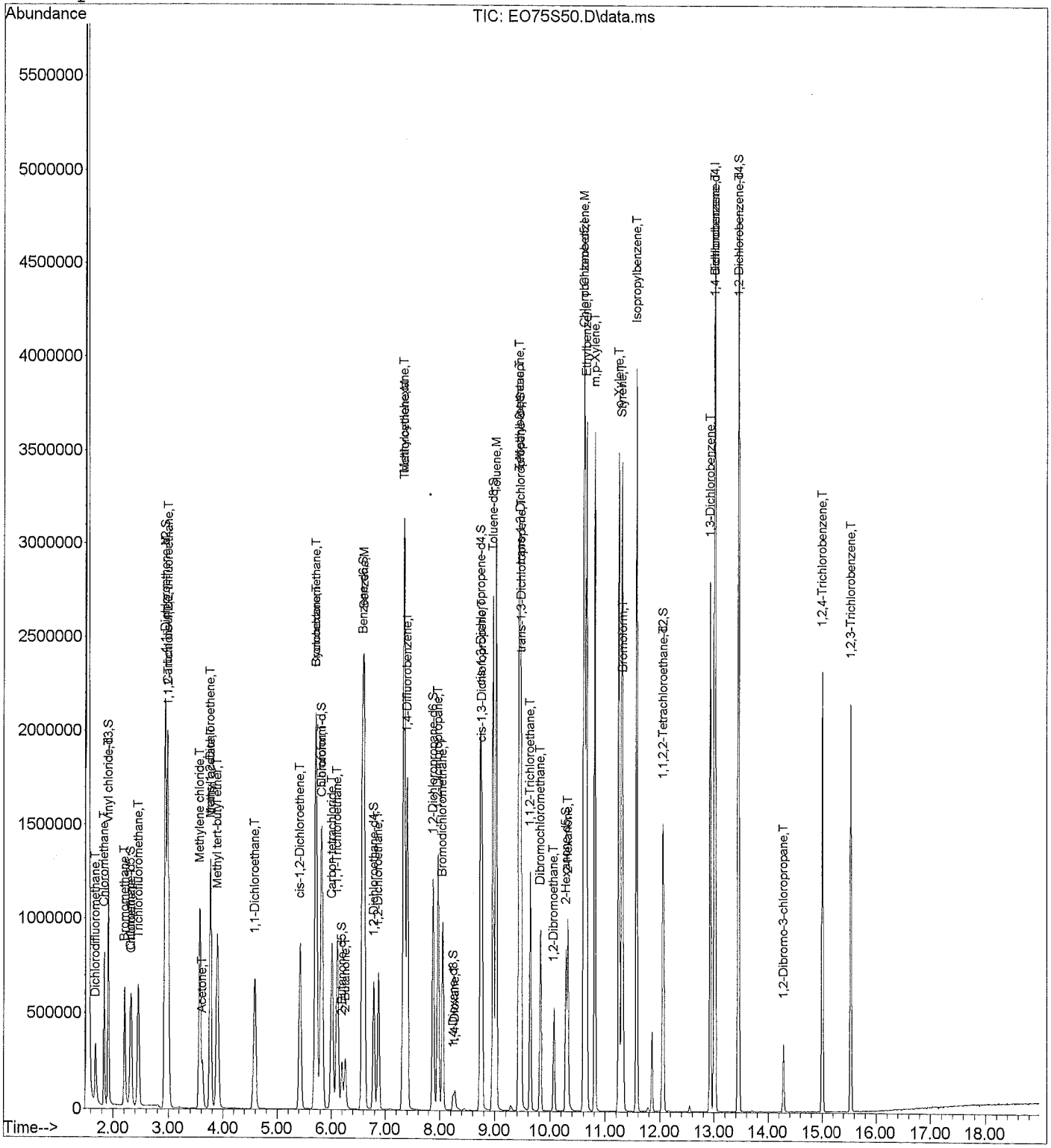
Quantitation Report

Data File : C:\msdchem\1\Data by...27MAY15E.PM\EO75S50.D Vial: 2
Acq Time : 05/27/2015 09:10 Operator: RJH
Sample : VSTD050S9 VSTD050S9 Inst : 5975-E
Misc : 2.5 uL of 28016, 28017, 28019; 2.0 uL of Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 27 09:29:53 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6 9.15



Quantitation Report

Data File : C:\msdchem\1\Data by...27MAY15E.PM\EO75S50.D Vial: 2
Acq Time : 05/27/2015 09:10 Operator: RJH
Sample : VSTD050S9 VSTD050S9 Inst : 5975-E
Misc : 2.5 uL of 28016, 28017, 28019; 2.0 uL of Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 27 09:29:53 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1531515	50.0000	ug/Kg	84.93
30) Chlorobenzene-d5	10.60	117	1380865	50.0000	ug/Kg	83.64
62) 1,4-dichlorobenzene-d4	13.00	152	773092	50.0000	ug/Kg	88.84
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	517564	43.4207	ug/Kg	86.84%
8) Chloroethane-d5	2.31	69	403532	44.4126	ug/Kg	88.83%
11) 1,1-Dichloroethene-d2	2.93	63	1180064	43.6308	ug/Kg	87.26%
22) 2-Butanone-d5	6.19	46	396649	109.6189	ug/Kg	109.62%
25) Chloroform-d	5.81	84	1001501	47.0253	ug/Kg	94.05%
27) 1,2-Dichloroethane-d4	6.78	65	556798	49.3745	ug/Kg	98.75%
29) 1,4-Dioxane-d8	8.24	96	59185	1059.9750	ug/Kg	106.00%
35) Benzene-d6	6.58	84	1950299	46.9498	ug/Kg	93.90%
39) 1,2-Dichloropropane-d6	7.88	67	572431	47.1224	ug/Kg	94.24%
42) cis-1,3-Dichloropropene-d4	8.74	79	1039449	47.8608	ug/Kg	95.72%
44) trans-1,3-Dichloropropene-	9.46	79	690709	50.1946	ug/Kg	100.39%
49) Toluene-d8	8.97	98	1798717	47.0442	ug/Kg	94.09%
52) 2-Hexanone-d5	10.28	63	250010	111.3821	ug/Kg	111.38%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	515229	52.4798	ug/Kg	104.96%
67) 1,2-Dichlorobenzene-d4	13.44	152	674748	46.8077	ug/Kg	93.62%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.68	85	351459	43.1802	ug/Kg#	98
3) Chloromethane	1.84	50	642059	46.0396	ug/Kg	100
4) Vinyl chloride	1.91	62	605732	45.3484	ug/Kg	100
6) Bromomethane	2.21	94	349159	48.6276	ug/Kg	98
7) Chloroethane	2.33	64	365975	46.4478	ug/Kg	100
9) Trichlorofluoromethane	2.46	101	672009	44.0286	ug/Kg	100
10) 1,1-Dichloroethene	2.94	96	484811	46.1405	ug/Kg	98
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	502940	45.4762	ug/Kg	98
13) Acetone	3.62	43	346568	98.5858	ug/Kg	100
14) Carbon disulfide	2.98	76	1698476	45.6338	ug/Kg	100
15) Methyl acetate	3.77	43	330069	55.0747	ug/Kg	100
16) Methylene chloride	3.57	84	504711	47.7673	ug/Kg	98
17) trans-1,2-Dichloroethene	3.76	96	516917	46.5706	ug/Kg	99
18) Methyl tert-butyl ether	3.89	73	1158355	50.8298	ug/Kg	98
19) 1,1-Dichloroethane	4.58	63	1014379	47.7522	ug/Kg	100
20) cis-1,2-Dichloroethene	5.42	96	522985	47.7938	ug/Kg	100
21) 2-Butanone	6.26	43	447870	110.9840	ug/Kg	100
23) Bromochloromethane	5.71	128	249407	50.4983	ug/Kg	99
24) Chloroform	5.83	83	937254	48.6986	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

00246

Quantitation Report

Data File : C:\msdchem\1\Data by...27MAY15E.PM\EO75S50.D Vial: 2
Acq Time : 05/27/2015 09:10 Operator: RJH
Sample : VSTD050S9 VSTD050S9 Inst : 5975-E
Misc : 2.5 uL of 28016, 28017, 28019; 2.0 uL of Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 27 09:29:53 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2-Dichloroethane	6.87	62	698371	52.0701	ug/Kg	100
28)	1,4-Dioxane	8.27	88	68745	1120.1170	ug/Kg	99
31)	1,1,1-Trichloroethane	6.11	97	834215	46.6240	ug/Kg	99
32)	Cyclohexane	5.72	56	1074598	47.6698	ug/Kg	99
33)	Carbon tetrachloride	6.01	117	782380	46.5685	ug/Kg	99
34)	Benzene	6.61	78	2044870	49.3708	ug/Kg#	99
36)	Trichloroethene	7.35	130	545555	49.7038	ug/Kg	99
37)	Methylcyclohexane	7.33	83	921464	47.9960	ug/Kg	97
38)	1,2-Dichloropropane	7.97	63	530248	49.4931	ug/Kg	99
40)	Bromodichloromethane	8.05	83	680911	50.9437	ug/Kg	99
41)	cis-1,3-Dichloropropene	8.77	75	860189	51.9385	ug/Kg	100
43)	trans-1,3-Dichloropropene	9.48	75	776295	52.9354	ug/Kg	97
45)	1,1,2-Trichloroethane	9.64	97	389324	51.4906	ug/Kg	99
46)	Dibromochloromethane	9.83	129	486505	51.0543	ug/Kg	99
47)	4-Methyl-2-pentanone	9.44	43	864456	116.5386	ug/Kg	100
48)	Toluene	9.02	91	2222185	49.6838	ug/Kg	99
50)	Tetrachloroethene	9.44	164	456416	47.6810	ug/Kg	99
51)	2-Hexanone	10.32	43	713355	115.8603	ug/Kg	100
53)	1,2-Dibromoethane	10.06	107	367258	51.7300	ug/Kg	99
54)	Chlorobenzene	10.62	112	1459246	48.9743	ug/Kg	99
55)	Ethylbenzene	10.66	91	2542706	49.1364	ug/Kg	100
56)	m,p-Xylene	10.81	106	935719	49.4201	ug/Kg	100
57)	o-Xylene	11.25	106	893145	49.8976	ug/Kg	100
58)	Styrene	11.30	104	1500508	52.0924	ug/Kg	100
59)	Isopropylbenzene	11.57	105	2488271	49.6416	ug/Kg	100
60)	1,1,2,2-Tetrachloroethane	12.06	83	500038	54.6371	ug/Kg	99
63)	Bromoform	11.32	173	347284	51.9815	ug/Kg	100
64)	1,3-Dichlorobenzene	12.92	146	1118280	48.6412	ug/Kg	100
65)	1,4-Dichlorobenzene	13.02	146	1181559	48.8899	ug/Kg	99
66)	1,2-Dichlorobenzene	13.45	146	1056750	50.1067	ug/Kg	100
68)	1,2-Dibromo-3-chloropropan	14.28	75	82172	55.5561	ug/Kg	98
69)	1,2,4-Trichlorobenzene	15.00	180	707869	51.1011	ug/Kg	99
70)	1,2,3-Trichlorobenzene	15.53	180	632246	52.6439	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

00247

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date: 05/27/2015 Time: 19:12

Lab File ID: E092S50 Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050SB Init. Calib. Time(s): 17:38 19:15

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.266	0.254	0.010	-4.3	40.0
Chloromethane	0.455	0.456	0.010	0.2	40.0
Vinyl chloride	0.436	0.438	0.100	0.4	25.0
Bromomethane	0.234	0.250	0.100	6.6	25.0
Chloroethane	0.257	0.257	0.010	-0.2	40.0
Trichlorofluoromethane	0.498	0.496	0.010	-0.5	40.0
1,1-Dichloroethene	0.343	0.345	0.100	0.5	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.361	0.364	0.010	0.8	40.0
Acetone	0.115	0.081	0.010	-29.5	40.0
Carbon disulfide	1.215	1.223	0.010	0.6	40.0
Methyl acetate	0.196	0.218	0.010	11.3	40.0
Methylene chloride	0.345	0.364	0.010	5.4	40.0
trans-1,2-Dichloroethene	0.362	0.364	0.010	0.4	40.0
Methyl tert-butyl ether	0.744	0.797	0.010	7.1	40.0
1,1-Dichloroethane	0.694	0.721	0.200	4.0	25.0
cis-1,2-Dichloroethene	0.357	0.372	0.010	4.1	40.0
2-Butanone	0.132	0.120	0.010	-9.1	40.0
Bromochloromethane	0.161	0.171	0.050	6.0	25.0
Chloroform	0.628	0.664	0.200	5.7	25.0
1,1,1-Trichloroethane	0.648	0.643	0.100	-0.8	25.0
Cyclohexane	0.816	0.832	0.010	2.0	40.0
Carbon tetrachloride	0.608	0.593	0.100	-2.5	25.0
Benzene	1.500	1.537	0.400	2.5	25.0
1,2-Dichloroethane	0.438	0.481	0.100	9.9	25.0
1,4-Dioxane	0.0020	0.0021	0.0050	6.9	50.0
Trichloroethene	0.397	0.403	0.300	1.3	25.0
Methylcyclohexane	0.695	0.722	0.010	3.8	40.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date: 05/27/2015 Time: 19:12

Lab File ID: E092S50 Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050SB Init. Calib. Time(s): 17:38 19:15

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.388	0.394	0.010	1.6	40.0
Bromodichloromethane	0.484	0.512	0.200	5.7	25.0
cis-1,3-Dichloropropene	0.600	0.630	0.200	5.1	25.0
4-Methyl-2-Pentanone	0.269	0.300	0.010	11.6	40.0
Toluene	1.620	1.673	0.400	3.3	25.0
trans-1,3-Dichloropropene	0.531	0.570	0.100	7.3	25.0
1,1,2-Trichloroethane	0.274	0.288	0.100	5.1	25.0
Tetrachloroethene	0.347	0.339	0.100	-2.3	25.0
2-Hexanone	0.223	0.234	0.010	4.8	40.0
Dibromochloromethane	0.345	0.361	0.100	4.6	25.0
1,2-Dibromoethane	0.257	0.267	0.010	3.9	40.0
Chlorobenzene	1.079	1.108	0.500	2.7	25.0
Ethylbenzene	1.874	1.954	0.100	4.3	25.0
o-Xylene	0.648	0.683	0.300	5.4	25.0
m,p-Xylene	0.686	0.720	0.300	5.0	25.0
Styrene	1.043	1.154	0.300	10.7	25.0
Bromoform	0.432	0.465	0.050	7.6	25.0
Isopropylbenzene	1.815	1.928	0.010	6.2	40.0
1,1,2,2-Tetrachloroethane	0.331	0.364	0.300	9.9	25.0
1,3-Dichlorobenzene	1.487	1.527	0.600	2.7	25.0
1,4-Dichlorobenzene	1.563	1.620	0.500	3.7	25.0
1,2-Dichlorobenzene	1.364	1.449	0.400	6.3	25.0
1,2-Dibromo-3-chloropropane	0.096	0.108	0.010	13.0	40.0
1,2,4-Trichlorobenzene	0.896	0.964	0.200	7.6	25.0
1,2,3-Trichlorobenzene	0.777	0.878	0.200	13.1	25.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date: 05/27/2015 Time: 19:12

Lab File ID: E092S50 Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050SB Init. Calib. Time(s): 17:38 19:15

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.389	0.361	0.010	-7.3	25.0
Chloroethane-d5	0.297	0.287	0.010	-3.3	40.0
1,1-Dichloroethene-d2	0.883	0.850	0.010	-3.8	25.0
2-Butanone-d5	0.118	0.119	0.010	0.3	40.0
Chloroform-d	0.695	0.701	0.010	0.9	25.0
1,2-Dichloroethane-d4	0.368	0.385	0.010	4.5	25.0
Benzene-d6	1.504	1.459	0.010	-3.0	25.0
1,2-Dichloropropane-d6	0.440	0.433	0.010	-1.7	40.0
Toluene-d8	1.384	1.352	0.010	-2.4	25.0
trans-1,3-Dichloropropene-d4	0.498	0.514	0.010	3.2	25.0
2-Hexanone-d5	0.081	0.084	0.010	3.6	40.0
1,4-Dioxane-d8	0.0018	0.0018	0.0050	-2.5	50.0
1,1,2,2-Tetrachloroethane-d2	0.355	0.370	0.010	4.0	25.0
1,2-Dichlorobenzene-d4	0.932	0.937	0.010	0.5	25.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

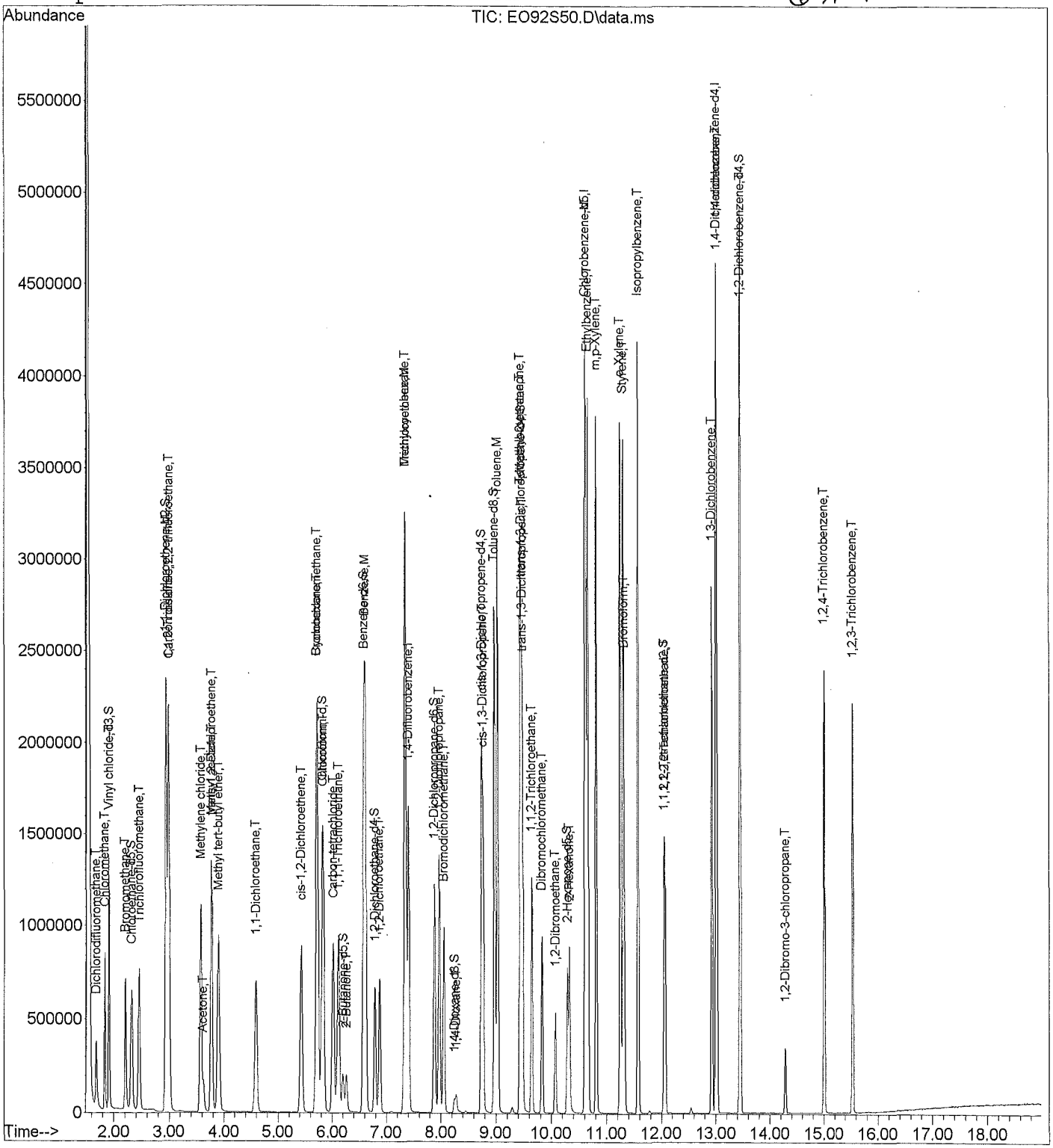
Quantitation Report

Data File : C:\msdchem\1\Data by...27MAY15E.PM\EO92S50.D Vial: 13
Acq Time : 05/27/2015 19:12 Operator: RJH
Sample : VSTD050SB VSTD050SB Inst : 5975-E
Misc : 2.5 uL of 28016, 28017, 28019 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 27 19:31:28 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.15



Quantitation Report

Data File : C:\msdchem\1\Data by...27MAY15E.PM\EO92S50.D Vial: 13
Acq Time : 05/27/2015 19:12 Operator: RJH
Sample : VSTD050SB VSTD050SB Inst : 5975-E
Misc : 2.5 uL of 28016, 28017, 28019 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 27 19:31:28 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1454070	50.0000	ug/Kg	80.63
30) Chlorobenzene-d5	10.61	117	1363798	50.0000	ug/Kg	82.61
62) 1,4-dichlorobenzene-d4	13.00	152	747999	50.0000	ug/Kg	85.96
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	524472	46.3437	ug/Kg	92.69%
8) Chloroethane-d5	2.31	69	417129	48.3543	ug/Kg	96.71%
11) 1,1-Dichloroethene-d2	2.94	63	1235410	48.1099	ug/Kg	96.22%
22) 2-Butanone-d5	6.20	46	344663	100.3251	ug/Kg	100.33%
25) Chloroform-d	5.82	84	1019602	50.4251	ug/Kg	100.85%
27) 1,2-Dichloroethane-d4	6.78	65	559289	52.2369	ug/Kg	104.47%
29) 1,4-Dioxane-d8	8.24	96	51663	974.5397	ug/Kg	97.45%
35) Benzene-d6	6.58	84	1990338	48.5132	ug/Kg	97.03%
39) 1,2-Dichloropropane-d6	7.88	67	589916	49.1695	ug/Kg	98.34%
42) cis-1,3-Dichloropropene-d4	8.74	79	1053293	49.1052	ug/Kg	98.21%
44) trans-1,3-Dichloropropene-	9.46	79	701203	51.5949	ug/Kg	103.19%
49) Toluene-d8	8.97	98	1843349	48.8149	ug/Kg	97.63%
52) 2-Hexanone-d5	10.28	63	229638	103.5864	ug/Kg	103.59%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	504246	52.0039	ug/Kg	104.01%
67) 1,2-Dichlorobenzene-d4	13.44	152	701049	50.2637	ug/Kg	100.53%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.68	85	369717	47.8427	ug/Kg#	99
3) Chloromethane	1.84	50	663535	50.1137	ug/Kg	100
4) Vinyl chloride	1.91	62	636544	50.1934	ug/Kg	99
6) Bromomethane	2.21	94	363267	53.2871	ug/Kg	99
7) Chloroethane	2.33	64	373295	49.9002	ug/Kg	99
9) Trichlorofluoromethane	2.46	101	721080	49.7599	ug/Kg	100
10) 1,1-Dichloroethene	2.94	96	501066	50.2274	ug/Kg	99
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	529400	50.4182	ug/Kg	99
13) Acetone	3.62	43	235361	70.5174	ug/Kg	100
14) Carbon disulfide	2.98	76	1777929	50.3127	ug/Kg	99
15) Methyl acetate	3.77	43	316682	55.6553	ug/Kg	99
16) Methylene chloride	3.57	84	528821	52.7148	ug/Kg	99
17) trans-1,2-Dichloroethene	3.77	96	529280	50.2241	ug/Kg	98
18) Methyl tert-butyl ether	3.89	73	1158667	53.5515	ug/Kg	98
19) 1,1-Dichloroethane	4.59	63	1048445	51.9846	ug/Kg	100
20) cis-1,2-Dichloroethene	5.42	96	540786	52.0527	ug/Kg	99
21) 2-Butanone	6.26	43	348311	90.9100	ug/Kg	100
23) Bromochloromethane	5.71	128	248466	52.9872	ug/Kg	98
24) Chloroform	5.83	83	965515	52.8390	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

00252

Quantitation Report

Data File : C:\msdchem\1\Data by...27MAY15E.PM\EO92S50.D Vial: 13
Acq Time : 05/27/2015 19:12 Operator: RJH
Sample : VSTD050SB VSTD050SB Inst : 5975-E
Misc : 2.5 uL of 28016, 28017, 28019 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 27 19:31:28 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2-Dichloroethane	6.87	62	699864	54.9606	ug/Kg	99
28)	1,4-Dioxane	8.27	88	62313	1069.3919	ug/Kg	98
31)	1,1,1-Trichloroethane	6.11	97	876794	49.6170	ug/Kg	99
32)	Cyclohexane	5.72	56	1134913	50.9755	ug/Kg	99
33)	Carbon tetrachloride	6.02	117	808580	48.7302	ug/Kg	99
34)	Benzene	6.61	78	2096583	51.2528	ug/Kg#	100
36)	Trichloroethene	7.35	130	549038	50.6471	ug/Kg	100
37)	Methylcyclohexane	7.34	83	984229	51.9068	ug/Kg	99
38)	1,2-Dichloropropane	7.97	63	537569	50.8044	ug/Kg	98
40)	Bromodichloromethane	8.05	83	697602	52.8456	ug/Kg	99
41)	cis-1,3-Dichloropropene	8.77	75	859216	52.5290	ug/Kg	98
43)	trans-1,3-Dichloropropene	9.48	75	776793	53.6322	ug/Kg	98
45)	1,1,2-Trichloroethane	9.64	97	392541	52.5658	ug/Kg	99
46)	Dibromochloromethane	9.83	129	492053	52.2827	ug/Kg	98
47)	4-Methyl-2-pentanone	9.44	43	817754	111.6222	ug/Kg	99
48)	Toluene	9.02	91	2281464	51.6475	ug/Kg	100
50)	Tetrachloroethene	9.44	164	461650	48.8313	ug/Kg	99
51)	2-Hexanone	10.32	43	637226	104.7909	ug/Kg	99
53)	1,2-Dibromoethane	10.07	107	364352	51.9629	ug/Kg	98
54)	Chlorobenzene	10.62	112	1510530	51.3299	ug/Kg	100
55)	Ethylbenzene	10.66	91	2664731	52.1389	ug/Kg	100
56)	m,p-Xylene	10.81	106	981946	52.5106	ug/Kg	99
57)	o-Xylene	11.25	106	931795	52.7083	ug/Kg	98
58)	Styrene	11.30	104	1574194	55.3345	ug/Kg	99
59)	Isopropylbenzene	11.57	105	2629670	53.1191	ug/Kg	100
60)	1,1,2,2-Tetrachloroethane	12.06	83	496468	54.9259	ug/Kg	99
63)	Bromoform	11.32	173	347912	53.8225	ug/Kg	99
64)	1,3-Dichlorobenzene	12.93	146	1142436	51.3589	ug/Kg	100
65)	1,4-Dichlorobenzene	13.02	146	1211885	51.8269	ug/Kg	100
66)	1,2-Dichlorobenzene	13.45	146	1084109	53.1284	ug/Kg	100
68)	1,2-Dibromo-3-chloropropan	14.28	75	80870	56.5101	ug/Kg	98
69)	1,2,4-Trichlorobenzene	15.00	180	720937	53.7904	ug/Kg	99
70)	1,2,3-Trichlorobenzene	15.54	180	656917	56.5331	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

00253

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date: 05/28/2015 Time: 02:07

Lab File ID: EP09F50 Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050S0 Init. Calib. Time(s): 17:38 19:15

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.266	0.245	0.010	-7.9	50.0
Chloromethane	0.455	0.463	0.010	1.6	50.0
Vinyl chloride	0.436	0.438	0.010	0.4	50.0
Bromomethane	0.234	0.245	0.010	4.7	50.0
Chloroethane	0.257	0.259	0.010	0.7	50.0
Trichlorofluoromethane	0.498	0.503	0.010	1.0	50.0
1,1-Dichloroethene	0.343	0.340	0.010	-0.9	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.361	0.357	0.010	-1.0	50.0
Acetone	0.115	0.169	0.010	47.0	50.0
Carbon disulfide	1.215	1.206	0.010	-0.7	50.0
Methyl acetate	0.196	0.209	0.010	6.8	50.0
Methylene chloride	0.345	0.356	0.010	3.3	50.0
trans-1,2-Dichloroethene	0.362	0.366	0.010	0.9	50.0
Methyl tert-butyl ether	0.744	0.792	0.010	6.4	50.0
1,1-Dichloroethane	0.694	0.727	0.010	4.8	50.0
cis-1,2-Dichloroethene	0.357	0.376	0.010	5.2	50.0
2-Butanone	0.132	0.177	0.010	34.3	50.0
Bromochloromethane	0.161	0.168	0.010	4.3	50.0
Chloroform	0.628	0.663	0.010	5.5	50.0
1,1,1-Trichloroethane	0.648	0.663	0.010	2.3	50.0
Cyclohexane	0.816	0.866	0.010	6.1	50.0
Carbon tetrachloride	0.608	0.609	0.010	0.1	50.0
Benzene	1.500	1.591	0.010	6.1	50.0
1,2-Dichloroethane	0.438	0.476	0.010	8.7	50.0
1,4-Dioxane	0.0020	0.0021	0.0050	4.2	50.0
Trichloroethene	0.397	0.414	0.010	4.1	50.0
Methylcyclohexane	0.695	0.740	0.010	6.4	50.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date: 05/28/2015 Time: 02:07

Lab File ID: EP09F50 Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050S0 Init. Calib. Time(s): 17:38 19:15

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.388	0.409	0.010	5.5	50.0
Bromodichloromethane	0.484	0.517	0.010	6.8	50.0
cis-1,3-Dichloropropene	0.600	0.650	0.010	8.3	50.0
4-Methyl-2-Pentanone	0.269	0.297	0.010	10.4	50.0
Toluene	1.620	1.725	0.010	6.5	50.0
trans-1,3-Dichloropropene	0.531	0.579	0.010	9.1	50.0
1,1,2-Trichloroethane	0.274	0.287	0.010	4.8	50.0
Tetrachloroethene	0.347	0.349	0.010	0.8	50.0
2-Hexanone	0.223	0.304	0.010	36.4	50.0
Dibromochloromethane	0.345	0.364	0.010	5.4	50.0
1,2-Dibromoethane	0.257	0.267	0.010	3.9	50.0
Chlorobenzene	1.079	1.116	0.010	3.4	50.0
Ethylbenzene	1.874	1.999	0.010	6.7	50.0
o-Xylene	0.648	0.700	0.010	8.0	50.0
m,p-Xylene	0.686	0.739	0.010	7.9	50.0
Styrene	1.043	1.149	0.010	10.1	50.0
Bromoform	0.432	0.467	0.010	8.2	50.0
Isopropylbenzene	1.815	1.968	0.010	8.4	50.0
1,1,2,2-Tetrachloroethane	0.331	0.342	0.010	3.1	50.0
1,3-Dichlorobenzene	1.487	1.549	0.010	4.2	50.0
1,4-Dichlorobenzene	1.563	1.615	0.010	3.4	50.0
1,2-Dichlorobenzene	1.364	1.437	0.010	5.3	50.0
1,2-Dibromo-3-chloropropane	0.096	0.101	0.010	6.1	50.0
1,2,4-Trichlorobenzene	0.896	0.919	0.010	2.6	50.0
1,2,3-Trichlorobenzene	0.777	0.816	0.010	5.1	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-E Calibration Date: 05/28/2015 Time: 02:07

Lab File ID: EP09F50 Init. Calib. Date(s): 05/15/2015 05/15/2015

EPA Sample No.(VSTD#####): VSTD050S0 Init. Calib. Time(s): 17:38 19:15

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 10.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.389	0.363	0.010	-6.7	50.0
Chloroethane-d5	0.297	0.282	0.010	-5.0	50.0
1,1-Dichloroethene-d2	0.883	0.838	0.010	-5.1	50.0
2-Butanone-d5	0.118	0.135	0.010	14.1	50.0
Chloroform-d	0.695	0.700	0.010	0.7	50.0
1,2-Dichloroethane-d4	0.368	0.379	0.010	2.8	50.0
Benzene-d6	1.504	1.491	0.010	-0.8	50.0
1,2-Dichloropropane-d6	0.440	0.441	0.010	0.3	50.0
Toluene-d8	1.384	1.374	0.010	-0.7	50.0
trans-1,3-Dichloropropene-d4	0.498	0.512	0.010	2.8	50.0
2-Hexanone-d5	0.081	0.091	0.010	12.3	50.0
1,4-Dioxane-d8	0.0018	0.0017	0.0050	-5.5	50.0
1,1,2,2-Tetrachloroethane-d2	0.355	0.352	0.010	-0.9	50.0
1,2-Dichlorobenzene-d4	0.932	0.917	0.010	-1.6	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

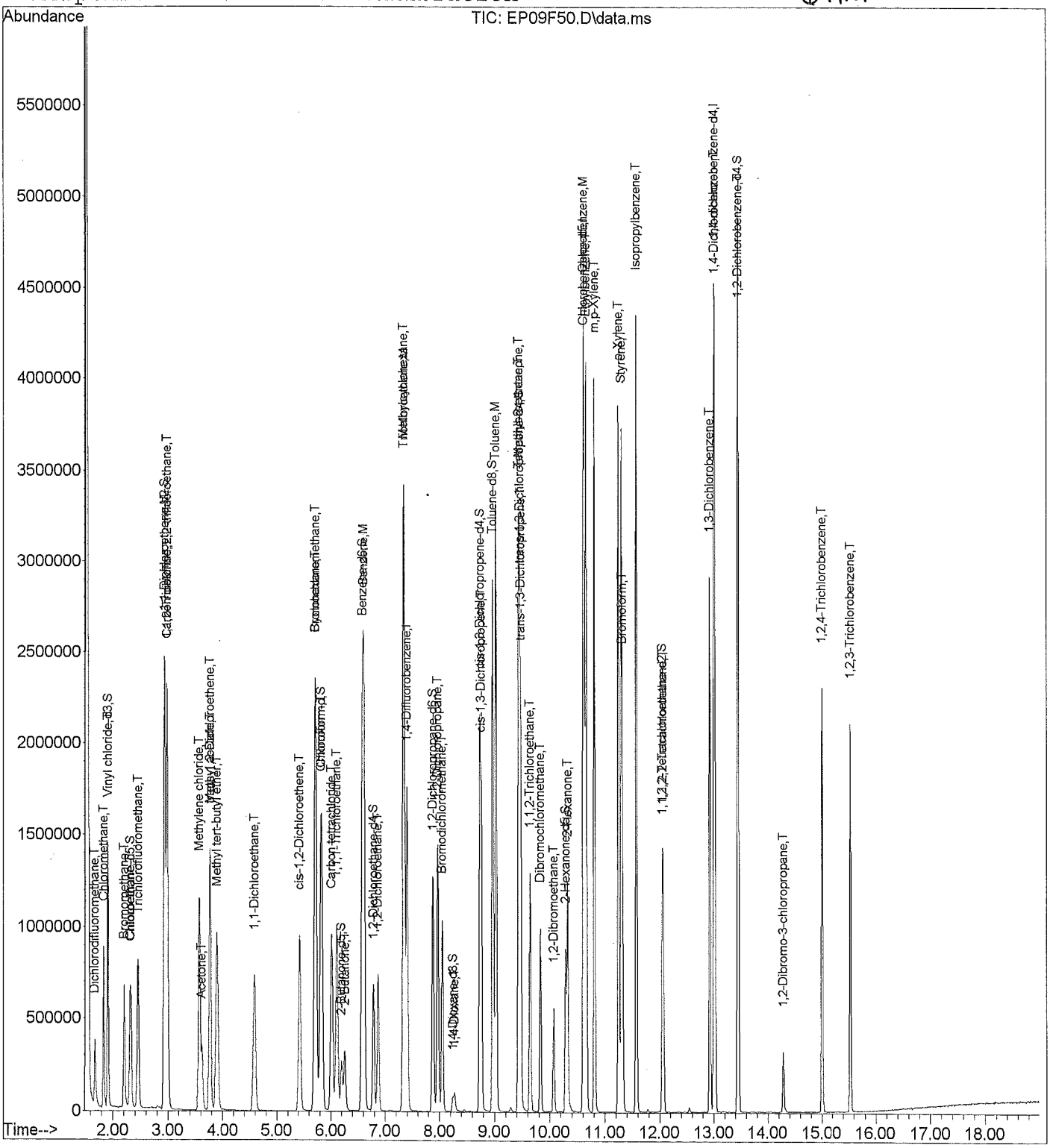
Quantitation Report

Data File : C:\msdchem\1\Data by...27MAY15E.PM\EP09F50.D Vial: 30
Acq Time : 05/28/2015 02:07 Operator: CQC
Sample : VSTD050S0 VSTD050S0 Inst : 5975-E
Misc : 2.5 uL of 28016, 28017, 28019 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 02:26:48 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.15



Quantitation Report

Data File : C:\msdchem\1\Data by...27MAY15E.PM\EP09F50.D Vial: 30
Acq Time : 05/28/2015 02:07 Operator: CQC
Sample : VSTD050S0 VSTD050S0 Inst : 5975-E
Misc : 2.5 uL of 28016, 28017, 28019 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 02:26:48 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1534349	50.0000	ug/Kg	85.08
30) Chlorobenzene-d5	10.60	117	1408301	50.0000	ug/Kg	85.30
62) 1,4-dichlorobenzene-d4	13.00	152	746541	50.0000	ug/Kg	85.79
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	557085	46.6500	ug/Kg	93.30%
8) Chloroethane-d5	2.31	69	432342	47.4956	ug/Kg	94.99%
11) 1,1-Dichloroethene-d2	2.93	63	1285446	47.4393	ug/Kg	94.88%
22) 2-Butanone-d5	6.19	46	413547	114.0777	ug/Kg	114.08%
25) Chloroform-d	5.81	84	1073852	50.3294	ug/Kg	100.66%
27) 1,2-Dichloroethane-d4	6.78	65	580783	51.4063	ug/Kg	102.81%
29) 1,4-Dioxane-d8	8.24	96	52853	944.8236	ug/Kg	94.48%
35) Benzene-d6	6.58	84	2100412	49.5784	ug/Kg	99.16%
39) 1,2-Dichloropropane-d6	7.88	67	621171	50.1385	ug/Kg	100.28%
42) cis-1,3-Dichloropropene-d4	8.74	79	1116295	50.3978	ug/Kg	100.80%
44) trans-1,3-Dichloropropene-	9.46	79	721637	51.4205	ug/Kg	102.84%
49) Toluene-d8	8.97	98	1935117	49.6257	ug/Kg	99.25%
52) 2-Hexanone-d5	10.28	63	257114	112.3154	ug/Kg	112.32%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	496060	49.5430	ug/Kg	99.09%
67) 1,2-Dichlorobenzene-d4	13.44	152	684949	49.2052	ug/Kg	98.41%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.68	85	375624	46.0639	ug/Kg#	98
3) Chloromethane	1.83	50	709826	50.8049	ug/Kg	99
4) Vinyl chloride	1.91	62	671499	50.1793	ug/Kg	99
6) Bromomethane	2.21	94	376668	52.3619	ug/Kg	99
7) Chloroethane	2.33	64	397376	50.3400	ug/Kg	99
9) Trichlorofluoromethane	2.46	101	771999	50.4863	ug/Kg	99
10) 1,1-Dichloroethene	2.94	96	521715	49.5611	ug/Kg	98
12) 1,1,2-Trichloro-1,2,2-trif	2.99	101	548332	49.4890	ug/Kg	98
13) Acetone	3.61	43	517589	146.9630	ug/Kg	100
14) Carbon disulfide	2.98	76	1850640	49.6302	ug/Kg	99
15) Methyl acetate	3.77	43	320646	53.4035	ug/Kg	99
16) Methylene chloride	3.57	84	546988	51.6729	ug/Kg	99
17) trans-1,2-Dichloroethene	3.76	96	561289	50.4748	ug/Kg	98
18) Methyl tert-butyl ether	3.89	73	1214674	53.2027	ug/Kg	98
19) 1,1-Dichloroethane	4.58	63	1114889	52.3868	ug/Kg	100
20) cis-1,2-Dichloroethene	5.42	96	576547	52.5913	ug/Kg	99
21) 2-Butanone	6.26	43	542842	134.2700	ug/Kg	99
23) Bromochloromethane	5.71	128	258006	52.1429	ug/Kg	97
24) Chloroform	5.83	83	1017269	52.7585	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

000258

Quantitation Report

Data File : C:\msdchem\1\Data by...27MAY15E.PM\EP09F50.D Vial: 30
Acq Time : 05/28/2015 02:07 Operator: CQC
Sample : VSTD050S0 VSTD050S0 Inst : 5975-E
Misc : 2.5 uL of 28016, 28017, 28019 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 28 02:26:48 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2-Dichloroethane	6.87	62	730569	54.3701	ug/Kg	99
28)	1,4-Dioxane	8.27	88	64067	1041.9666	ug/Kg	98
31)	1,1,1-Trichloroethane	6.11	97	933418	51.1521	ug/Kg	99
32)	Cyclohexane	5.72	56	1219702	53.0526	ug/Kg	98
33)	Carbon tetrachloride	6.01	117	857357	50.0370	ug/Kg	98
34)	Benzene	6.61	78	2240371	53.0372	ug/Kg#	99
36)	Trichloroethene	7.35	130	582755	52.0586	ug/Kg	99
37)	Methylcyclohexane	7.34	83	1041531	53.1930	ug/Kg	99
38)	1,2-Dichloropropane	7.97	63	576407	52.7534	ug/Kg	98
40)	Bromodichloromethane	8.05	83	727630	53.3785	ug/Kg	99
41)	cis-1,3-Dichloropropene	8.77	75	914780	54.1587	ug/Kg	98
43)	trans-1,3-Dichloropropene	9.48	75	816059	54.5628	ug/Kg	98
45)	1,1,2-Trichloroethane	9.64	97	404207	52.4175	ug/Kg	99
46)	Dibromochloromethane	9.83	129	512098	52.6931	ug/Kg	99
47)	4-Methyl-2-pentanone	9.44	43	835415	110.4294	ug/Kg	99
48)	Toluene	9.02	91	2429619	53.2633	ug/Kg	99
50)	Tetrachloroethene	9.44	164	491862	50.3829	ug/Kg	99
51)	2-Hexanone	10.32	43	856411	136.3851	ug/Kg	99
53)	1,2-Dibromoethane	10.07	107	376293	51.9700	ug/Kg	99
54)	Chlorobenzene	10.62	112	1571404	51.7110	ug/Kg	100
55)	Ethylbenzene	10.66	91	2815335	53.3449	ug/Kg	100
56)	m,p-Xylene	10.81	106	1041328	53.9265	ug/Kg	99
57)	o-Xylene	11.25	106	986008	54.0124	ug/Kg	98
58)	Styrene	11.30	104	1617559	55.0620	ug/Kg	99
59)	Isopropylbenzene	11.57	105	2771872	54.2222	ug/Kg	100
60)	1,1,2,2-Tetrachloroethane	12.06	83	481159	51.5501	ug/Kg	99
63)	Bromoform	11.32	173	348958	54.0897	ug/Kg	100
64)	1,3-Dichlorobenzene	12.93	146	1156332	52.0851	ug/Kg	100
65)	1,4-Dichlorobenzene	13.02	146	1205985	51.6754	ug/Kg	100
66)	1,2-Dichlorobenzene	13.45	146	1072411	52.6578	ug/Kg	99
68)	1,2-Dibromo-3-chloropropan	14.28	75	75740	53.0287	ug/Kg	97
69)	1,2,4-Trichlorobenzene	15.00	180	686434	51.3161	ug/Kg	99
70)	1,2,3-Trichlorobenzene	15.53	180	609318	52.5392	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

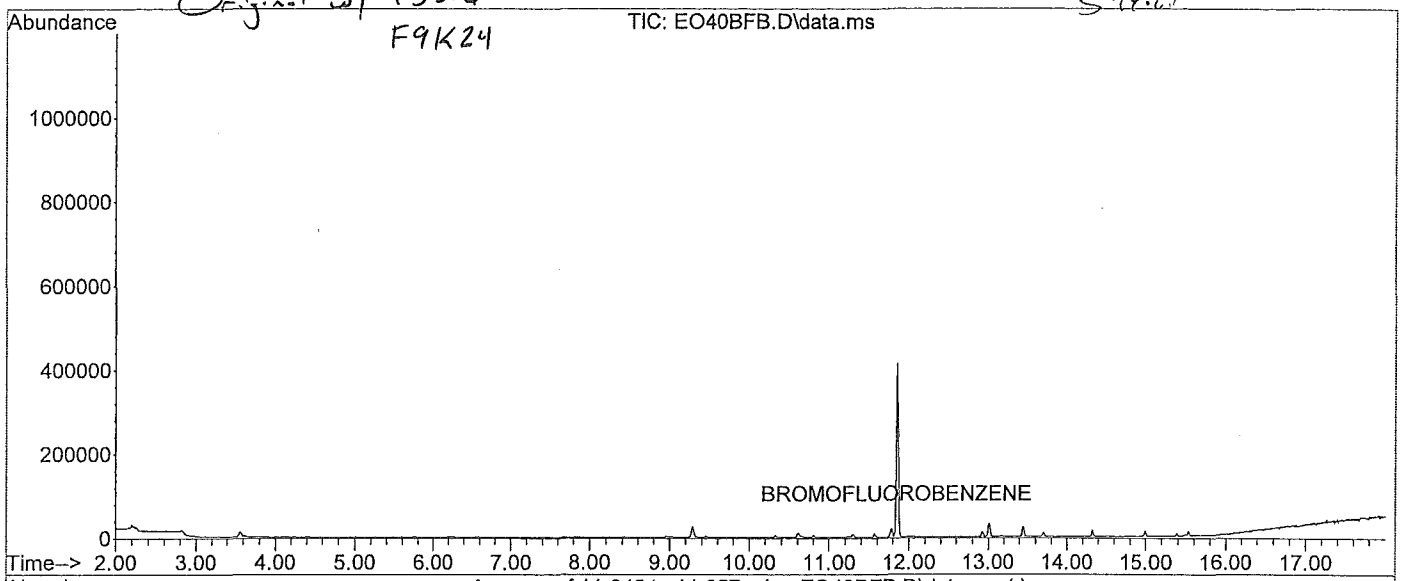
00253

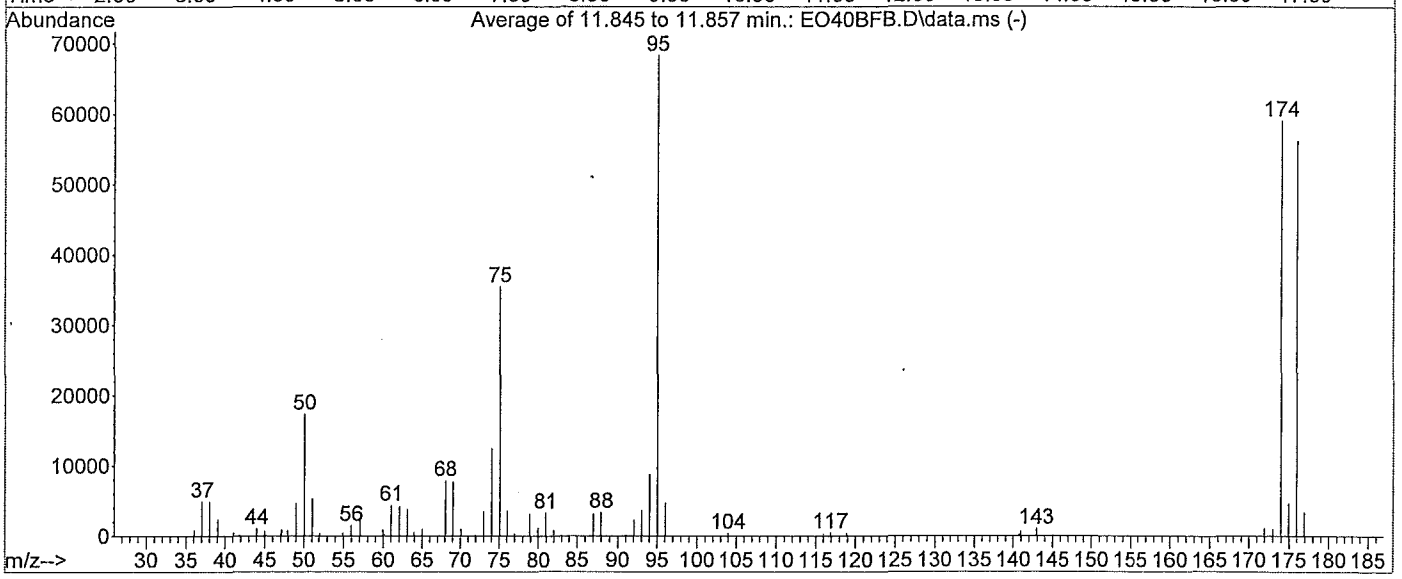
SOM01.2 BFB

Data File : C:\msdchem\1\DATA\15MAY15E\EO40BFB.D Vial: 1
Acq Time : 05/15/2015 17:07 Operator: CQC
Sample : BFBSE 50 ng BFB Inst : 5975-E
Misc : 2.0 uL of 27660 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Method : C:\msdchem\1\methods\BFB_SOM.M (RTE Integrator)
Title : VOA COMPOUND LIST

Original w/ 45316
F9K24
5.18.15





Peak Apex is scan: 1700
Average of 3 Scans: 1699,1700,1701 minus Background scan: 1693

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.32	17285	PASS
75	95	30	80	51.89	35416	PASS
95	95	100	100	100.00	68253	PASS
96	95	5	9	6.81	4648	PASS
173	174	0.00	2	1.65	974	PASS
174	95	50	120	86.45	59008	PASS
175	174	5	9	7.80	4605	PASS
176	174	95	101	95.19	56168	PASS
177	176	5	9	5.84	3282	PASS

EO40BFB.D BFB_SOM.M Tue May 19 22:40:19 2015

Data File : C:\msdchem\1\DATA\15MAY15E\EO40BFB.D
Inject Time: 05/15/2015 17:07 Operator:CQC
Sample : BFBSE 5 Inst :5975-E
Misc : 2.0 uL of 27660

Average of 11.845 to 11.857 min.: EO40BFB.D\data.ms
BFBSE 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	770	47.15	857	61.00	4315	73.00	3464
37.05	4881	47.90	665	62.05	4156	74.05	12432
38.00	4824	49.00	4561	63.05	3736	75.10	35416
39.05	2297	50.05	17285	63.95	448	76.05	3576
39.90	115	51.05	5240	65.00	933	77.00	269
41.10	355	52.05	341	67.20	160	78.90	3109
41.90	154	54.95	370	68.05	7824	79.95	1033
44.00	1008	55.95	1452	69.05	7686	80.90	3252
45.00	633	57.05	2553	70.10	959	81.95	771
45.20	275	59.95	835	71.90	157	87.00	3055
47.00	239	60.20	274	72.10	147	87.95	3308

Average of 11.845 to 11.857 min.: EO40BFB.D\data.ms
BFBSE 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.00	148	119.10	165				
92.05	2257	140.80	188				
93.05	3574	140.95	577				
94.05	8714	142.95	1004				
95.05	68253	145.00	159				
96.05	4648	171.95	1057				
103.95	358	173.05	974				
116.00	213	173.95	59008				
116.90	453	174.95	4605				
117.90	155	175.95	56168				
118.90	348	176.90	3282				

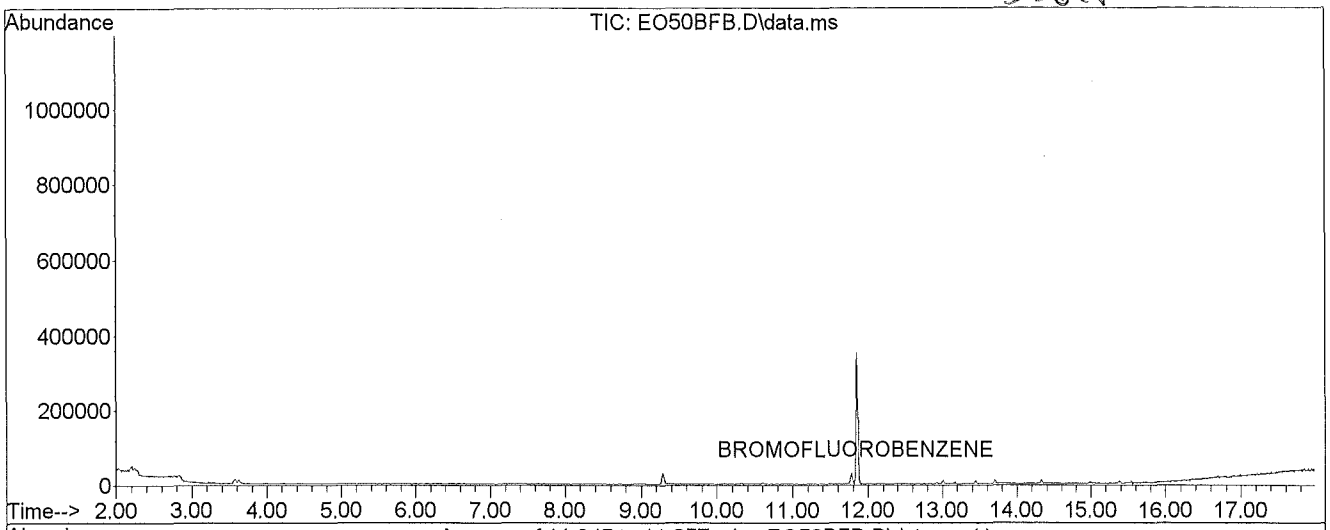
SOM01.2 BFB

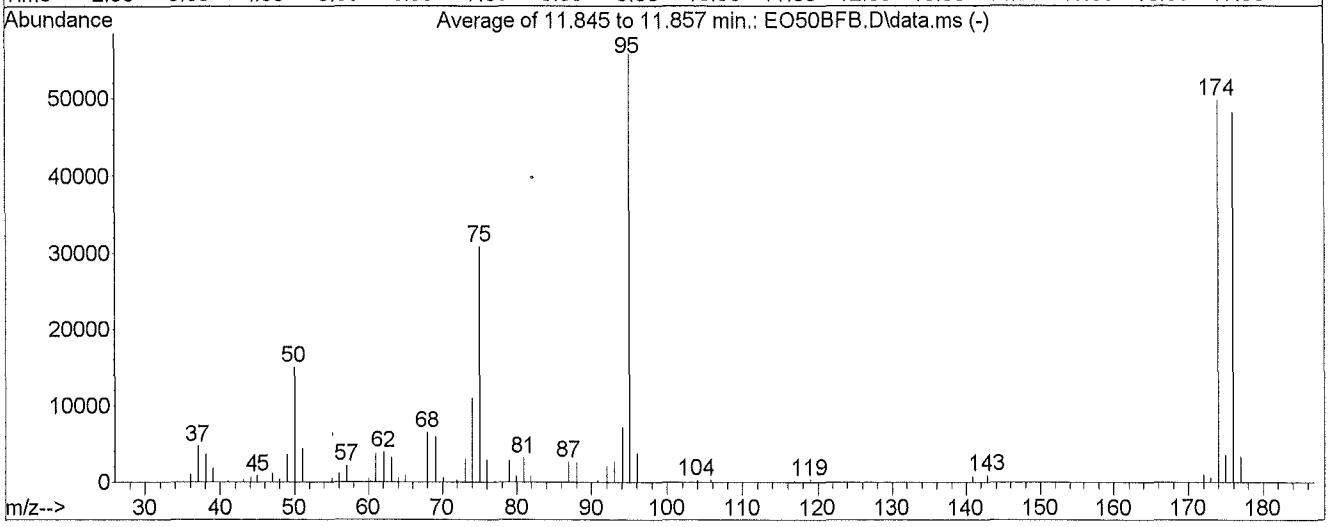
Data File : C:\msdchem\1\DATA\26MAY15E\EO50BFB.D
Acq Time : 05/26/2015 19:05
Sample : BFBS4 50 ng BFB
Misc : 2.0 uL of 27660
MS Integration Params: rteint.p

Vial: 1
Operator: CQC
Inst : 5975-E
Multiplr: 1.00
Column ID: Rtx-VMS

Method : C:\msdchem\1\methods\BFB_SOM.M (RTE Integrator)
Title : VOA COMPOUND LIST

5.26.15





Peak Apex is scan: 1700
Average of 3 Scans: 1699,1700,1701 minus Background scan: 1694

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.96	15056	PASS
75	95	30	80	55.28	30872	PASS
95	95	100	100	100.00	55848	PASS
96	95	5	9	6.56	3666	PASS
173	174	0.00	2	1.10	546	PASS
174	95	50	120	89.15	49787	PASS
175	174	5	9	7.05	3511	PASS
176	174	95	101	96.76	48176	PASS
177	176	5	9	6.83	3291	PASS

Data File : C:\msdchem\1\DATA\26MAY15E\EO50BFB.D
Inject Time: 05/26/2015 19:05 Operator:CQC
Sample : BFBS4 5 Inst :5975-E
Misc : 2.0 uL of 27660

Average of 11.845 to 11.857 min.: EO50BFB.D\data.ms
BFBS4 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	937	50.00	15056	64.95	888	77.10	177
37.05	4667	51.05	4383	68.00	6454	78.95	2757
38.05	3681	55.05	518	69.05	5854	79.90	766
39.05	1776	56.05	1117	70.10	630	80.90	3115
41.00	219	57.05	2119	71.85	307	81.85	817
43.05	325	60.05	431	72.10	179	86.95	2674
44.05	633	60.30	166	73.05	3091	88.00	2541
45.00	821	61.00	3722	74.05	10993	90.85	302
47.05	1054	62.05	3867	75.05	30872	92.00	2050
47.95	372	63.10	3151	76.00	2844	93.05	2616
49.05	3619	64.05	508	76.90	149	94.10	7183

Average of 11.845 to 11.857 min.: EO50BFB.D\data.ms
BFBS4 50 ng BFB
Modified:subtracted

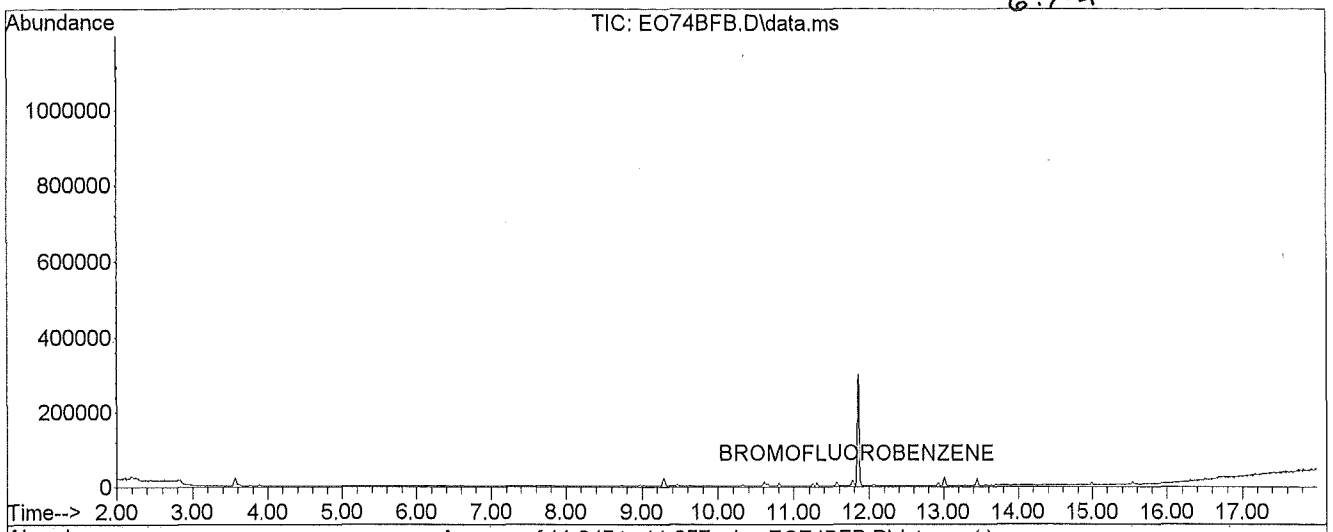
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.00	55848	173.95	49787				
96.05	3666	174.95	3511				
103.95	296	175.95	48176				
105.80	282	176.95	3291				
116.90	233						
119.00	312						
140.90	698						
142.85	908						
144.90	145						
172.00	906						
172.95	546						

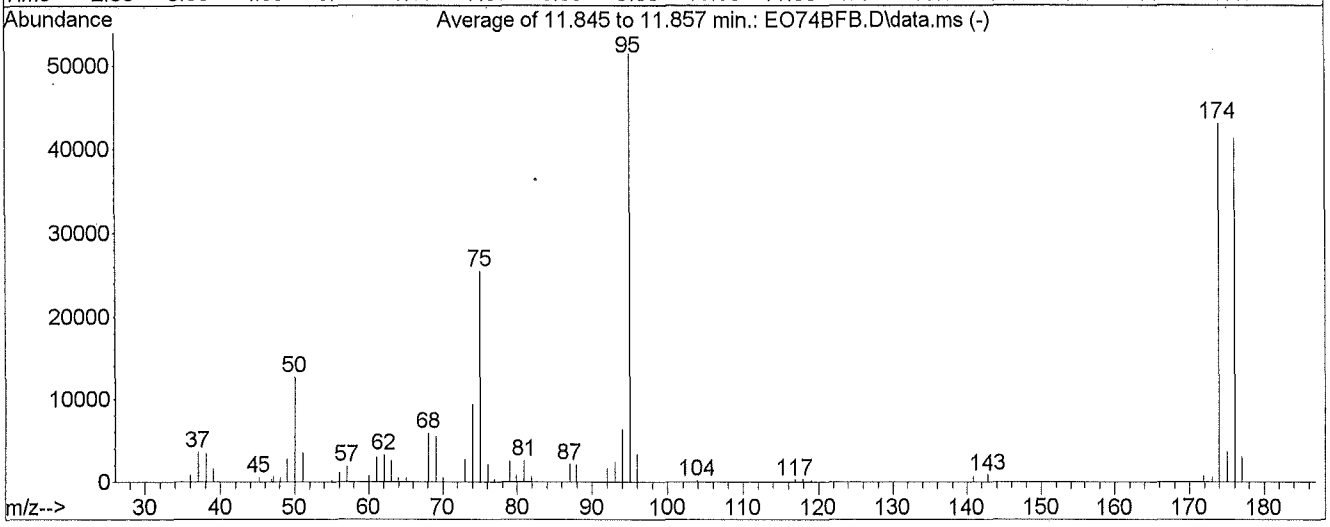
SOM01.2 BFB

Data File : C:\msdchem\1\Data by...27MAY15E.PM\EO74BFB.D Vial: 1
Acq Time : 05/27/2015 08:46 Operator: RJH
Sample : BFBW1 50 ng BFB Inst : 5975-E
Misc : 2.0 uL of 27660 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Method : C:\msdchem\1\methods\BFB_SOM.M (RTE Integrator)
Title : VOA COMPOUND LIST

6.9.4





Peak Apex is scan: 1700
Average of 3 Scans: 1699,1700,1701 minus Background scan: 1693

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.64	12669	PASS
75	95	30	80	49.58	25488	PASS
95	95	100	100	100.00	51408	PASS
96	95	5	9	6.51	3346	PASS
173	174	0.00	2	1.33	572	PASS
174	95	50	120	83.56	42957	PASS
175	174	5	9	8.36	3593	PASS
176	174	95	101	96.01	41245	PASS
177	176	5	9	7.55	3116	PASS

EO74BFB.D BFB_SOM.M Tue Jun 09 22:33:06 2015

Data File : C:\msdchem\1\Data by Year\2015\MAY15E\27MAY15E.PM\EO74BFB.D
Inject Time: 05/27/2015 08:46 Operator:RJH
Sample : BFBW1 5 Inst :5975-E
Misc : 2.0 uL of 27660

Average of 11.845 to 11.857 min.: EO74BFB.D\data.ms
BFBW1 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	778	55.00	138	70.00	472	87.95	2103
37.05	3553	56.05	1092	73.00	2695	92.00	1662
38.05	3398	57.05	1856	74.05	9366	93.05	2394
39.05	1602	60.05	746	75.05	25488	94.00	6347
45.15	590	61.05	2942	76.05	2086	95.05	51408
46.90	381	62.05	3288	76.95	350	96.00	3346
47.15	634	63.05	2585	78.95	2458	103.90	169
48.05	465	63.95	474	79.90	771	116.90	303
49.05	2835	65.10	486	80.95	2556	117.90	281
50.05	12669	68.05	5869	81.85	615	119.00	145
51.05	3597	69.05	5502	87.05	2159	140.85	602

Average of 11.845 to 11.857 min.: EO74BFB.D\data.ms
BFBW1 50 ng BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.85	845						
171.85	737						
173.05	572						
173.95	42957						
175.00	3593						
176.00	41245						
176.95	3116						

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450626

Sample wt/vol: 5.00 (g/mL) g Lab File ID: E052BLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	2.1	J
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.48	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450626

Sample wt/vol: 5.00 (g/mL) g Lab File ID: E052BLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	0.17	J
106-46-7	1,4-Dichlorobenzene	0.22	J
95-50-1	1,2-Dichlorobenzene	0.19	J
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.30	J
87-61-6	1,2,3-Trichlorobenzene	0.38	J

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKS4

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450626

Sample wt/vol: 5.00 (g/mL) g Lab File ID: E052BLK

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/26/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

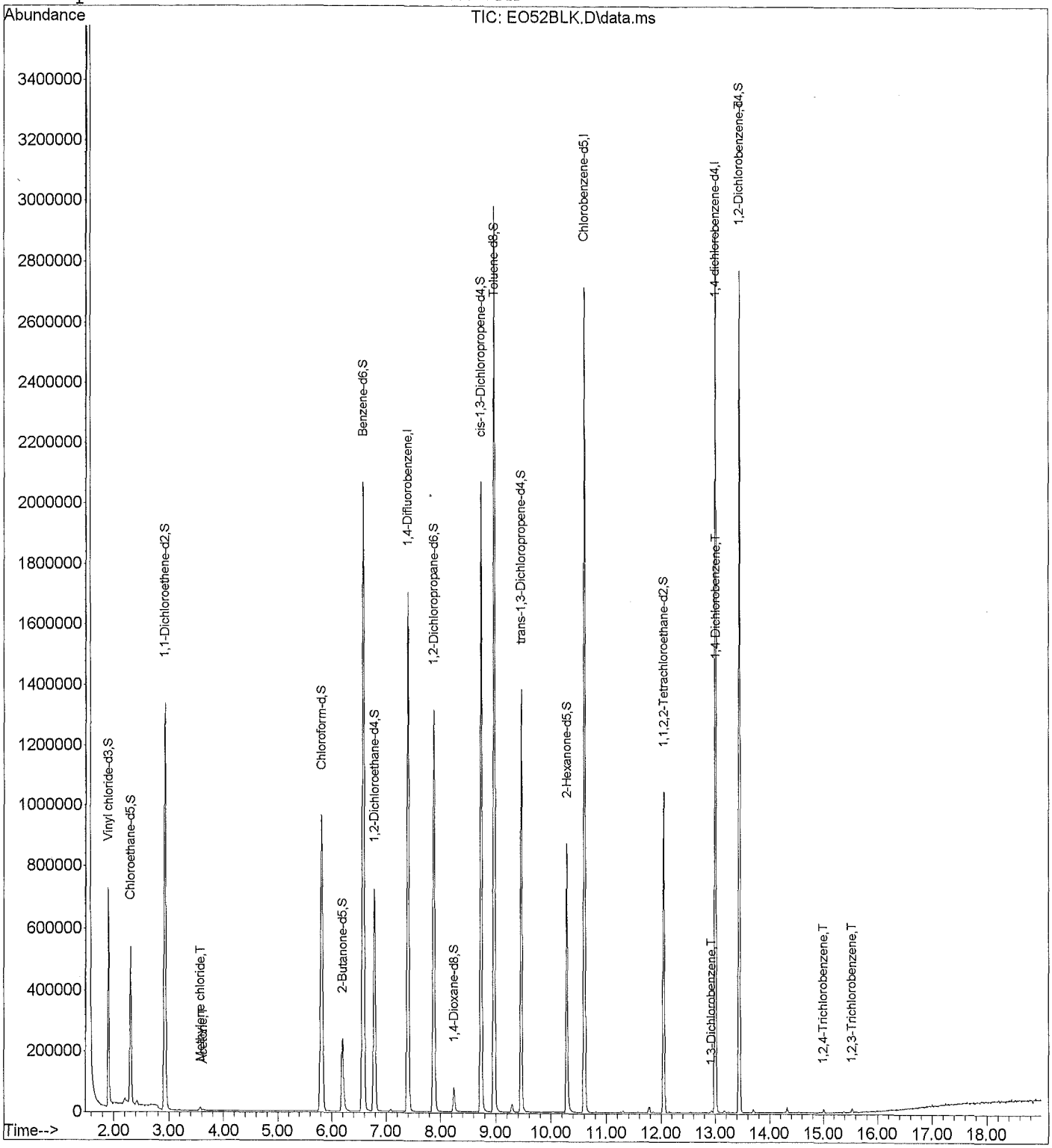
Quantitation Report

Data File : C:\msdchem\1\Data by...5E\26MAY15E\EO52BLK.D Vial: 3
Acq Time : 05/26/2015 19:54 Operator: CQC
Sample : 450626 VBLKS4 Inst : 5975-E
Misc : 2.5 uL of 28018 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 26 20:13:34 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.15



00269

Quantitation Report

Data File : C:\msdchem\1\Data by...5E\26MAY15E\EO52BLK.D Vial: 3
Acq Time : 05/26/2015 19:54 Operator: CQC
Sample : 450626 VBLKS4 Inst : 5975-E
Misc : 2.5 uL of 28018 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: May 26 20:13:34 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1507992	50.0000	ug/Kg	83.62
30) Chlorobenzene-d5	10.61	117	1442220	50.0000	ug/Kg	87.36
62) 1,4-dichlorobenzene-d4	13.00	152	727476	50.0000	ug/Kg	83.60
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	601451	51.2454	ug/Kg	102.49%
8) Chloroethane-d5	2.31	69	465585	52.0415	ug/Kg	104.08%
11) 1,1-Dichloroethene-d2	2.93	63	1035060	38.8665	ug/Kg	77.73%
22) 2-Butanone-d5	6.19	46	401544	112.7027	ug/Kg	112.70%
25) Chloroform-d	5.81	84	1065963	50.8329	ug/Kg	101.67%
27) 1,2-Dichloroethane-d4	6.78	65	617066	55.5724	ug/Kg	111.14%
29) 1,4-Dioxane-d8	8.24	96	60363	1097.9360	ug/Kg	109.79%
35) Benzene-d6	6.58	84	2181969	50.2922	ug/Kg	100.58%
39) 1,2-Dichloropropane-d6	7.88	67	642684	50.6549	ug/Kg	101.31%
42) cis-1,3-Dichloropropene-d4	8.74	79	1138989	50.2130	ug/Kg	100.43%
44) trans-1,3-Dichloropropene-	9.46	79	706067	49.1278	ug/Kg	98.26%
49) Toluene-d8	8.97	98	1991933	49.8813	ug/Kg	99.76%
52) 2-Hexanone-d5	10.28	63	256826	109.5511	ug/Kg	109.55%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	528167	51.5090	ug/Kg	103.02%
67) 1,2-Dichlorobenzene-d4	13.44	152	713098	52.5699	ug/Kg	105.14%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected		
3) Chloromethane	0.00	50		Not Detected		
4) Vinyl chloride	0.00	62		Not Detected		
6) Bromomethane	0.00	94		Not Detected		
7) Chloroethane	0.00	64		Not Detected		
9) Trichlorofluoromethane	0.00	101		Not Detected		
10) 1,1-Dichloroethene	0.00	96		Not Detected		
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected		
13) Acetone	3.62	43	7110	2.0541	ug/Kg	78
14) Carbon disulfide	0.00	76		Not Detected		
15) Methyl acetate	0.00	43		Not Detected		
16) Methylene chloride	3.57	84	4972	0.4779	ug/Kg	95
17) trans-1,2-Dichloroethene	0.00	96		Not Detected		
18) Methyl tert-butyl ether	0.00	73		Not Detected		
19) 1,1-Dichloroethane	0.00	63		Not Detected		
20) cis-1,2-Dichloroethene	0.00	96		Not Detected		
21) 2-Butanone	0.00	43		Not Detected		
23) Bromochloromethane	0.00	128		Not Detected		
24) Chloroform	0.00	83		Not Detected		

(#) = qualifier out of range (m) = manual integration

00270

Quantitation Report

Data File : C:\msdchem\1\Data by...5E\26MAY15E\EO52BLK.D Vial: 3
Acq Time : 05/26/2015 19:54 Operator: CQC
Sample : 450626 VBLKS4 Inst : 5975-E
Misc : 2.5 uL of 28018 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

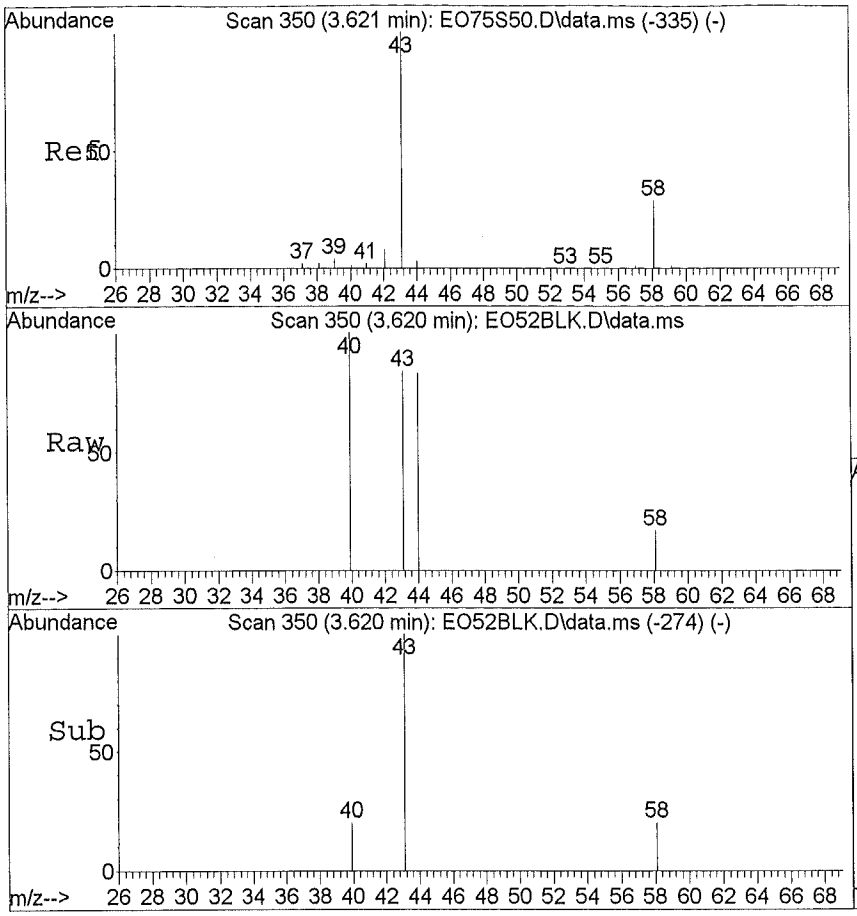
Quant Time: May 26 20:13:34 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	130		Not Detected	
37)	Methylcyclohexane	0.00	83		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	12.93	146	3751	0.1734 ug/Kg#	82
65)	1,4-Dichlorobenzene	13.02	146	4973	0.2187 ug/Kg#	1
66)	1,2-Dichlorobenzene	13.45	146	3832	0.1931 ug/Kg#	1
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	15.00	180	3946	0.3027 ug/Kg#	89
70)	1,2,3-Trichlorobenzene	15.54	180	4332	0.3833 ug/Kg#	87

(#) = qualifier out of range (m) = manual integration

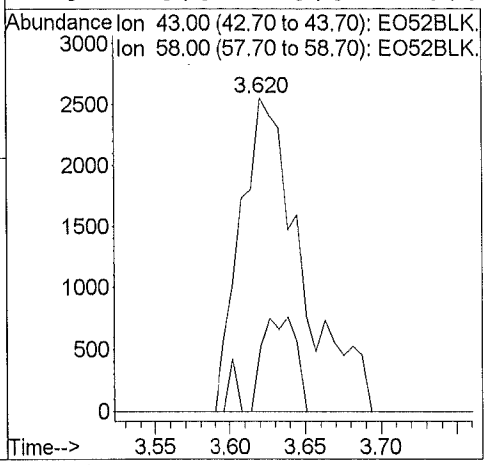
00271

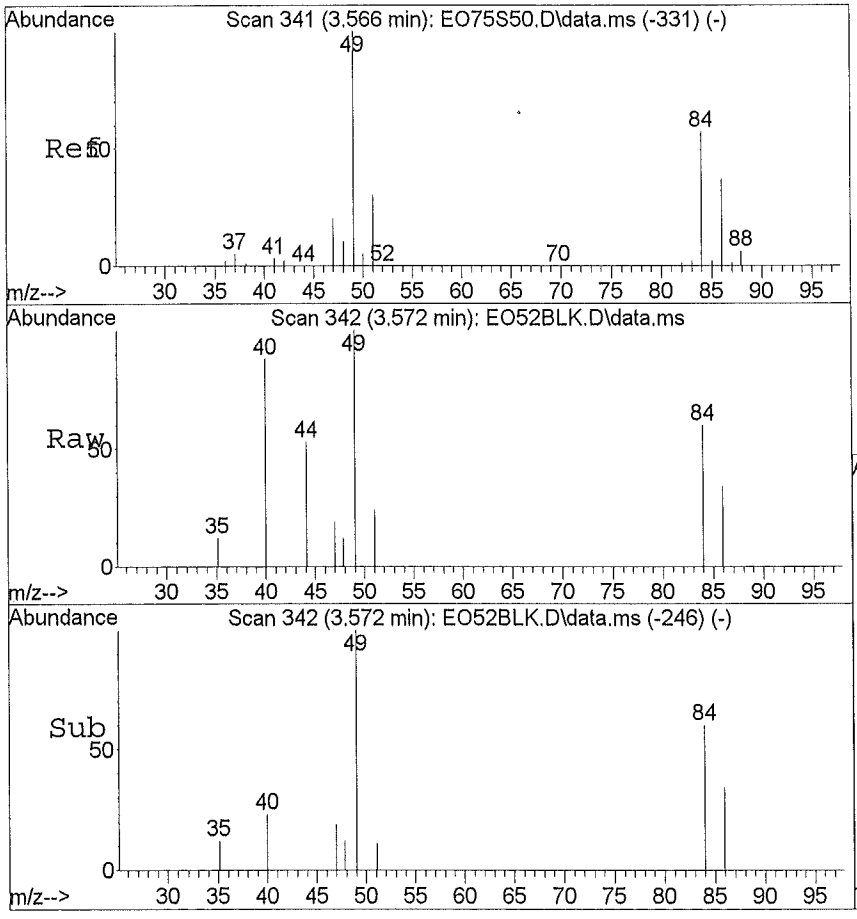


#13
Acetone
Concen: 2.05 ug/Kg
RT: 3.62 min Scan# 350
Delta R.T. -0.00 min
Lab File: EO52BLK.D
Acq: 05/26/2015 19:54

Tgt Ion:43 Resp: 7110

Ion	Ratio	Lower	Upper
43	100		
58	16.7	14.2	42.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

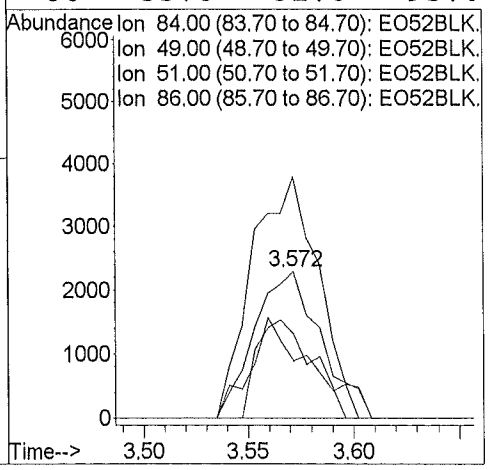


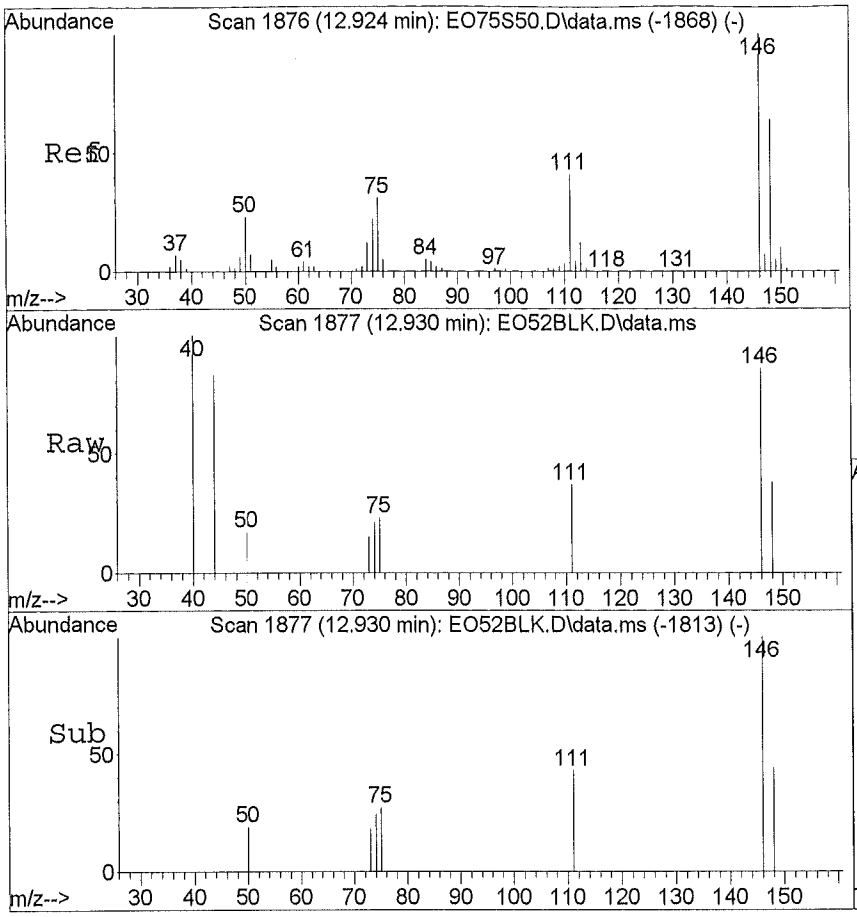


#16
Methylene chloride
Concen: 0.48 ug/Kg
RT: 3.57 min Scan# 342
Delta R.T. -0.00 min
Lab File: EO52BLK.D
Acq: 05/26/2015 19:54

Tgt Ion:84 Resp: 4972

Ion	Ratio	Lower	Upper
84	100		
49	168.1	84.4	253.2
51	59.7	25.7	77.0
86	55.8	31.6	95.0

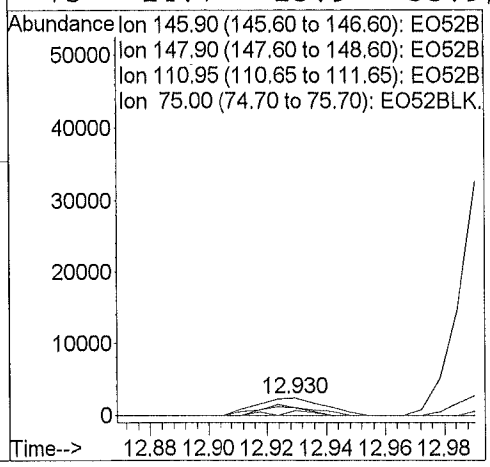


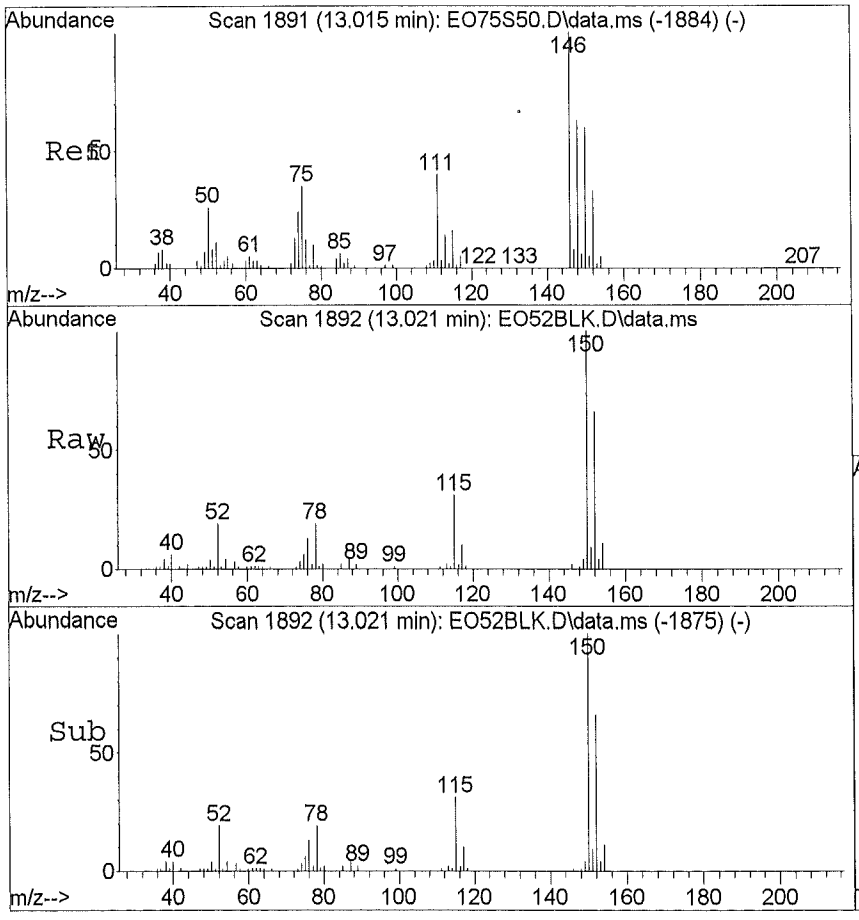


#64
1,3-Dichlorobenzene
Concen: 0.17 ug/Kg
RT: 12.93 min Scan# 1877
Delta R.T. 0.01 min
Lab File: EO52BLK.D
Acq: 05/26/2015 19:54

Tgt Ion:145.9 Resp: 3751

Ion	Ratio	Lower	Upper
146	100		
148	49.4	51.0	76.6#
111	33.8	31.8	47.8
75	14.7	23.9	35.9#

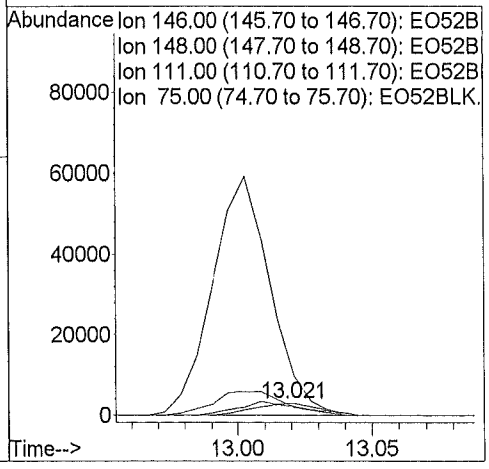




#65
1,4-Dichlorobenzene
Concen: 0.22 ug/Kg
RT: 13.02 min Scan# 1892
Delta R.T. -0.00 min
Lab File: EO52BLK.D
Acq: 05/26/2015 19:54

Tgt Ion:146 Resp: 4973

Ion	Ratio	Lower	Upper
146	100		
148	110.8	32.1	96.5#
111	219.1	19.7	59.1#
75	1806.0	19.6	58.7#



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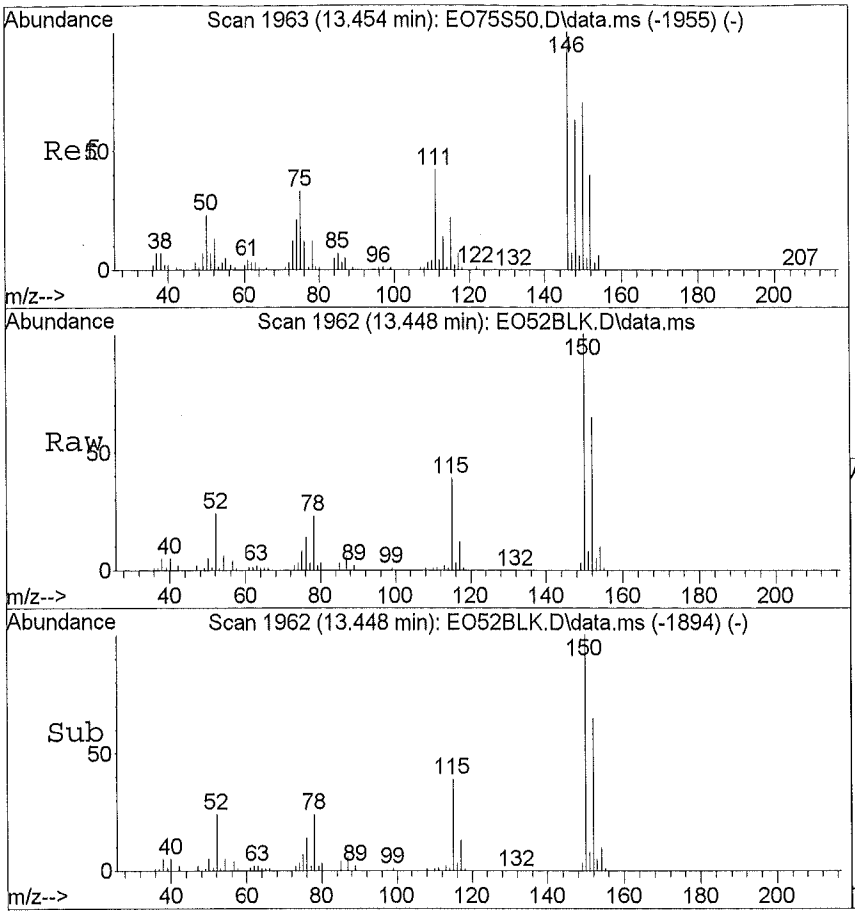
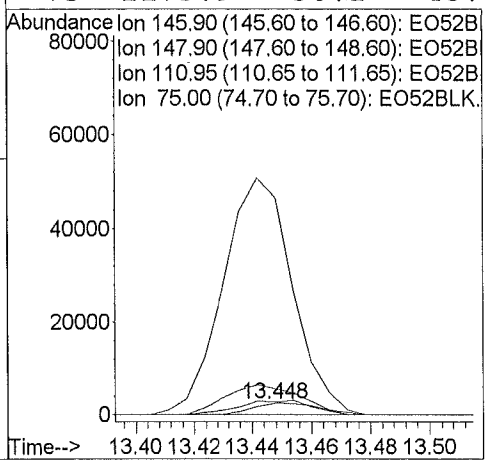
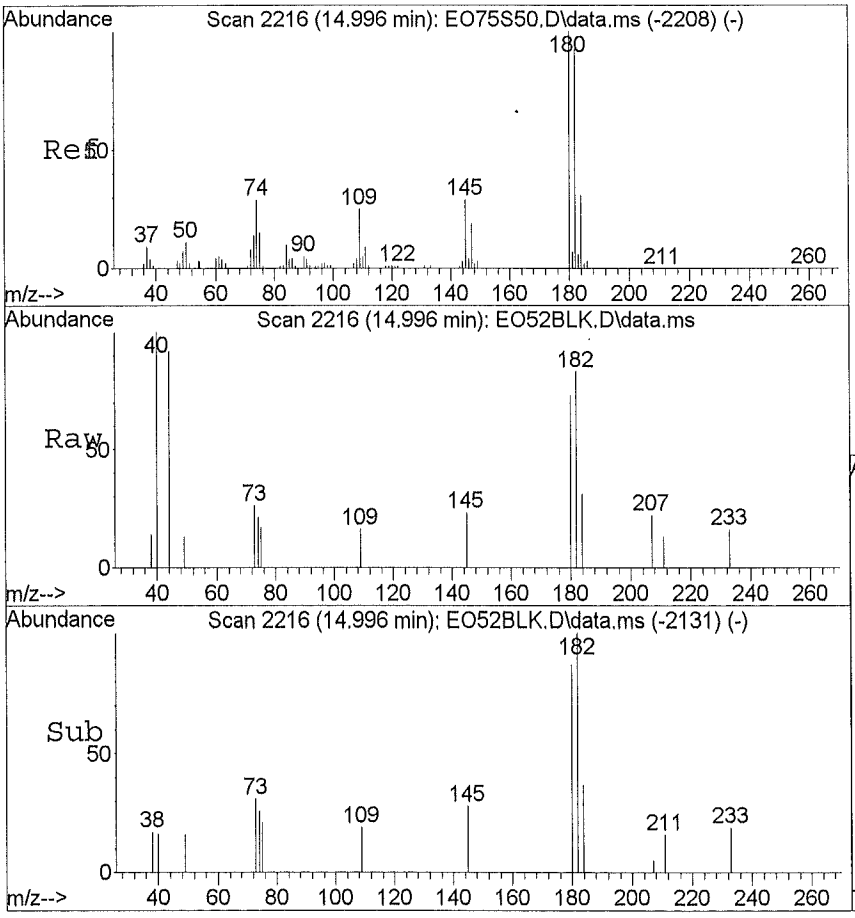


#66
1,2-Dichlorobenzene
Concen: 0.19 ug/Kg
RT: 13.45 min Scan# 1962
Delta R.T. -0.01 min
Lab File: EO52BLK.D
Acq: 05/26/2015 19:54

Tgt Ion:145.9 Resp: 3832

Ion	Ratio	Lower	Upper
146	100		
148	133.0	51.3	76.9#
111	290.8	33.9	50.9#
75	2173.9	30.2	45.4#

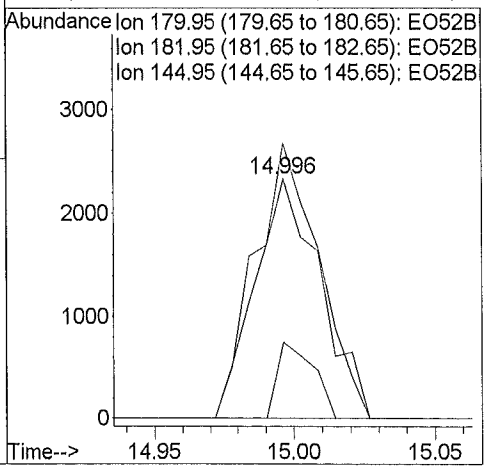


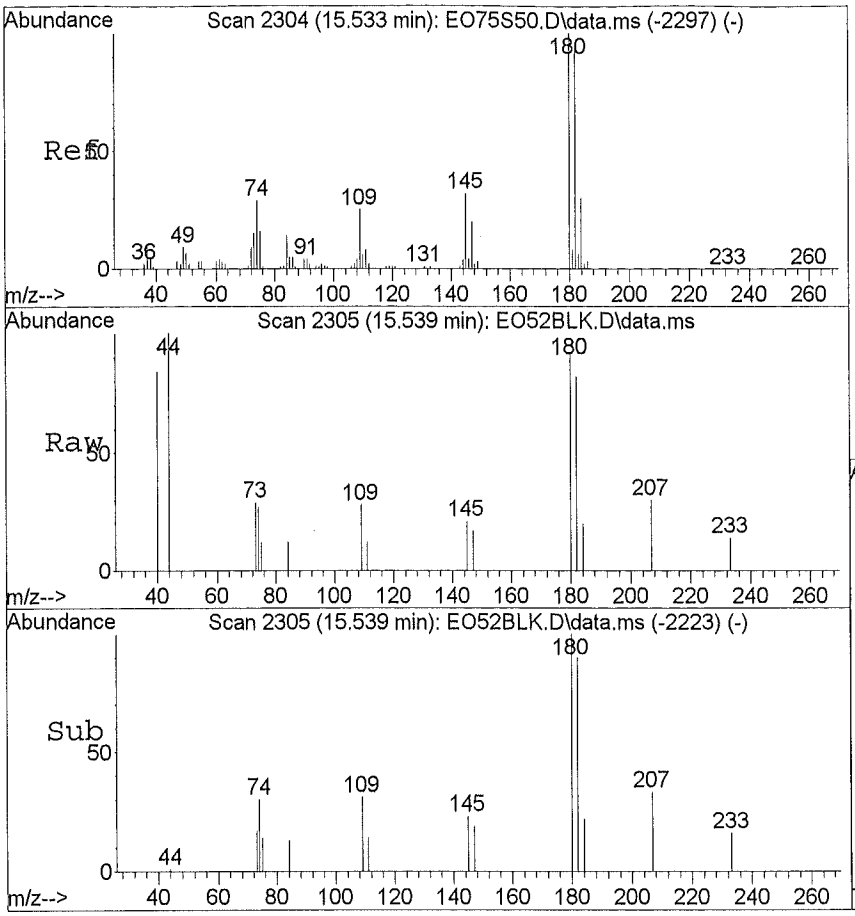


#69
1,2,4-Trichlorobenzene
Concen: 0.30 ug/Kg
RT: 15.00 min Scan# 2216
Delta R.T. -0.00 min
Lab File: EO52BLK.D
Acq: 05/26/2015 19:54

Tgt Ion:179.95 Resp: 3946

Ion	Ratio	Lower	Upper
180	100		
182	103.1	76.6	114.8
145	17.1	22.6	34.0#
0	0.0	0.0	0.0

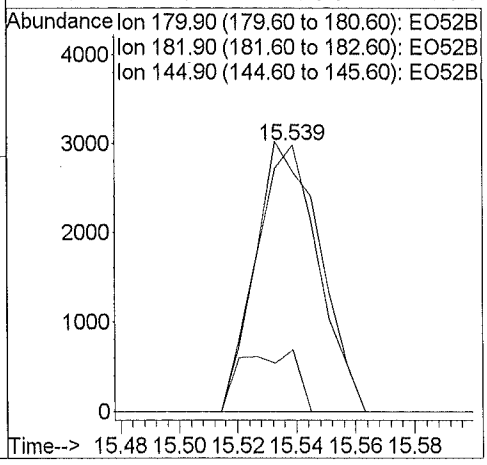




#70
1,2,3-Trichlorobenzene
Concen: 0.38 ug/Kg
RT: 15.54 min Scan# 2305
Delta R.T. 0.01 min
Lab File: EO52BLK.D
Acq: 05/26/2015 19:54

Tgt Ion:179.9 Resp: 4332

Ion	Ratio	Lower	Upper
180	100		
182	105.7	75.7	113.5
145	20.6	23.9	35.9#
0	0.0	0.0	0.0



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450627

Sample wt/vol: 5.00 (g/mL) g Lab File ID: E093BLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.64	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	0.32	J
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450627

Sample wt/vol: 5.00 (g/mL) g Lab File ID: E093BLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	0.16	J
106-46-7	1,4-Dichlorobenzene	0.23	J
95-50-1	1,2-Dichlorobenzene	0.22	J
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.35	J
87-61-6	1,2,3-Trichlorobenzene	0.46	J

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKS5

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450627

Sample wt/vol: 5.00 (g/mL) g Lab File ID: E093BLK

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

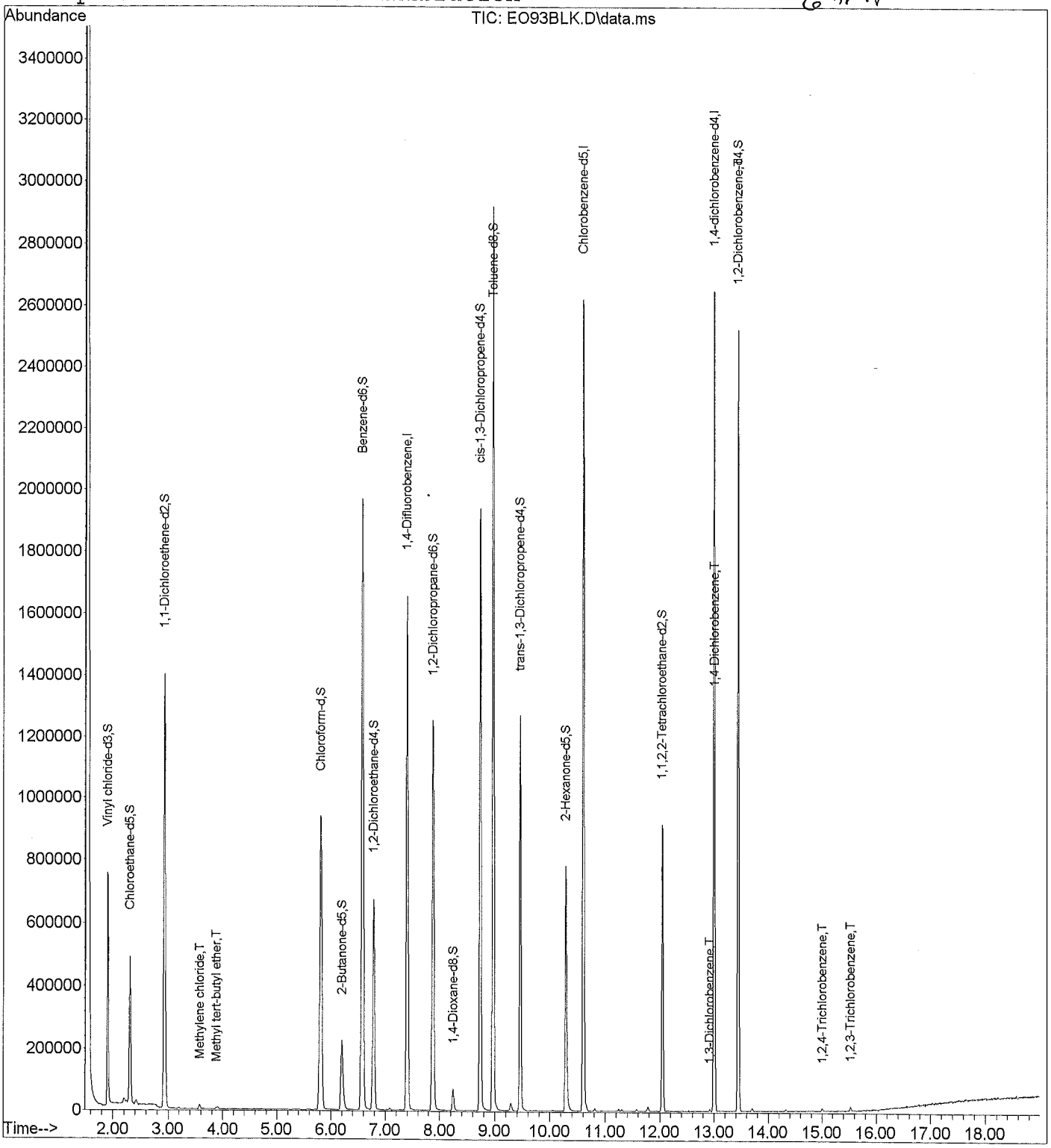
Quantitation Report

Data File : C:\msdchem\1\Data by...27MAY15E.PM\EO93BLK.D Vial: 14
Acq Time : 05/27/2015 19:36 Operator: CQC
Sample : 450627 VBLKS5 Inst : 5975-E
Misc : 2.5 uL of 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:52:59 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6/29/15



Quantitation Report

Data File : C:\msdchem\1\Data by...27MAY15E.PM\EO93BLK.D Vial: 14
Acq Time : 05/27/2015 19:36 Operator: CQC
Sample : 450627 VBLKS5 Inst : 5975-E
Misc : 2.5 uL of 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:52:59 2015 Results File: ECLPSB2.RES

Quant Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed May 27 09:30:51 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Area%
1) 1,4-Difluorobenzene	7.41	114	1434710	50.0000	ug/Kg	79.56
30) Chlorobenzene-d5	10.61	117	1377314	50.0000	ug/Kg	83.43
62) 1,4-dichlorobenzene-d4	13.00	152	660322	50.0000	ug/Kg	75.89
System Monitoring Compounds						%Recovery
5) Vinyl chloride-d3	1.91	65	607900	54.4405	ug/Kg	108.88%
8) Chloroethane-d5	2.31	69	456758	53.6626	ug/Kg	107.33%
11) 1,1-Dichloroethene-d2	2.93	63	1052316	41.5327	ug/Kg	83.07%
22) 2-Butanone-d5	6.20	46	364956	107.6655	ug/Kg	107.67%
25) Chloroform-d	5.81	84	1028841	51.5686	ug/Kg	103.14%
27) 1,2-Dichloroethane-d4	6.78	65	559586	52.9699	ug/Kg	105.94%
29) 1,4-Dioxane-d8	8.24	96	48803	933.0129	ug/Kg	93.30%
35) Benzene-d6	6.58	84	2102275	50.7388	ug/Kg	101.48%
39) 1,2-Dichloropropane-d6	7.88	67	601219	49.6198	ug/Kg	99.24%
42) cis-1,3-Dichloropropene-d4	8.74	79	1066382	49.2276	ug/Kg	98.46%
44) trans-1,3-Dichloropropene-	9.46	79	652293	47.5251	ug/Kg	95.05%
49) Toluene-d8	8.97	98	1949228	51.1122	ug/Kg	102.22%
52) 2-Hexanone-d5	10.28	63	221281	98.8372	ug/Kg	98.84%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	449291	45.8816	ug/Kg	91.76%
67) 1,2-Dichlorobenzene-d4	13.44	152	641695	52.1170	ug/Kg	104.23%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected		
3) Chloromethane	0.00	50		Not Detected		
4) Vinyl chloride	0.00	62		Not Detected		
6) Bromomethane	0.00	94		Not Detected		
7) Chloroethane	0.00	64		Not Detected		
9) Trichlorofluoromethane	0.00	101		Not Detected		
10) 1,1-Dichloroethene	0.00	96		Not Detected		
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected		
13) Acetone	0.00	43		Not Detected		
14) Carbon disulfide	0.00	76		Not Detected		
15) Methyl acetate	0.00	43		Not Detected		
16) Methylene chloride	3.57	84	6304	0.6369	ug/Kg	95
17) trans-1,2-Dichloroethene	0.00	96		Not Detected		
18) Methyl tert-butyl ether	3.88	73	6879	0.3222	ug/Kgm	38
19) 1,1-Dichloroethane	0.00	63		Not Detected		
20) cis-1,2-Dichloroethene	0.00	96		Not Detected		
21) 2-Butanone	0.00	43		Not Detected		
23) Bromochloromethane	0.00	128		Not Detected		
24) Chloroform	0.00	83		Not Detected		

6.9.15

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\Data by...27MAY15E.PM\EO93BLK.D Vial: 14
Acq Time : 05/27/2015 19:36 Operator: CQC
Sample : 450627 VBLKS5 Inst : 5975-E
Misc : 2.5 uL of 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

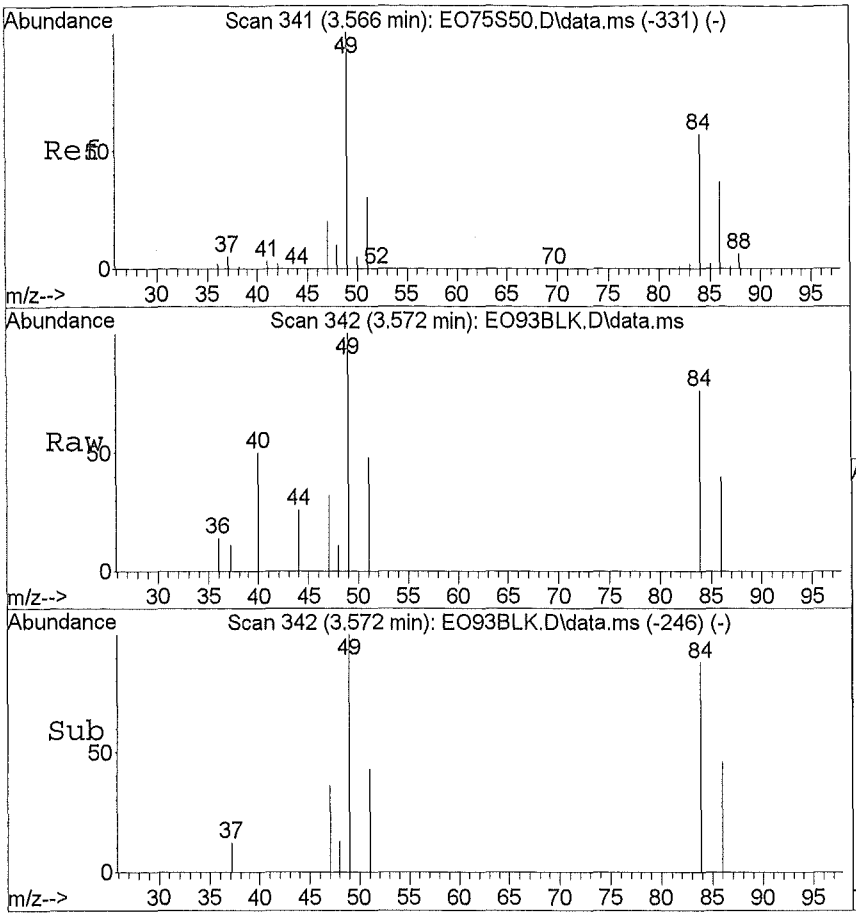
Quant Time: Jun 09 22:52:59 2015 Results File: ECLPSB2.RES

Quant Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Wed May 27 09:30:51 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	130		Not Detected	
37)	Methylcyclohexane	0.00	83		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	12.93	146	3187	0.1623 ug/Kg#	89
65)	1,4-Dichlorobenzene	13.02	146	4812	0.2331 ug/Kg#	1
66)	1,2-Dichlorobenzene	13.45	146	3890	0.2159 ug/Kg#	1
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	15.00	180	4088	0.3455 ug/Kg	94
70)	1,2,3-Trichlorobenzene	15.54	180	4684	0.4566 ug/Kg	99

(#) = qualifier out of range (m) = manual integration

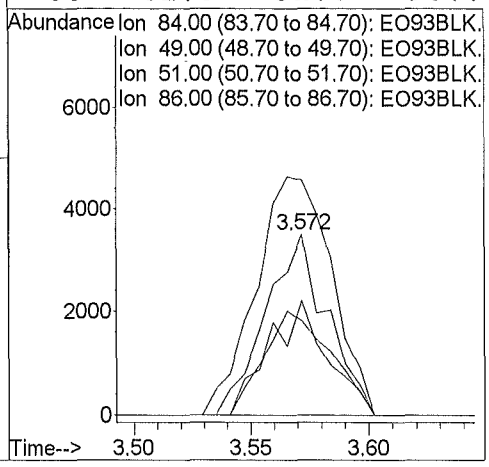
00281

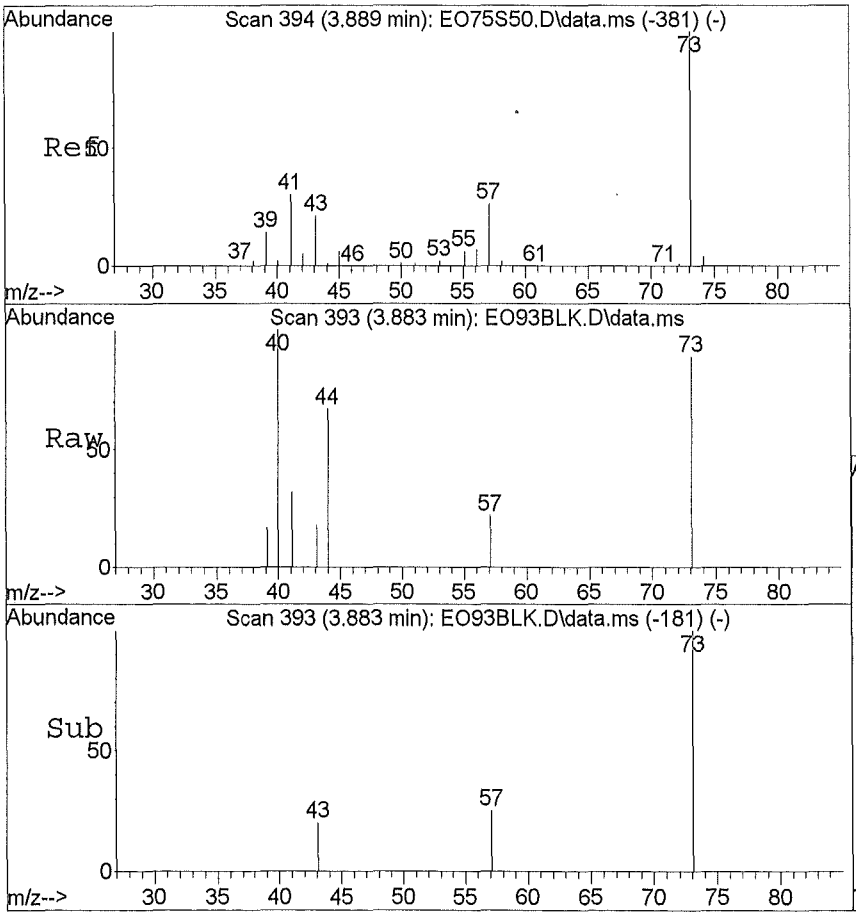


#16
Methylene chloride
Concen: 0.64 ug/Kg
RT: 3.57 min Scan# 342
Delta R.T. -0.00 min
Lab File: EO93BLK.D
Acq: 05/27/2015 19:36

Tgt Ion:84 Resp: 6304

Ion	Ratio	Lower	Upper
84	100		
49	163.6	84.4	253.2
51	60.5	25.7	77.0
86	62.3	31.6	95.0

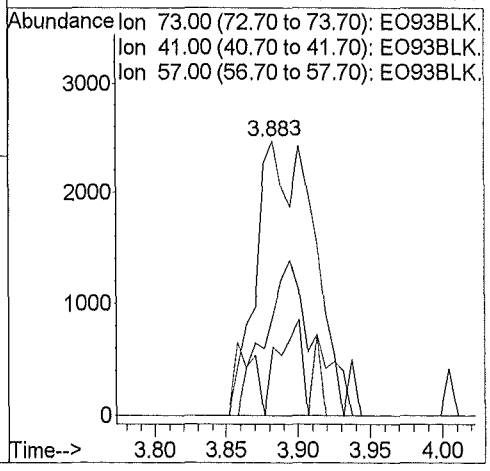


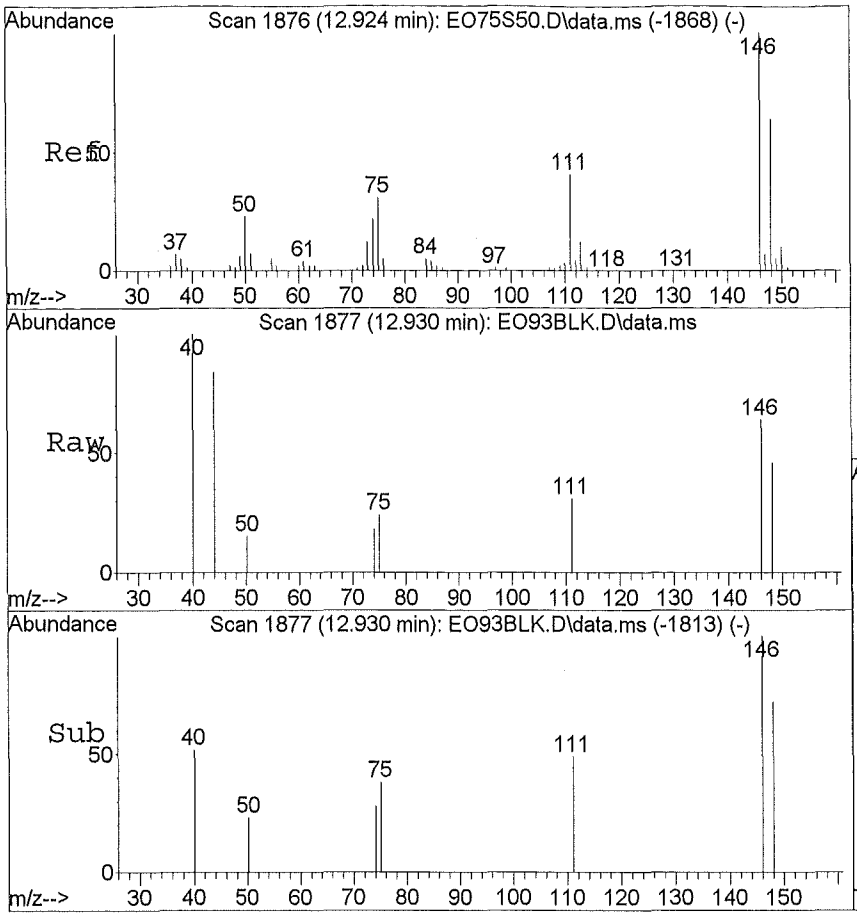


#18
Methyl tert-butyl ether
Concen: 0.32 ug/Kg m
RT: 3.88 min Scan# 393
Delta R.T. -0.01 min
Lab File: EO93BLK.D
Acq: 05/27/2015 19:36

Tgt Ion:73 Resp: 6879

Ion	Ratio	Lower	Upper
73	100		
41	50.8	14.5	43.5#
57	18.2	13.5	40.4
0	0.0	0.0	0.0

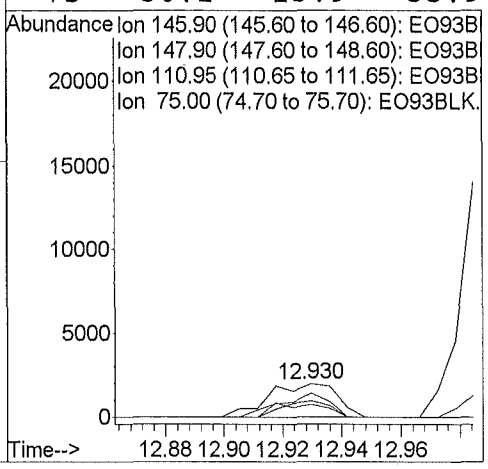


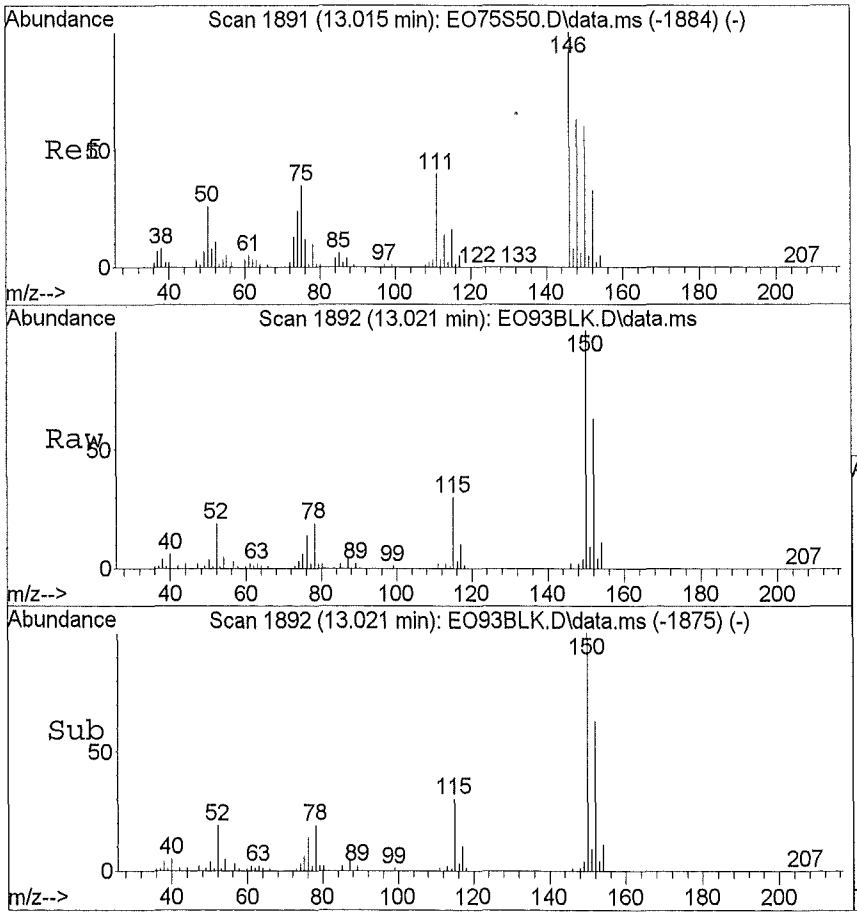


#64
1,3-Dichlorobenzene
Concen: 0.16 ug/Kg
RT: 12.93 min Scan# 1877
Delta R.T. 0.01 min
Lab File: EO93BLK.D
Acq: 05/27/2015 19:36

Tgt Ion:145.9 Resp: 3187

Ion	Ratio	Lower	Upper
146	100		
148	50.7	51.0	76.6#
111	33.3	31.8	47.8
75	30.2	23.9	35.9

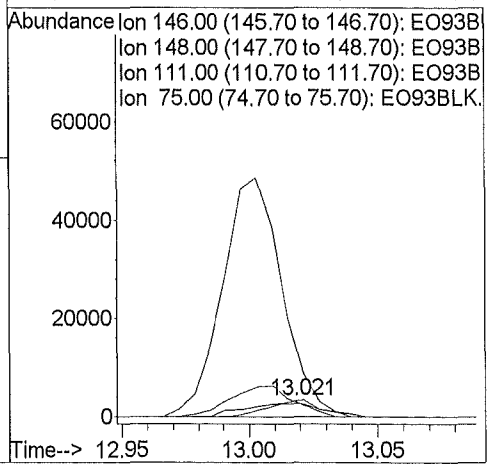


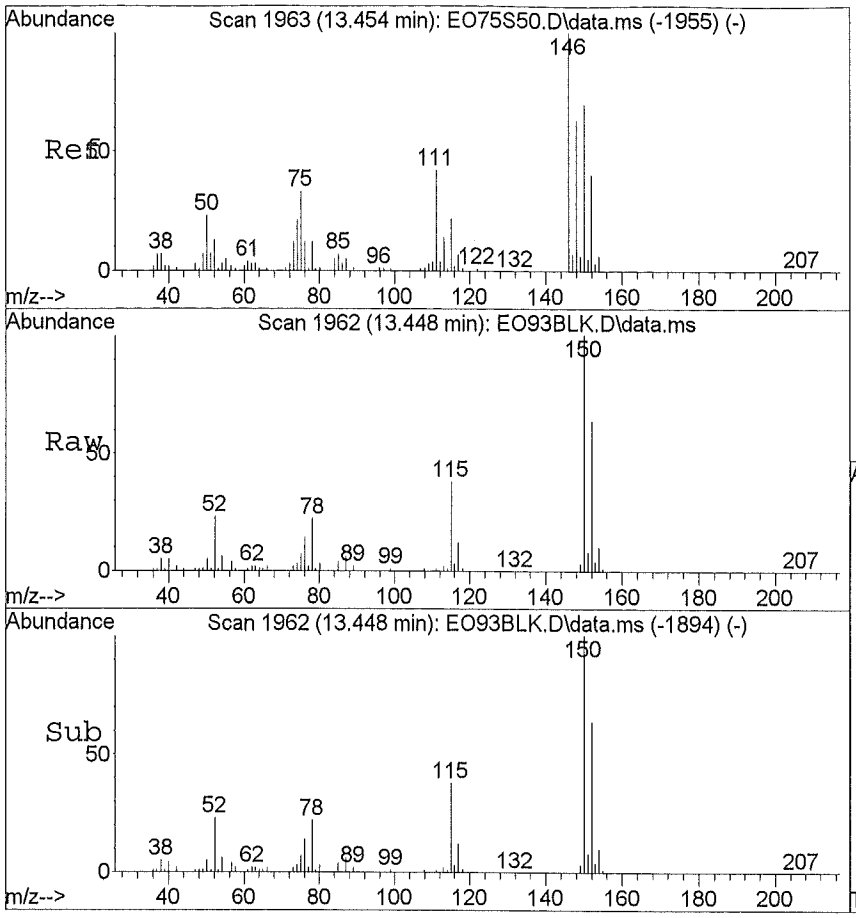


#65
1,4-Dichlorobenzene
Concen: 0.23 ug/Kg
RT: 13.02 min Scan# 1892
Delta R.T. -0.00 min
Lab File: EO93BLK.D
Acq: 05/27/2015 19:36

Tgt Ion:146 Resp: 4812

Ion	Ratio	Lower	Upper
146	100		
148	114.6	32.1	96.5#
111	219.8	19.7	59.1#
75	1640.8	19.6	58.7#

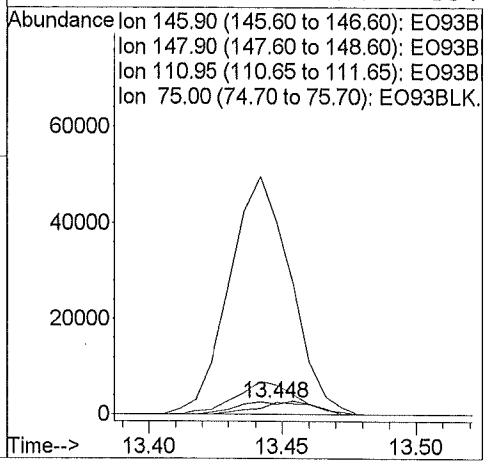


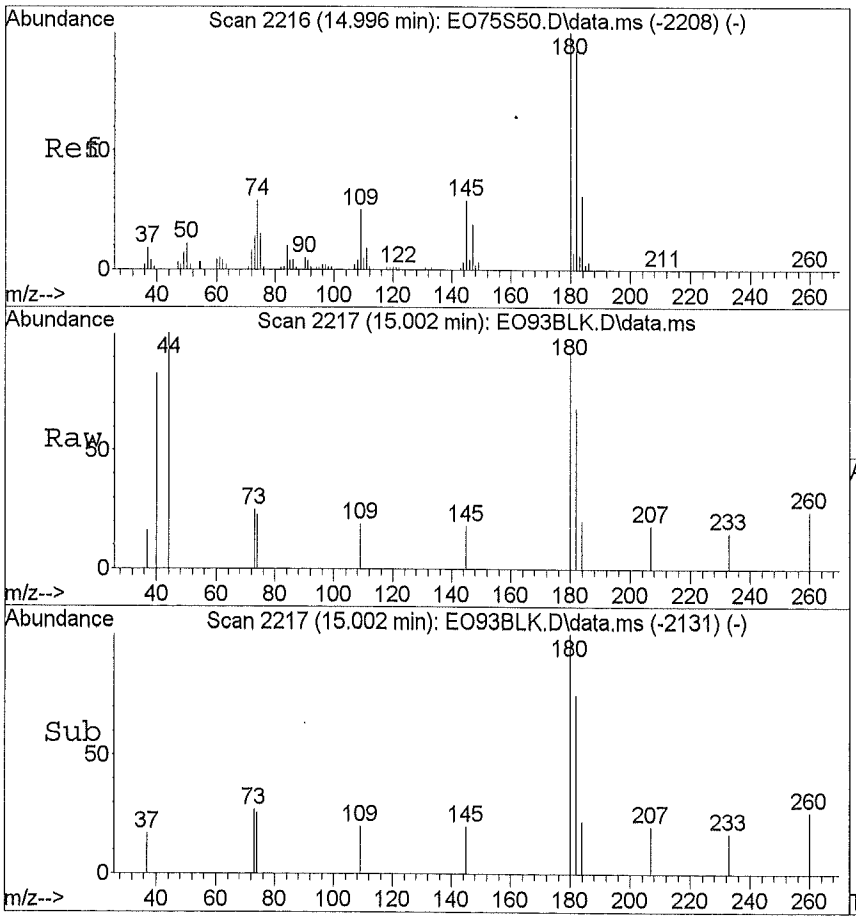


#66
1,2-Dichlorobenzene
Concen: 0.22 ug/Kg
RT: 13.45 min Scan# 1962
Delta R.T. -0.01 min
Lab File: EO93BLK.D
Acq: 05/27/2015 19:36

Tgt Ion:145.9 Resp: 3890

Ion	Ratio	Lower	Upper
146	100		
148	134.2	51.3	76.9#
111	276.4	33.9	50.9#
75	2042.7	30.2	45.4#

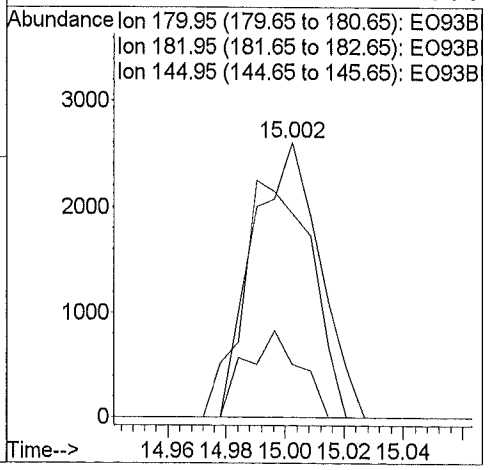


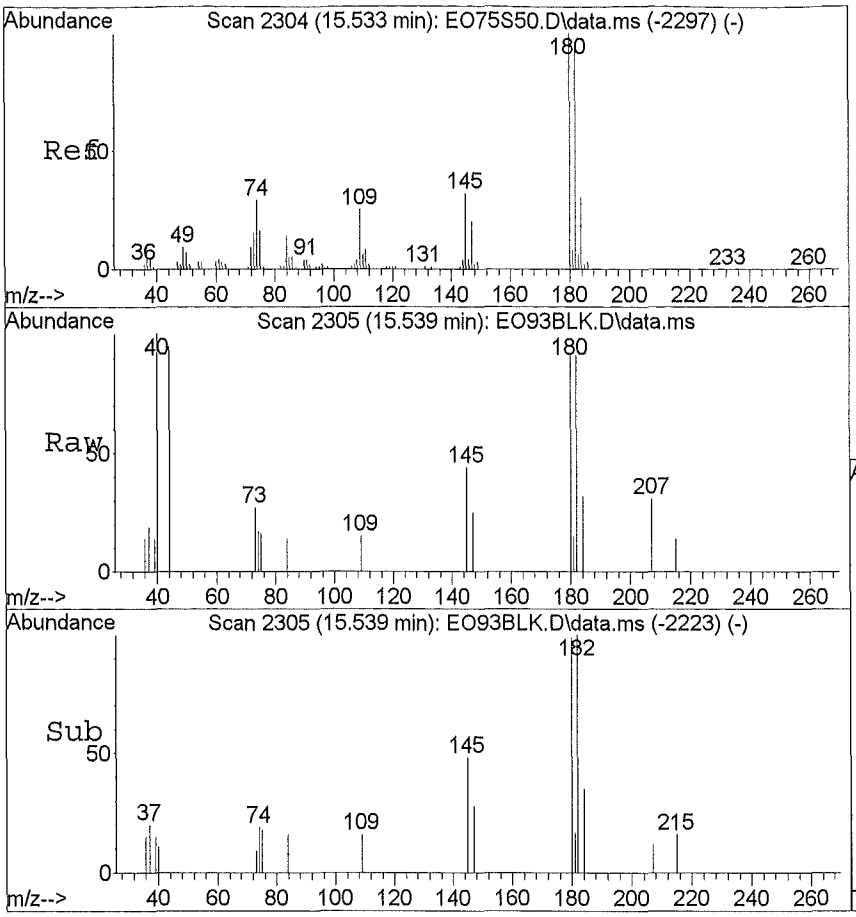


#69
1,2,4-Trichlorobenzene
Concen: 0.35 ug/Kg
RT: 15.00 min Scan# 2217
Delta R.T. 0.01 min
Lab File: EO93BLK.D
Acq: 05/27/2015 19:36

Tgt Ion:179.95 Resp: 4088

Ion	Ratio	Lower	Upper
180	100		
182	89.3	76.6	114.8
145	25.7	22.6	34.0
0	0.0	0.0	0.0

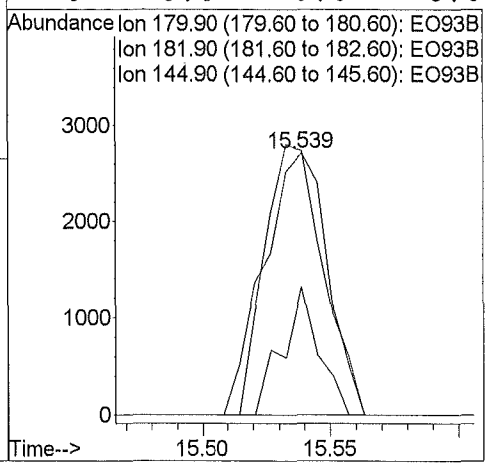




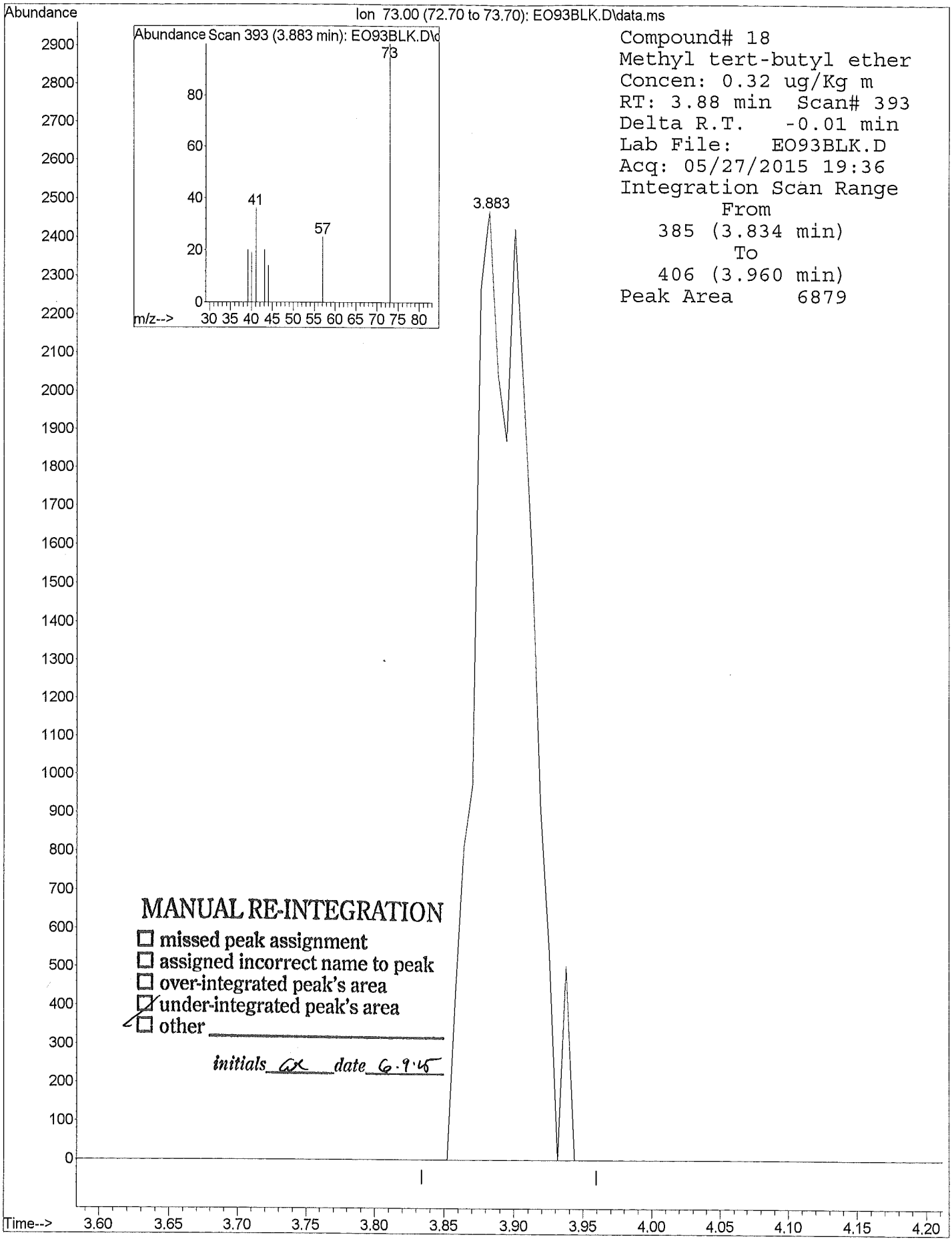
#70
1,2,3-Trichlorobenzene
Concen: 0.46 ug/Kg
RT: 15.54 min Scan# 2305
Delta R.T. 0.01 min
Lab File: EO93BLK.D
Acq: 05/27/2015 19:36

Tgt Ion:179.9 Resp: 4684

Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.7	113.5
145	28.1	23.9	35.9
0	0.0	0.0	0.0



M A N U A L I N T E G R A T I O N FOR Methyl tert-butyl ether



5975-E ECLPSB2.M 450627 VBLKS5 2.5 uL of 28016, 28017

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450628

Sample wt/vol: 5.00 (g/mL) g Lab File ID: EP01HBLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	0.39	J
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	1.8	J
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	0.64	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450628

Sample wt/vol: 5.00 (g/mL) g Lab File ID: EP01HBLK

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 450628

Sample wt/vol: 5.00 (g/mL) g Lab File ID: EP01HBLK

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/27/2015

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

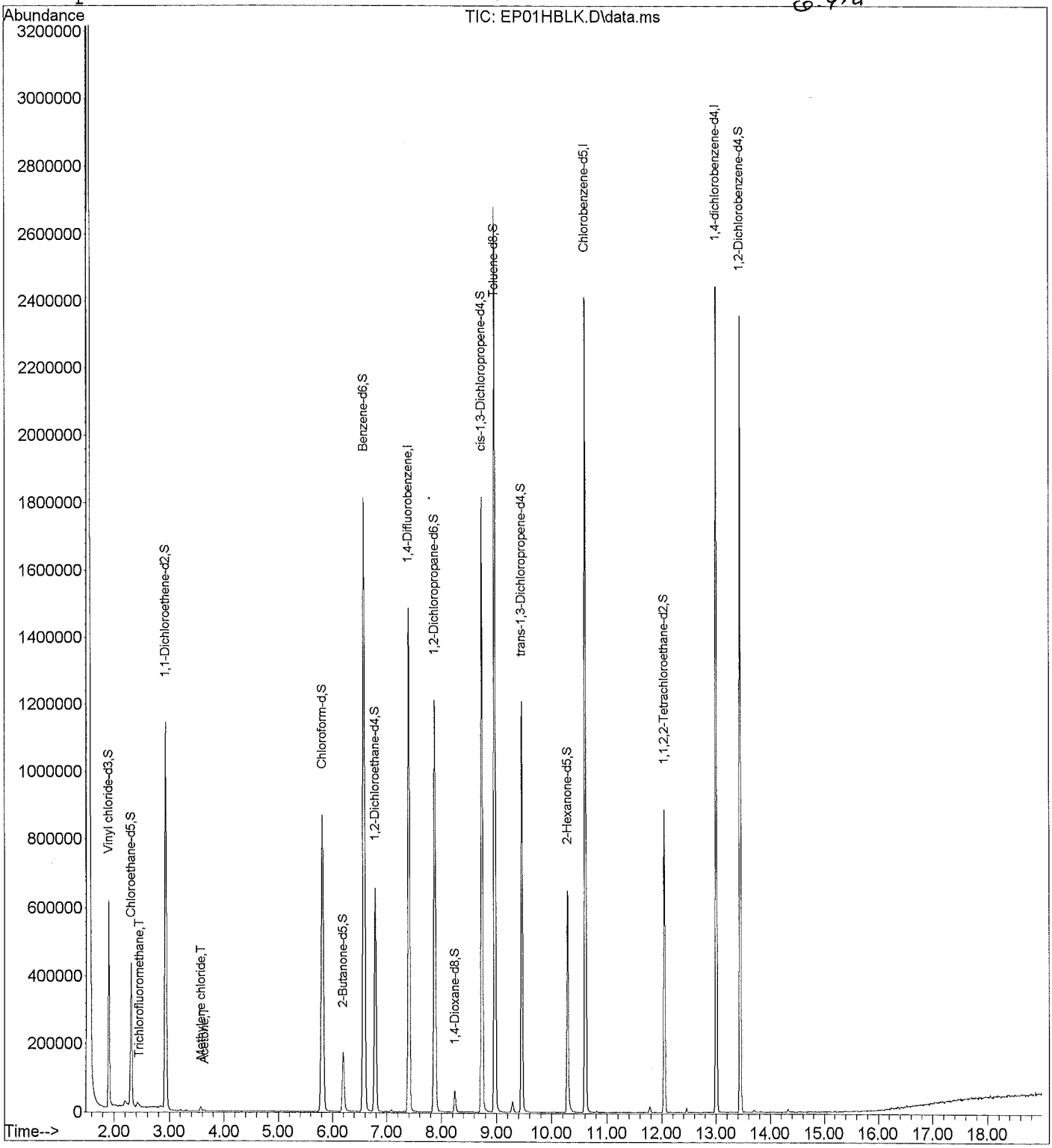
Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EP01HBLK.D Vial: 22
Acq Time : 05/27/2015 22:54 Operator: CQC
Sample : 450628 VHBLKS1 Inst : 5975-E
Misc : 2.5 uL of 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:40:57 2015 Results File: ECLPSB2.RES

Method : C:\msdchem\1\methods\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Fri May 29 12:18:23 2015
Response via : Initial Calibration

6.9.15



Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EP01HBLK.D Vial: 22
Acq Time : 05/27/2015 22:54 Operator: CQC
Sample : 450628 VHBLKS1 Inst : 5975-E
Misc : 2.5 uL of 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

Quant Time: Jun 09 22:40:57 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) 1,4-Difluorobenzene	7.40	114	1285182	50.0000 ug/Kg	71.27
30) Chlorobenzene-d5	10.61	117	1270563	50.0000 ug/Kg	76.96
62) 1,4-dichlorobenzene-d4	13.00	152	605653	50.0000 ug/Kg	69.60
System Monitoring Compounds					%Recovery
5) Vinyl chloride-d3	1.91	65	504632	50.4503 ug/Kg	100.90%
8) Chloroethane-d5	2.31	69	398343	52.2447 ug/Kg	104.49%
11) 1,1-Dichloroethene-d2	2.93	63	871041	38.3780 ug/Kg	76.76%
22) 2-Butanone-d5	6.20	46	305699	100.6768 ug/Kg	100.68%
25) Chloroform-d	5.81	84	963647	53.9206 ug/Kg	107.84%
27) 1,2-Dichloroethane-d4	6.78	65	546503	57.7503 ug/Kg	115.50%
29) 1,4-Dioxane-d8	8.24	96	45420	969.3659 ug/Kg	96.94%
35) Benzene-d6	6.58	84	1912753	50.0433 ug/Kg	100.09%
39) 1,2-Dichloropropane-d6	7.88	67	574384	51.3880 ug/Kg	102.78%
42) cis-1,3-Dichloropropene-d4	8.74	79	1003660	50.2249 ug/Kg	100.45%
44) trans-1,3-Dichloropropene-	9.46	79	616864	48.7199 ug/Kg	97.44%
49) Toluene-d8	8.97	98	1765730	50.1907 ug/Kg	100.38%
52) 2-Hexanone-d5	10.28	63	195436	94.6275 ug/Kg	94.63%
61) 1,1,2,2-Tetrachloroethane-	12.05	84	438986	48.5957 ug/Kg	97.19%
67) 1,2-Dichlorobenzene-d4	13.44	152	601208	53.2363 ug/Kg	106.47%
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		Not Detected	
3) Chloromethane	0.00	50		Not Detected	
4) Vinyl chloride	0.00	62		Not Detected	
6) Bromomethane	0.00	94		Not Detected	
7) Chloroethane	0.00	64		Not Detected	
9) Trichlorofluoromethane	2.46	101	4949	0.3864 ug/Kg	87
10) 1,1-Dichloroethene	0.00	96		Not Detected	
12) 1,1,2-Trichloro-1,2,2-trif	0.00	101		Not Detected	
13) Acetone	3.63	43	5177	1.7549 ug/Kg#	67
14) Carbon disulfide	0.00	76		Not Detected	
15) Methyl acetate	0.00	43		Not Detected	
16) Methylene chloride	3.57	84	5631	0.6351 ug/Kg	94
17) trans-1,2-Dichloroethene	0.00	96		Not Detected	
18) Methyl tert-butyl ether	0.00	73		Not Detected	
19) 1,1-Dichloroethane	0.00	63		Not Detected	
20) cis-1,2-Dichloroethene	0.00	96		Not Detected	
21) 2-Butanone	0.00	43		Not Detected	
23) Bromochloromethane	0.00	128		Not Detected	
24) Chloroform	0.00	83		Not Detected	

(#) = qualifier out of range (m) = manual integration

00231

Quantitation Report

Data File : C:\msdchem\1\Data by...7MAY15E.PM\EP01HBLK.D Vial: 22
Acq Time : 05/27/2015 22:54 Operator: CQC
Sample : 450628 VHBLKS1 Inst : 5975-E
Misc : 2.5 uL of 28016, 28017 Multiplr: 1.00
MS Integration Params: rteint.p Column ID: Rtx-VMS

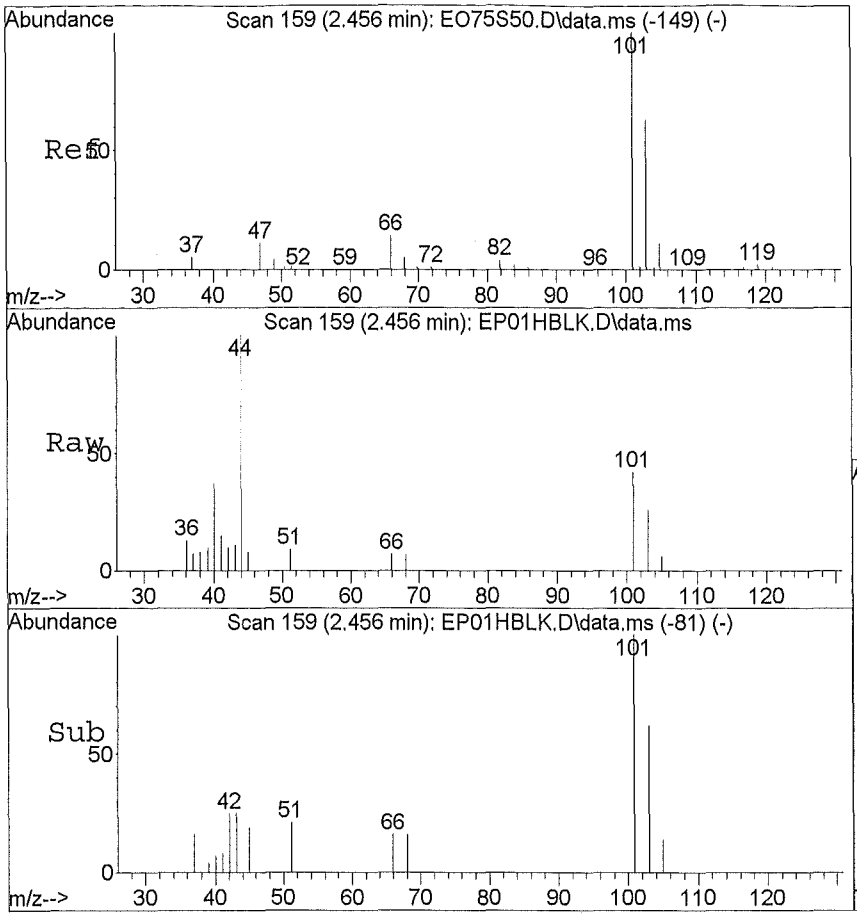
Quant Time: Jun 09 22:40:57 2015 Results File: ECLPSB2.RES

Quant Method : C:\MSDCHEM\1\METHODS\ECLPSB2.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Tue May 19 22:39:33 2015
Response via : Initial Calibration
DataAcq Meth : ECLPSB2.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26)	1,2-Dichloroethane	0.00	62		Not Detected	
28)	1,4-Dioxane	0.00	88		Not Detected	
31)	1,1,1-Trichloroethane	0.00	97		Not Detected	
32)	Cyclohexane	0.00	56		Not Detected	
33)	Carbon tetrachloride	0.00	117		Not Detected	
34)	Benzene	0.00	78		Not Detected	
36)	Trichloroethene	0.00	130		Not Detected	
37)	Methylcyclohexane	0.00	83		Not Detected	
38)	1,2-Dichloropropane	0.00	63		Not Detected	
40)	Bromodichloromethane	0.00	83		Not Detected	
41)	cis-1,3-Dichloropropene	0.00	75		Not Detected	
43)	trans-1,3-Dichloropropene	0.00	75		Not Detected	
45)	1,1,2-Trichloroethane	0.00	97		Not Detected	
46)	Dibromochloromethane	0.00	129		Not Detected	
47)	4-Methyl-2-pentanone	0.00	43		Not Detected	
48)	Toluene	0.00	91		Not Detected	
50)	Tetrachloroethene	0.00	164		Not Detected	
51)	2-Hexanone	0.00	43		Not Detected	
53)	1,2-Dibromoethane	0.00	107		Not Detected	
54)	Chlorobenzene	0.00	112		Not Detected	
55)	Ethylbenzene	0.00	91		Not Detected	
56)	m,p-Xylene	0.00	106		Not Detected	
57)	o-Xylene	0.00	106		Not Detected	
58)	Styrene	0.00	104		Not Detected	
59)	Isopropylbenzene	0.00	105		Not Detected	
60)	1,1,2,2-Tetrachloroethane	0.00	83		Not Detected	
63)	Bromoform	0.00	173		Not Detected	
64)	1,3-Dichlorobenzene	0.00	146		Not Detected	
65)	1,4-Dichlorobenzene	0.00	146		Not Detected	
66)	1,2-Dichlorobenzene	0.00	146		Not Detected	
68)	1,2-Dibromo-3-chloropropan	0.00	75		Not Detected	
69)	1,2,4-Trichlorobenzene	0.00	180		Not Detected	
70)	1,2,3-Trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

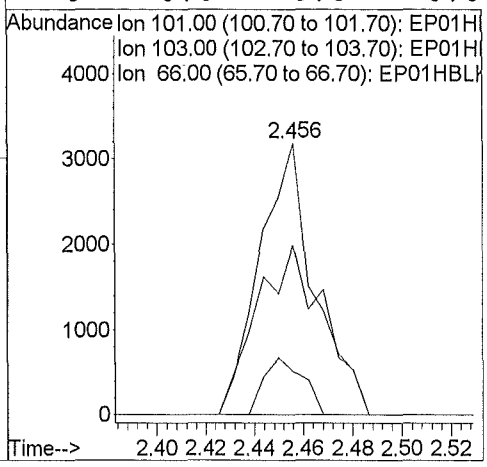
00232

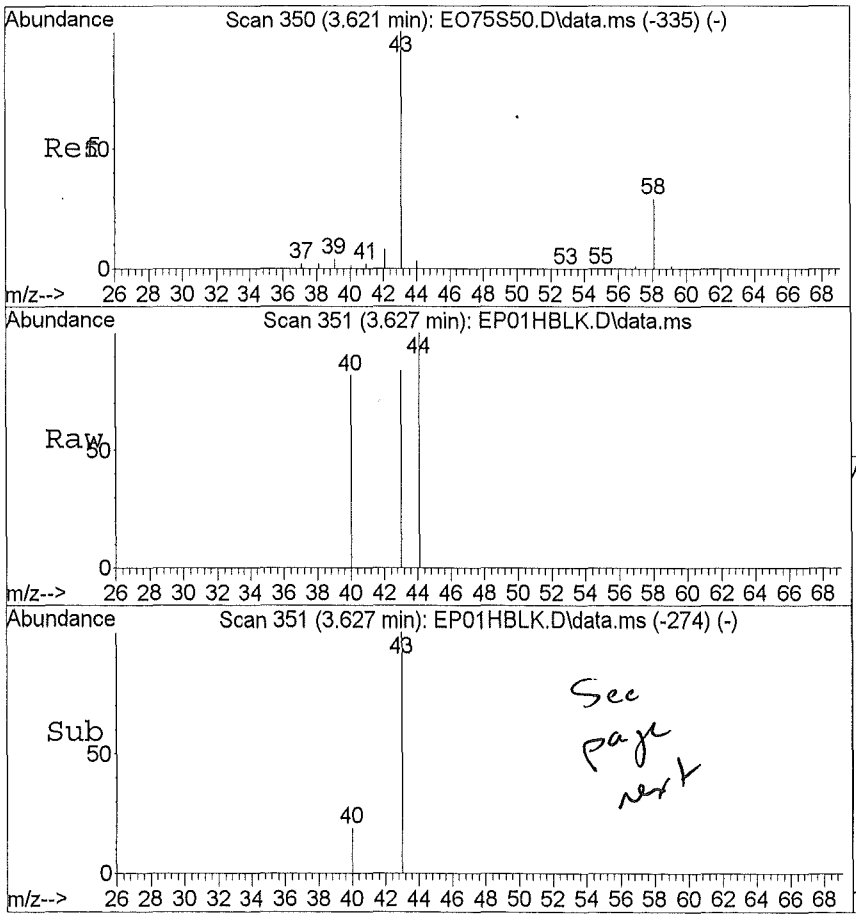


#9
Trichlorofluoromethane
Concen: 0.39 ug/Kg
RT: 2.46 min Scan# 159
Delta R.T. -0.00 min
Lab File: EP01HBLK.D
Acq: 05/27/2015 22:54

Tgt Ion:101 Resp: 4949

Ion	Ratio	Lower	Upper
101	100		
103	76.9	32.5	97.4
66	15.2	7.3	22.0
0	0.0	0.0	0.0

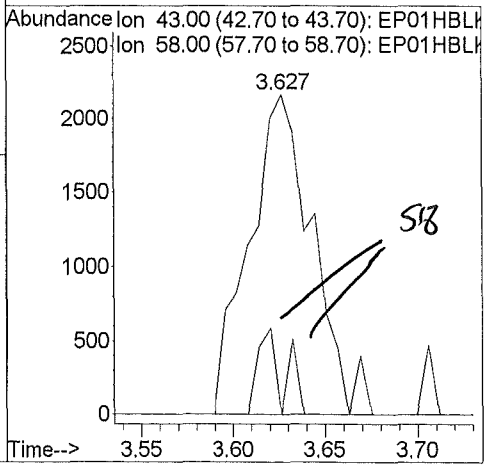




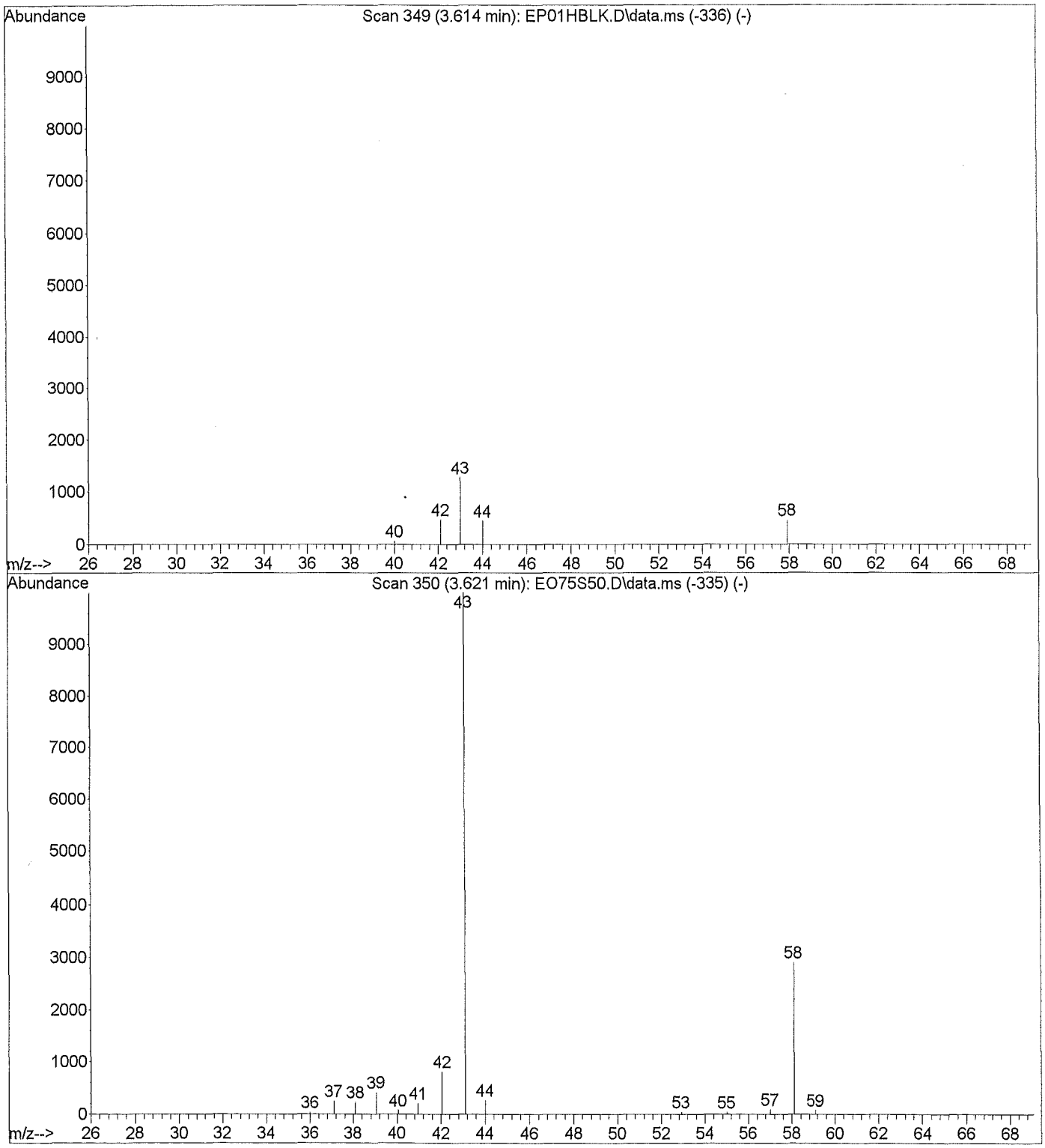
#13
Acetone
Concen: 1.75 ug/Kg
RT: 3.63 min Scan# 351
Delta R.T. 0.01 min
Lab File: EP01HBLK.D
Acq: 05/27/2015 22:54

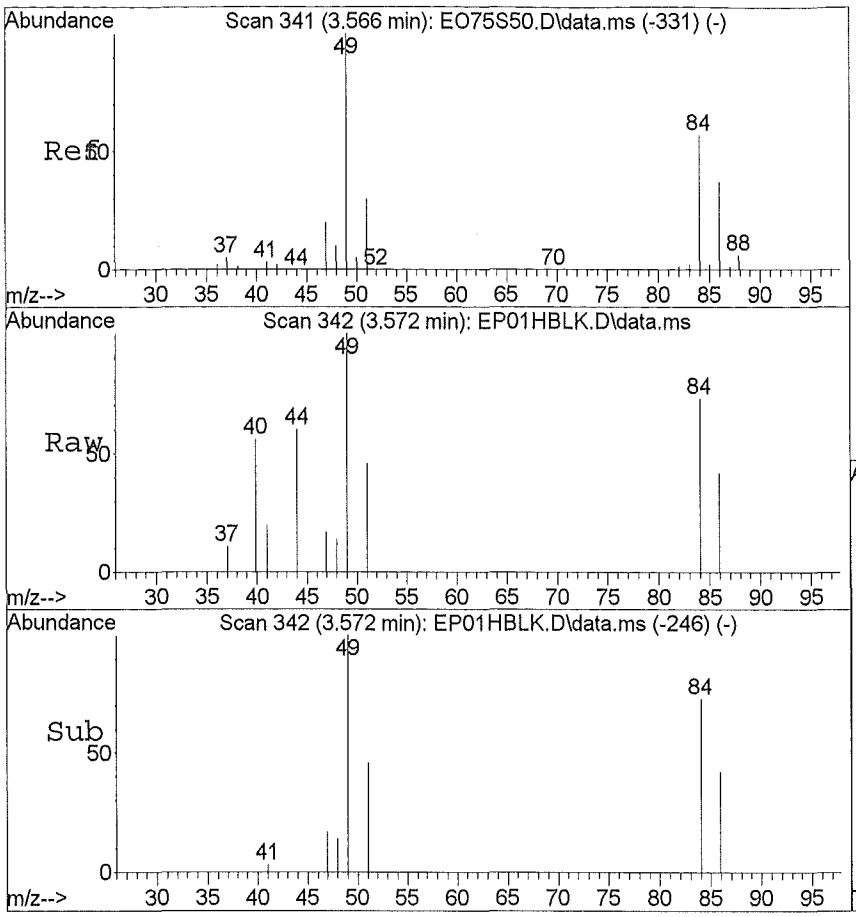
Tgt Ion:43 Resp: 5177

Ion	Ratio	Lower	Upper
43	100		
58	11.0	14.2	42.8#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



File : C:\msdchem\1\Data by Year\2015\MAY15E\27MAY15E.PM\EP01HBLK.D
Operator : CQC
Acquired : 27 May 2015 10:54 pm using AcqMethod ECLPSB2.M
Instrument : 5975-E
Sample Name: 450628 VHBLKS1
Misc Info : 2.5 uL of 28016, 28017
Vial Number: 22

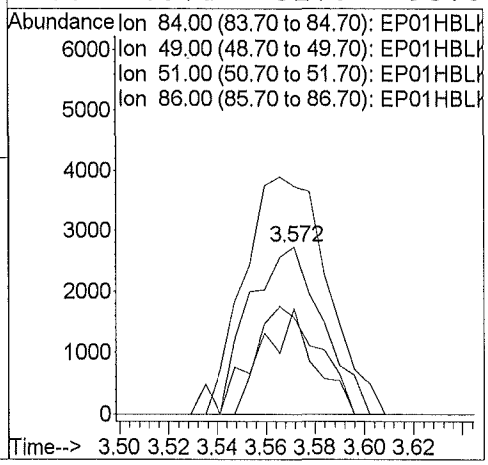




#16
Methylene chloride
Concen: 0.64 ug/Kg
RT: 3.57 min Scan# 342
Delta R.T. -0.00 min
Lab File: EP01HBLK.D
Acq: 05/27/2015 22:54

Tgt Ion:84 Resp: 5631

Ion	Ratio	Lower	Upper
84	100		
49	162.3	84.4	253.2
51	51.4	25.7	77.0
86	53.4	31.6	95.0



2J - FORM II SV-3

SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	F9L58	67	54	65	52	65	68	69	14
02	F9L59	81	60	78	62	74	81	86	30
03	F9L60	70	50	65	45	63	69	72	11
04	F9L61	71	54	68	67	65	70	71	15
05	F9L62	75	58	72	61	73	76	78	14
06	F9L63	73	54	70	58	65	69	74	25
07	F9L64	62	47	60	55	58	64	66	24
08	F9L65	70	55	67	37	67	72	69	11
09	F9L66	67	52	64	44	63	71	67	9
10	F9L67	52	44	53	43	52	55	56	15
11	F9L68	52	44	53	42	53	54	54	10
12	F9L69	45	39	47	41	47	38	44	11
13	F9L70	52	41	51	51	51	48	54	9
14	F9L71	53	42	52	35	49	48	51	4
15	F9L72	70	58	68	46	70	45	64	1 *
16	F9L73	68	55	63	36	64	56	61	0 *
17	F9L75	77	63	73	43	77	55	69	4
18	F9L77	80	65	79	64	78	75	81	2
19	F9L78	76	64	72	39	77	80	74	9
20	F9L79	94	75	92	74	90	68	90	12
21	SBLK83	49	38	47	37	47	51	52	18
22									
23									
24									
25									
26									
27									
28									
29									
30									

	QC LIMITS
SDMC1 (PHL) = Phenol-d5	(17-103)
SDMC2 (BCE) = Bis(2-chloroethyl)ether-d8	(12-98)
SDMC3 (2CP) = 2-Chlorophenol-d4	(13-101)
SDMC4 (4MP) = 4-Methylphenol-d8	(8-100)
SDMC5 (NBZ) = Nitrobenzene-d5	(16-103)
SDMC6 (2NP) = 2-Nitrophenol-d4	(16-104)
SDMC7 (DCP) = 2,4-Dichlorophenol-d3	(23-104)
SDMC8 (4CA) = 4-Chloroaniline-d4	(1-145)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

2K - FORM II SV-4

SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	F9L58	85	76	67	83	52	82	85	77	0
02	F9L59	107	93	88	101	66	102 D	103	99	0
03	F9L60	87	74	82	83	62	82	85	83	0
04	F9L61	80	72	73	76	56	78	80	79	0
05	F9L62	92	82	89	89	58	90	91	92	0
06	F9L63	92	79	71	87	50	87	88	82	0
07	F9L64	77	63	67	71	44	71	73	68	0
08	F9L65	84	71	74	79	47	76	79	72	0
09	F9L66	82	69	74	78	55	77	79	74	0
10	F9L67	72	63	50	68	21	69	69	65	0
11	F9L68	65	57	52	62	16	60	62	59	0
12	F9L69	55	51	40	54	8	53	53	52	0
13	F9L70	66	60	42	63	10	65	63	62	0
14	F9L71	64	56	53	61	16	60	62	60	0
15	F9L72	84	73	62	81	6	75	80	75	1
16	F9L73	83	66	67	78	12	75	79	77	1
17	F9L75	92	81	66	89	9	84	87	81	0
18	F9L77	96	83	83	91	28	91	94	92	0
19	F9L78	94	81	83	88	49	84	86	76	0
20	F9L79	108	96	86	105	9	104 *	104	100	1
21	SBLK83	71	60	65	68	66	73	79	81	0
22										
23										
24										
25										
26										
27										
28										
29										
30										

	QC LIMITS
SDMC9 (DMP) = Dimethylphthalate-d6	(43-111)
SDMC10 (ACY) = Acenaphthylene-d8	(20-97)
SDMC11 (4NP) = 4-Nitrophenol-d4	(16-166)
SDMC12 (FLR) = Fluorene-d10	(40-108)
SDMC13 (NMP) = 4,6-Dinitro-2-methylphenol-d2	(1-121)
SDMC14 (ANC) = Anthracene-d10	(22-98)
SDMC15 (PYR) = Pyrene-d10	(51-120)
SDMC16 (BAP) = Benzo(a)pyrene-d12	(43-111)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: GBC02BLK Lab Sample ID: 448483

Instrument ID: 5975-G Date Extracted: 05/28/2015

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/02/2015

Level: (LOW/MED) LOW Time Analyzed: 12:10

Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9L58	1514293001	GBC05F01	06/02/2015
02	F9L59	1514293002	GBC06F02	06/02/2015
03	F9L60	1514293003	GBC07F03	06/02/2015
04	F9L61	1514293004	GBC08F04	06/02/2015
05	F9L62	1514293005	GBC09F05	06/02/2015
06	F9L63	1514293006	GBC10F06	06/02/2015
07	F9L64	1514293007	GBC11F07	06/02/2015
08	F9L65	1514293008	GBC12F08	06/02/2015
09	F9L66	1514293009	GBC13F09	06/02/2015
10	F9L67	1514293012	GBC14F12	06/02/2015
11	F9L68	1514293013	GBC15F13	06/02/2015
12	F9L69	1514293014	GBC16F14	06/02/2015
13	F9L70	1514293015	GBC17F15	06/02/2015
14	F9L71	1514293016	GBC18F16	06/02/2015
15	F9L72	1514293017	GBC19F17	06/02/2015
16	F9L73	1514293018	GBC23F18	06/03/2015
17	F9L75	1514293019	GBC24F19	06/03/2015
18	F9L77	1514293020	GBC25F20	06/03/2015
19	F9L78	1514293021	GBC26F21	06/03/2015
20	F9L79	1514293022	GBC27F22	06/03/2015
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: DFTPPGX

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: GAX01S20 DFTPP Injection Date: 05/27/2015

Instrument ID: 5975-G DFTPP Injection Time: 15:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.5
68	Less than 2.0% of mass 69	0.8 (2.0) 1
69	Mass 69 relative abundance	38.4
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	51.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than mass 443	12.1
442	50.0 - 100% of mass 198	79.9
443	15.0 - 24.0% of mass 442	15.8 (19.8) 2

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020GX	SSTD020GX	GAX01S20	05/27/2015	15:49
02	SSTD005GX	SSTD005GX	GAX02S05	05/27/2015	16:21
03	SSTD010GX	SSTD010GX	GAX03S10	05/27/2015	16:54
04	SSTD040GX	SSTD040GX	GAX06S40	05/27/2015	18:30
05	SSTD080GX	SSTD080GX	GAX07S80	05/27/2015	19:02
06					
07					
08					
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5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: DFTPPGC

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: GBC01S20 DFTPP Injection Date: 06/02/2015

Instrument ID: 5975-G DFTPP Injection Time: 11:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.2
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	37.6
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	50.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	24.6
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than mass 443	13.0
442	50.0 - 100% of mass 198	83.3
443	15.0 - 24.0% of mass 442	16.4 (19.7) 2

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020GC	SSTD020GC	GBC01S20	06/02/2015	11:34
02	SBLK83	448483	GBC02BLK	06/02/2015	12:10
03	SSTD020C1	SSTD020C1	GBC04S20	06/02/2015	14:58
04	F9L58	1514293001	GBC05F01	06/02/2015	15:36
05	F9L59	1514293002	GBC06F02	06/02/2015	16:09
06	F9L60	1514293003	GBC07F03	06/02/2015	16:42
07	F9L61	1514293004	GBC08F04	06/02/2015	17:14
08	F9L62	1514293005	GBC09F05	06/02/2015	17:47
09	F9L63	1514293006	GBC10F06	06/02/2015	18:20
10	F9L64	1514293007	GBC11F07	06/02/2015	18:53
11	F9L65	1514293008	GBC12F08	06/02/2015	19:25
12	F9L66	1514293009	GBC13F09	06/02/2015	19:58
13	F9L67	1514293012	GBC14F12	06/02/2015	20:30
14	F9L68	1514293013	GBC15F13	06/02/2015	21:02
15	F9L69	1514293014	GBC16F14	06/02/2015	21:34
16	F9L70	1514293015	GBC17F15	06/02/2015	22:06
17	F9L71	1514293016	GBC18F16	06/02/2015	22:38
18	F9L72	1514293017	GBC19F17	06/02/2015	23:10
19	SSTD020C2	SSTD020C2	GBC21S20	06/03/2015	00:14
20	F9L73	1514293018	GBC23F18	06/03/2015	01:18
21	F9L75	1514293019	GBC24F19	06/03/2015	01:50

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: DFTPPGC

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: GBC01S20 DFTPP Injection Date: 06/02/2015

Instrument ID: 5975-G DFTPP Injection Time: 11:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.2
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	37.6
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	50.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	24.6
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than mass 443	13.0
442	50.0 - 100% of mass 198	83.3
443	15.0 - 24.0% of mass 442	16.4 (19.7) 2

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	F9L77	1514293020	GBC25F20	06/03/2015	02:23
02	F9L78	1514293021	GBC26F21	06/03/2015	02:55
03	F9L79	1514293022	GBC27F22	06/03/2015	03:28
04	SSTD020C3	SSTD020C3	GBC28S20	06/03/2015	04:00
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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19					
20					
21					

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GC Date Analyzed: 06/02/2015

Lab File ID (Standard): GBC01S20 Time Analyzed: 11:34

Instrument ID: 5975-G

	IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD		325019		4.96		1226959		6.37		708728		9.03	
	UPPER LIMIT		650038		5.46		2453918		6.87		1417456		9.53	
	LOWER LIMIT		162510		4.46		613480		5.87		354364		8.53	
	EPA SAMPLE NO.													
01	SBLK83		325023		4.96		1208964		6.37		697110		9.02	
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 = 200% 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 contract required QC limits with an asterisk.

8D - FORM VIII SV-2
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

EPA Sample No.(SSTD020##): SSTD020GC Date Analyzed: 06/02/2015

Lab File ID (Standard): GBC01S20 Time Analyzed: 11:34

Instrument ID: 5975-G GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	1189423		11.66		1129462		15.84		1100778		18.26	
	UPPER LIMIT	2378846		12.16		2258924		16.34		2201556		18.76	
	LOWER LIMIT	594712		11.16		564731		15.34		550389		17.76	
	EPA SAMPLE NO.												
01	SBLK83	1158053		11.65		1119440		15.83		1104777		18.26	
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 = 200% 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 contract required QC limits with an asterisk.

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C1 Date Analyzed: 06/02/2015

Lab File ID (Standard): GBC04S20 Time Analyzed: 14:58

Instrument ID: 5975-G

	IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD		310136		4.96		1161951		6.37		671537		9.03	
	UPPER LIMIT		620272		5.46		2323902		6.87		1343074		9.53	
	LOWER LIMIT		155068		4.46		580976		5.87		335769		8.53	
	EPA SAMPLE NO.													
01	F9L58		343513		4.96		1286119		6.37		717617		9.02	
02	F9L59		313766		4.96		1175695		6.37		656482		9.02	
03	F9L60		328988		4.96		1226452		6.37		689453		9.02	
04	F9L61		304655		4.96		1158846		6.37		663786		9.02	
05	F9L62		319396		4.96		1186210		6.37		669077		9.02	
06	F9L63		304352		4.96		1149934		6.37		648596		9.02	
07	F9L64		314813		4.96		1170762		6.37		661575		9.02	
08	F9L65		328805		4.96		1226154		6.37		690834		9.02	
09	F9L66		321956		4.96		1199687		6.37		675851		9.02	
10	F9L67		311238		4.96		1155060		6.37		653924		9.02	
11	F9L68		321428		4.96		1201504		6.37		676007		9.02	
12	F9L69		310996		4.96		1164384		6.37		651969		9.02	
13	F9L70		308535		4.96		1140553		6.37		650027		9.02	
14	F9L71		309722		4.96		1164808		6.37		659903		9.02	
15	F9L72		277060		4.96		1032223		6.37		588610		9.02	
16														
17														
18														
19														
20														
21														
22														

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% 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 contract required QC limits with an asterisk.

8D - FORM VIII SV-2
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

EPA Sample No.(SSTD020##): SSTD020C1 Date Analyzed: 06/02/2015

Lab File ID (Standard): GBC04S20 Time Analyzed: 14:58

Instrument ID: 5975-G GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	1115547		11.66		1103221		15.84		1096059		18.26	
	UPPER LIMIT	2231094		12.16		2206442		16.34		2192118		18.76	
	LOWER LIMIT	557774		11.16		551611		15.34		548030		17.76	
	EPA SAMPLE NO.												
01	F9L58	1183505		11.65		1119723		15.83		1083361		18.25	
02	F9L59	1097485		11.65		1077337		15.83		1053351		18.25	
03	F9L60	1153612		11.65		1118716		15.83		1082617		18.26	
04	F9L61	1104057		11.65		1079683		15.83		1058588		18.25	
05	F9L62	1116593		11.65		1090273		15.83		1068524		18.25	
06	F9L63	1080515		11.65		1059855		15.83		1044250		18.25	
07	F9L64	1094845		11.65		1058302		15.83		1017847		18.25	
08	F9L65	1140326		11.65		1104377		15.83		1063528		18.25	
09	F9L66	1118589		11.65		1081887		15.83		1033538		18.25	
10	F9L67	1087123		11.65		1055674		15.83		1028052		18.25	
11	F9L68	1124912		11.65		1076772		15.83		1047215		18.25	
12	F9L69	1082247		11.65		1060059		15.83		1055600		18.25	
13	F9L70	1070981		11.65		1048742		15.83		1033052		18.24	
14	F9L71	1100453		11.65		1078723		15.83		1035981		18.24	
15	F9L72	983824		11.65		957127		15.83		938384		18.24	
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% 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 contract required QC limits with an asterisk.

8C - FORM VIII SV-1
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C2 Date Analyzed: 06/03/2015

Lab File ID (Standard): GBC21S20 Time Analyzed: 00:14

Instrument ID: 5975-G

	IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD		305210		4.96		1123320		6.37		659663		9.02	
	UPPER LIMIT		610420		5.46		2246640		6.87		1319326		9.52	
	LOWER LIMIT		152605		4.46		561660		5.87		329832		8.52	
	EPA SAMPLE NO.													
01	F9L73		331253		4.96		1227440		6.37		685170		9.02	
02	F9L75		289869		4.96		1083368		6.37		618008		9.02	
03	F9L77		300493		4.96		1123955		6.37		635600		9.02	
04	F9L78		308981		4.96		1156314		6.37		650171		9.02	
05	F9L79		330634		4.96		1247750		6.37		695642		9.02	
06														
07														
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18														
19														
20														
21														
22														

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% 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 contract required QC limits with an asterisk.

8D - FORM VIII SV-2
SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

EPA Sample No.(SSTD020##): SSTD020C2 Date Analyzed: 06/03/2015

Lab File ID (Standard): GBC21S20 Time Analyzed: 00:14

Instrument ID: 5975-G GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	1116275		11.65		1079085		15.83		1054672		18.25	
	UPPER LIMIT	2232550		12.15		2158170		16.33		2109344		18.75	
	LOWER LIMIT	558138		11.15		539543		15.33		527336		17.75	
	EPA SAMPLE NO.												
01	F9L73	1130911		11.65		1115257		15.83		1071538		18.25	
02	F9L75	1016948		11.65		982652		15.83		957185		18.24	
03	F9L77	1044270		11.65		1013417		15.83		972138		18.25	
04	F9L78	1081936		11.65		1053656		15.83		1021731		18.25	
05	F9L79	1132568		11.65		1083754		15.83		1051770		18.25	
06													
07													
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21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% 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 contract required QC limits with an asterisk.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L58

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBC05F01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	1000	U
108-95-2	Phenol	1000	U
111-44-4	Bis(2-chloroethyl)ether	1000	U
95-57-8	2-Chlorophenol	1000	U
95-48-7	2-Methylphenol	1000	U
108-60-1	2,2'-Oxybis(1-chloropropane)	1000	U
98-86-2	Acetophenone	1000	U
106-44-5	4-Methylphenol	1000	U
621-64-7	N-Nitroso-di-n-propylamine	1000	U
67-72-1	Hexachloroethane	1000	U
98-95-3	Nitrobenzene	1000	U
78-59-1	Isophorone	1000	U
88-75-5	2-Nitrophenol	1000	U
105-67-9	2,4-Dimethylphenol	1000	U
111-91-1	Bis(2-chloroethoxy)methane	1000	U
120-83-2	2,4-Dichlorophenol	1000	U
91-20-3	Naphthalene	1000	U
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	1000	U
105-60-2	Caprolactam	1000	U
59-50-7	4-Chloro-3-methylphenol	1000	U
91-57-6	2-Methylnaphthalene	1000	U
77-47-4	Hexachlorocyclopentadiene	1000	U
88-06-2	2,4,6-Trichlorophenol	1000	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	1000	U
91-58-7	2-Chloronaphthalene	1000	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	1000	U
606-20-2	2,6-Dinitrotoluene	1000	U
208-96-8	Acenaphthylene	1000	U
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	1000	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L58

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBC05F01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	1000	U
121-14-2	2,4-Dinitrotoluene	1000	U
84-66-2	Diethylphthalate	1000	U
86-73-7	Fluorene	1000	U
7005-72-3	4-Chlorophenyl-phenylether	1000	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine[1]	1000	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1000	U
101-55-3	4-Bromophenyl-phenylether	1000	U
118-74-1	Hexachlorobenzene	1000	U
1912-24-9	Atrazine	1000	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	560	J
120-12-7	Anthracene	92.	J
86-74-8	Carbazole	84.	J
84-74-2	Di-n-butylphthalate	1000	U
206-44-0	Fluoranthene	810	J
129-00-0	Pyrene	650	J
85-68-7	Butylbenzylphthalate	1000	U
91-94-1	3,3'-Dichlorobenzidine	1000	U
56-55-3	Benzo(a)anthracene	290	J
218-01-9	Chrysene	300	J
117-81-7	Bis(2-ethylhexyl)phthalate	1000	U
117-84-0	Di-n-octylphthalate	1000	U
205-99-2	Benzo(b)fluoranthene	270	J
207-08-9	Benzo(k)fluoranthene	86.	J
50-32-8	Benzo(a)pyrene	180	J
193-39-5	Indeno(1,2,3-cd)pyrene	130	J
53-70-3	Dibenzo(a,h)anthracene	1000	U
191-24-2	Benzo(g,h,i)perylene	85.	J
58-90-2	2,3,4,6-Tetrachlorophenol	1000	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L58

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293001
Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBC05F01
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 17. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015
GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 5.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.56	3900	J
02	301-02-0	9-Octadecenamide, (Z)-	15.17	1400	JNB
03	1058-61-3	Stigmast-4-en-3-one	24.64	580	JN
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

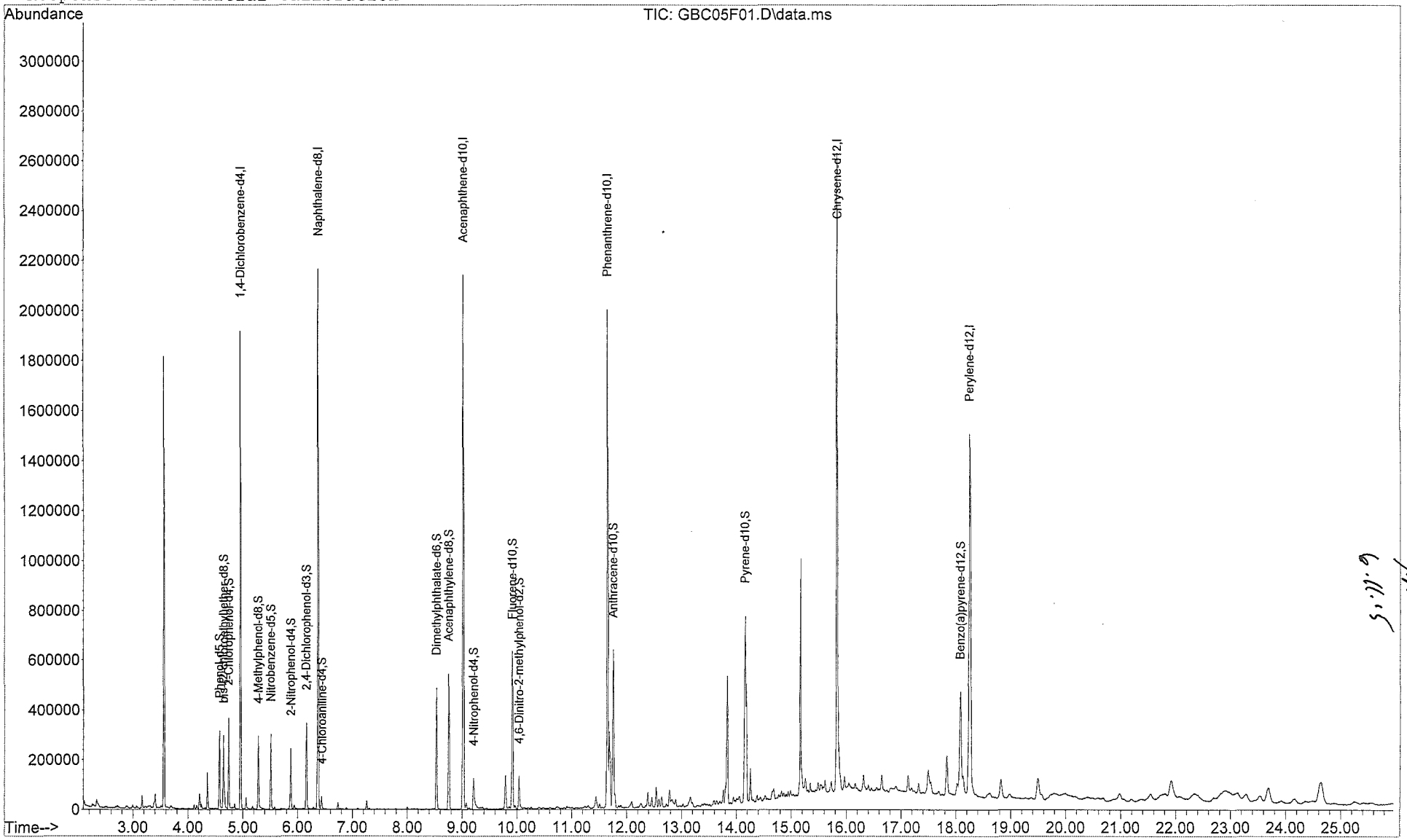
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC05F01.D Vial: 4
Acq On : 06/02/2015 15:36 Operator: DJC
Sample : 1514293001 F9L58 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 14:37:20 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC05F01.D Vial: 4
Acq On : 06/02/2015 15:36 Operator: DJC
Sample : 1514293001 F9L58 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:37:20 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	343513	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1286119	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	717617	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1183505	20.00 ug/ml
73) Chrysene-d12	15.83	240	1119723	20.00 ug/ml
81) Perylene-d12	18.25	264	1083361	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	128528	5.366ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	62902	4.289ug/mL
7) 2-Chlorophenol-d4	4.74	132	122152	5.194ug/ml
13) 4-Methylphenol-d8	5.28	113	77969	4.181ug/mL
17) Nitrobenzene-d5	5.51	128	56352	5.222ug/ml
21) 2-Nitrophenol-d4	5.87	143	65780	5.470ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	97574	5.539ug/mL
28) 4-Chloroaniline-d4	6.44	131	21770	1.139ug/mL
42) Dimethylphthalate-d6	8.53	166	297392	6.814ug/mL
45) Acenaphthylene-d8	8.76	160	355863	6.110ug/mL
50) 4-Nitrophenol-d4	9.21	143	50093	5.390ug/mL
57) Fluorene-d10	9.92	176	251307	6.630ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	32102	4.129ug/mL
69) Anthracene-d10	11.75	188	391333	6.537ug/mL
75) Pyrene-d10	14.16	212	347379	6.824ug/mL
86) Benzo(a)pyrene-d12	18.08	264	303841	6.183ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

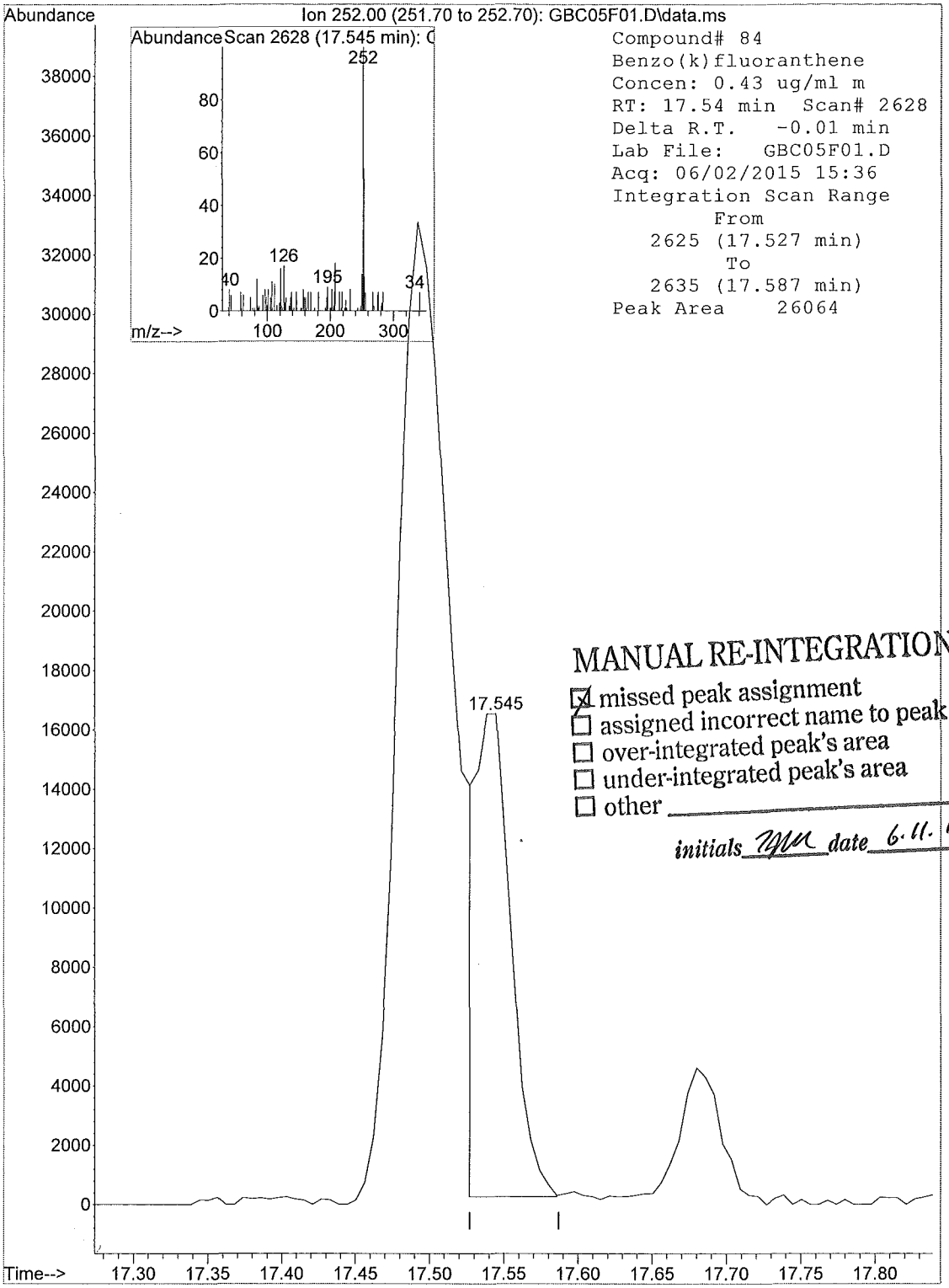
Data File : Z:\G\2015\JUN15\02JUN15\GBC05F01.D Vial: 4
Acq On : 06/02/2015 15:36 Operator: DJC
Sample : 1514293001 F9L58 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:37:20 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	11.69	178	181611	2.806ug/ml	99
68) Anthracene	11.79	178	30376	0.460ug/ml	89
70) Carbazole	12.09	167	16657	0.417ug/mL	97
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	13.83	202	269500	4.038ug/ml	96
74) Pyrene	14.18	202	225660	3.255ug/ml	98
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	15.82	228	92041	1.446ug/ml	97
79) Chrysene	15.86	228	85605	1.482ug/ml	96
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	17.49	252	83576	1.327ug/ml	95
84) Benzo(k)fluoranthene	17.54	252	26064	0.427ug/ml m	95 6.11.15
85) Benzo(a)pyrene	18.13	252	53514	0.881ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	20.98	276	37260	0.626ug/ml	96
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	21.82	276	25487	0.423ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene

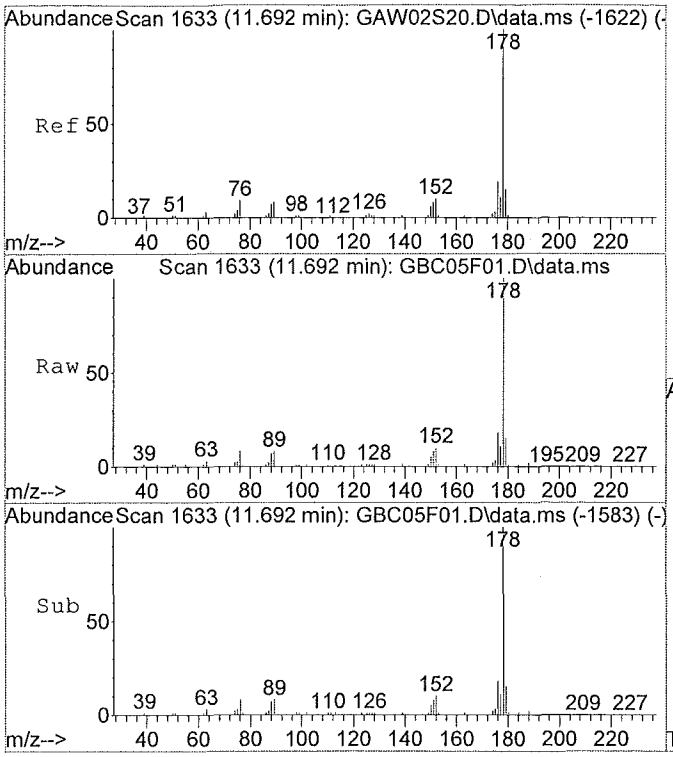


Compound# 84
Benzo(k)fluoranthene
Concen: 0.43 ug/ml m
RT: 17.54 min Scan# 2628
Delta R.T. -0.01 min
Lab File: GBC05F01.D
Acq: 06/02/2015 15:36
Integration Scan Range
From
2625 (17.527 min)
To
2635 (17.587 min)
Peak Area 26064

MANUAL RE-INTEGRATION

- [x] missed peak assignment
- [ ] assigned incorrect name to peak
- [ ] over-integrated peak's area
- [ ] under-integrated peak's area
- [ ] other _____

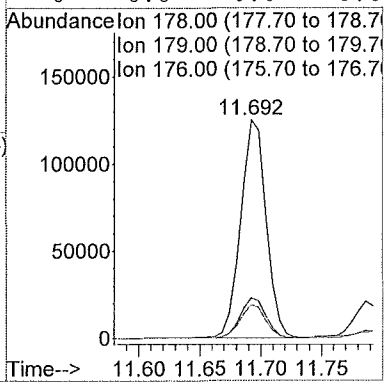
initials TJM *date* 6.11.15

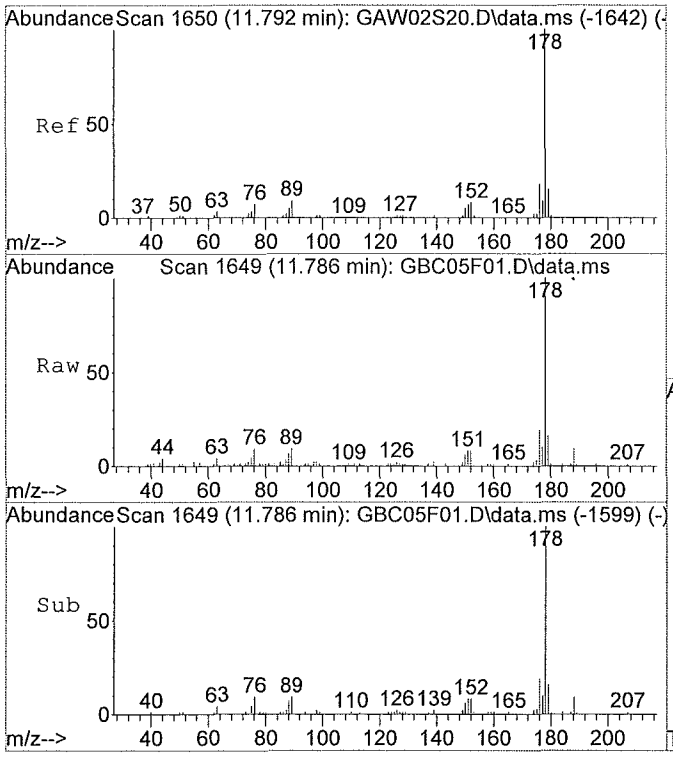


#67
Phenanthrene
Concen: 2.81 ug/ml
RT: 11.69 min Scan# 1633
Delta R.T. -0.01 min
Lab File: GBC05F01.D
Acq: 06/02/2015 15:36

Tgt Ion:178 Resp: 181611

Ion	Ratio	Lower	Upper
178	100		
179	15.6	10.6	19.8
176	18.3	13.2	24.4
0	0.0	0.0	0.0

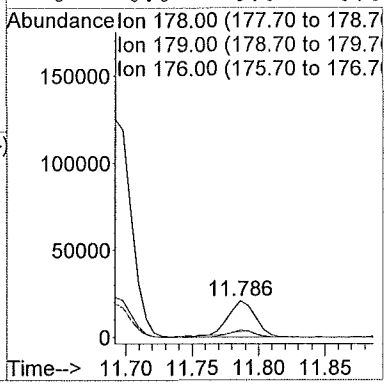


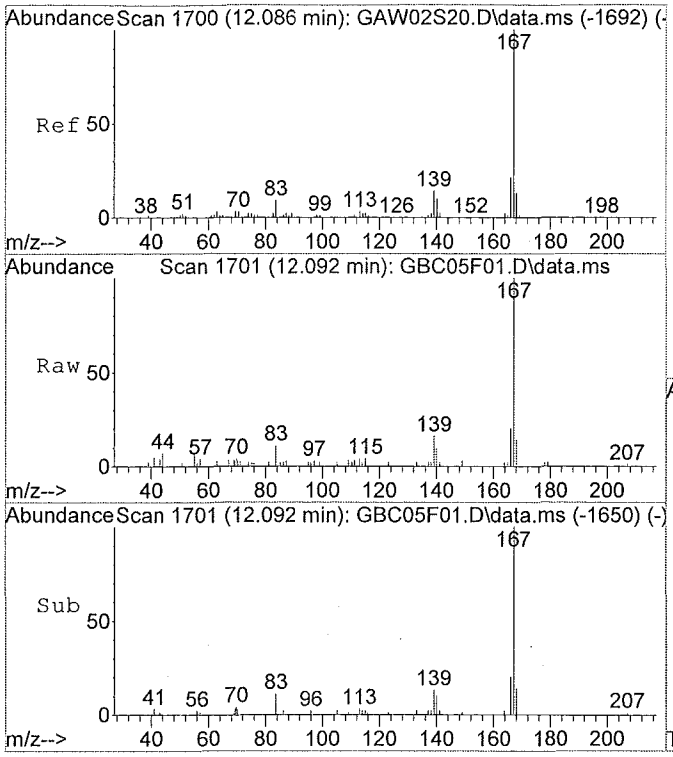


#68
Anthracene
Concen: 0.46 ug/ml
RT: 11.79 min Scan# 1649
Delta R.T. -0.01 min
Lab File: GBC05F01.D
Acq: 06/02/2015 15:36

Tgt Ion:178 Resp: 30376

Ion	Ratio	Lower	Upper
178	100		
179	24.0	10.5	19.5#
176	19.1	12.7	23.5
0	0.0	0.0	0.0

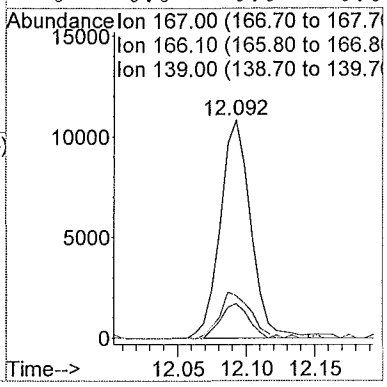


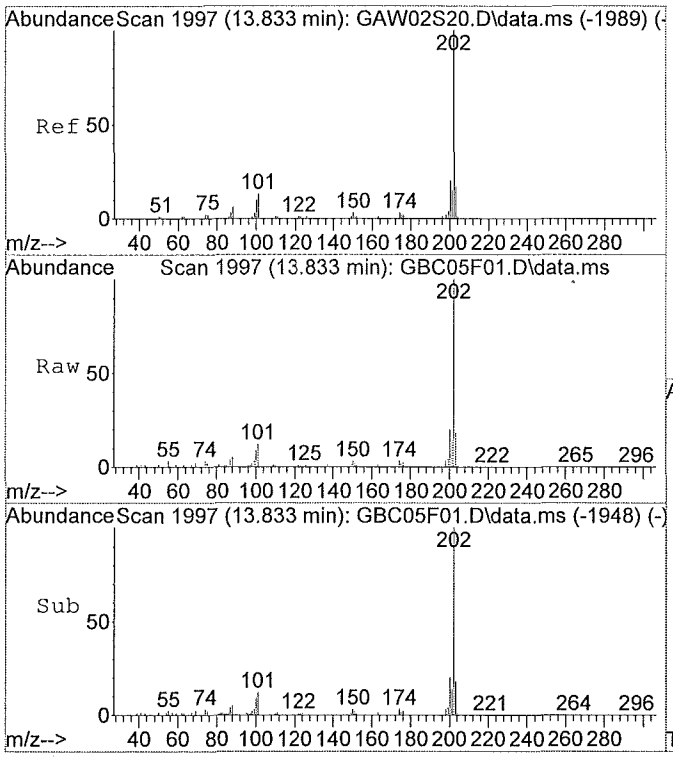


#70
Carbazole
Concen: 0.42 ug/mL
RT: 12.09 min Scan# 1701
Delta R.T. -0.00 min
Lab File: GBC05F01.D
Acq: 06/02/2015 15:36

Tgt Ion:167 Resp: 16657

Ion	Ratio	Lower	Upper
167	100		
166	21.1	15.8	23.8
139	14.8	11.1	16.7
0	0.0	0.0	0.0

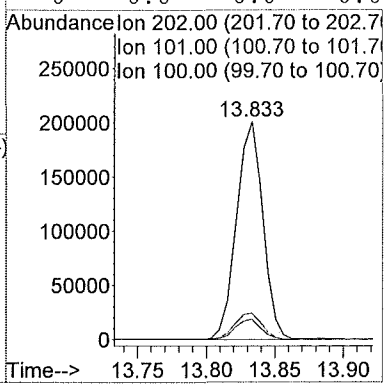


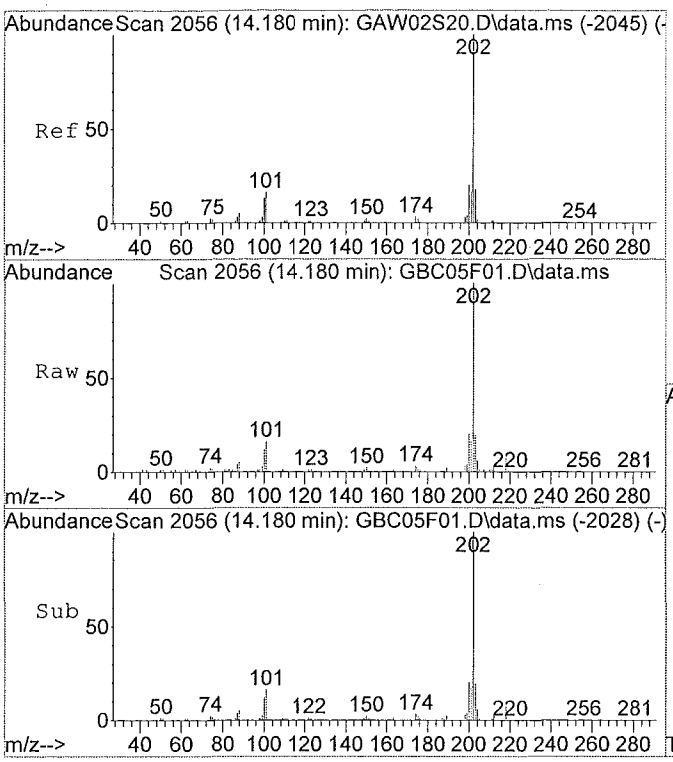


#72
Fluoranthene
Concen: 4.04 ug/ml
RT: 13.83 min Scan# 1997
Delta R.T. -0.00 min
Lab File: GBC05F01.D
Acq: 06/02/2015 15:36

Tgt Ion:202 Resp: 269500

Ion	Ratio	Lower	Upper
202	100		
101	13.0	10.5	19.5
100	9.3	7.4	13.8
0	0.0	0.0	0.0

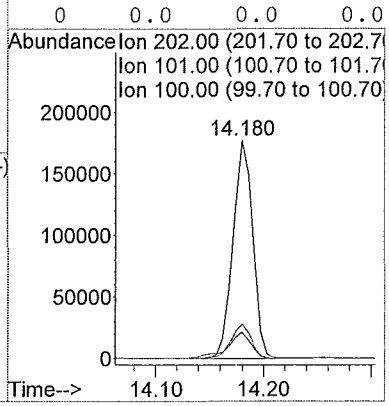


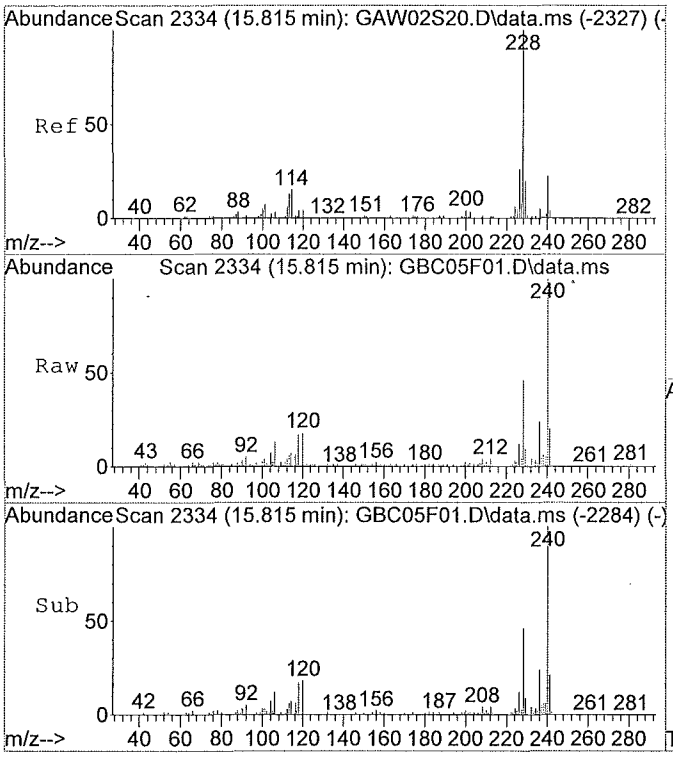


#74
Pyrene
Concen: 3.25 ug/ml
RT: 14.18 min Scan# 2056
Delta R.T. -0.01 min
Lab File: GBC05F01.D
Acq: 06/02/2015 15:36

Tgt Ion:202 Resp: 225660

Ion	Ratio	Lower	Upper
202	100		
101	16.2	12.2	22.7
100	14.3	10.1	18.7
0	0.0	0.0	0.0

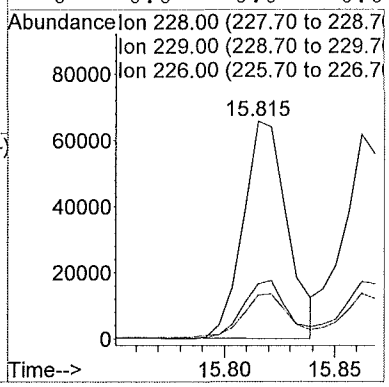


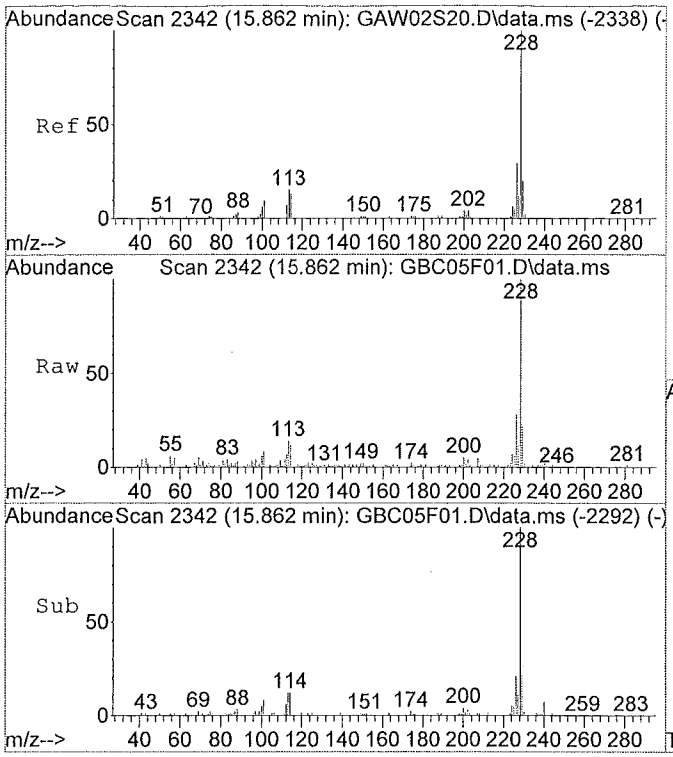


#78
Benzo(a)anthracene
Concen: 1.45 ug/ml
RT: 15.82 min Scan# 2334
Delta R.T. -0.01 min
Lab File: GBC05F01.D
Acq: 06/02/2015 15:36

Tgt Ion:228 Resp: 92041

Ion	Ratio	Lower	Upper
228	100		
229	21.1	13.7	25.5
226	27.0	18.2	33.8
0	0.0	0.0	0.0

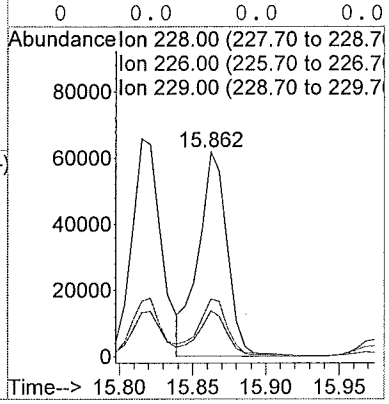


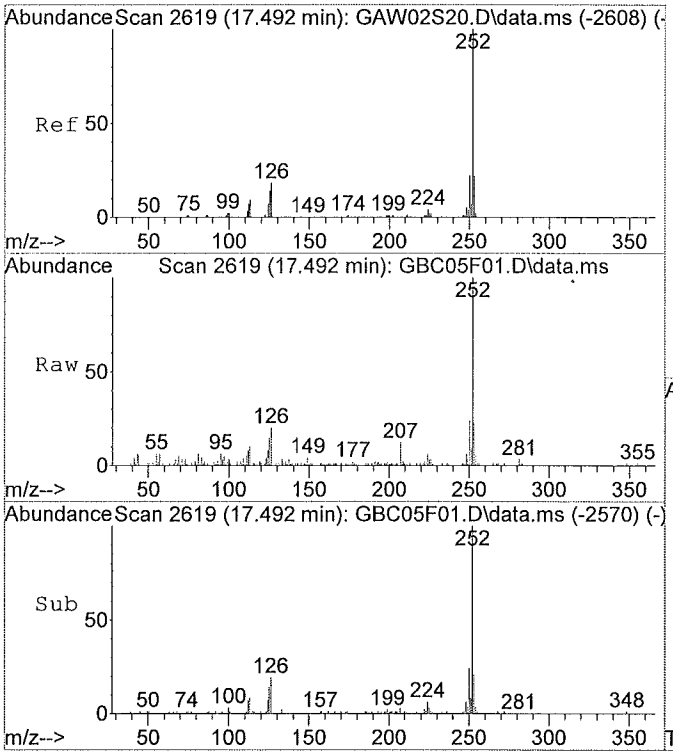


#79
Chrysene
Concen: 1.48 ug/ml
RT: 15.86 min Scan# 2342
Delta R.T. -0.01 min
Lab File: GBC05F01.D
Acq: 06/02/2015 15:36

Tgt Ion:228 Resp: 85605

Ion	Ratio	Lower	Upper
228	100		
226	29.4	20.1	37.3
229	22.7	13.7	25.5
0	0.0	0.0	0.0

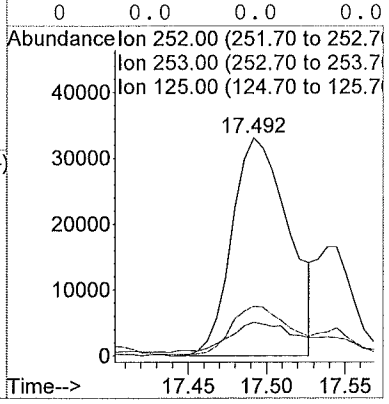


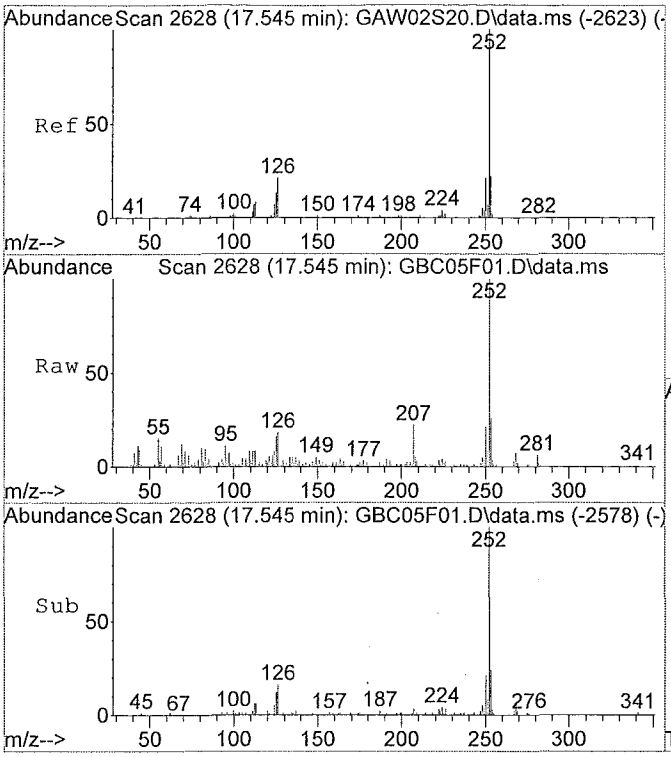


#83
Benzo(b)fluoranthene
Concen: 1.33 ug/ml
RT: 17.49 min Scan# 2619
Delta R.T. -0.01 min
Lab File: GBC05F01.D
Acq: 06/02/2015 15:36

Tgt Ion:252 Resp: 83576

Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.1	28.1
125	19.4	10.6	19.8
0	0.0	0.0	0.0

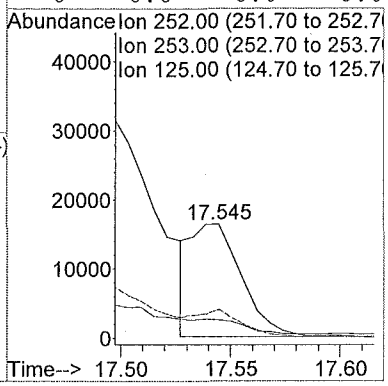


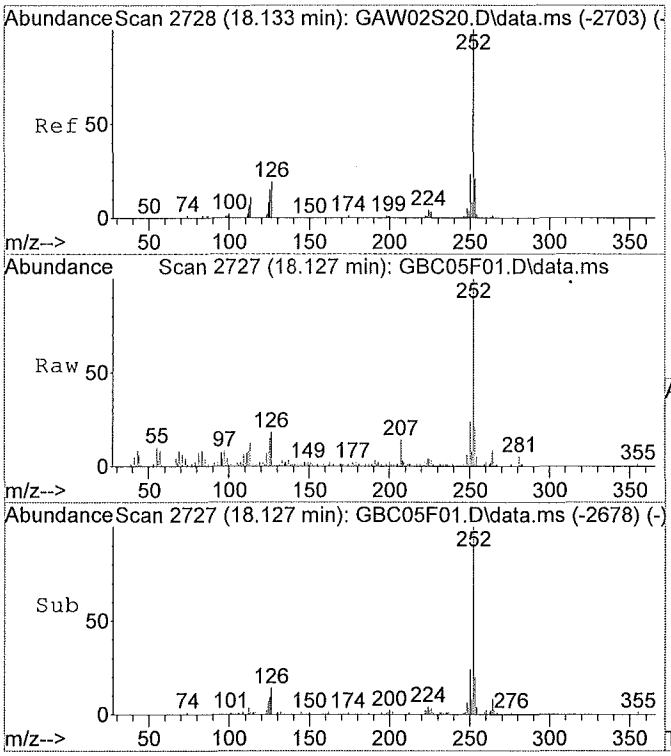


#84
Benzo(k)fluoranthene
Concen: 0.43 ug/ml m
RT: 17.54 min Scan# 2628
Delta R.T. -0.01 min
Lab File: GBC05F01.D
Acq: 06/02/2015 15:36

Tgt Ion:252 Resp: 26064

Ion	Ratio	Lower	Upper
252	100		
253	71.5	15.1	28.1#
125	62.3	10.7	19.9#
0	0.0	0.0	0.0

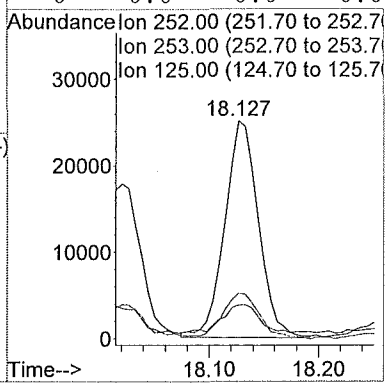


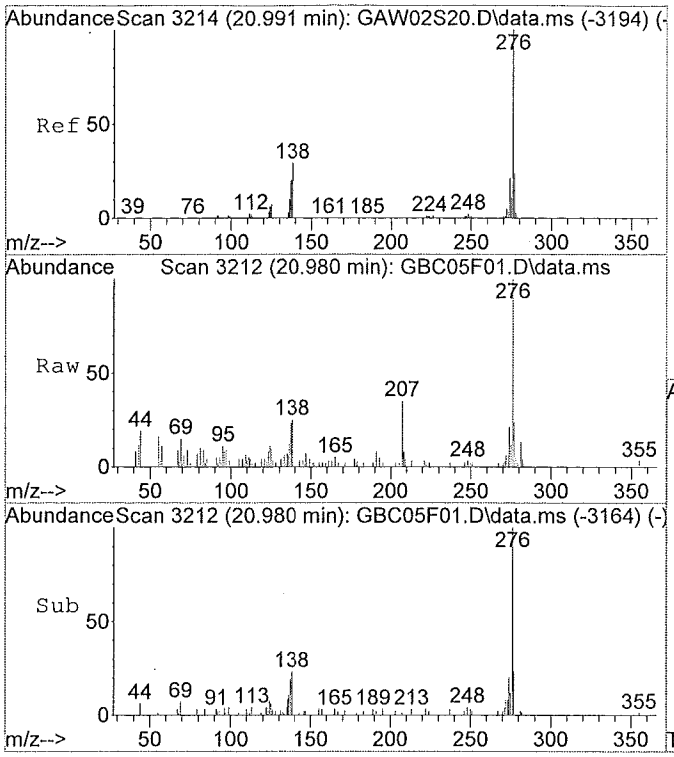


#85
Benzo(a)pyrene
Concen: 0.88 ug/ml
RT: 18.13 min Scan# 2727
Delta R.T. -0.01 min
Lab File: GBC05F01.D
Acq: 06/02/2015 15:36

Tgt Ion:252 Resp: 53514

Ion	Ratio	Lower	Upper
252	100		
253	23.3	15.2	28.2
125	14.4	11.8	21.8
0	0.0	0.0	0.0

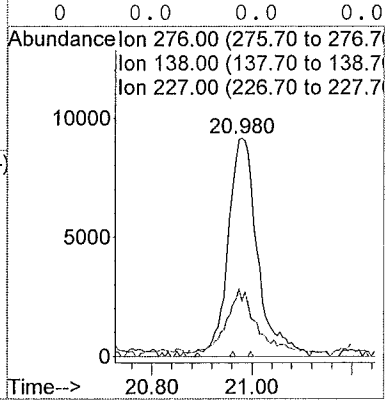


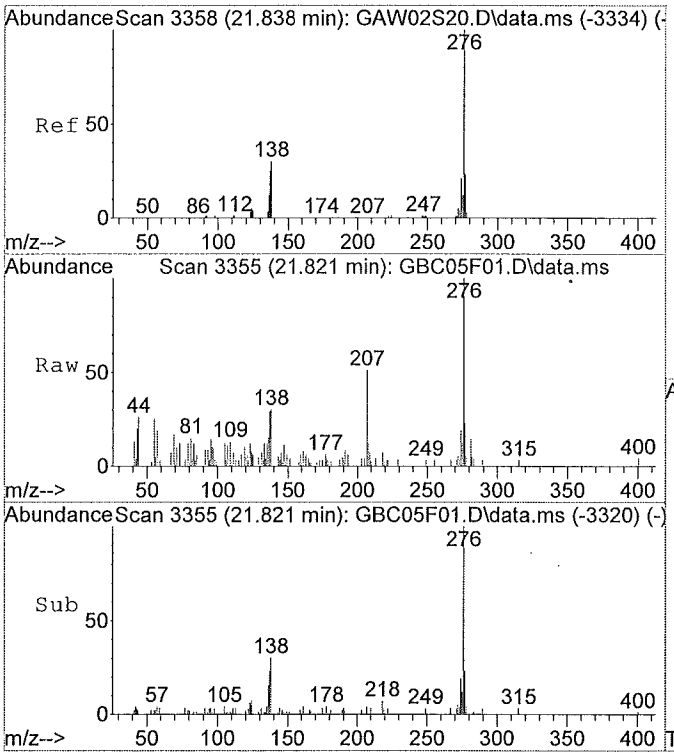


#87
Indeno(1,2,3-c,d)pyrene
Concen: 0.63 ug/ml
RT: 20.98 min Scan# 3212
Delta R.T. -0.02 min
Lab File: GBC05F01.D
Acq: 06/02/2015 15:36

Tgt Ion:276 Resp: 37260

Ion	Ratio	Lower	Upper
276	100		
138	34.2	22.3	41.5
227	0.2	0.1	0.1#
0	0.0	0.0	0.0

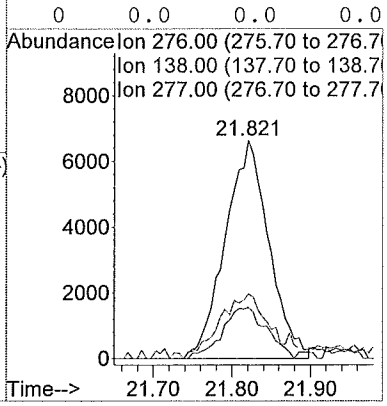




#89
Benzo(g,h,i)perylene
Concen: 0.42 ug/ml
RT: 21.82 min Scan# 3355
Delta R.T. -0.02 min
Lab File: GBC05F01.D
Acq: 06/02/2015 15:36

Tgt Ion:276 Resp: 25487

Ion	Ratio	Lower	Upper
276	100		
138	32.0	24.1	44.7
277	23.8	16.7	30.9
0	0.0	0.0	0.0



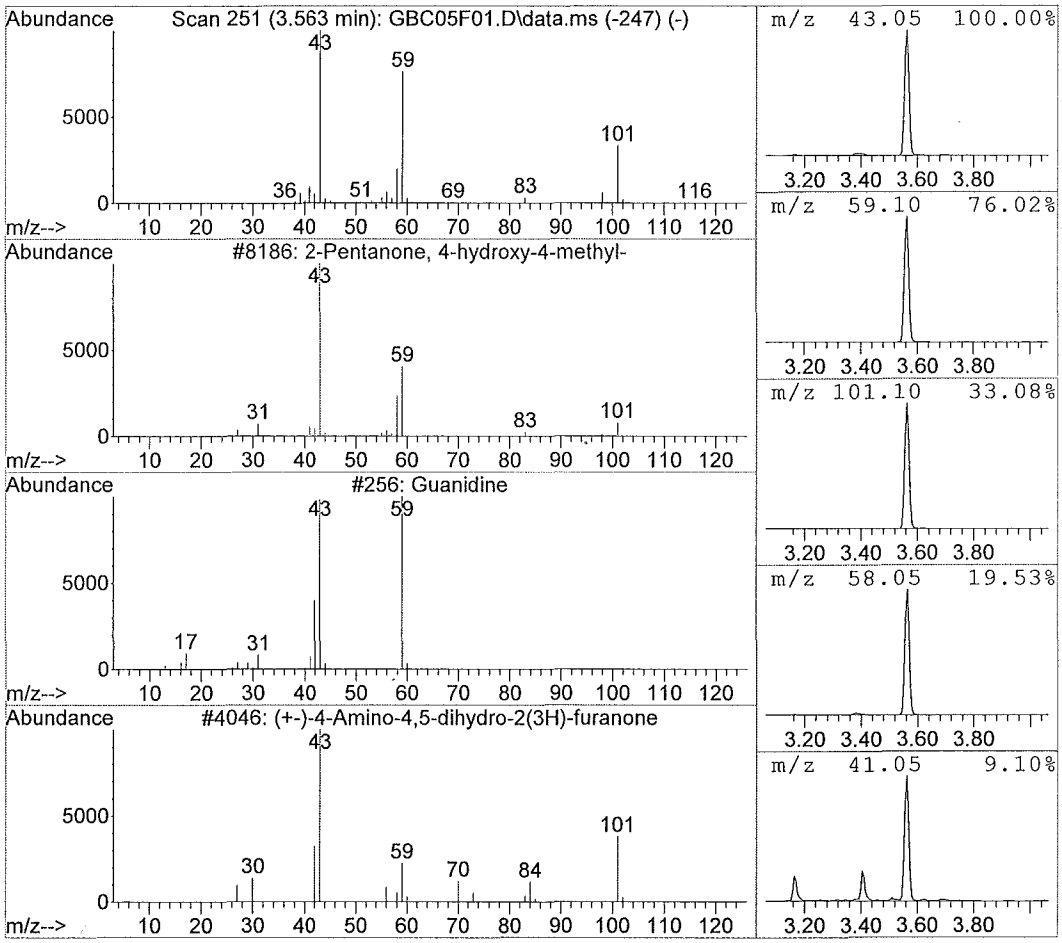
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC05F01.D Vial: 4
Acq On : 06/02/2015 15:36 Operator: DJC
Sample : 1514293001 F9L58 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	19.53 ug/ml	1873248	1,4-Dichlorobenzene-d4	1918394

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	Guanidine	256	000113-00-8	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Morpholine, 4-methyl-	4083	000109-02-4	9.00

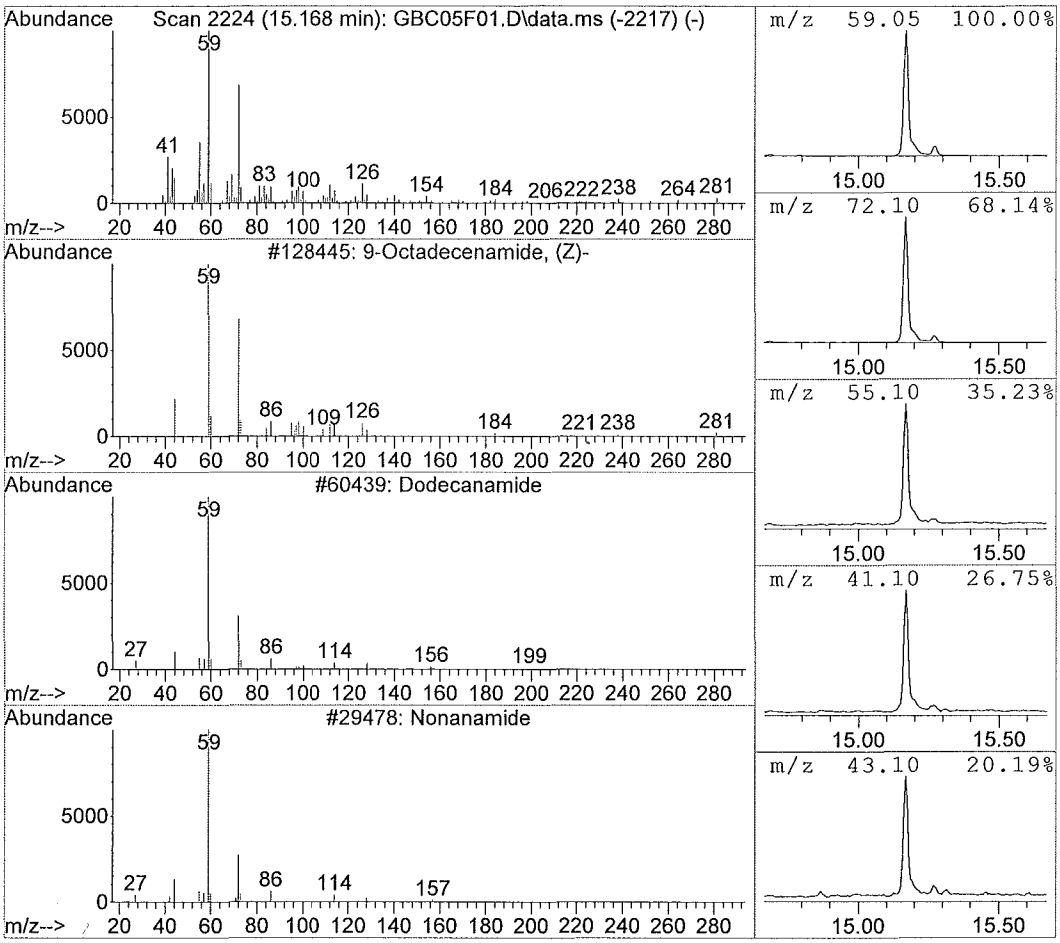


Data File : Z:\G\2015\JUN15\02JUN15\GBC05F01.D Vial: 4
Acq On : 06/02/2015 15:36 Operator: DJC
Sample : 1514293001 F9L58 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	7.08 ug/ml	1232536	Chrysene-d12	3482296

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Dodecanamide	60439	001120-16-7	53.00
3	Nonanamide	29478	001120-07-6	53.00
4	Octanamide	20317	000629-01-6	53.00
5	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	50.00

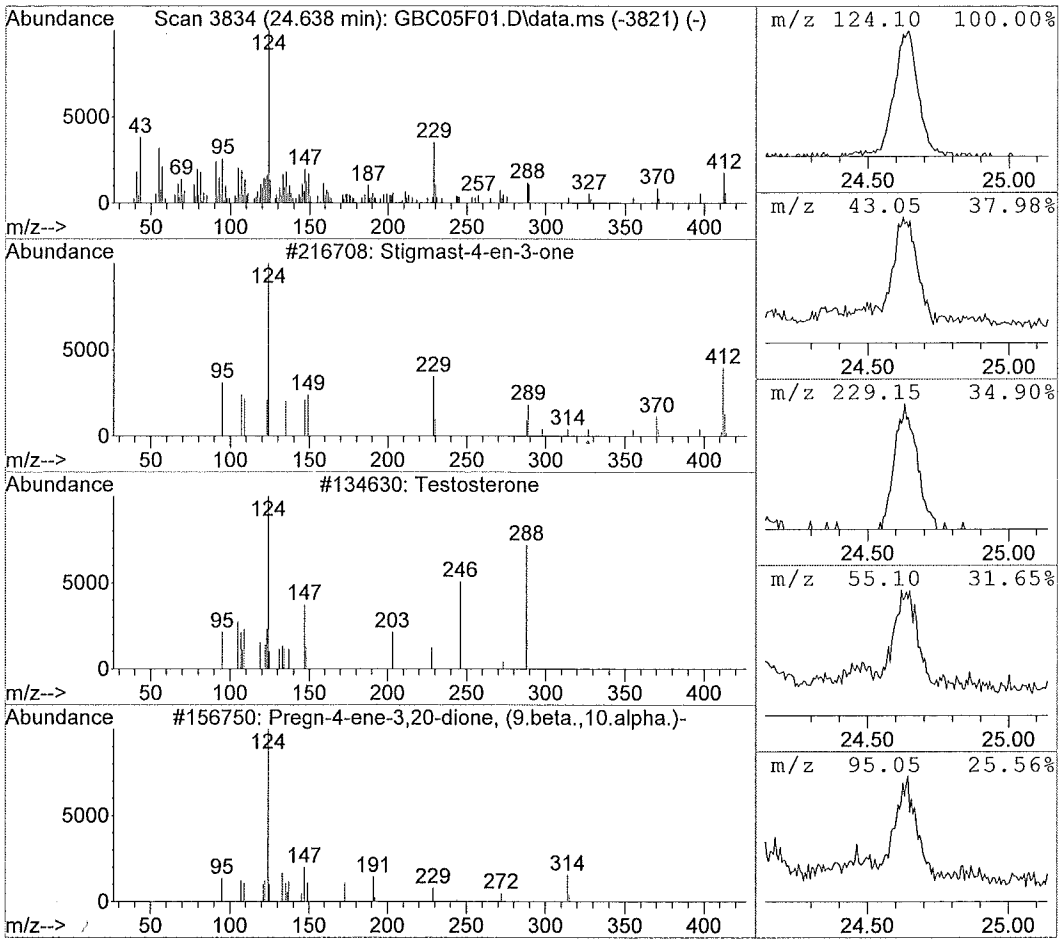


Data File : Z:\G\2015\JUN15\02JUN15\GBC05F01.D Vial: 4
Acq On : 06/02/2015 15:36 Operator: DJC
Sample : 1514293001 F9L58 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.64	2.88 ug/ml	472912	Perylene-d12	3286061

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	98.00
2	Testosterone	134630	000058-22-0	58.00
3	Pregn-4-ene-3,20-dione, (9.beta.,10	156750	002755-10-4	47.00
4	2-Chloro-4-fluorobenzylamide	30626	1000343-00-9	43.00
5	Orcinol	10403	000504-15-4	43.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L59

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC06F02

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	990	U
108-95-2	Phenol	990	U
111-44-4	Bis(2-chloroethyl)ether	990	U
95-57-8	2-Chlorophenol	990	U
95-48-7	2-Methylphenol	990	U
108-60-1	2,2'-Oxybis(1-chloropropane)	990	U
98-86-2	Acetophenone	990	U
106-44-5	4-Methylphenol	990	U
621-64-7	N-Nitroso-di-n-propylamine .	990	U
67-72-1	Hexachloroethane	990	U
98-95-3	Nitrobenzene	990	U
78-59-1	Isophorone	990	U
88-75-5	2-Nitrophenol	990	U
105-67-9	2,4-Dimethylphenol	990	U
111-91-1	Bis(2-chloroethoxy)methane	990	U
120-83-2	2,4-Dichlorophenol	990	U
91-20-3	Naphthalene	990	U
106-47-8	4-Chloroaniline	990	U
87-68-3	Hexachlorobutadiene	990	U
105-60-2	Caprolactam	990	U
59-50-7	4-Chloro-3-methylphenol	990	U
91-57-6	2-Methylnaphthalene	990	U
77-47-4	Hexachlorocyclopentadiene	990	U
88-06-2	2,4,6-Trichlorophenol	990	U
95-95-4	2,4,5-Trichlorophenol	990	U
92-52-4	1,1'-Biphenyl	990	U
91-58-7	2-Chloronaphthalene	990	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	990	U
606-20-2	2,6-Dinitrotoluene	990	U
208-96-8	Acenaphthylene	990	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	990	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L59

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC06F02

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	990	U
121-14-2	2,4-Dinitrotoluene	990	U
84-66-2	Diethylphthalate	990	U
86-73-7	Fluorene	990	U
7005-72-3	4-Chlorophenyl-phenylether	990	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine[1]	990	U
95-94-3	1,2,4,5-Tetrachlorobenzene	990	U
101-55-3	4-Bromophenyl-phenylether	990	U
118-74-1	Hexachlorobenzene	990	U
1912-24-9	Atrazine	990	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	990	U
120-12-7	Anthracene	990	U
86-74-8	Carbazole	990	U
84-74-2	Di-n-butylphthalate	990	U
206-44-0	Fluoranthene	990	U
129-00-0	Pyrene	990	U
85-68-7	Butylbenzylphthalate	990	U
91-94-1	3,3'-Dichlorobenzidine	990	U
56-55-3	Benzo(a)anthracene	990	U
218-01-9	Chrysene	990	U
117-81-7	Bis(2-ethylhexyl)phthalate	990	U
117-84-0	Di-n-octylphthalate	990	U
205-99-2	Benzo(b)fluoranthene	990	U
207-08-9	Benzo(k)fluoranthene	990	U
50-32-8	Benzo(a)pyrene	990	U
193-39-5	Indeno(1,2,3-cd)pyrene	990	U
53-70-3	Dibenzo(a,h)anthracene	990	U
191-24-2	Benzo(g,h,i)perylene	990	U
58-90-2	2,3,4,6-Tetrachlorophenol	990	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L59

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293002
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC06F02
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015
GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 5.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.56	4300	J
02	301-02-0	9-Octadecenamide, (Z)-	15.17	2000	JNB
03		Unknown N,N'-Bis(2-hydroxy-alpha-methylbenzylide	18.82	1600	J
04		Unknown [2.2]Paracyclophane	23.69	2600	JB
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

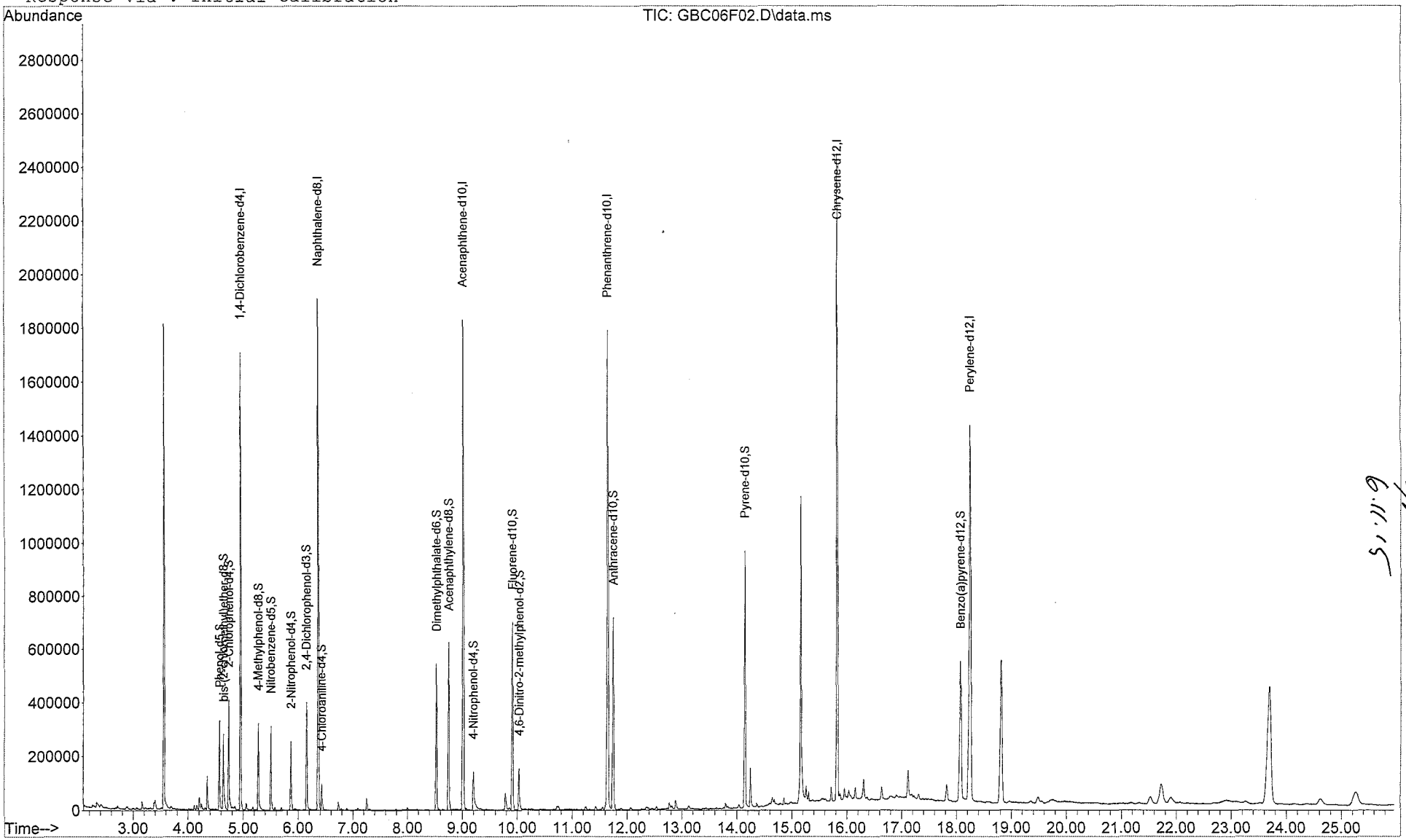
Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC06F02.D
Acq On : 06/02/2015 16:09
Sample : 1514293002 F9L59 (5)
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 5
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 02 16:35:29 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC06F02.D Vial: 5
Acq On : 06/02/2015 16:09 Operator: DJC
Sample : 1514293002 F9L59 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 02 16:35:29 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	313766	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1175695	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	656482	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1097485	20.00 ug/ml
73) Chrysene-d12	15.83	240	1077337	20.00 ug/ml
81) Perylene-d12	18.25	264	1053351	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	142127	6.496ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	64074	4.783ug/mL
7) 2-Chlorophenol-d4	4.74	132	134023	6.239ug/ml
13) 4-Methylphenol-d8	5.28	113	84759	4.976ug/mL
17) Nitrobenzene-d5	5.51	128	58699	5.951ug/ml
21) 2-Nitrophenol-d4	5.87	143	71477	6.502ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	110938	6.889ug/mL
28) 4-Chloroaniline-d4	6.44	131	42351	2.424ug/mL
42) Dimethylphthalate-d6	8.53	166	340951	8.540ug/mL
45) Acenaphthylene-d8	8.76	160	397870	7.467ug/mL
50) 4-Nitrophenol-d4	9.21	143	59697	7.022ug/mL
57) Fluorene-d10	9.92	176	280637	8.093ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	38207	5.300ug/mL
69) Anthracene-d10	11.75	188	453323	8.166ug/mL
75) Pyrene-d10	14.15	212	403666	8.242ug/mL
86) Benzo(a)pyrene-d12	18.07	264	377061	7.892ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC06F02.D Vial: 5
Acq On : 06/02/2015 16:09 Operator: DJC
Sample : 1514293002 F9L59 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 02 16:35:29 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00525

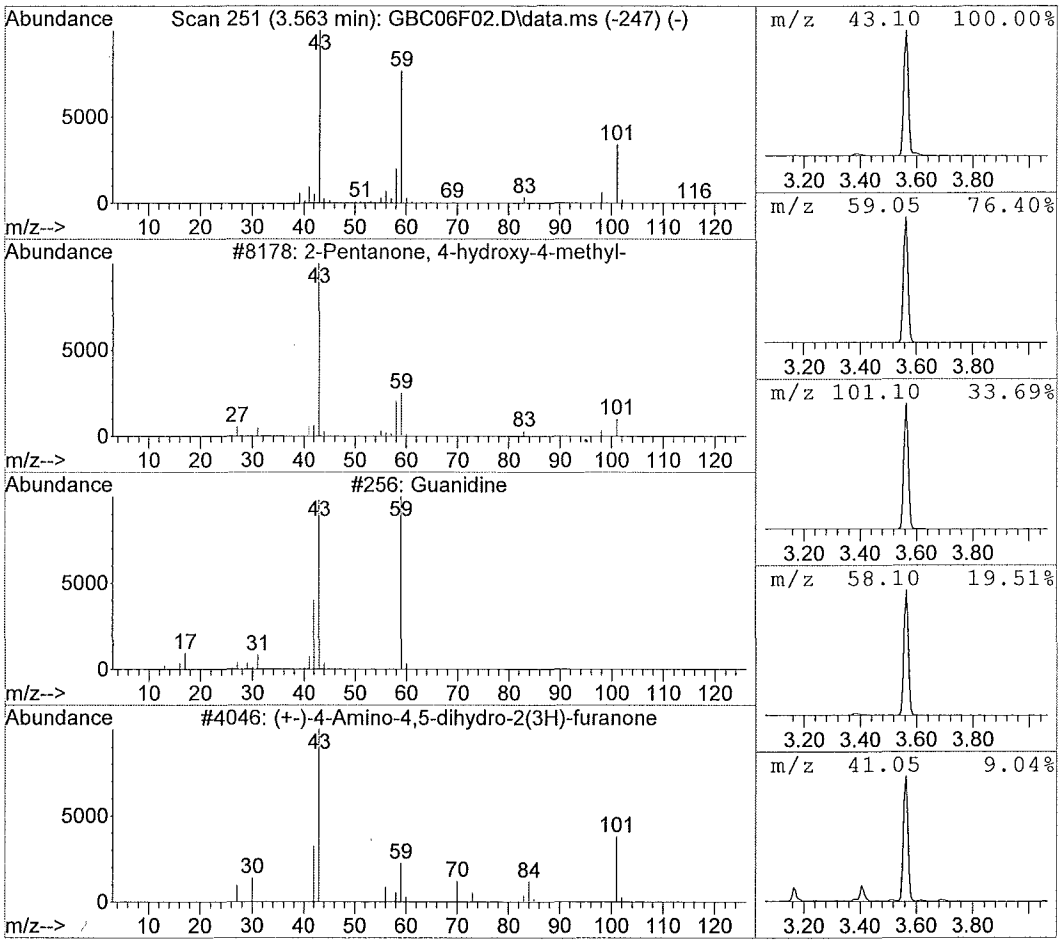
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC06F02.D Vial: 5
Acq On : 06/02/2015 16:09 Operator: DJC
Sample : 1514293002 F9L59 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	21.93 ug/ml	1915508	1,4-Dichlorobenzene-d4	1746770

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	64.00
2	Guanidine	256	000113-00-8	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Acetone	213	000067-64-1	9.00



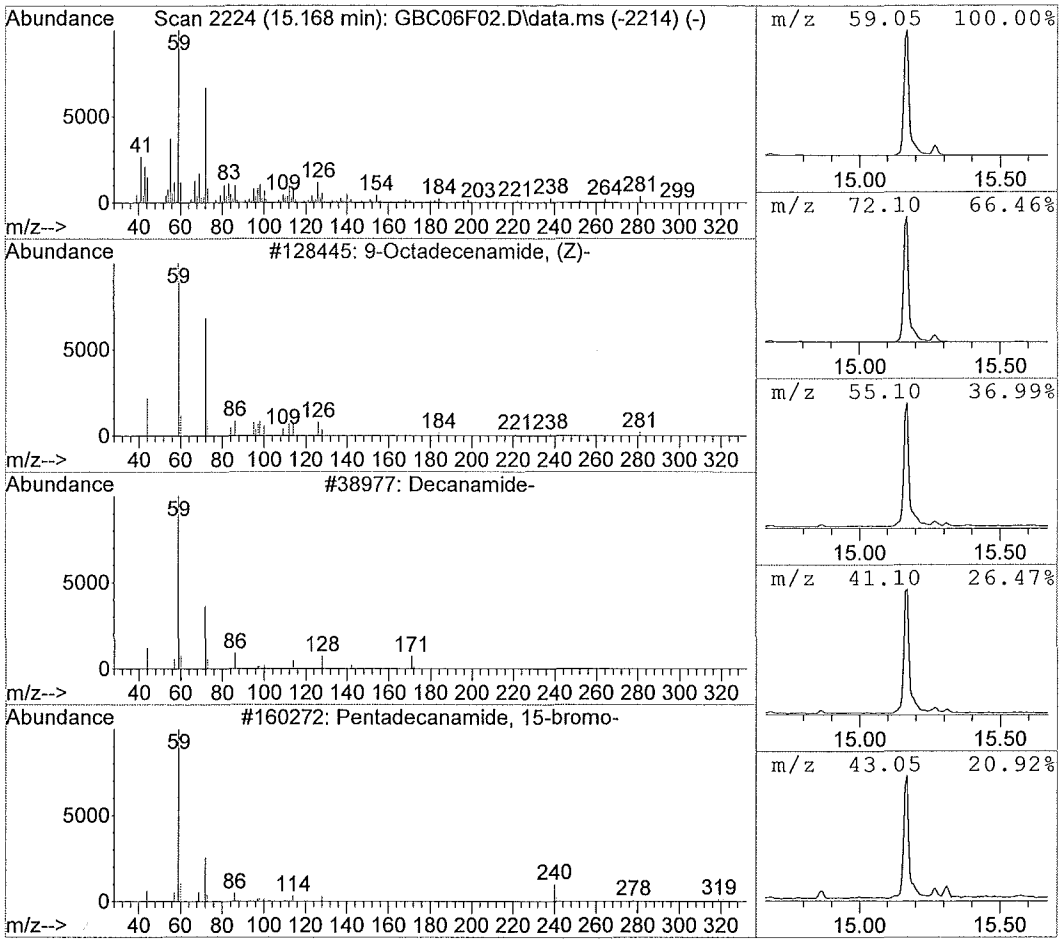
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC06F02.D Vial: 5
Acq On : 06/02/2015 16:09 Operator: DJC
Sample : 1514293002 F9L59 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	10.44 ug/ml	1585673	Chrysene-d12	3037265

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	98.00
2	Decanamide-	38977	002319-29-1	50.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	45.00
4	Octanamide	20317	000629-01-6	42.00
5	Butanamide, 3-methyl-	4085	000541-46-8	38.00

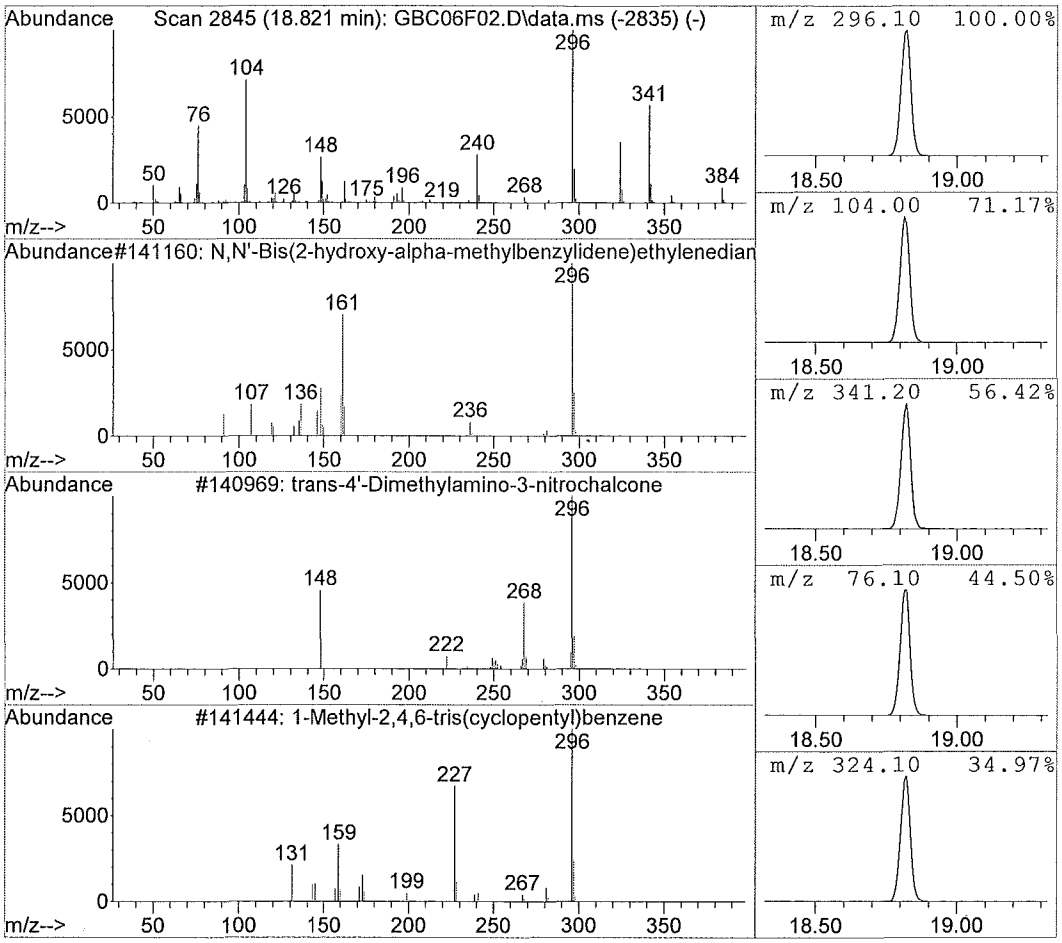


Data File : Z:\G\2015\JUN15\02JUN15\GBC06F02.D Vial: 5
Acq On : 06/02/2015 16:09 Operator: DJC
Sample : 1514293002 F9L59 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.82	8.35 ug/ml	1318068	Perylene-d12	3155429

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	N,N'-Bis(2-hydroxy-alpha-methylbenz	141160	005464-60-8	27.00
2	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	27.00
3	1-Methyl-2,4,6-tris(cyclopentyl)ben	141444	100325-74-4	14.00
4	Pyrazol-5(4H)-one, 4-(2-fluoropheny	140873	125910-81-8	14.00
5	Cyclohept[b]indol-6(5H)-one, 2-cycl	141251	339284-86-5	10.00

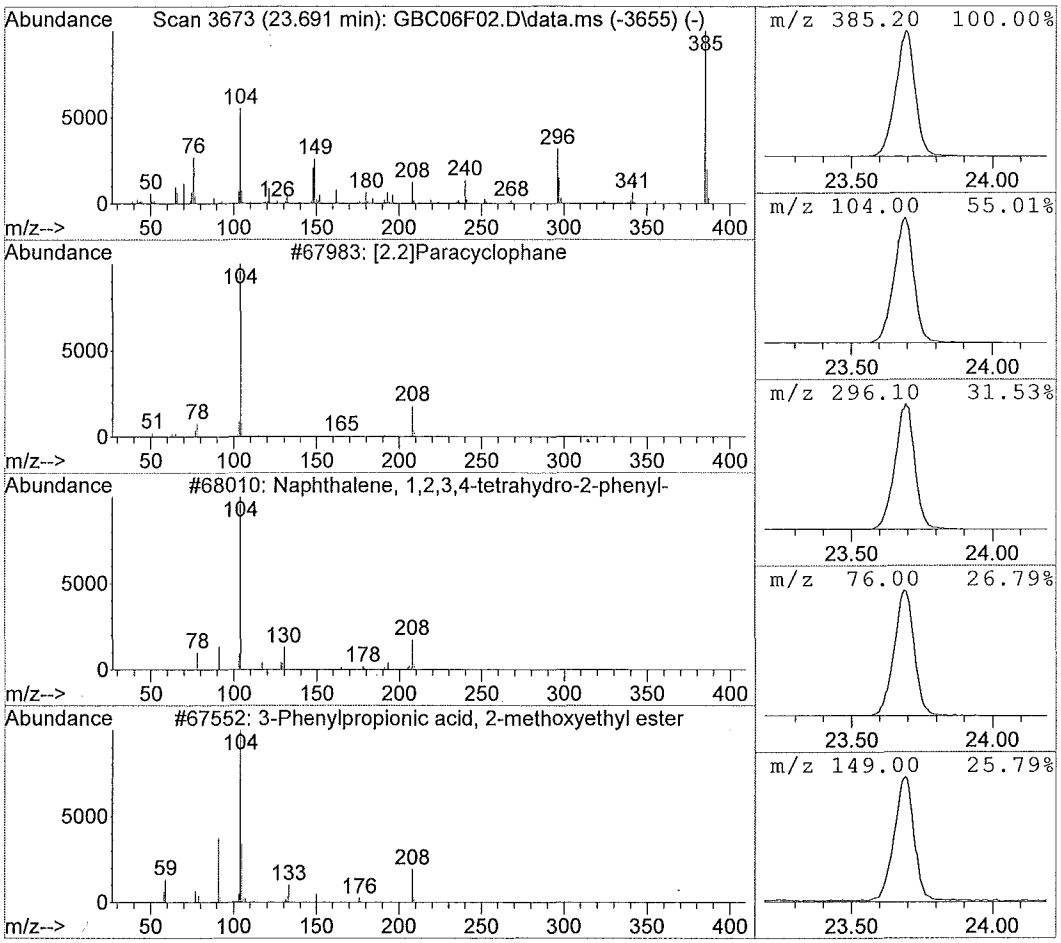


Data File : Z:\G\2015\JUN15\02JUN15\GBC06F02.D Vial: 5
Acq On : 06/02/2015 16:09 Operator: DJC
Sample : 1514293002 F9L59 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.69	13.12 ug/ml	2070664	Perylene-d12	3155429

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	[2.2]Paracyclophane	67983	001633-22-3	11.00
2	Naphthalene, 1,2,3,4-tetrahydro-2-p	68010	029422-13-7	10.00
3	3-Phenylpropionic acid, 2-methoxyet	67552	1000331-05-3	10.00
4	Phthalic anhydride	23152	000085-44-9	10.00
5	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	204982	104576-48-9	9.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L60

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293003

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC07F03

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	210	U
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	210	U
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	U
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	U
78-59-1	Isophorone	210	U
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
88-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	210	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L60

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293003

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC07F03

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine[1]	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	210	U
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	210	U
129-00-0	Pyrene	210	U
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	210	U
218-01-9	Chrysene	210	U
117-81-7	Bis(2-ethylhexyl)phthalate	210	U
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	210	U
207-08-9	Benzo(k)fluoranthene	210	U
50-32-8	Benzo(a)pyrene	210	U
193-39-5	Indeno(1,2,3-cd)pyrene	210	U
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
58-90-2	2,3,4,6-Tetrachlorophenol	210	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L60

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293003
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC07F03
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 19. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015
GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.12	230	JB
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	110	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.58	4400	J
04		Unknown 3-Hexene-2,5-dione	4.35	310	JB
05	112-39-0	Hexadecanoic acid, methyl ester	12.53	100	JN
06	638-58-4	Tetradecanamide	14.26	210	JN
07	301-02-0	9-Octadecenamide, (Z)-	15.17	1700	JNB
08	112-84-5	13-Docosenamide, (Z)-	17.13	700	JN
09		Unknown Phthalic anhydride	18.82	88.	JB
10		Unknown D-Friedoolean-14-ene, 3-methoxy-, (3.bet	21.54	750	J
11	1058-61-3	Stigmast-4-en-3-one	24.64	170	JN
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1200	J

[2] EPA-designated Registry Number.

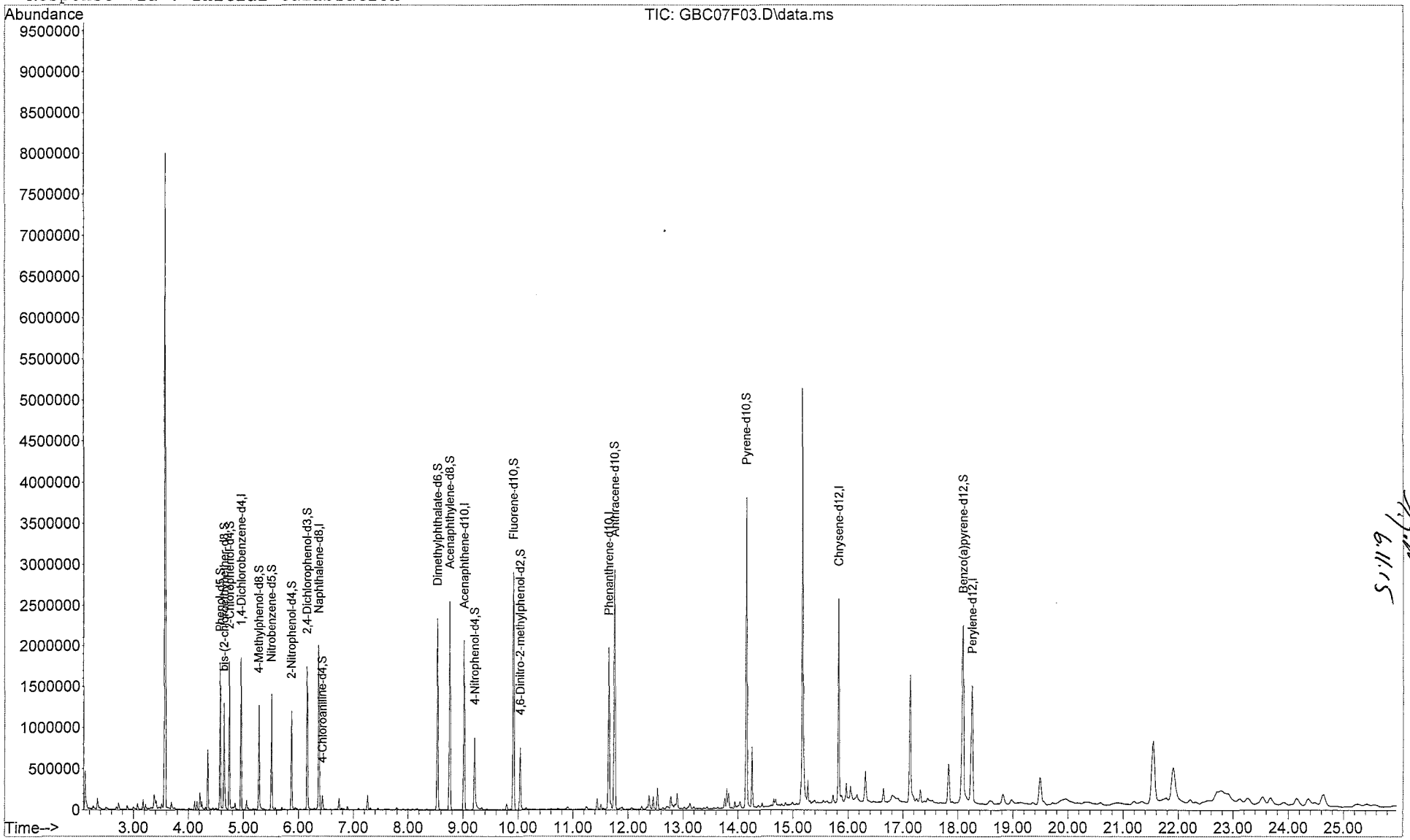
Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D
Acq On : 06/02/2015 16:42
Sample : 1514293003 F9L60
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 6
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:38:08 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:38:08 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	328988	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1226452	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	689453	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1153612	20.00 ug/ml
73) Chrysene-d12	15.83	240	1118716	20.00 ug/ml
81) Perylene-d12	18.26	264	1082617	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	638380	27.826ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	281436	20.035ug/mL
7) 2-Chlorophenol-d4	4.75	132	583380	25.899ug/ml
13) 4-Methylphenol-d8	5.28	113	323541	18.114ug/mL
17) Nitrobenzene-d5	5.51	128	259464	25.215ug/ml
21) 2-Nitrophenol-d4	5.87	143	315306	27.496ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	483346	28.772ug/mL
28) 4-Chloroaniline-d4	6.43	131	79376	4.356ug/mL
42) Dimethylphthalate-d6	8.53	166	1462634	34.883ug/mL
45) Acenaphthylene-d8	8.76	160	1658182	29.633ug/mL
50) 4-Nitrophenol-d4	9.21	143	292637	32.774ug/mL
57) Fluorene-d10	9.92	176	1203466	33.045ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	188160	24.831ug/mL
69) Anthracene-d10	11.76	188	1923561	32.963ug/mL
75) Pyrene-d10	14.16	212	1720197	33.822ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1630432	33.201ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:38:08 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

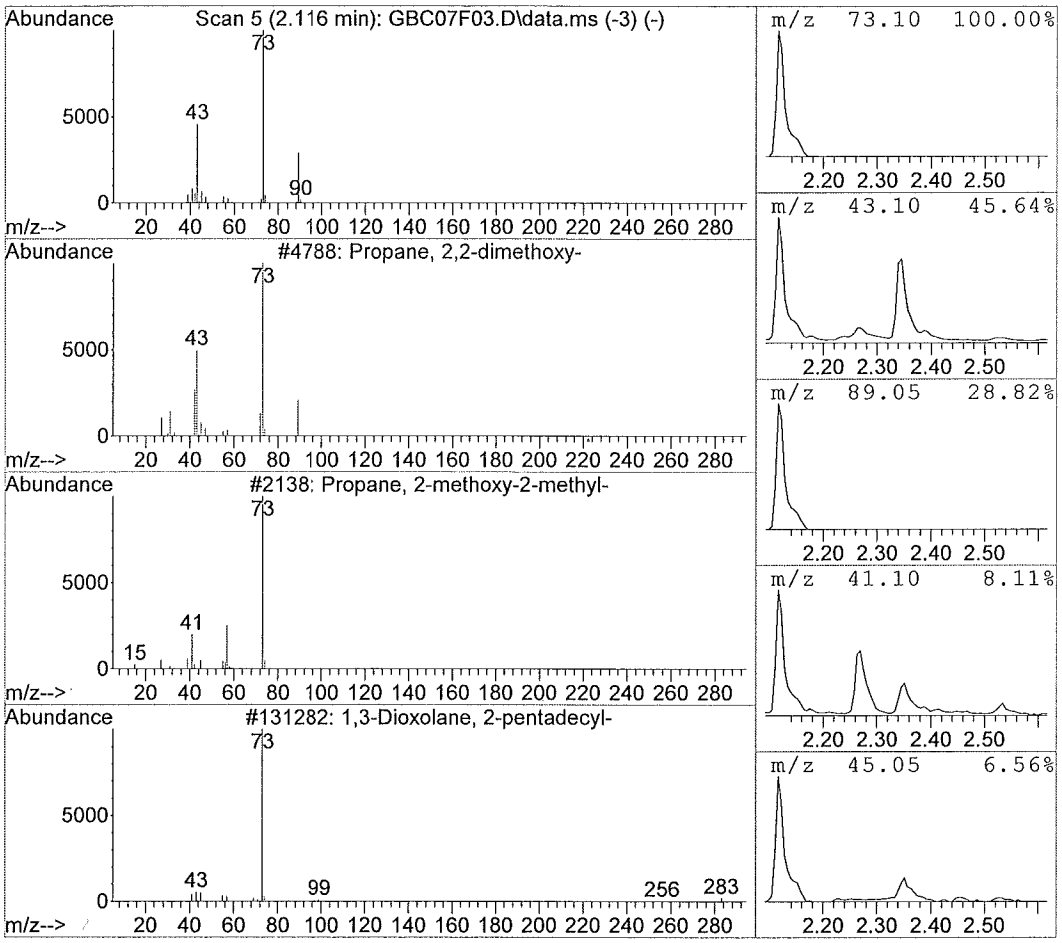
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	5.68 ug/ml	518285	1,4-Dichlorobenzene-d4	1824807

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	38.00
2	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
3	1,3-Dioxolane, 2-pentadecyl-	131282	004360-57-0	9.00
4	Pentane, 3-methoxy-	4436	036839-67-5	9.00
5	1-Hexen-4-ol, 1-chloro-3,5-dimethyl	32642	100244-09-5	9.00



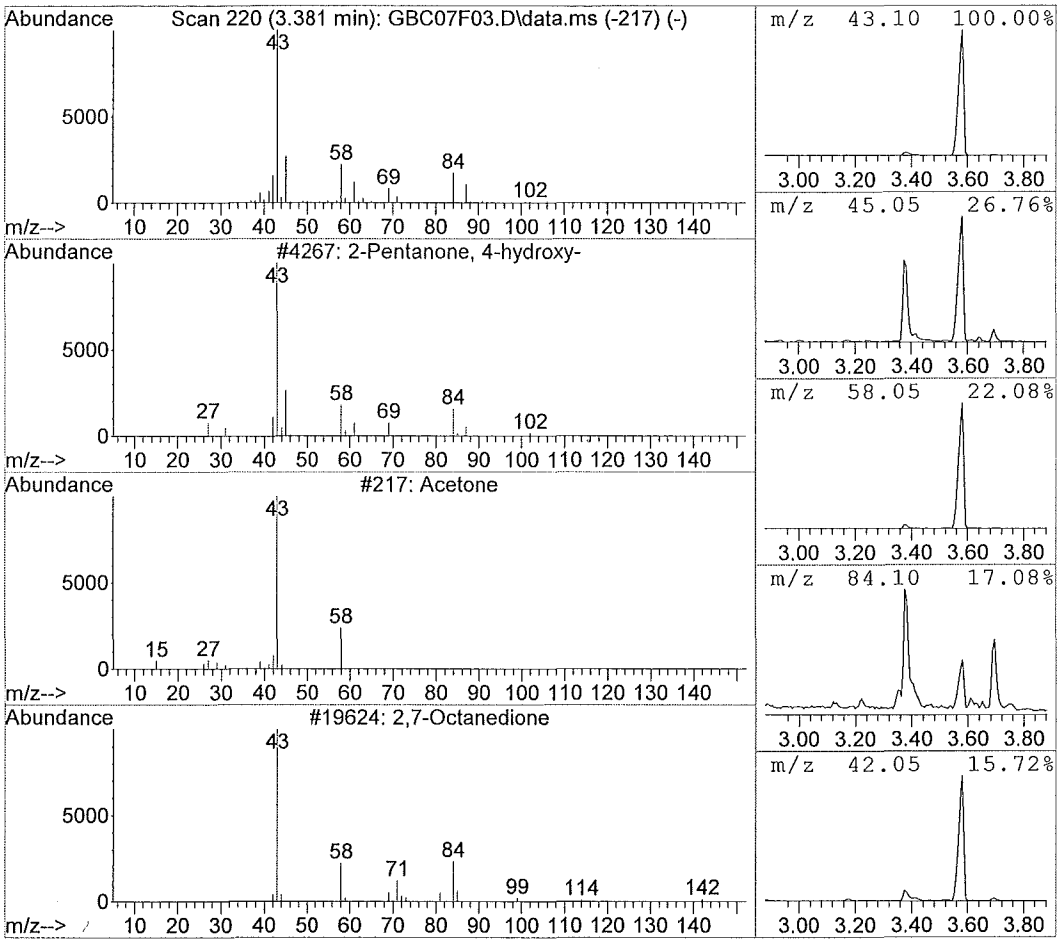
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	2.72 ug/ml	248199	1,4-Dichlorobenzene-d4	1824807

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	38.00
2	Acetone	217	000067-64-1	35.00
3	2,7-Octanedione	19624	001626-09-1	25.00
4	2,4-Diacetoxypentane	52047	007371-86-0	23.00
5	2-Hexanol, acetate	20845	005953-49-1	23.00



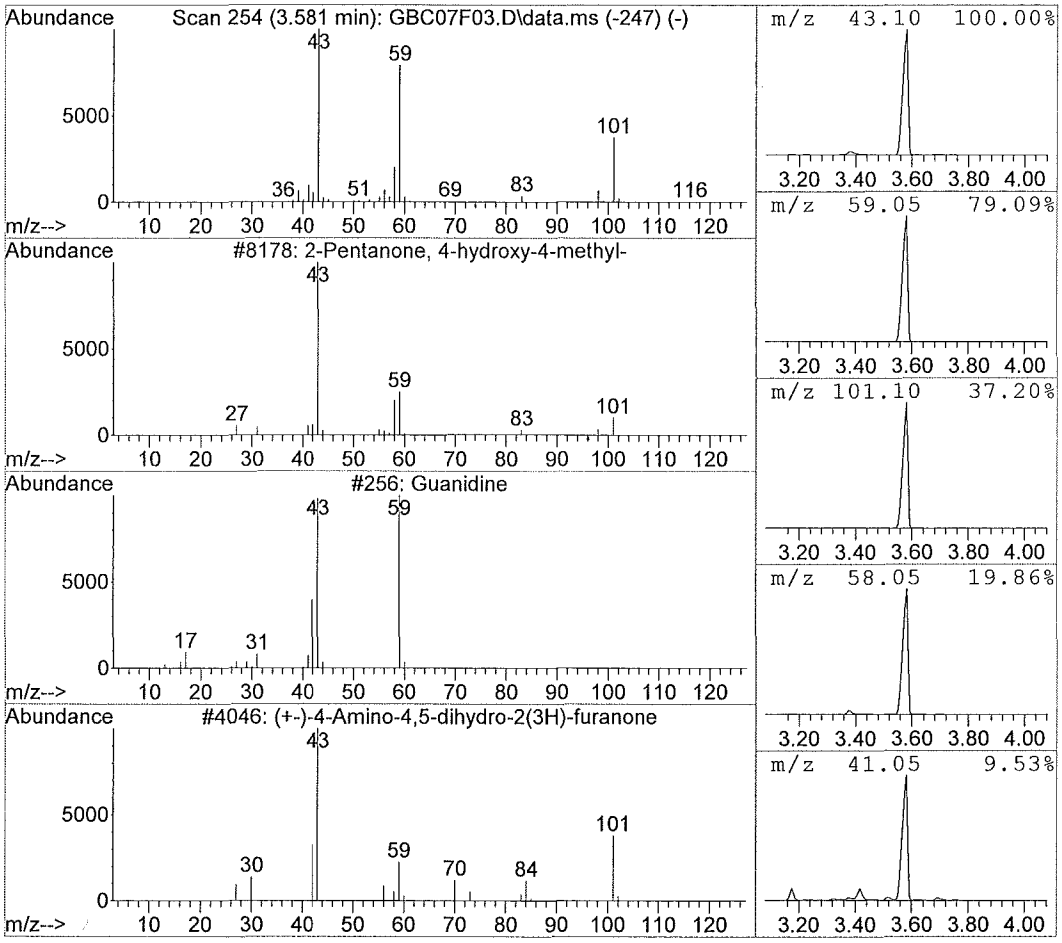
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.58	107.62 ug/ml	9819079	1,4-Dichlorobenzene-d4	1824807

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	64.00
2	Guanidine	256	000113-00-8	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Propanamide, N-ethyl-	4082	005129-72-6	9.00



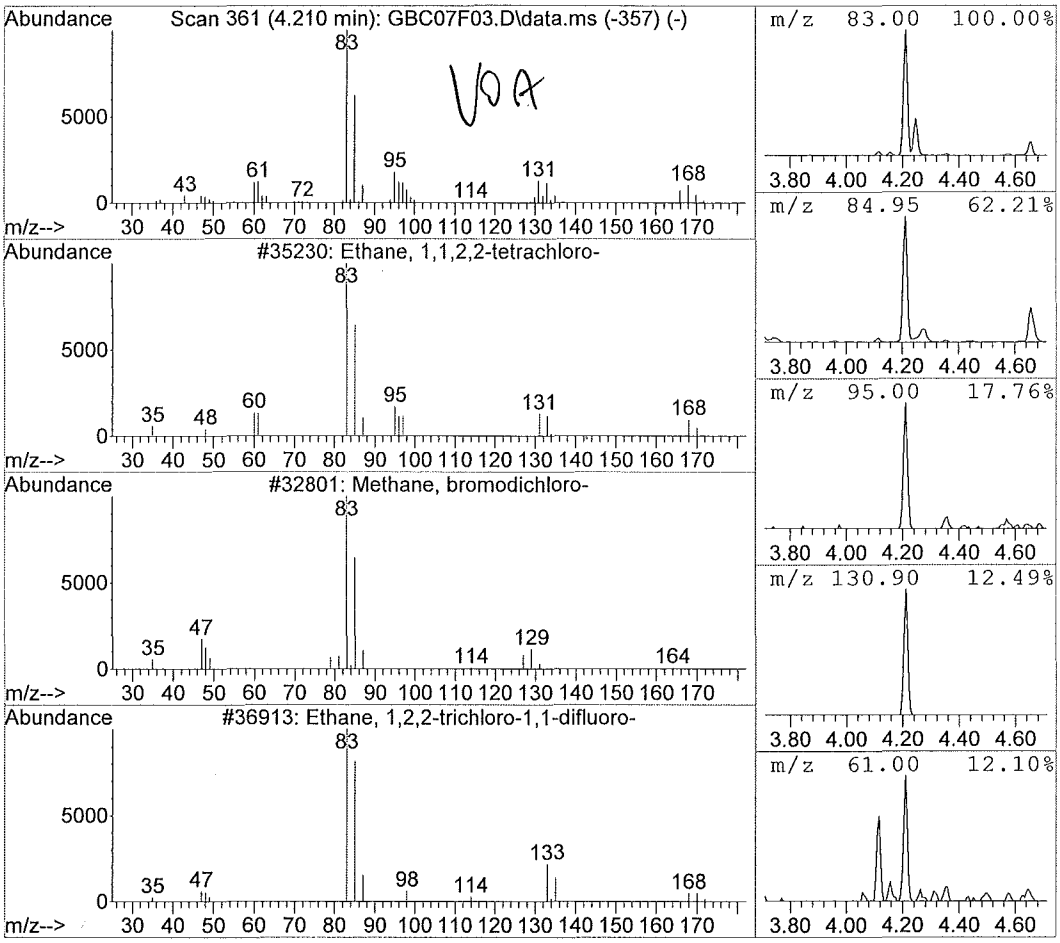
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.57 ug/ml	234111	1,4-Dichlorobenzene-d4	1824807

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	97.00
2	Methane, bromodichloro-	32801	000075-27-4	50.00
3	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	49.00
4	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	45.00
5	Methane, oxybis[dichloro-	47352	020524-86-1	40.00



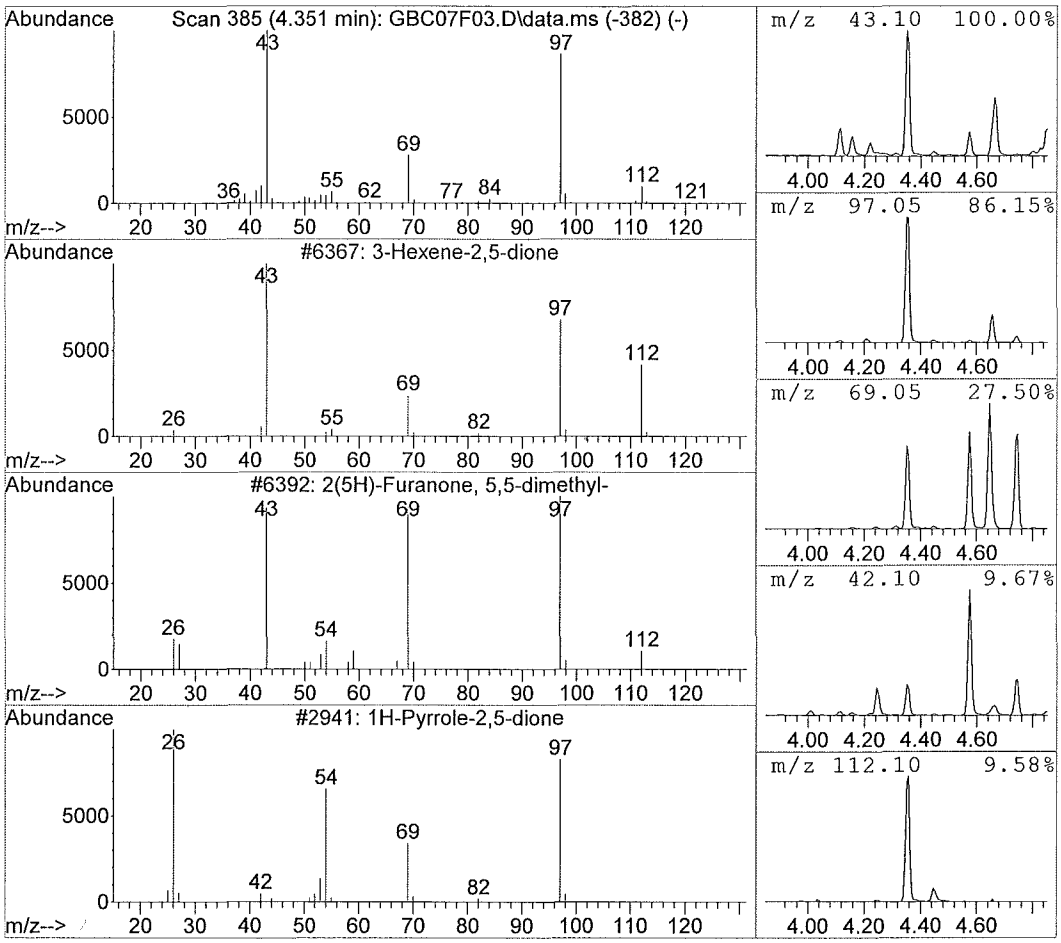
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	7.65 ug/ml	697742	1,4-Dichlorobenzene-d4	1824807

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	78.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
3	1H-Pyrrole-2,5-dione	2941	000541-59-3	40.00
4	2-Cyclohexen-1-ol, 1-methyl-	6571	023758-27-2	40.00
5	Sulfurous acid, butyl cyclohexylmet	88702	1000309-21-4	33.00

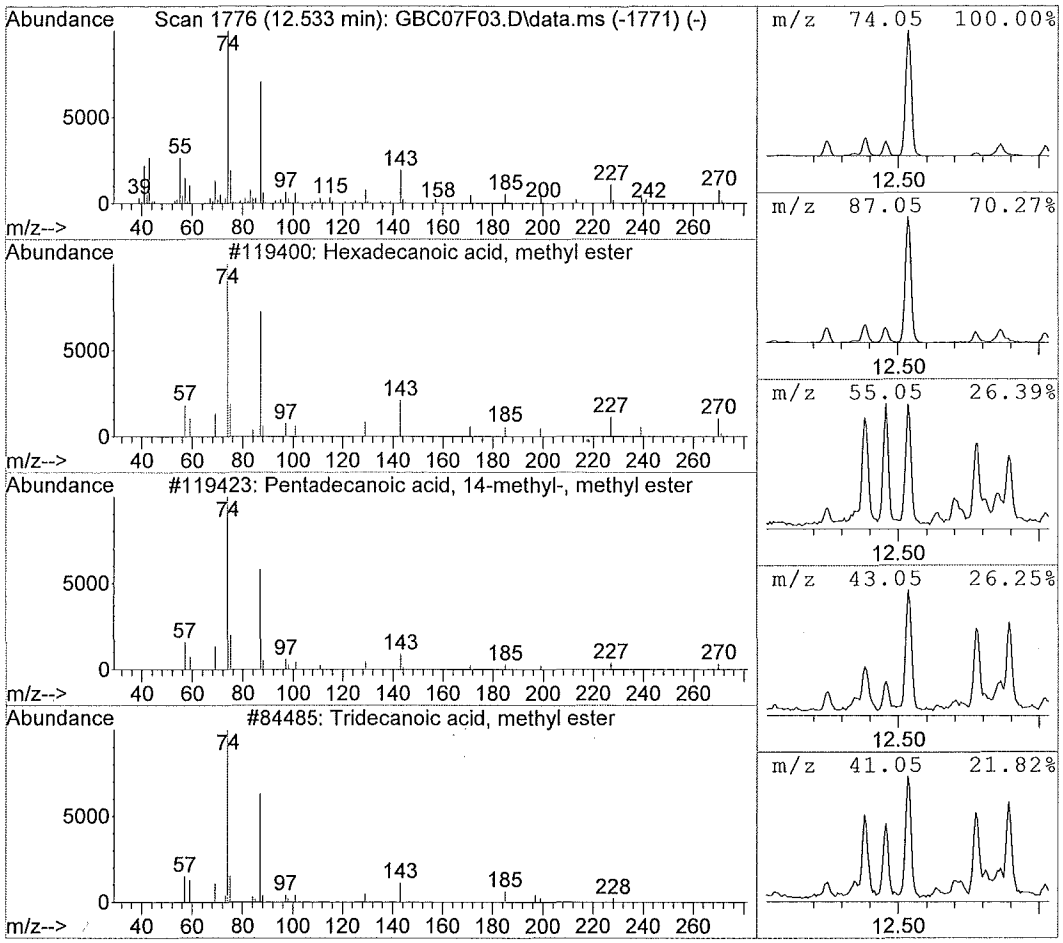


Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.53	2.43 ug/ml	357082	Phenanthrene-d10	2933252

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119400	000112-39-0	99.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	96.00
3	Tridecanoic acid, methyl ester	84485	001731-88-0	90.00
4	Methyl tetradecanoate	95861	000124-10-7	81.00
5	Pentadecanoic acid, methyl ester	107593	007132-64-1	80.00

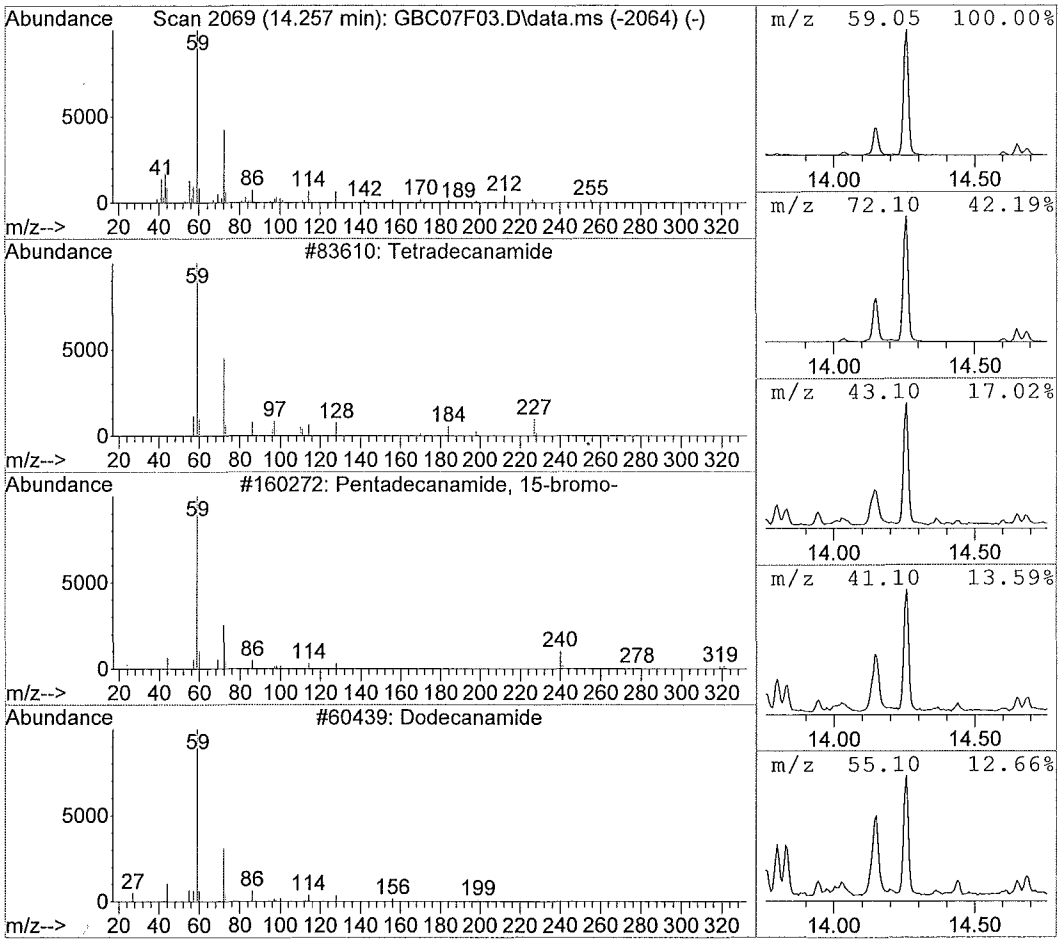


Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	5.15 ug/ml	854088	Chrysene-d12	3314871

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	87.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Nonanamide	29478	001120-07-6	56.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	56.00



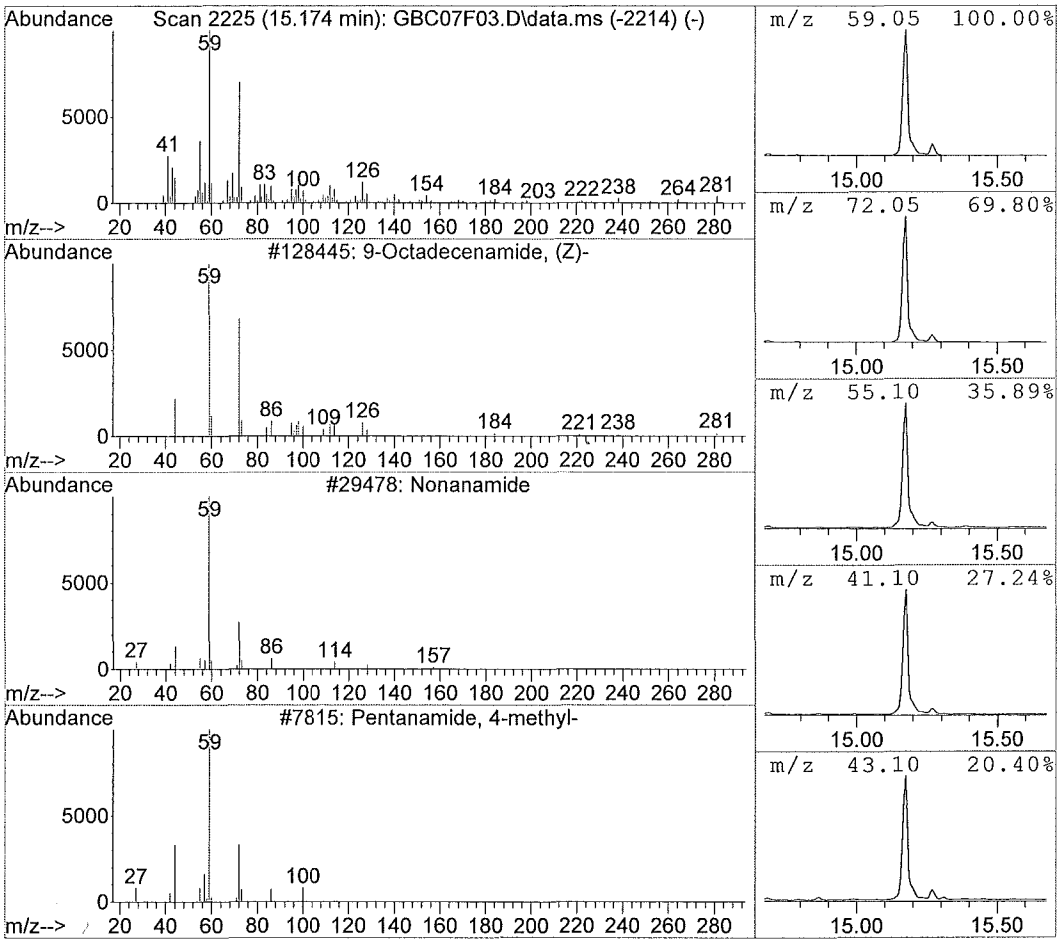
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	41.31 ug/ml	6847437	Chrysene-d12	3314871

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Nonanamide	29478	001120-07-6	50.00
3	Pentanamide, 4-methyl-	7815	001119-29-5	50.00
4	Dodecanamide	60440	001120-16-7	42.00
5	Butanamide, 3-methyl-	4085	000541-46-8	38.00



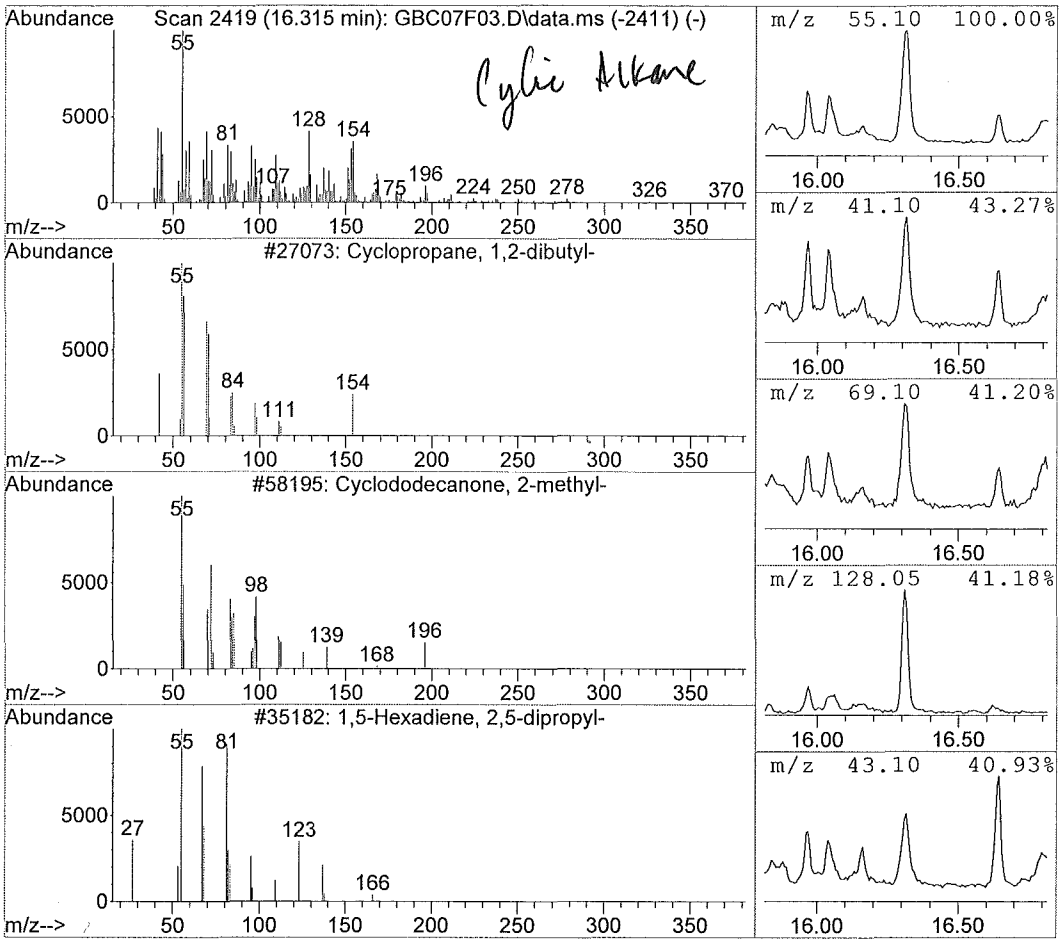
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.32	4.26 ug/ml	705609	Chrysene-d12	3314871

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclopropane, 1,2-dibutyl-	27073	041977-32-6	11.00
2	Cyclododecanone, 2-methyl-	58195	016837-94-8	11.00
3	1,5-Hexadiene, 2,5-dipropyl-	35182	1000158-33-4	11.00
4	E,E,Z-1,3,12-Nonadecatriene-5,14-di	139697	1000131-11-4	10.00
5	2-(4-Nitrobutyryl)cyclooctanone	94695	079630-93-6	10.00

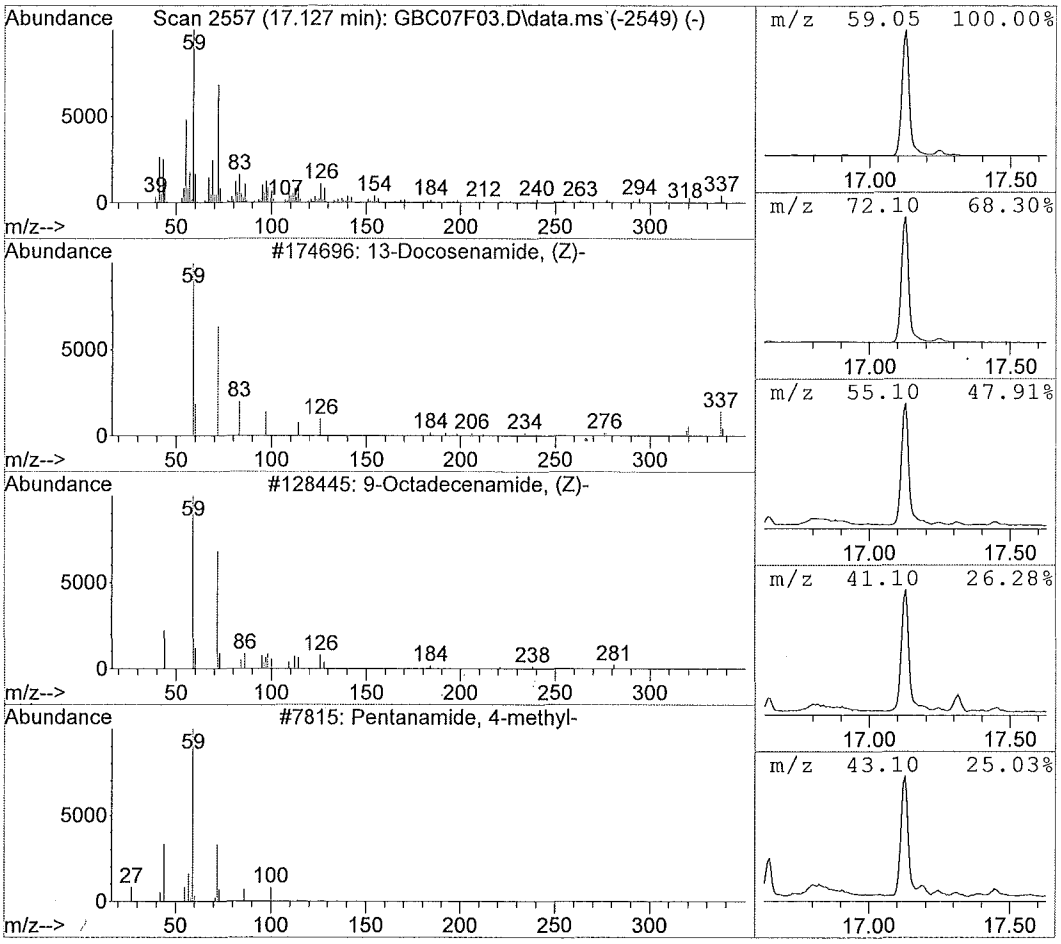


Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.13	17.11 ug/ml	2863477	Perylene-d12	3346513

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	95.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
3	Pentanamide, 4-methyl-	7815	001119-29-5	53.00
4	Dodecanamide	60440	001120-16-7	50.00
5	2-Hydroxy-2-methylundec-5-en-3-one	59566	1000191-46-2	35.00



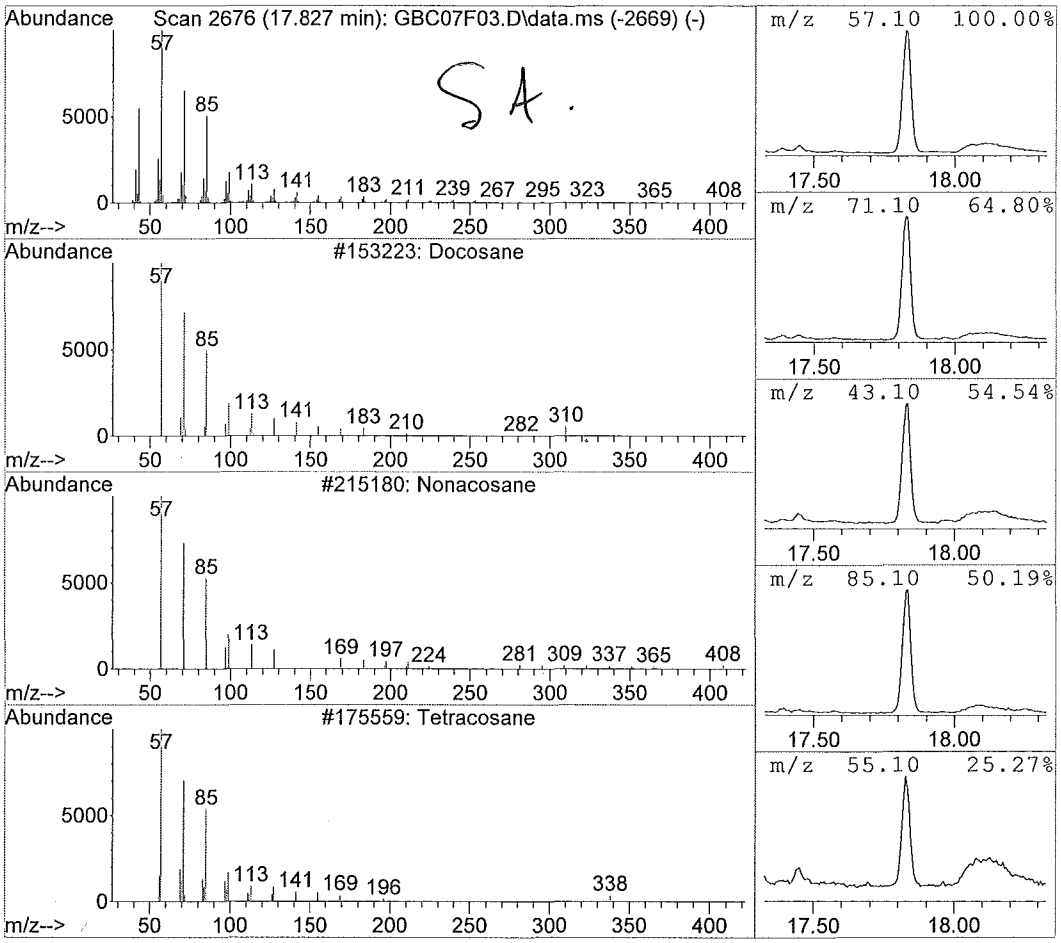
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.83	5.64 ug/ml	943501	Perylene-d12	3346513

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Docosane	153223	000629-97-0	98.00
2	Nonacosane	215180	000630-03-5	96.00
3	Tetracosane	175559	000646-31-1	94.00
4	Hexacosane	194493	000630-01-3	93.00
5	Heptadecane, 9-hexyl-	164584	055124-79-3	93.00

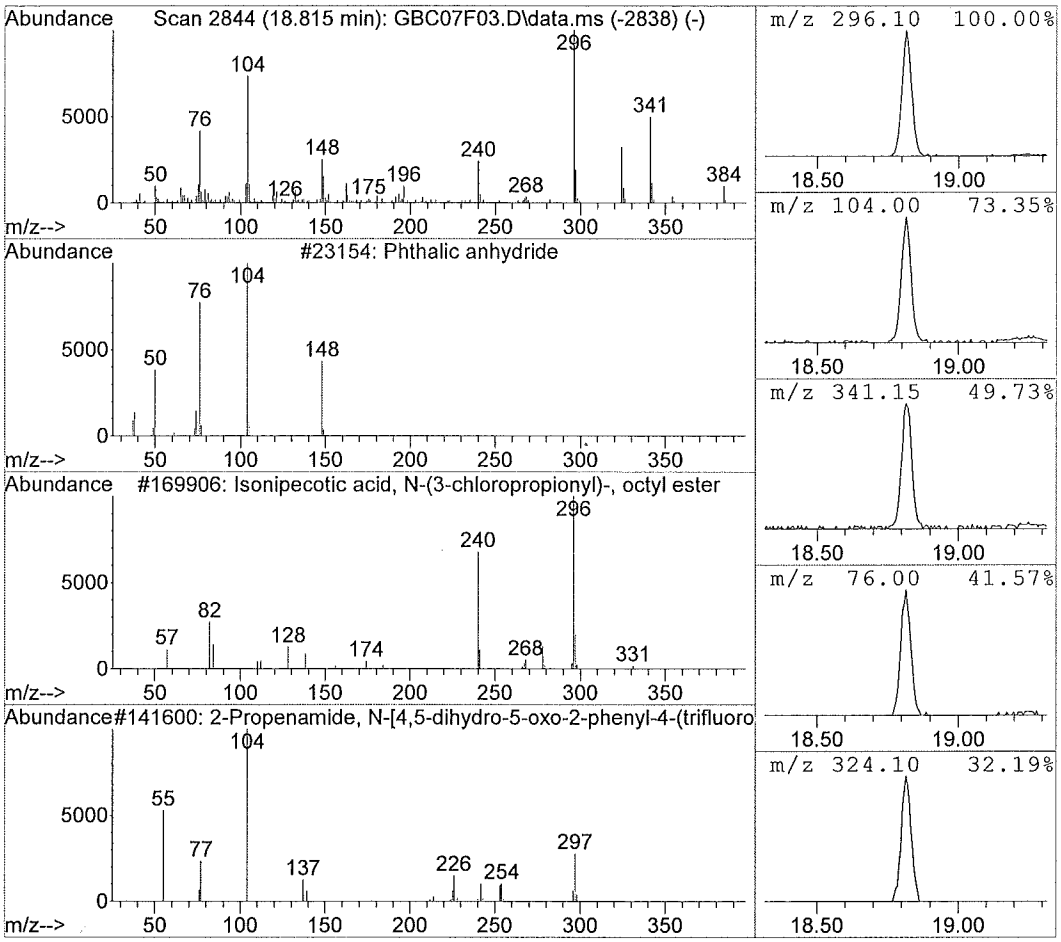


Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.82	2.15 ug/ml	359222	Perylene-d12	3346513

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	22.00
2	Isonipecotic acid, N-(3-chloropropi	169906	1000360-94-7	22.00
3	2-Propenamide, N-[4,5-dihydro-5-oxo	141600	1000350-88-9	14.00
4	1-Octadecanamine, N-(2-methoxypropy	187433	1000196-18-5	14.00
5	Benzene, 1,1'-(1,2-diethyl-1,2-ethe	141365	007773-34-4	14.00



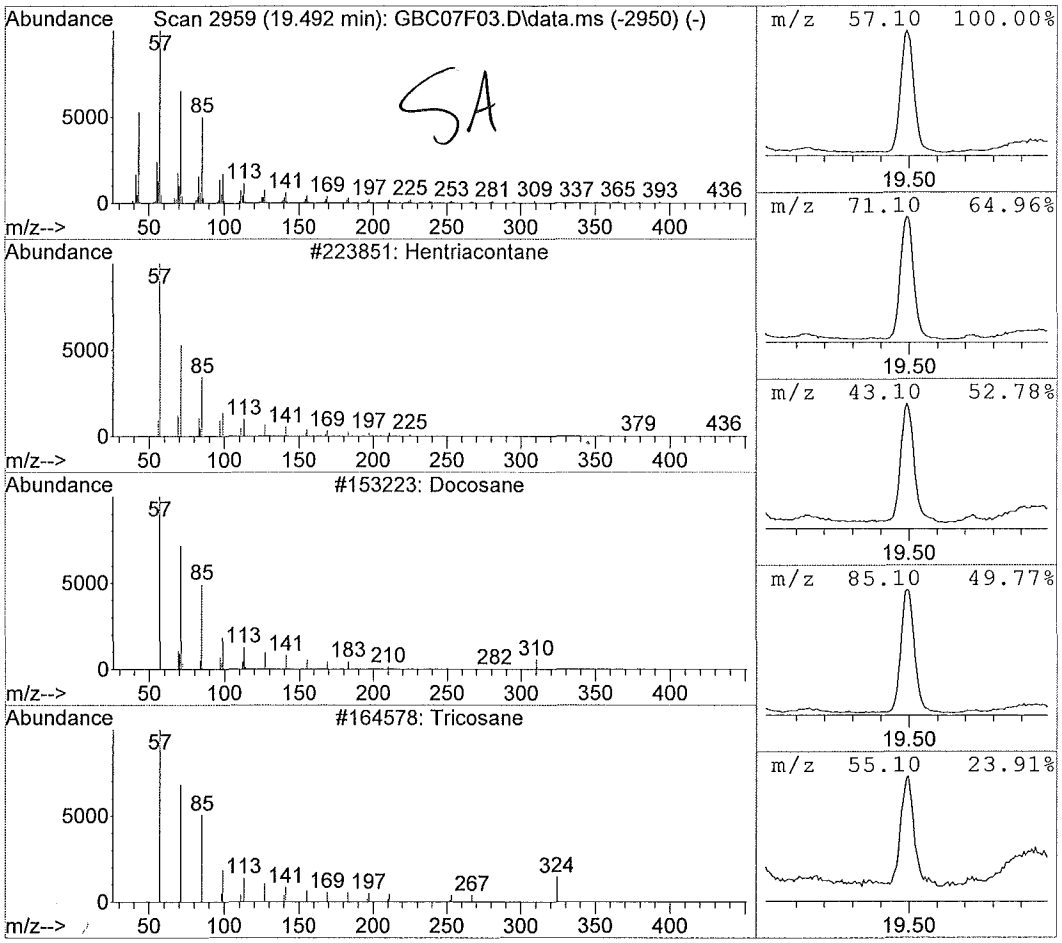
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.49	6.16 ug/ml	1030916	Perylene-d12	3346513

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hentriacontane	223851	000630-04-6	98.00
2	Docosane	153223	000629-97-0	98.00
3	Tricosane	164578	000638-67-5	97.00
4	Hexacosane	194493	000630-01-3	93.00
5	Tetratetracontane	241528	007098-22-8	91.00

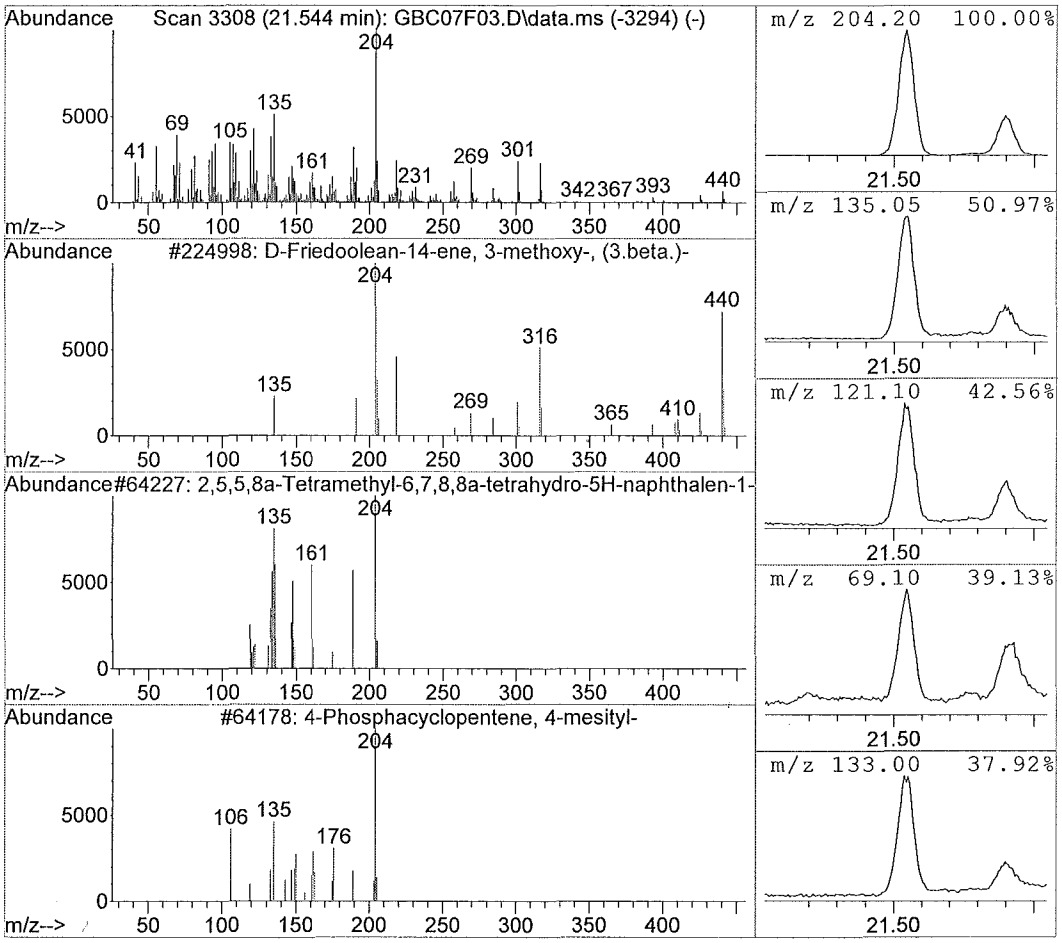


Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.54	18.37 ug/ml	3073763	Perylene-d12	3346513

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D-Friedoolean-14-ene, 3-methoxy-, (	224998	014021-23-9	55.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	45.00
3	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
4	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	43.00
5	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	38.00



Library Search Compound Report

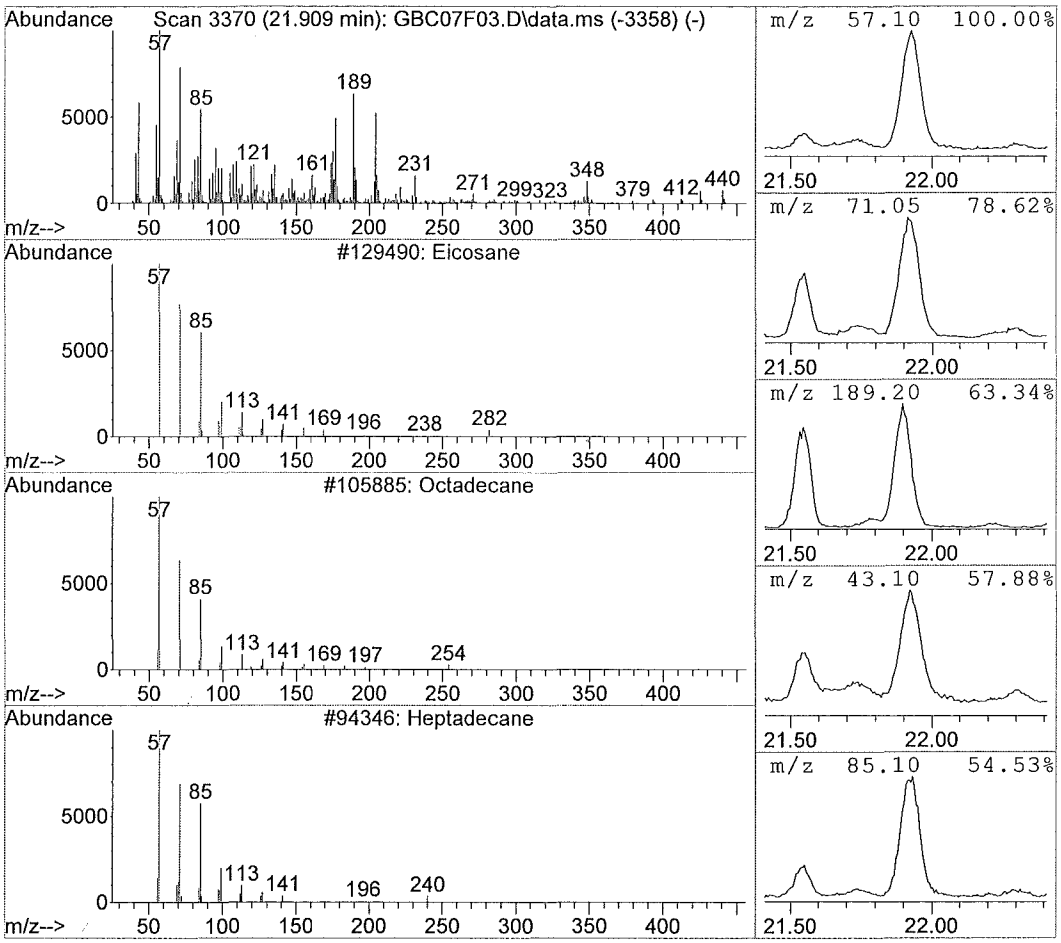
Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.91	14.00 ug/ml	2342090	Perylene-d12	3346513

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	129490	000112-95-8	94.00
2	Octadecane	105885	000593-45-3	93.00
3	Heptadecane	94346	000629-78-7	86.00
4	Nonadecane	117638	000629-92-5	86.00
5	Hexadecane	83023	000544-76-3	83.00

SA

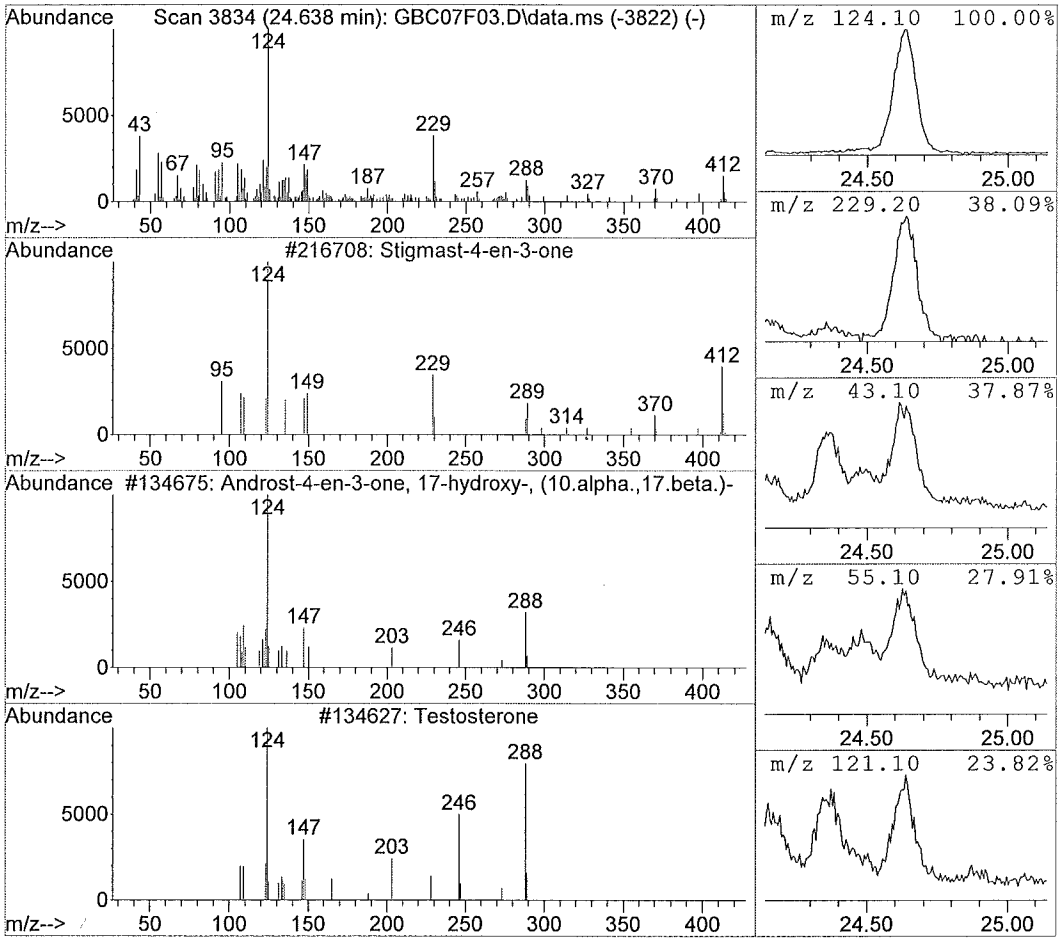


Data File : Z:\G\2015\JUN15\02JUN15\GBC07F03.D Vial: 6
Acq On : 06/02/2015 16:42 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.64	4.12 ug/ml	689882	Perylene-d12	3346513

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	90.00
2	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	55.00
3	Testosterone	134627	000058-22-0	55.00
4	Testosterone cypionate	216680	000058-20-8	45.00
5	Pyrazine, 2-methoxy-3-methyl-	10350	002847-30-5	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L61

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293004

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC08F04

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L61

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293004

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC08F04

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L61

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293004
Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC08F04
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 16. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015
GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.12	410	JB
02	625-86-5	Furan, 2,5-dimethyl-	2.49	110	JN
03		Unknown 2-Pentanone, 4-hydroxy-	3.38	130	J
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.58	4400	J
05		Unknown 3-Hexene-2,5-dione	4.35	160	JB
06	638-58-4	Tetradecanamide	14.26	220	JN
07	301-02-0	9-Octadecenamide, (Z)-	15.17	1800	JNB
08		Unknown 9-Octadecenamide,.(Z)-	15.97	100	JB
09	112-84-5	13-Docosenamide, (Z)-	17.13	800	JN
10		Unknown 1,2-Benzenedicarboxylic acid	18.82	280	J
11		Unknown D-Friedoolean-14-ene, 3-methoxy-, (3.bet	21.54	2000	J
12		Unknown Heptamethyl-3-phenyl-1,4-cyclohexadiene	21.73	91.	J
13		Unknown 1H-Cycloprop[e]azulene, 1a,2,3,4,4a,5,6,	21.89	360	J
14		Unknown 3-(2-Isopropyl-5-methylphenyl)-2-methyl-	22.21	160	J
15		Unknown Sesquirosefuran	23.22	100	J
16		Unknown 2,6-Bis(4-nitro-phenylthio)pyridine	23.69	460	J
17		Unknown D:C-Friedo-B':A'-neogammacer-9(11)-ene,	24.16	280	J
18		Unknown 9,11-Epoxytestosterone acetate	24.36	130	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	160	J

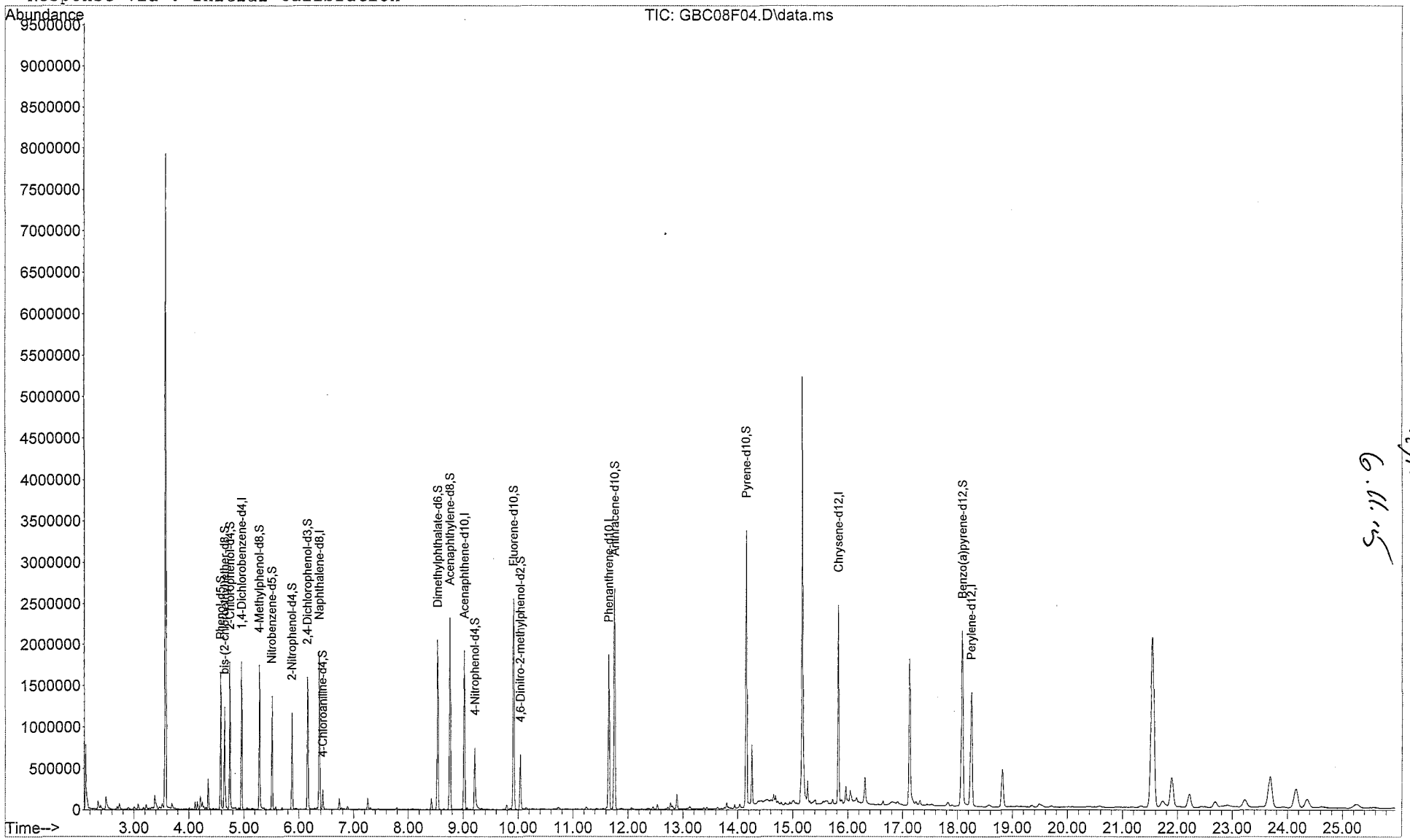
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 14:38:42 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:38:42 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	304655	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1158846	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	663786	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1104057	20.00 ug/ml
73) Chrysene-d12	15.83	240	1079683	20.00 ug/ml
81) Perylene-d12	18.25	264	1058588	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	599629	28.225ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	280608	21.571ug/mL
7) 2-Chlorophenol-d4	4.75	132	566323	27.150ug/ml
13) 4-Methylphenol-d8	5.28	113	444851	26.895ug/mL
17) Nitrobenzene-d5	5.51	128	253110	26.033ug/ml
21) 2-Nitrophenol-d4	5.87	143	304146	28.070ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	450283	28.368ug/mL
28) 4-Chloroaniline-d4	6.43	131	102465	5.951ug/mL
42) Dimethylphthalate-d6	8.53	166	1293934	32.053ug/mL
45) Acenaphthylene-d8	8.76	160	1541532	28.613ug/mL
50) 4-Nitrophenol-d4	9.21	143	251226	29.224ug/mL
57) Fluorene-d10	9.92	176	1068968	30.487ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	161970	22.334ug/mL
69) Anthracene-d10	11.76	188	1748967	31.316ug/mL
75) Pyrene-d10	14.16	212	1566820	31.920ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1522350	31.704ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:38:42 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

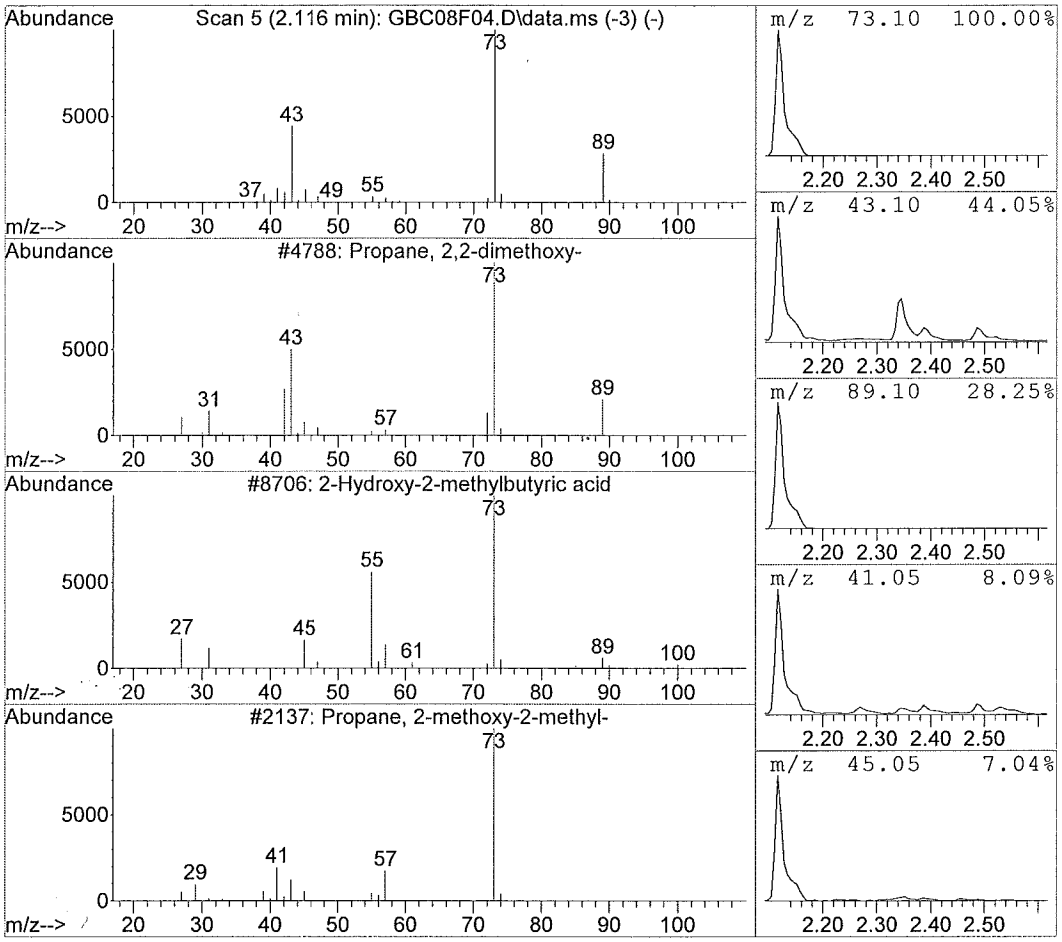
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	10.36 ug/ml	892285	1,4-Dichlorobenzene-d4	1723063

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	36.00
2	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00
3	Propane, 2-methoxy-2-methyl-	2137	001634-04-4	9.00
4	Pentane, 3-methoxy-	4436	036839-67-5	9.00
5	Methane, isothiocyanato-	716	000556-61-6	7.00

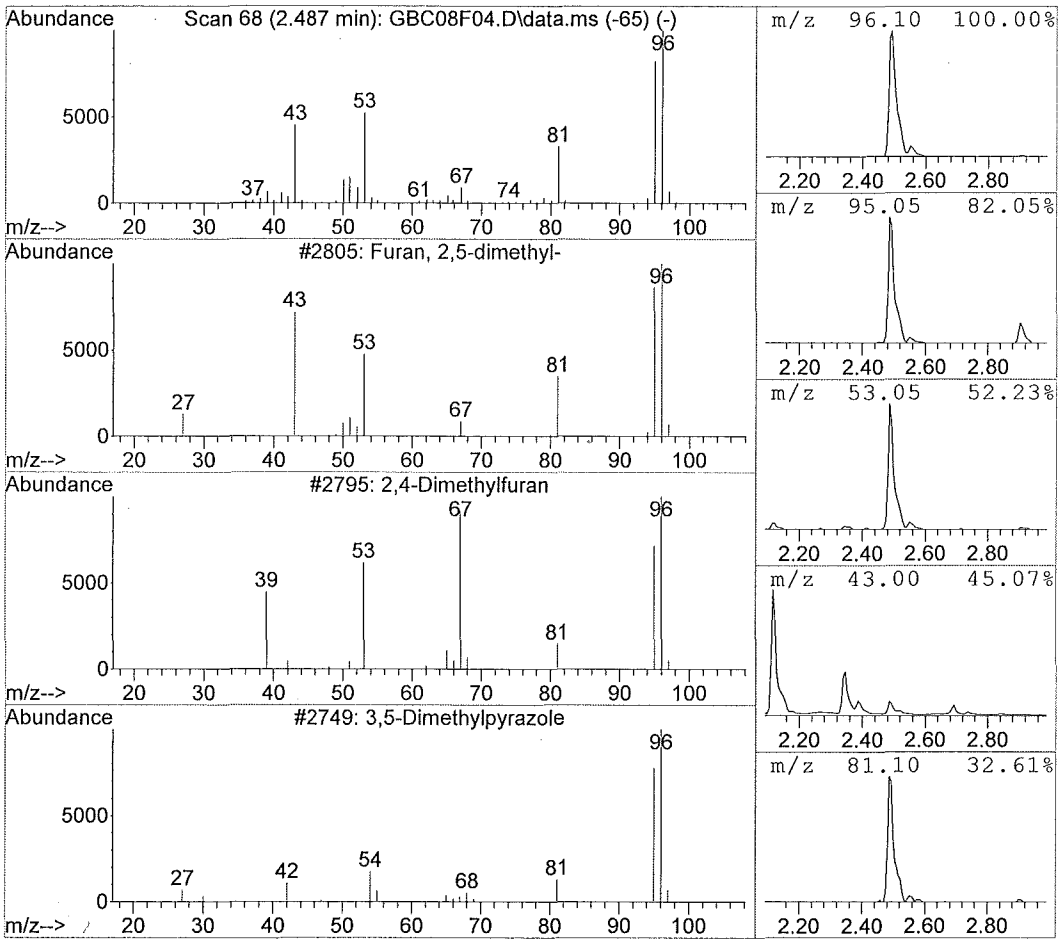


Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.49	2.73 ug/ml	235407	1,4-Dichlorobenzene-d4	1723063

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2805	000625-86-5	94.00
2	2,4-Dimethylfuran	2795	003710-43-8	43.00
3	3,5-Dimethylpyrazole	2749	000067-51-6	38.00
4	1H-Pyrazole, 1,5-dimethyl-	2760	000694-31-5	38.00
5	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	38.00

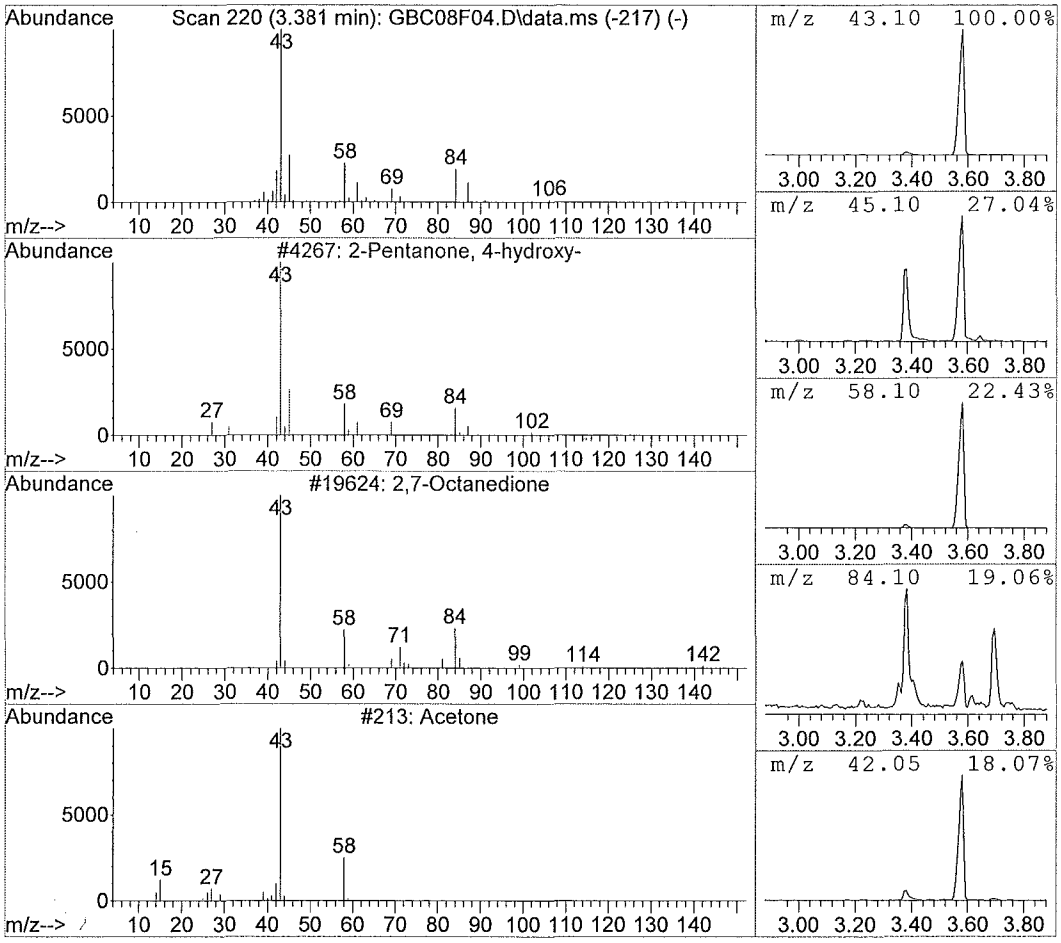


Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	3.27 ug/ml	281531	1,4-Dichlorobenzene-d4	1723063

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	64.00
2	2,7-Octanedione	19624	001626-09-1	28.00
3	Acetone	213	000067-64-1	16.00
4	Propane, 1-(1-methylethoxy)-	4493	000627-08-7	9.00
5	Isopropyl acetate	4253	000108-21-4	9.00



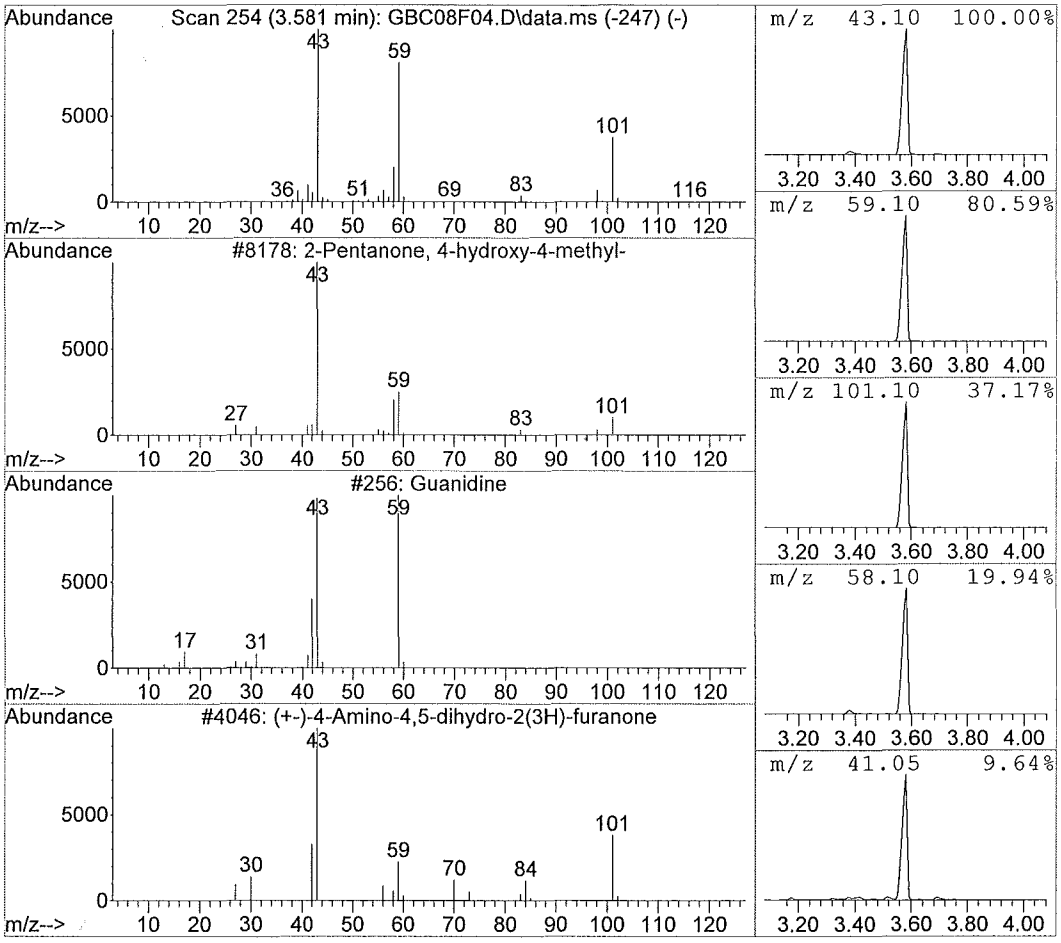
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.58	112.93 ug/ml	9729498	1,4-Dichlorobenzene-d4	1723063

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	50.00
2	Guanidine	256	000113-00-8	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Morpholine, 4-methyl-	4076	000109-02-4	9.00



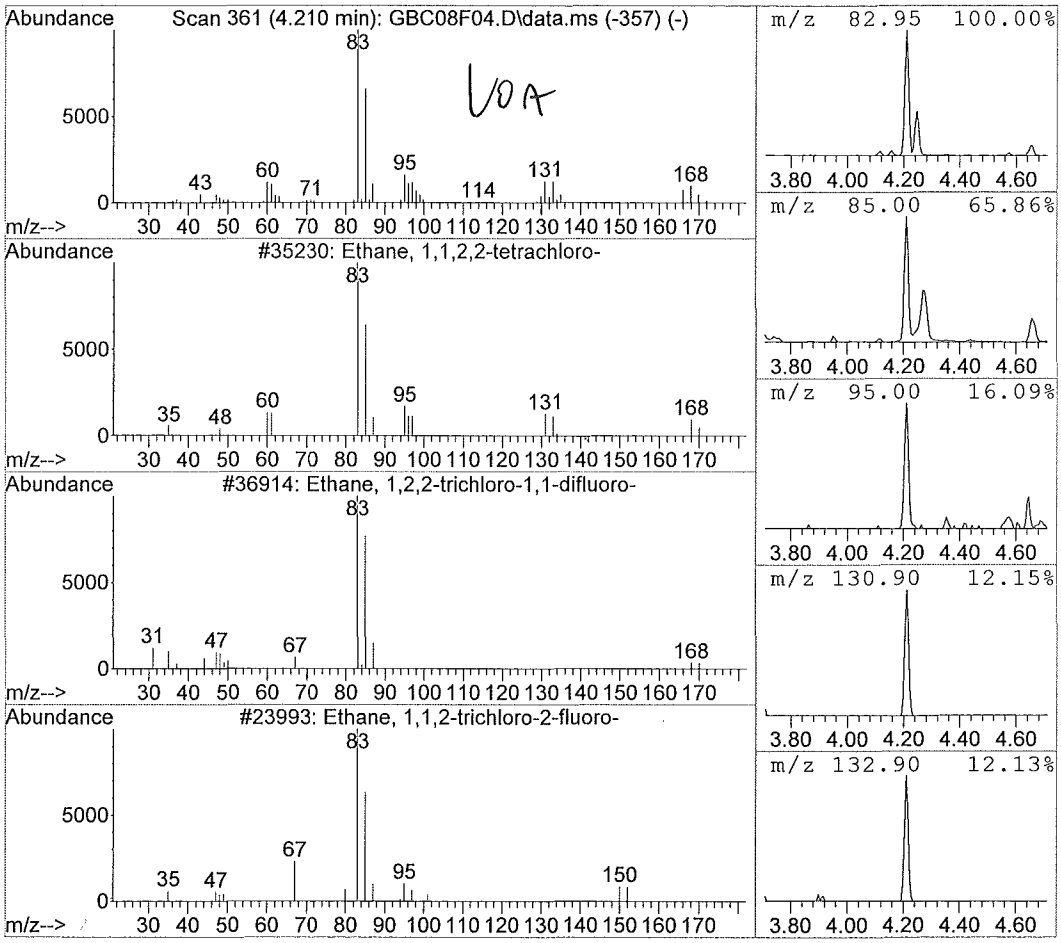
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.12 ug/ml	182438	1,4-Dichlorobenzene-d4	1723063

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	97.00
2	Ethane, 1,2,2-trichloro-1,1-difluor	36914	000354-21-2	64.00
3	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	59.00
4	Methane, bromodichloro-	32802	000075-27-4	50.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	42.00

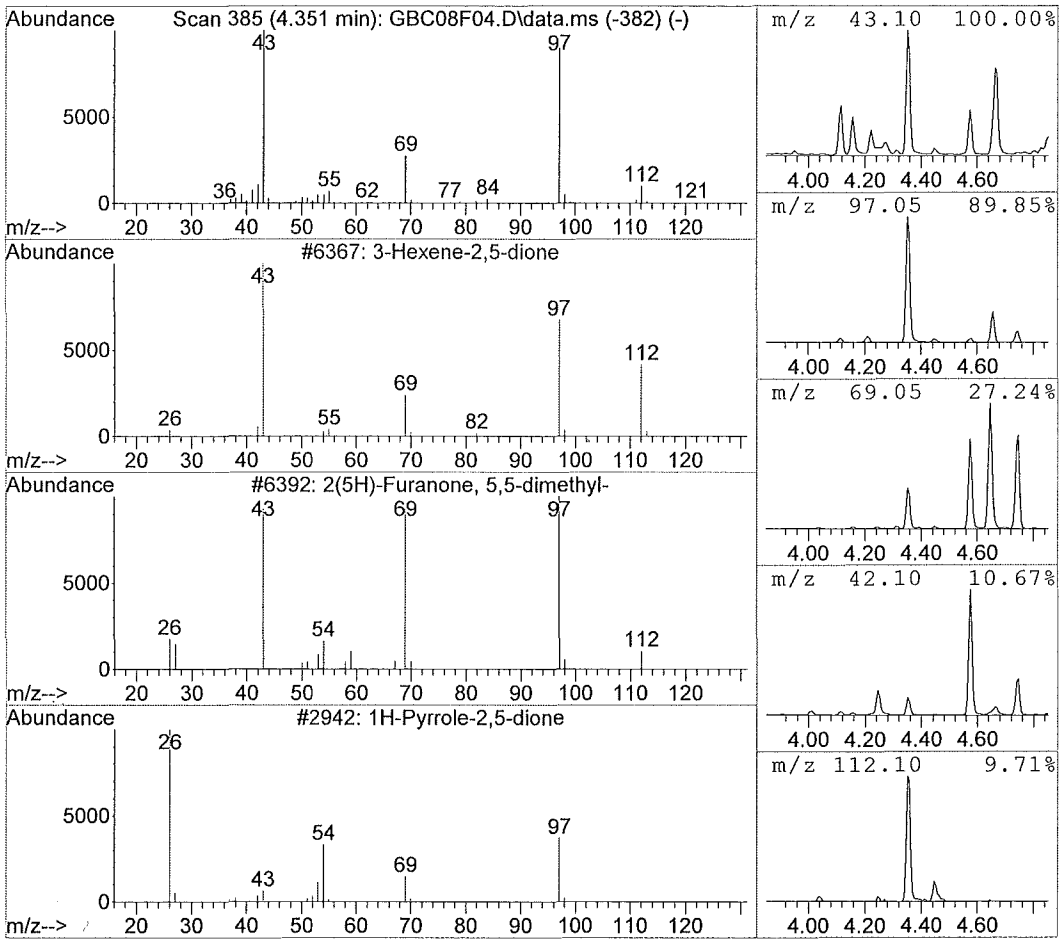


Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	4.07 ug/ml	350265	1,4-Dichlorobenzene-d4	1723063

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	78.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
3	1H-Pyrrole-2,5-dione	2942	000541-59-3	53.00
4	1-(Trimethylsilyl)-1-propyne	6338	006224-91-5	36.00
5	2-Pyrazoline, 1,4,5-trimethyl-	6304	007423-11-2	10.00



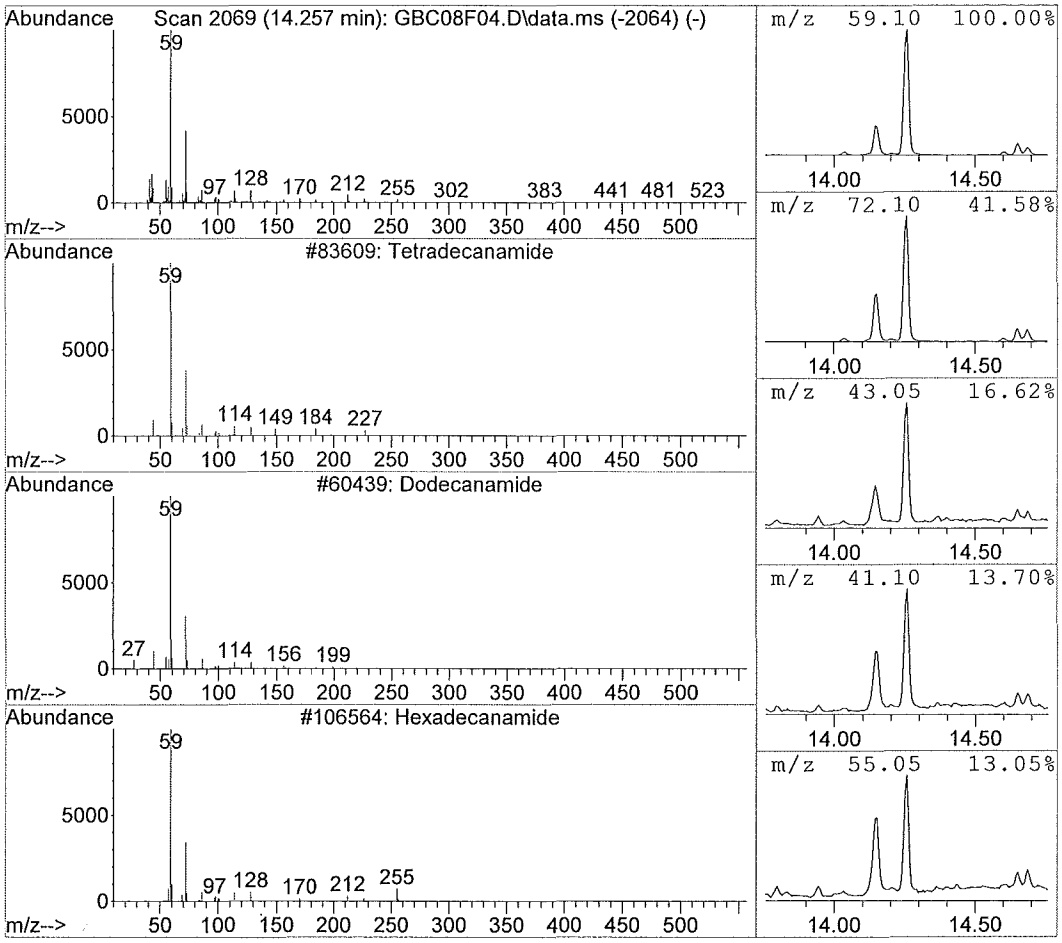
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	5.59 ug/ml	865137	Chrysene-d12	3092967

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83609	000638-58-4	86.00
2	Dodecanamide	60439	001120-16-7	78.00
3	Hexadecanamide	106564	000629-54-9	70.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	56.00

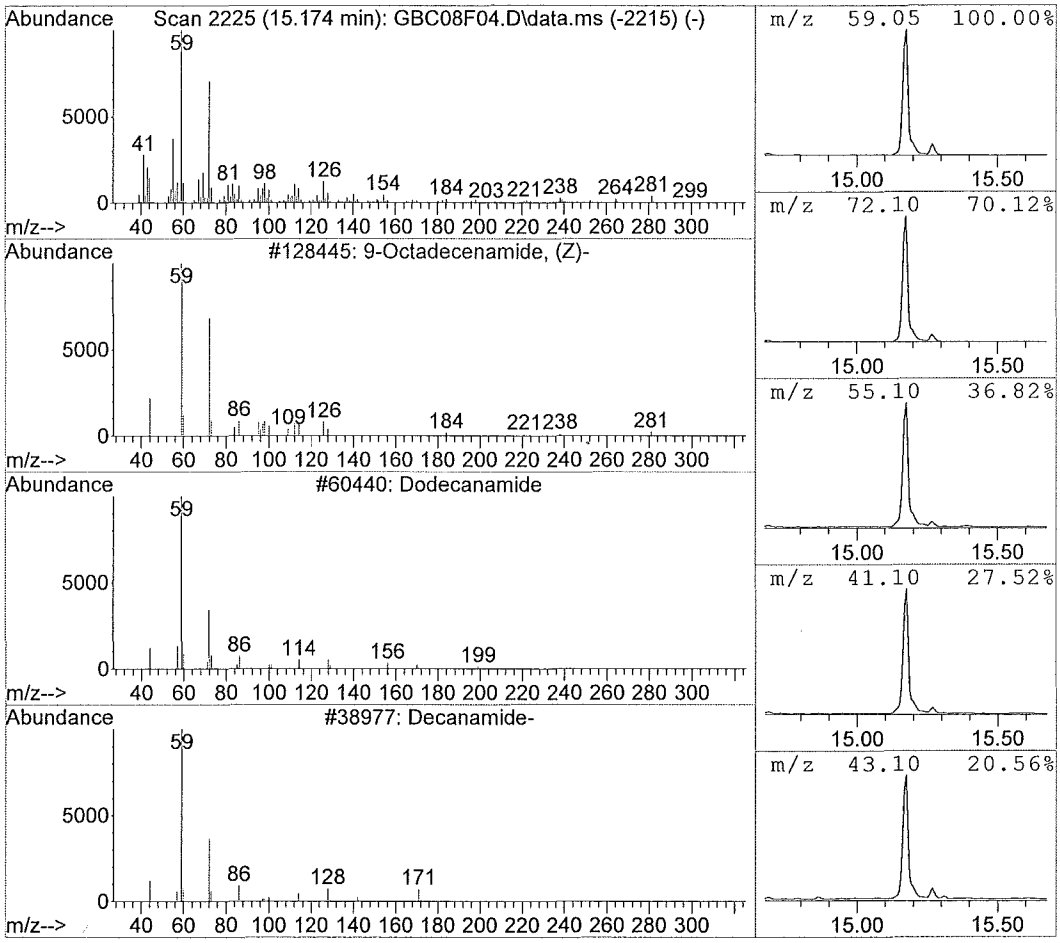


Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	46.16 ug/ml	7138565	Chrysene-d12	3092967

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	98.00
2	Dodecanamide	60440	001120-16-7	50.00
3	Decanamide-	38977	002319-29-1	50.00
4	Octanamide	20317	000629-01-6	50.00
5	Pentanamide	4064	000626-97-1	50.00



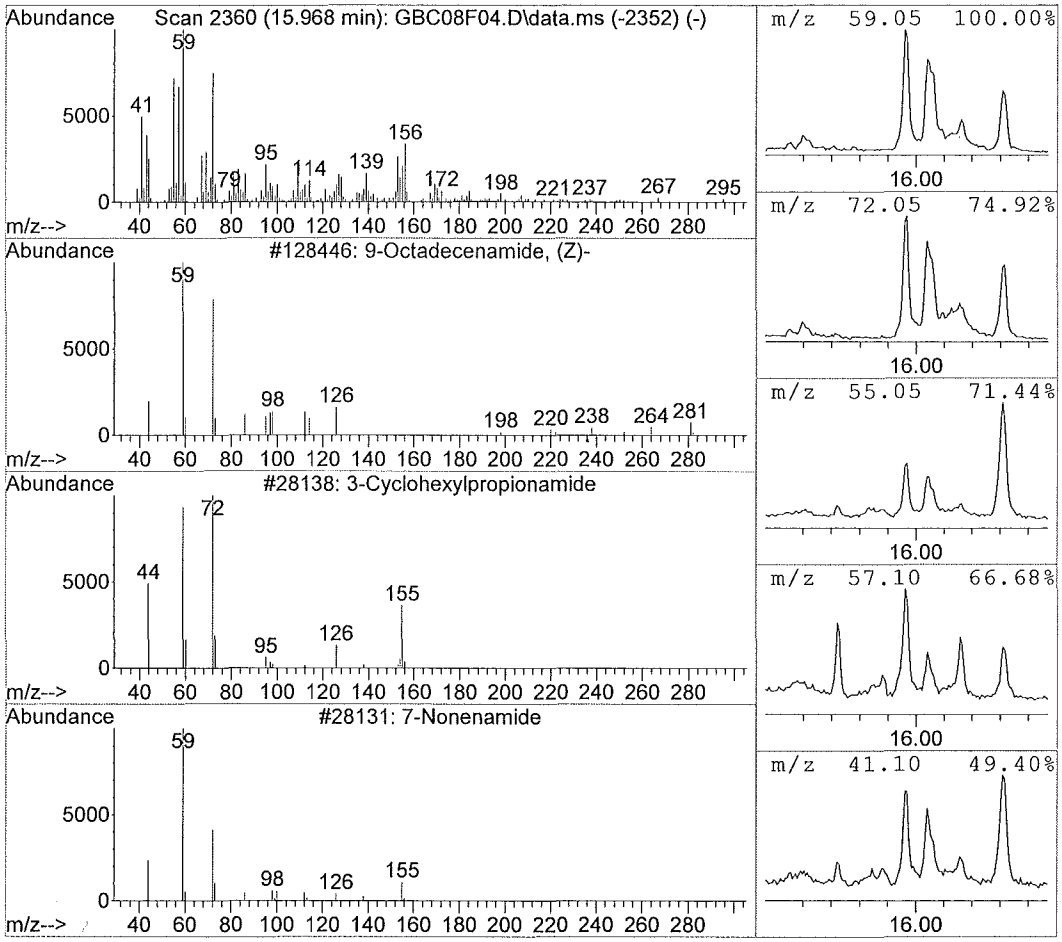
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.97	2.66 ug/ml	412003	Chrysene-d12	3092967

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128446	000301-02-0	52.00
2	3-Cyclohexylpropionamide	28138	004361-29-9	46.00
3	7-Nonenamide	28131	090949-53-4	45.00
4	Dodecanamide	60439	001120-16-7	43.00
5	Tetradecanamide	83610	000638-58-4	43.00



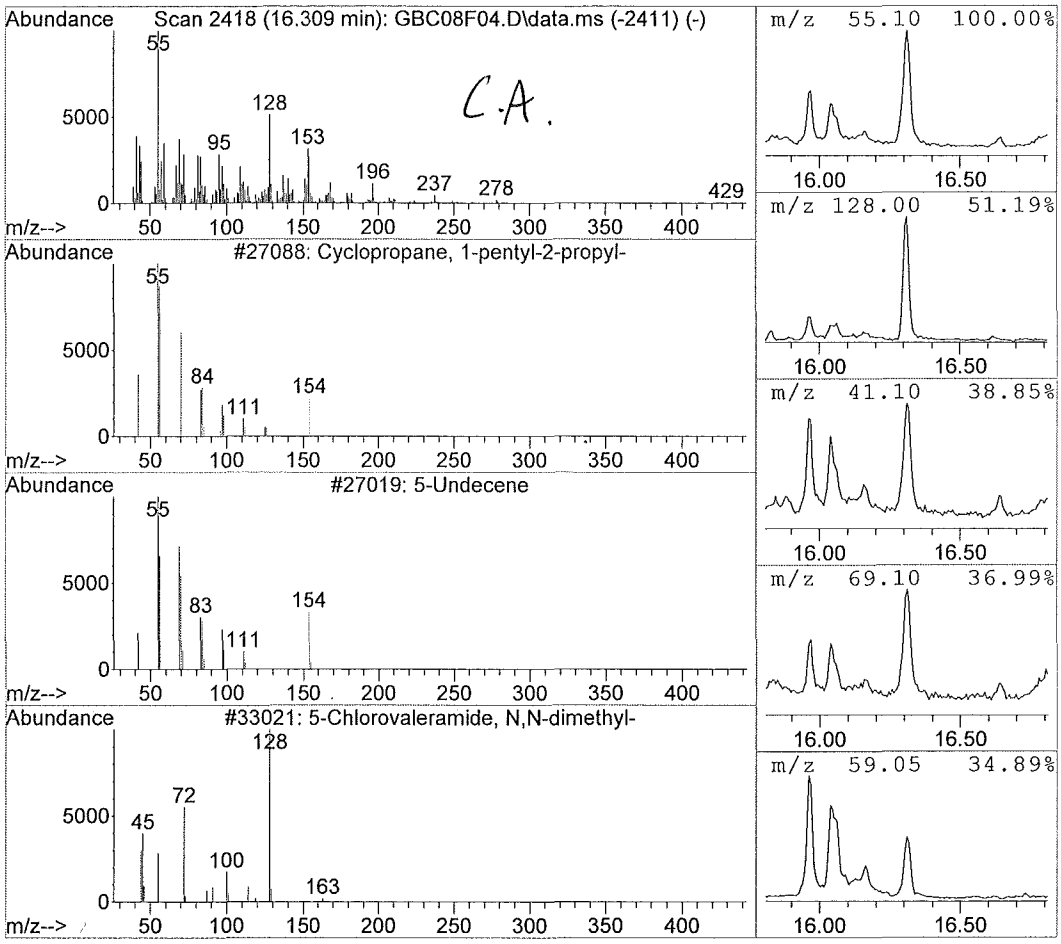
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	4.07 ug/ml	630054	Chrysene-d12	3092967

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclopropane, 1-pentyl-2-propyl-	27088	041977-33-7	25.00
2	5-Undecene	27019	004941-53-1	15.00
3	5-Chlorovaleramide, N,N-dimethyl-	33021	1000339-95-2	14.00
4	1,4-Benzenedicarbonitrile, 2-formyl	29171	164932-42-7	11.00
5	2,6-Decadienoic acid, 3-methyl-, et	69362	055283-33-5	11.00



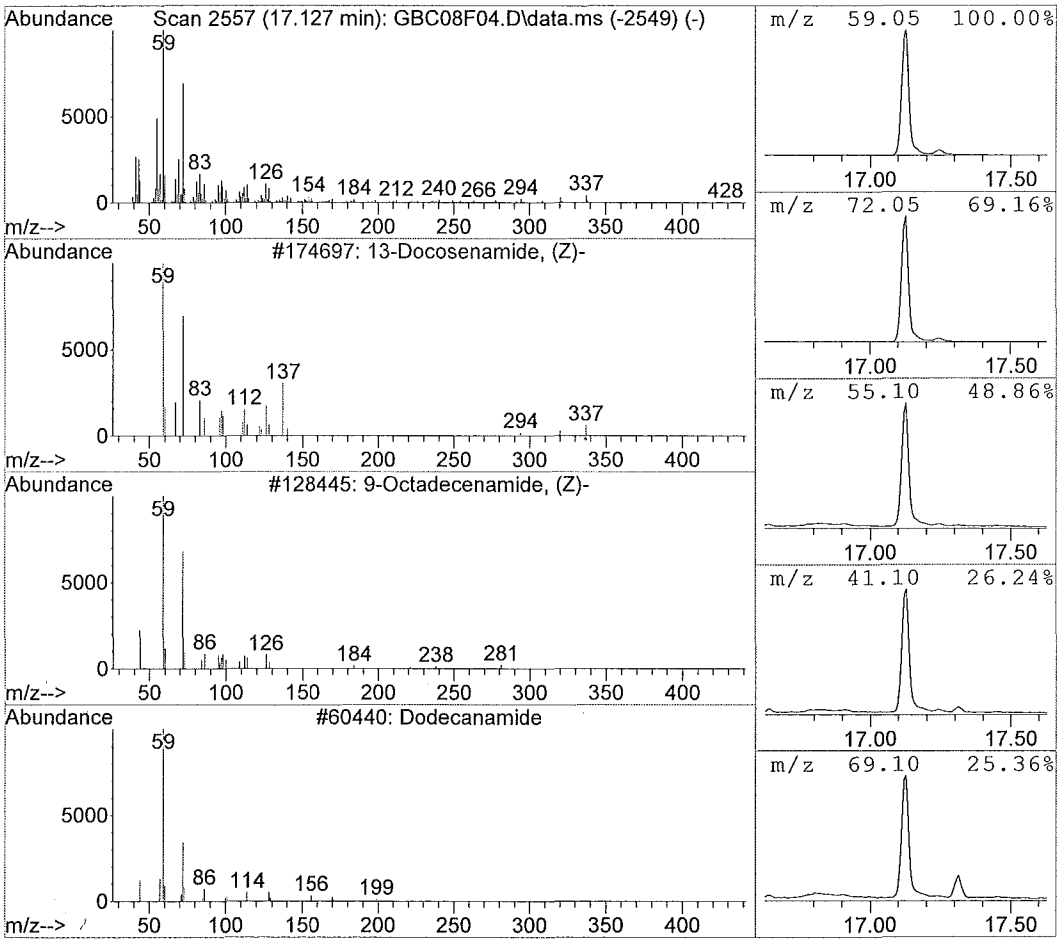
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.13	20.53 ug/ml	3271298	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
3	Dodecanamide	60440	001120-16-7	50.00
4	4-Ethyl-3-octanol	29613	019781-26-1	35.00
5	trans-13-Docosenamide	174694	010436-09-6	35.00

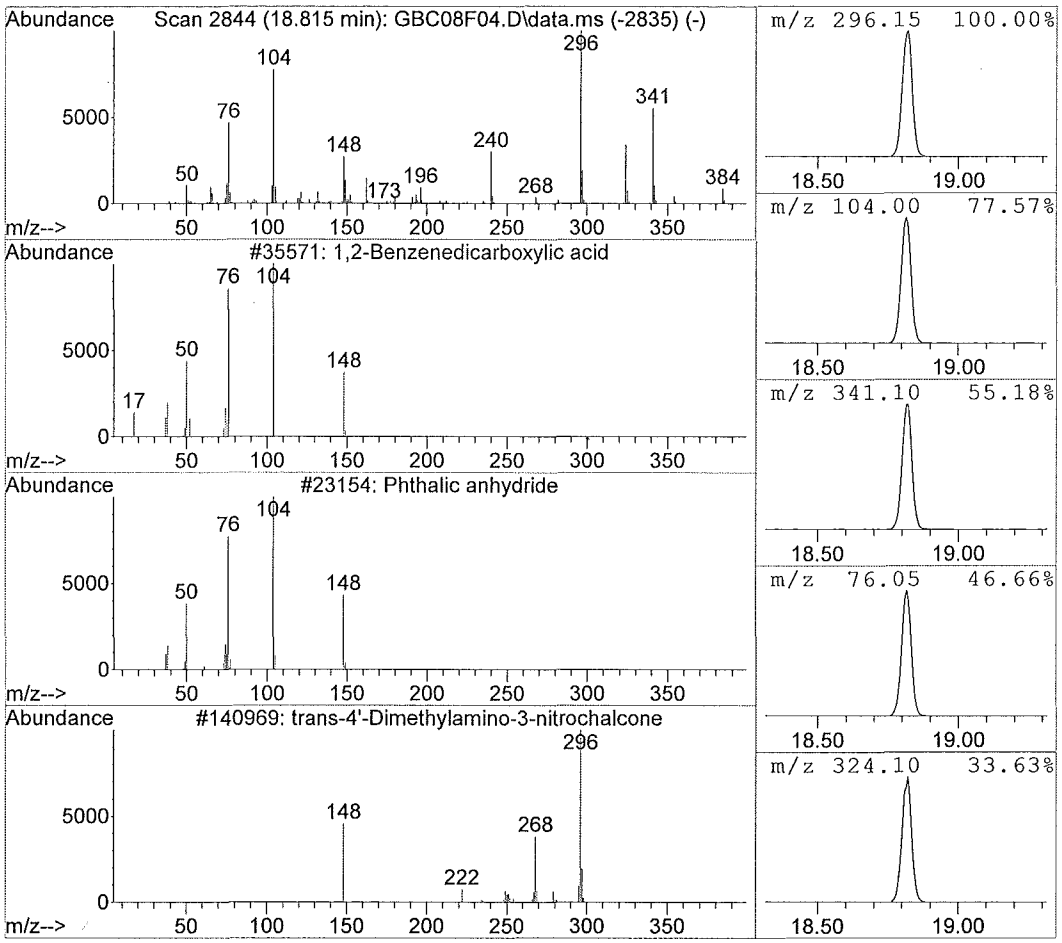


Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.82	7.07 ug/ml	1126677	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Benzenedicarboxylic acid	35571	000088-99-3	27.00
2	Phthalic anhydride	23154	000085-44-9	27.00
3	trans-4'-Dimethylamino-3-nitrochalc	140969	1000234-56-7	22.00
4	N,N'-Bis(2-hydroxy-alpha-methylbenz	141160	005464-60-8	22.00
5	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	22.00

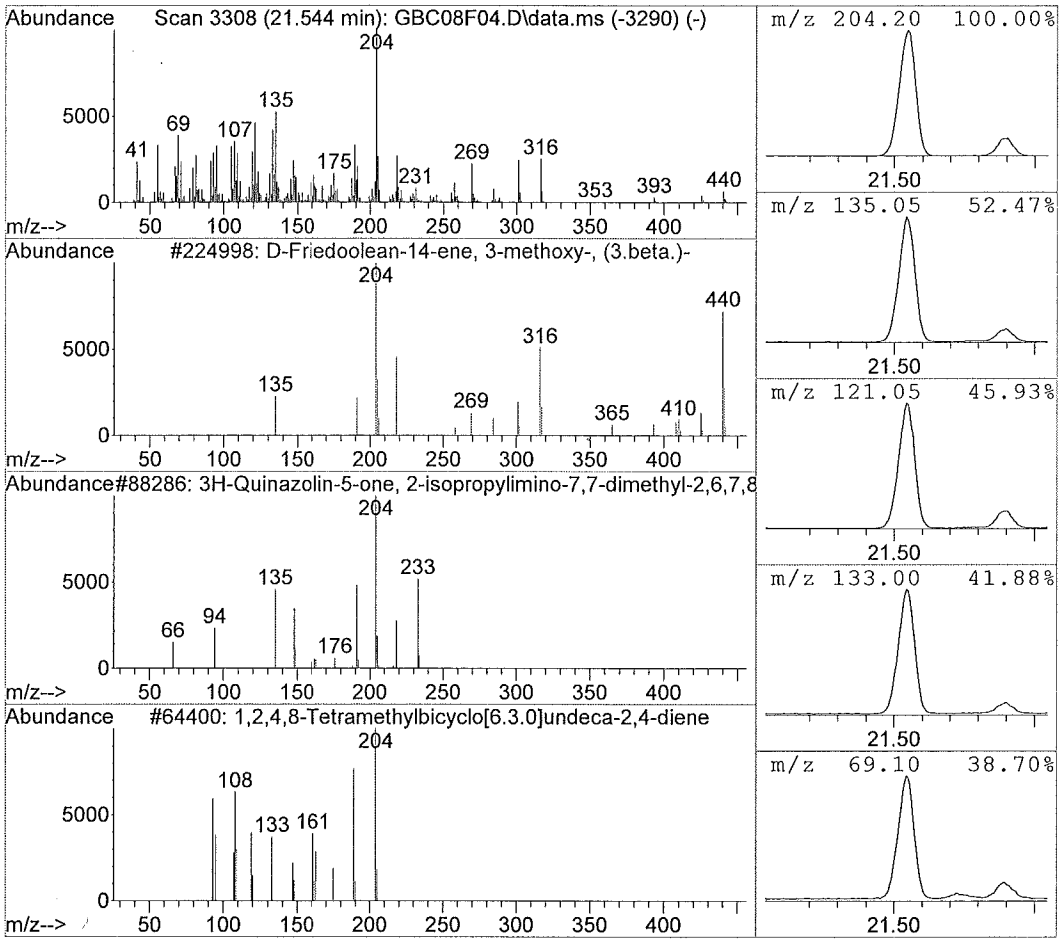


Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.54	51.97 ug/ml	8281118	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D-Friedoolean-14-ene, 3-methoxy-, (	224998	014021-23-9	60.00
2	3H-Quinazolin-5-one, 2-isopropylimi	88286	1000303-22-6	47.00
3	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	46.00
4	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	46.00
5	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00



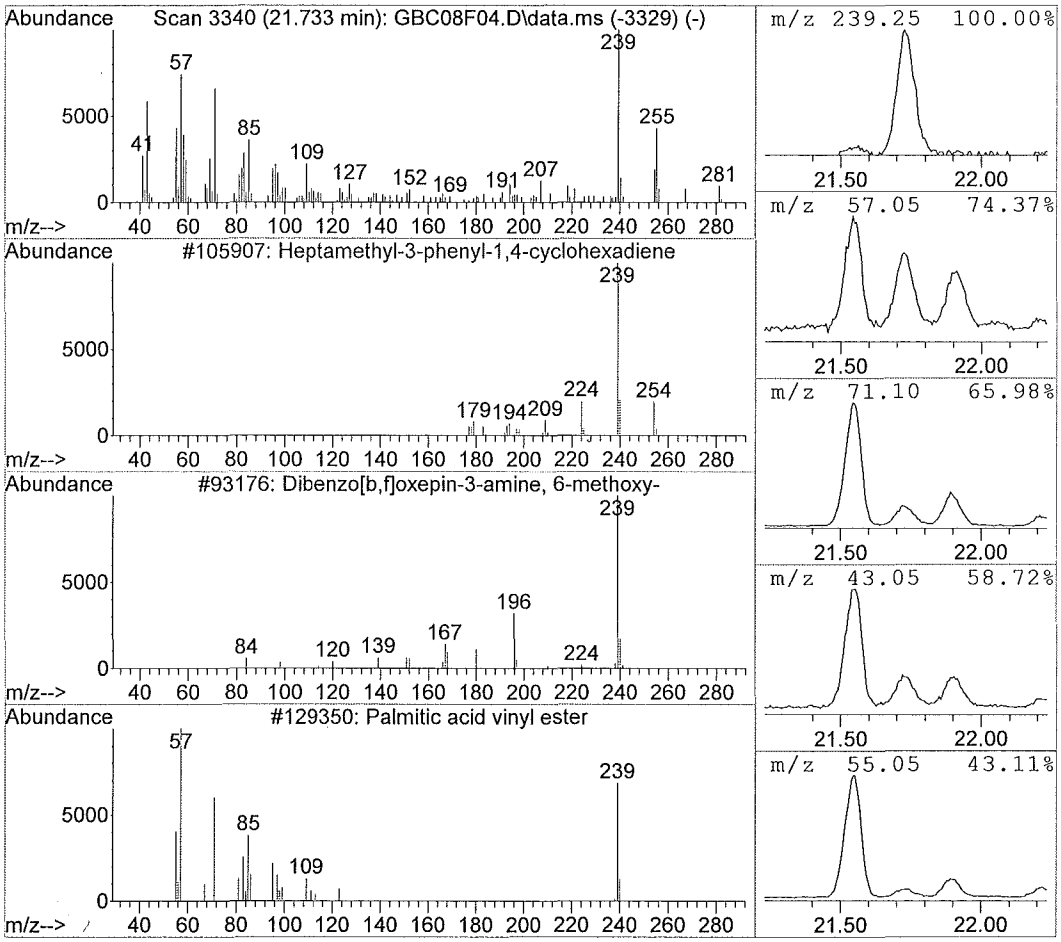
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.73	2.33 ug/ml	370908	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptamethyl-3-phenyl-1,4-cyclohexad	105907	122531-52-6	35.00
2	Dibenzo[b,f]oxepin-3-amine, 6-metho	93176	1000338-08-4	30.00
3	Palmitic acid vinyl ester	129350	000693-38-9	30.00
4	16-Hexadecanoyl hydrazide	119244	002619-88-7	27.00
5	Imidazo[1,2-a]pyridin-8-amine, 2-(3	93114	1000277-15-5	27.00

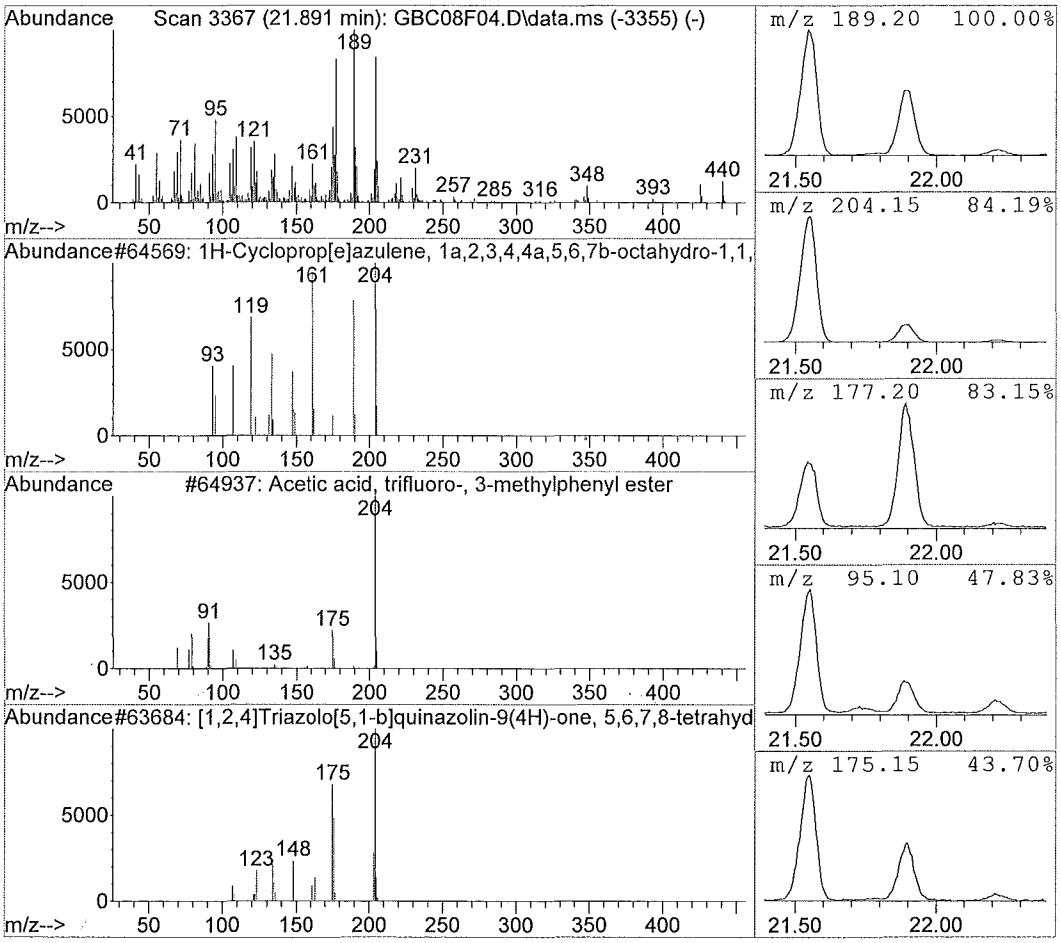


Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.89	9.25 ug/ml	1473745	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	30.00
2	Acetic acid, trifluoro-, 3-methylph	64937	001736-09-0	25.00
3	[1,2,4]Triazolo[5,1-b]quinazolin-9(	63684	1000337-56-5	25.00
4	8-Amino-2-hydroxymethyl-6-methoxyqu	63856	1000214-27-5	22.00
5	1H-3a,7-Methanoazulen-6-ol, octahyd	114222	000077-54-3	22.00



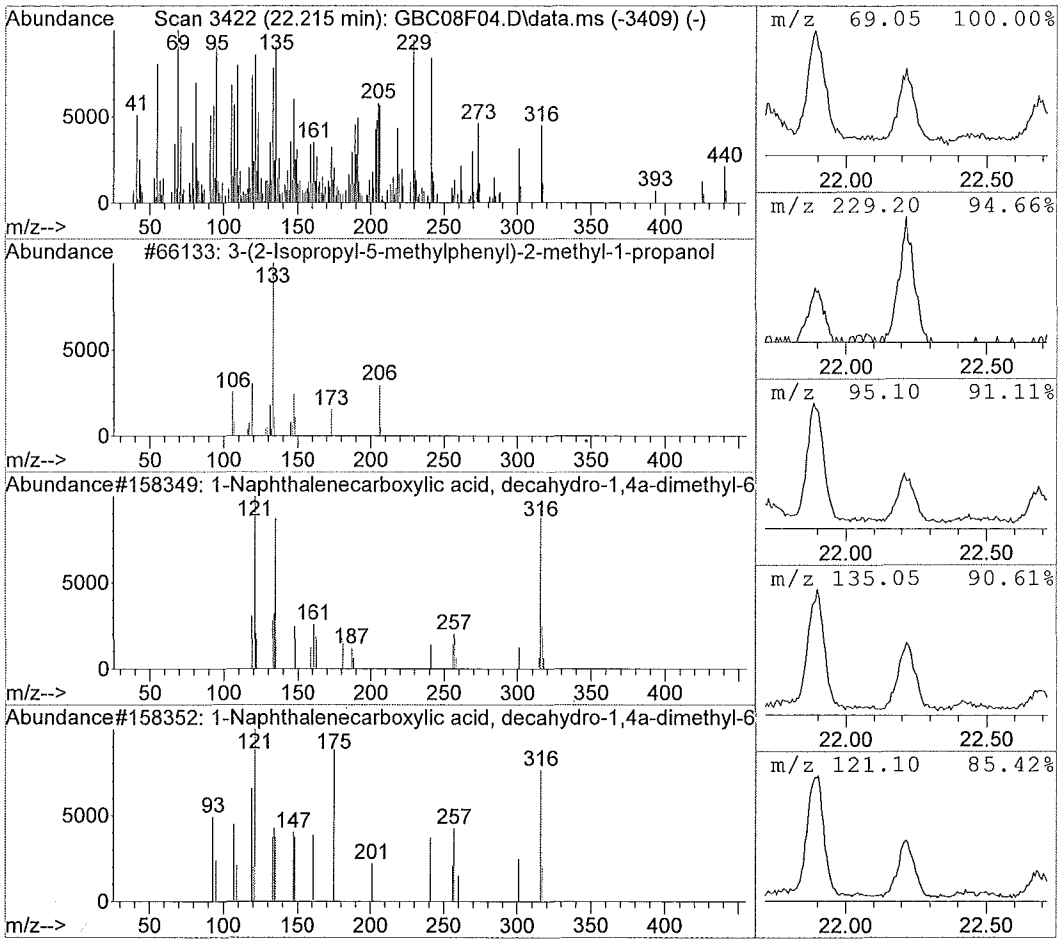
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.21	4.04 ug/ml	643791	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-(2-Isopropyl-5-methylphenyl)-2-me	66133	022291-56-1	40.00
2	1-Naphthalenecarboxylic acid, decah	158349	001235-39-8	38.00
3	1-Naphthalenecarboxylic acid, decah	158352	015798-13-7	38.00
4	Thujopsene-(I2)	64296	1000152-20-4	27.00
5	Farnesyl bromide	130771	006874-67-5	25.00

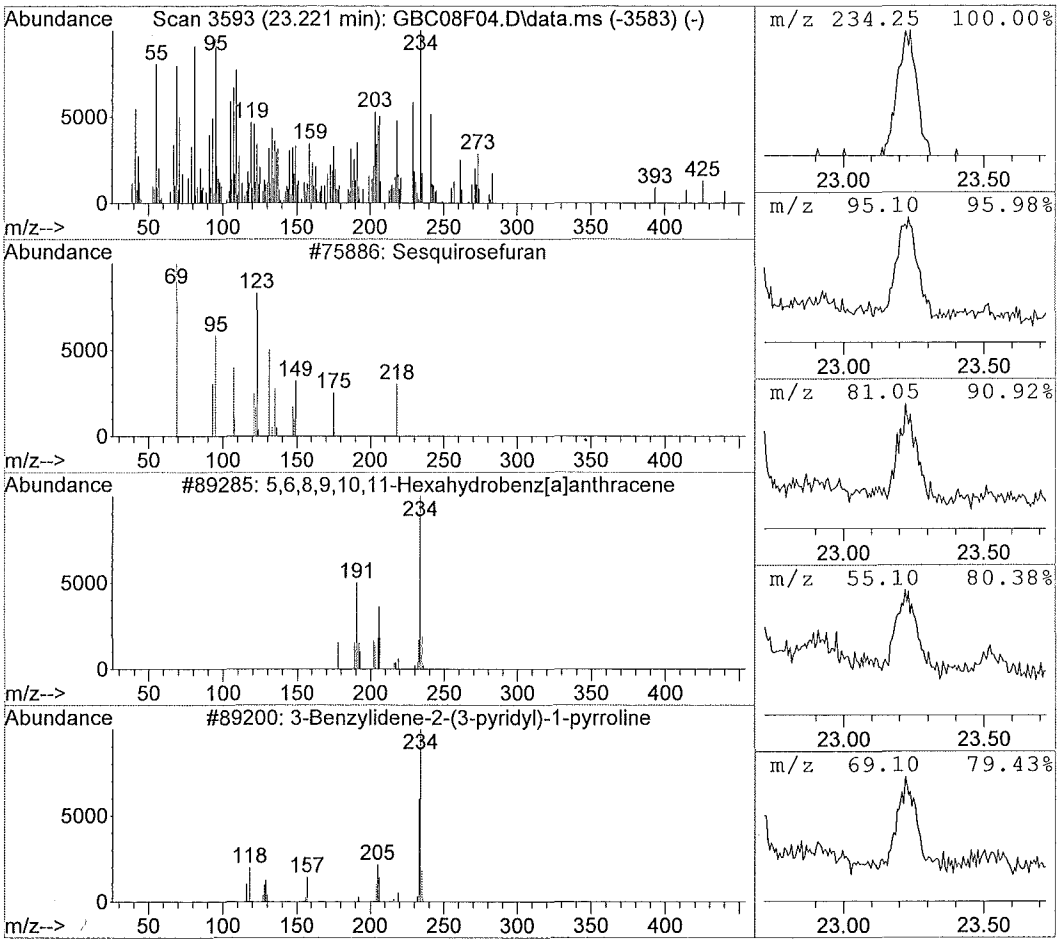


Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.22	2.57 ug/ml	410268	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Sesquirosefuran	75886	039007-93-7	46.00
2	5,6,8,9,10,11-Hexahydrobenz[a]anthr	89285	067064-61-3	43.00
3	3-Benzylidene-2-(3-pyridyl)-1-pyrro	89200	093013-30-0	41.00
4	1-Oxaspiro[2.5]octane, 5,5-dimethyl	66168	1000195-92-1	41.00
5	Methisazone	88527	001910-68-5	15.00

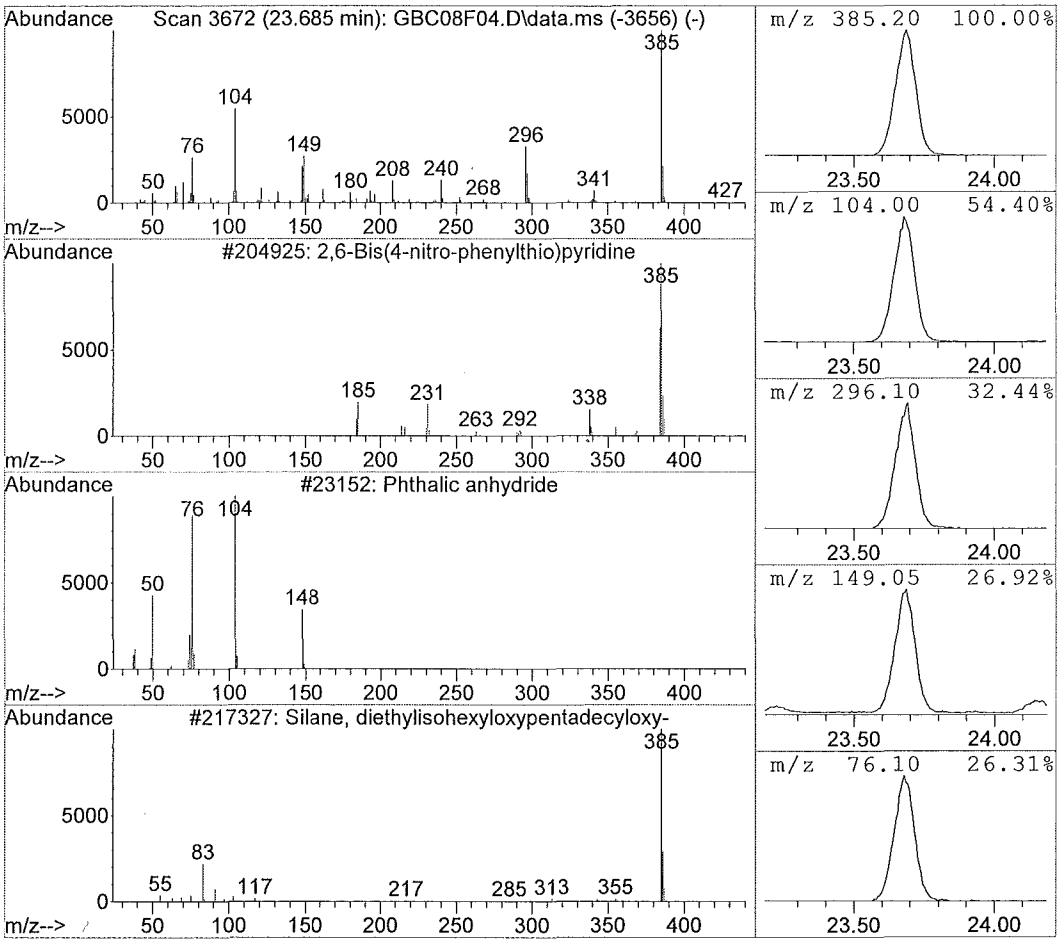


Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.69	11.80 ug/ml	1880640	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,6-Bis(4-nitro-phenylthio)pyridine	204925	078649-02-2	32.00
2	Phthalic anhydride	23152	000085-44-9	14.00
3	Silane, diethylisohexyloxypentadecy	217327	1000363-32-2	12.00
4	Silane, diethyl(2-methylpent-3-ylox	217344	1000363-78-6	12.00
5	Silane, diethylhexyloxypentadecylox	217319	1000363-74-3	12.00

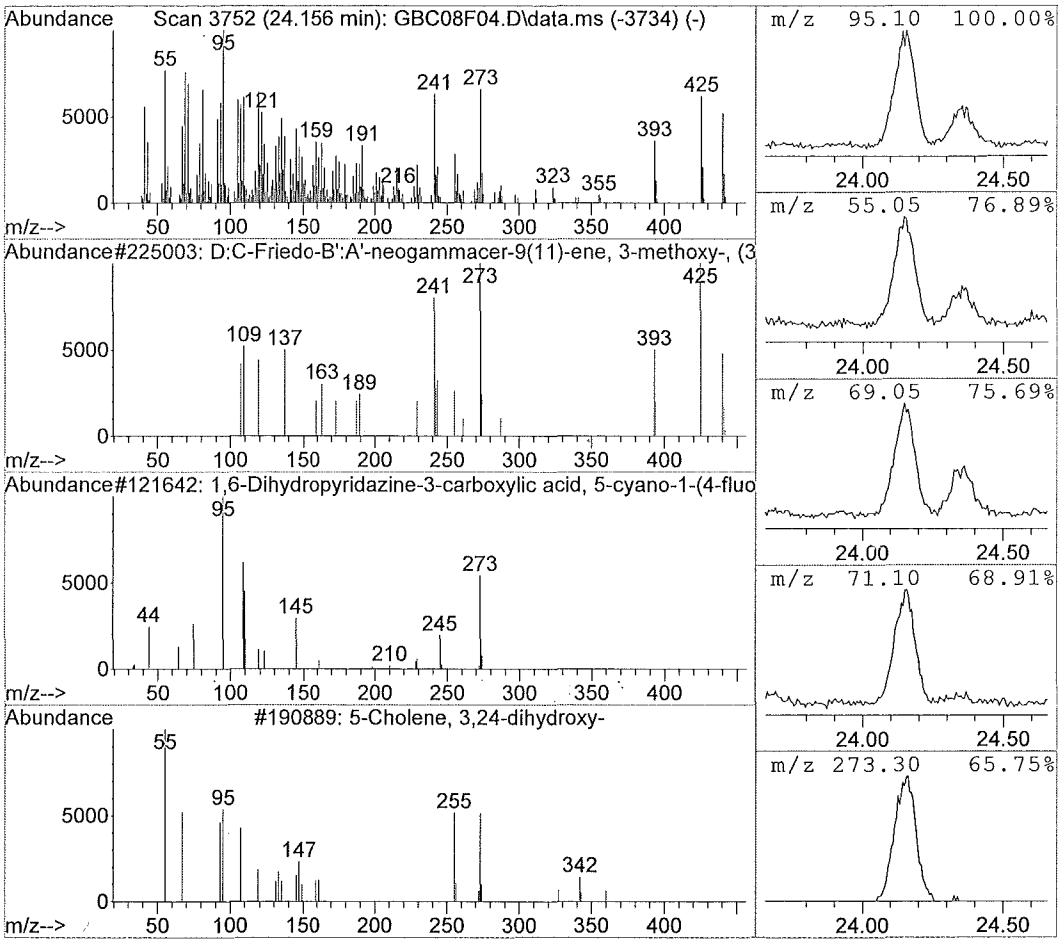


Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.16	7.18 ug/ml	1143602	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D:C-Friedo-B':A'-neogammacer-9(11)-	225003	004555-56-0	70.00
2	1,6-Dihydropyridazine-3-carboxylic	121642	1000304-05-0	27.00
3	5-Cholene, 3,24-dihydroxy-	190889	1000251-69-2	22.00
4	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	22.00
5	Lanost-8-ene-3,7-dione, (13.alpha.,	224985	055401-48-4	18.00

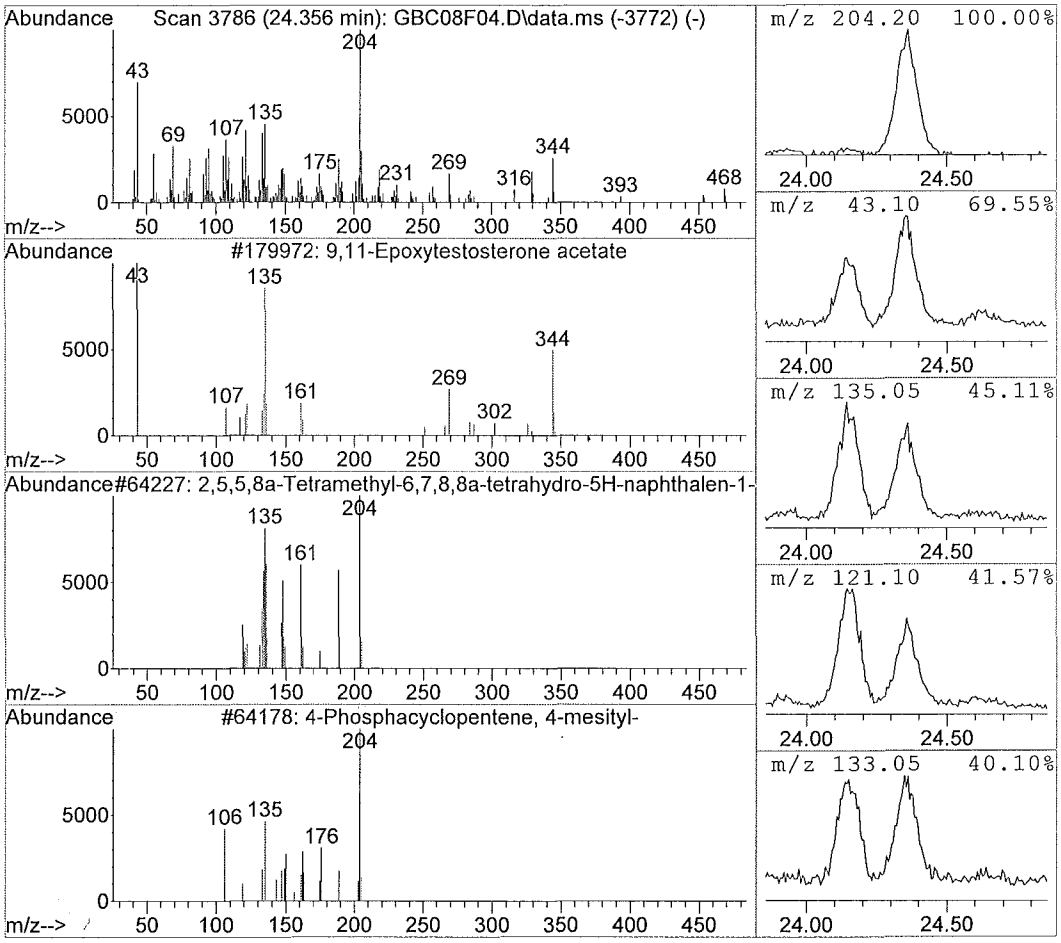


Data File : Z:\G\2015\JUN15\02JUN15\GBC08F04.D Vial: 7
Acq On : 06/02/2015 17:14 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.36	3.29 ug/ml	523676	Perylene-d12	3186608

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9,11-Epoxytestosterone acetate	179972	1000128-13-7	53.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
3	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	46.00
4	.alpha.-D-Glucopyranoside, methyl 2	232820	002641-79-4	43.00
5	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L62

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC09F05

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L62

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC09F05

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	18.	J
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L62

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293005
Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC09F05
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015
GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.12	310	JB
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	140	J
03		Unknown Guanidine	3.58	5200	JB
04		Unknown 3-Hexene-2,5-dione	4.35	250	JB
05		Unknown 2-Chloro-5-hydroxy-2,4,6-cycloheptatrien	7.26	99.	J
06	57-10-3	n-Hexadecanoic acid	12.78	78.	JN
07	629-54-9	Hexadecanamide	14.26	200	JNB
08	301-02-0	9-Octadecenamide, (Z)-	15.17	1700	JNB
09		Unknown Hexadecanamide	15.27	89.	J
10		Unknown 1,5-Hexadiene, 2,5-dipropyl-	16.32	160	JB
11	112-84-5	13-Docosenamide, (Z)-	17.13	1100	JN
12	62906-36-9	1,2-Dicarbadodecaborane(12), 1-[(propylthio)meth	18.43	390	JN
13		Unknown Isonipecotic acid, N-(3-chloropropionyl)	18.82	120	J
14		Unknown Isoquinoline, 1,2,3,4-tetrahydro-6,7-dim	19.73	420	J
15		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	21.56	3000	J
16		Unknown 1,3a-Ethano-3aH-indene, 1,2,3,6,7,7a-hex	21.90	680	J
17		Unknown 1-Naphthalenecarboxylic acid, decahydro-	22.22	180	J
18		Unknown (1S,6R,9S,10S)-5,5,9,10-Tetramethyltricy	23.23	190	J
19		Unknown D:C-Friedo-B':A'-neogammacer-9(11)-ene,	24.16	410	J
20		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	24.37	240	J
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	330	J

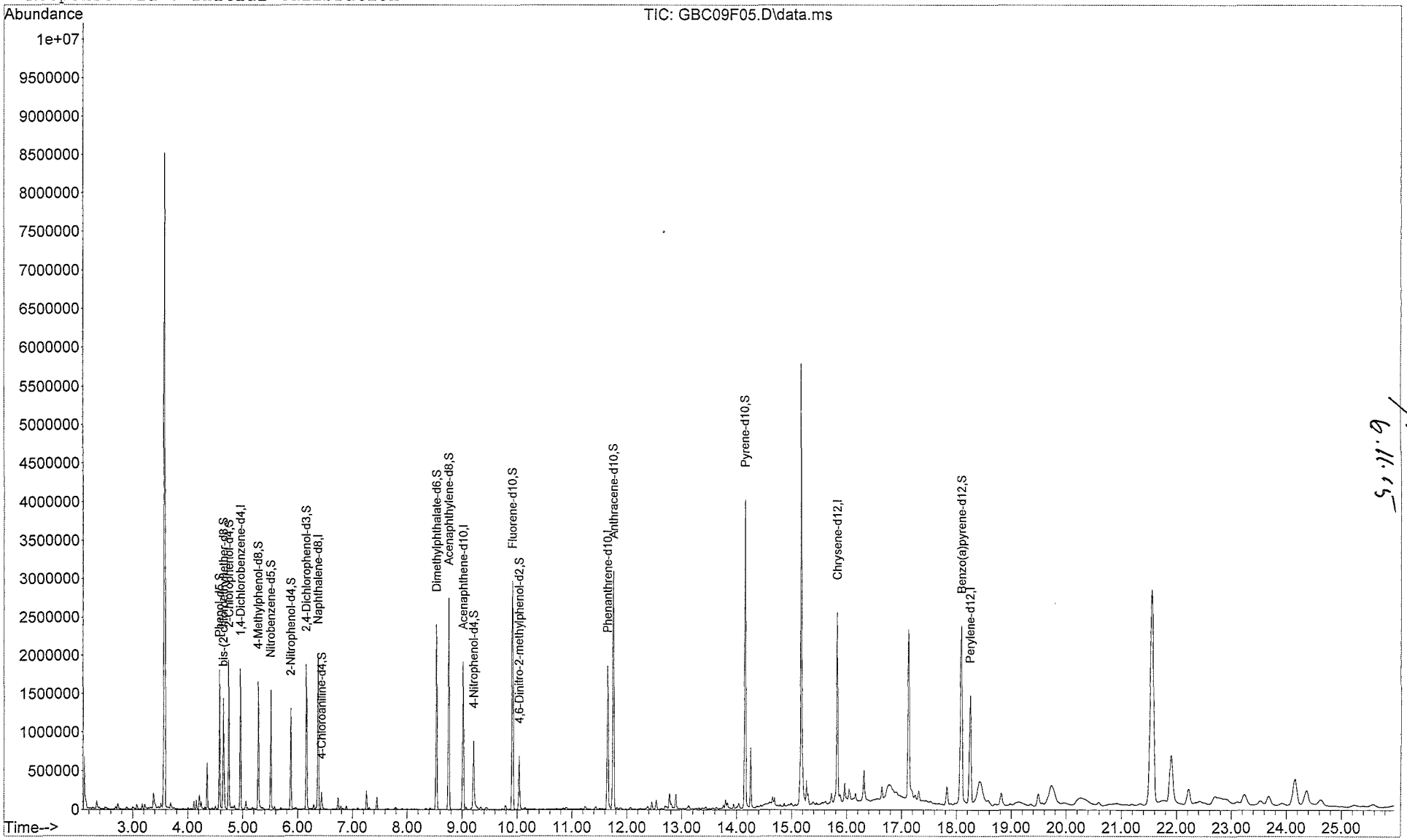
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 14:39:11 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:39:11 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	319396	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1186210	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	669077	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1116593	20.00 ug/ml
73) Chrysene-d12	15.83	240	1090273	20.00 ug/ml
81) Perylene-d12	18.25	264	1068524	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	664782	29.847ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	318391	23.346ug/mL
7) 2-Chlorophenol-d4	4.75	132	628219	28.728ug/ml
13) 4-Methylphenol-d8	5.28	113	420552	24.252ug/mL
17) Nitrobenzene-d5	5.51	128	289629	29.101ug/ml
21) 2-Nitrophenol-d4	5.87	143	337166	30.399ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	506652	31.183ug/mL
28) 4-Chloroaniline-d4	6.43	131	102149	5.796ug/mL
42) Dimethylphthalate-d6	8.53	166	1505160	36.990ug/mL
45) Acenaphthylene-d8	8.76	160	1783118	32.836ug/mL
50) 4-Nitrophenol-d4	9.21	143	306906	35.419ug/mL
57) Fluorene-d10	9.92	176	1256512	35.552ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	169241	23.075ug/mL
69) Anthracene-d10	11.76	188	2031728	35.971ug/mL
75) Pyrene-d10	14.16	212	1810351	36.524ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1790970	36.952ug/mL

Target Compounds			Qvalue
3) Benzaldehyde	0.00	77	Not Detected
4) Phenol	0.00	94	Not Detected
5) Bis(2-chloroethyl)ether	0.00	93	Not Detected
8) 2-Chlorophenol	0.00	128	Not Detected
9) 2-Methylphenol	0.00	108	Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45	Not Detected
11) Acetophenone	0.00	105	Not Detected
12) 4-methylphenol	0.00	108	Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70	Not Detected
15) Hexachloroethane	0.00	117	Not Detected
18) Nitrobenzene	0.00	77	Not Detected
19) Isophorone	0.00	82	Not Detected
20) 2-Nitrophenol	0.00	139	Not Detected
22) 2,4-Dimethylphenol	0.00	107	Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93	Not Detected
24) 2,4-Dichlorophenol	0.00	162	Not Detected
26) Naphthalene	0.00	128	Not Detected
27) 4-Chloroaniline	0.00	127	Not Detected
29) Hexachlorobutadiene	0.00	225	Not Detected
30) Caprolactam	0.00	113	Not Detected
31) 4-Chloro-3-methylphenol	0.00	107	Not Detected
32) 2-Methylnaphthalene	0.00	142	Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216	Not Detected
35) Hexachlorocyclopentadiene	0.00	237	Not Detected
36) 2,4,6-Trichlorophenol	0.00	196	Not Detected
37) 2,4,5-Trichlorophenol	0.00	196	Not Detected
38) 1,1'-Biphenyl	0.00	154	Not Detected
39) 2-Chloronaphthalene	0.00	162	Not Detected
40) 2-Nitroaniline	0.00	65	Not Detected
41) Dimethylphthalate	0.00	163	Not Detected
43) 2,6-Dinitrotoluene	0.00	165	Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

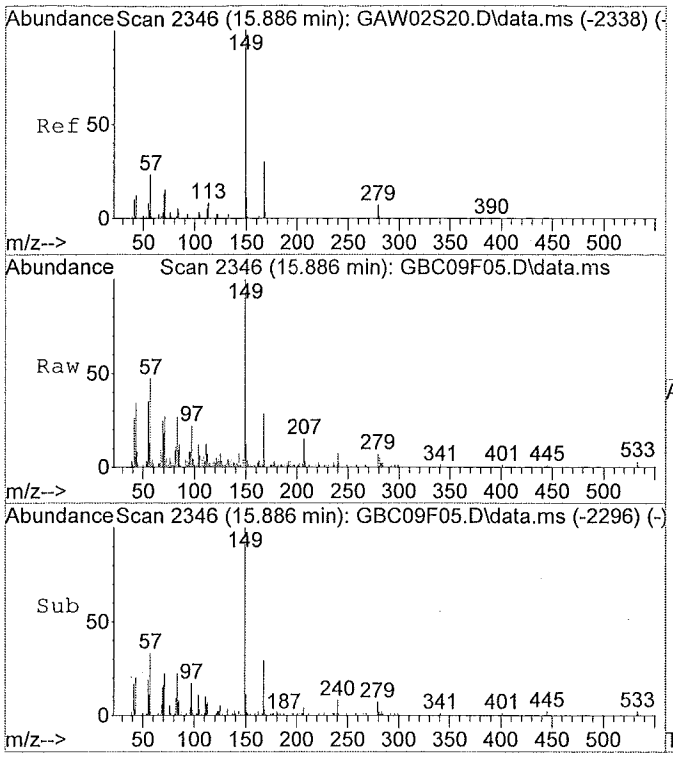
Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:39:11 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	15.89	149	24647	0.468ug/ml	94
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

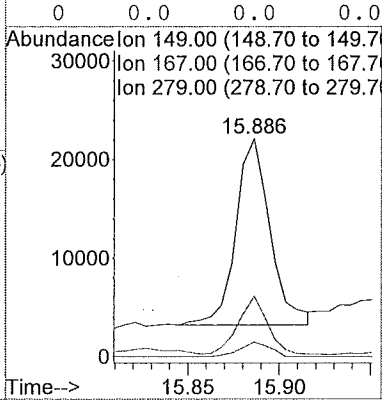
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.47 ug/ml
RT: 15.89 min Scan# 2346
Delta R.T. -0.01 min
Lab File: GBC09F05.D
Acq: 06/02/2015 17:47

Tgt Ion:149 Resp: 24647

Ion	Ratio	Lower	Upper
149	100		
167	27.2	22.0	40.8
279	6.8	5.0	9.2
0	0.0	0.0	0.0



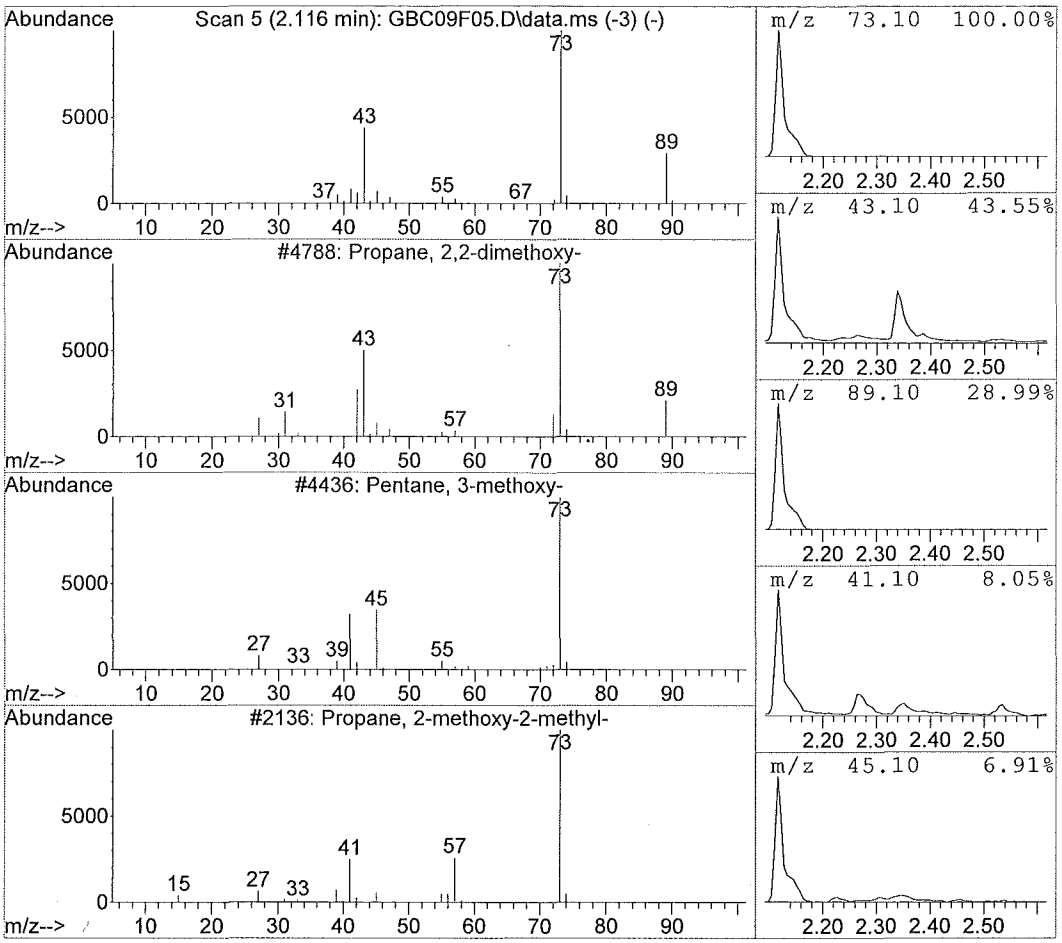
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	8.00 ug/ml	725334	1,4-Dichlorobenzene-d4	1812925

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	38.00
2	Pentane, 3-methoxy-	4436	036839-67-5	9.00
3	Propane, 2-methoxy-2-methyl-	2136	001634-04-4	9.00
4	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00
5	1-Hexen-4-ol, 1-chloro-3,5-dimethyl	32642	100244-09-5	9.00

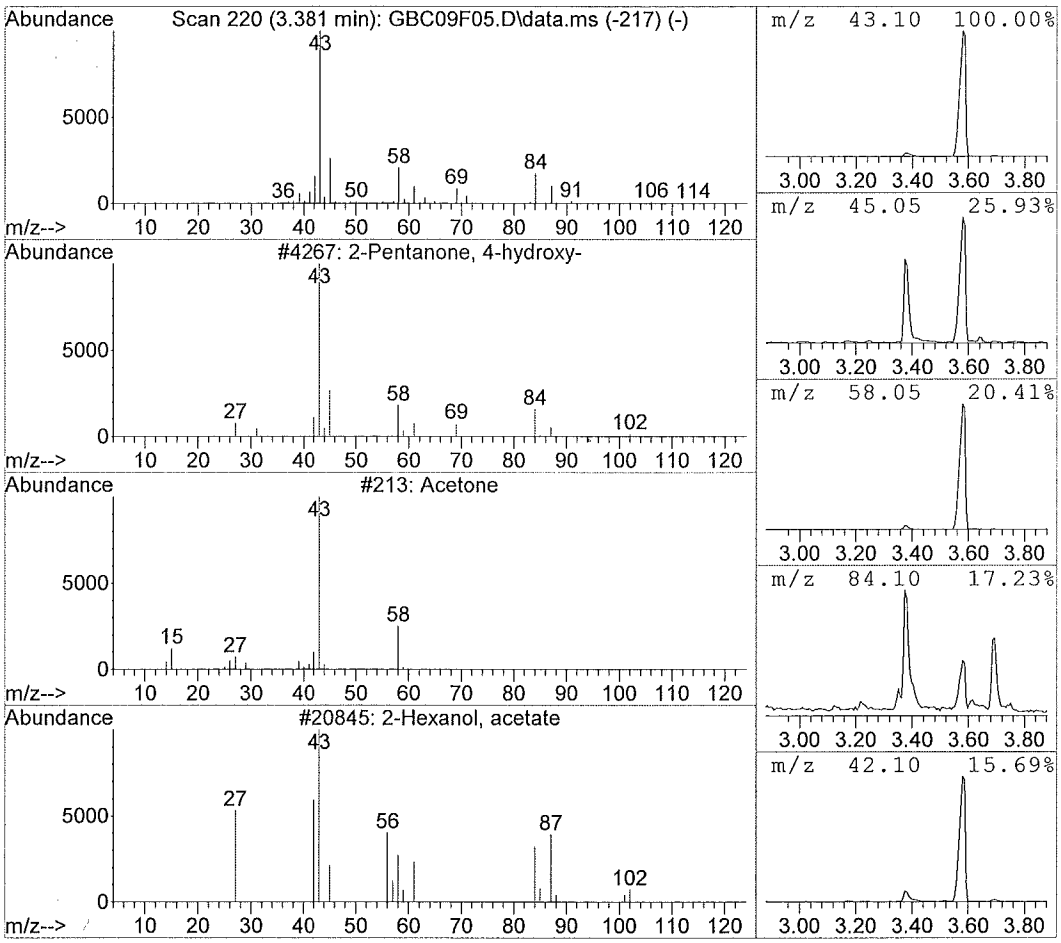


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	3.61 ug/ml	327438	1,4-Dichlorobenzene-d4	1812925

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	64.00
2	Acetone	213	000067-64-1	25.00
3	2-Hexanol, acetate	20845	005953-49-1	23.00
4	2,4-Diacetoxypentane	52047	007371-86-0	23.00
5	1-Pentanol, 2-methyl-, acetate	20927	007789-99-3	23.00

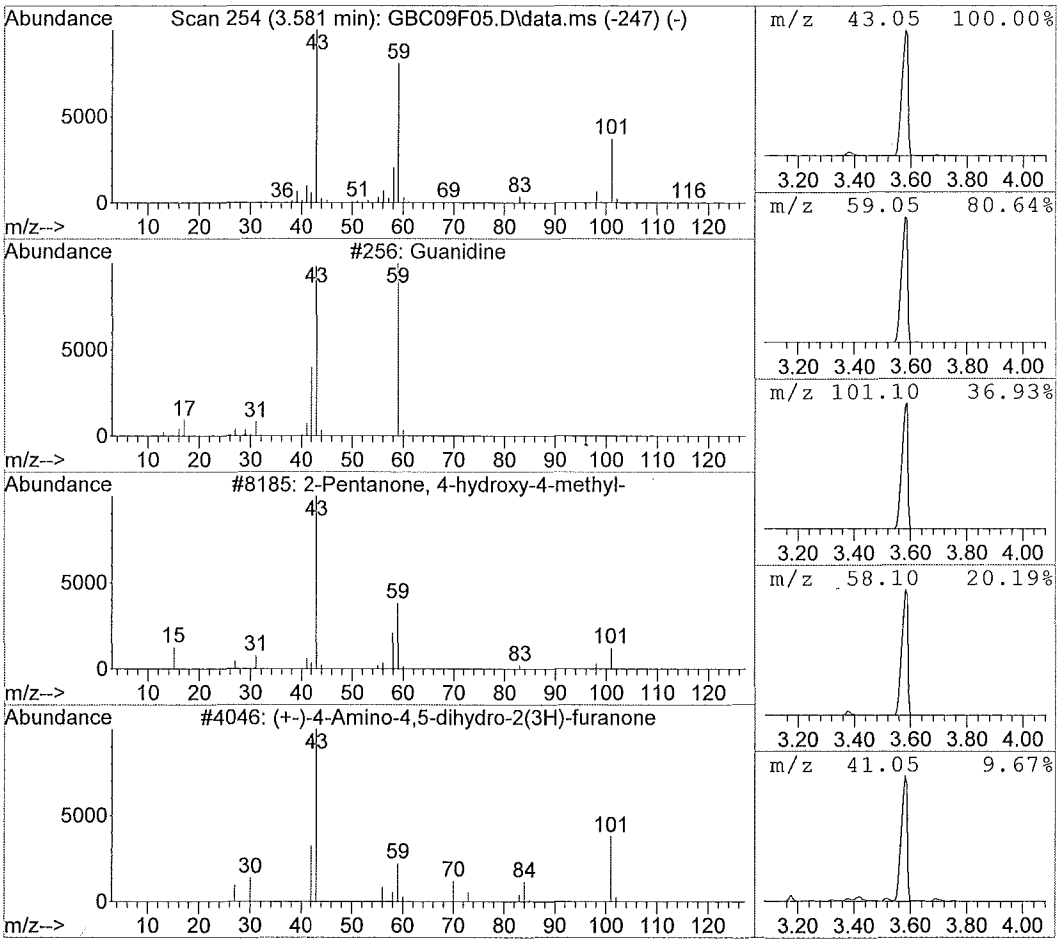


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.58	134.02 ug/ml	12148135	1,4-Dichlorobenzene-d4	1812925

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	256	000113-00-8	47.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	37.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	5-Hexen-2-one	3159	000109-49-9	9.00

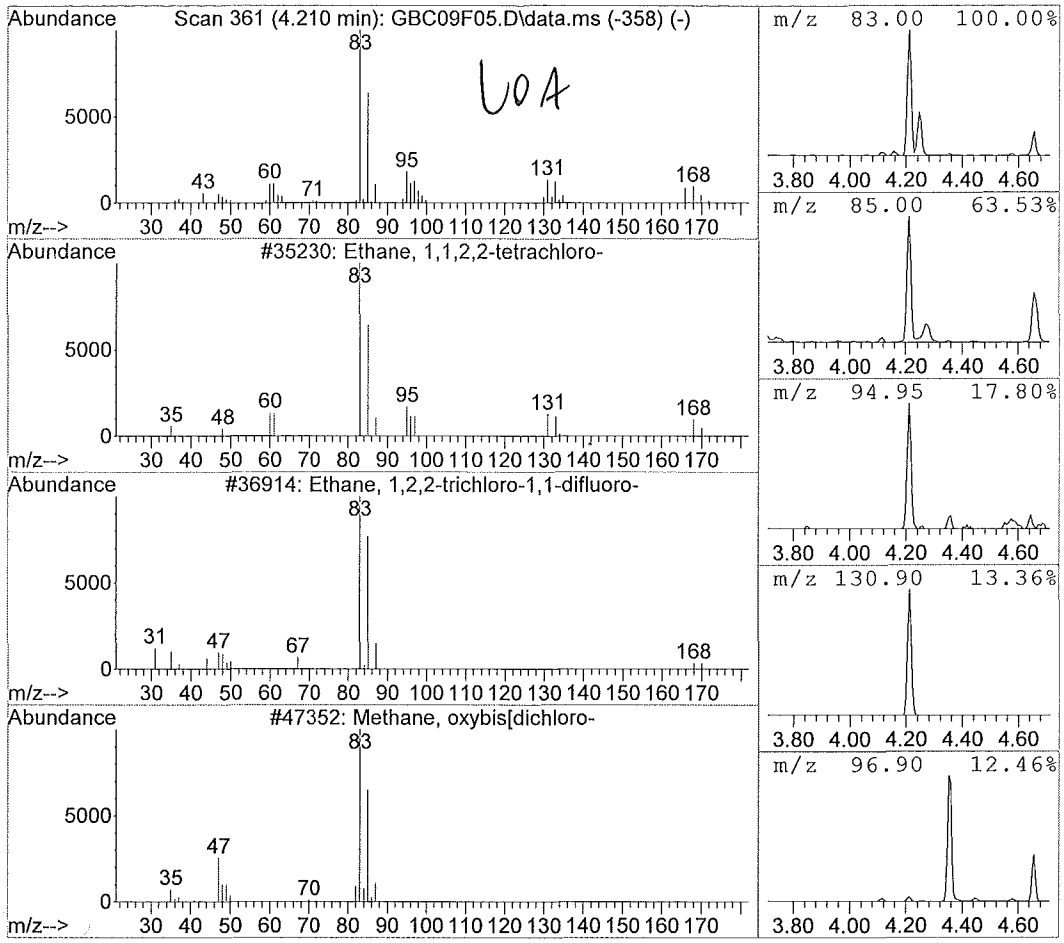


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.28 ug/ml	206845	1,4-Dichlorobenzene-d4	1812925

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	97.00
2	Ethane, 1,2,2-trichloro-1,1-difluor	36914	000354-21-2	62.00
3	Methane, oxybis[dichloro-	47352	020524-86-1	47.00
4	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	45.00
5	Ethane, 2,2-dichloro-1,1,1-trifluor	25466	000306-83-2	42.00

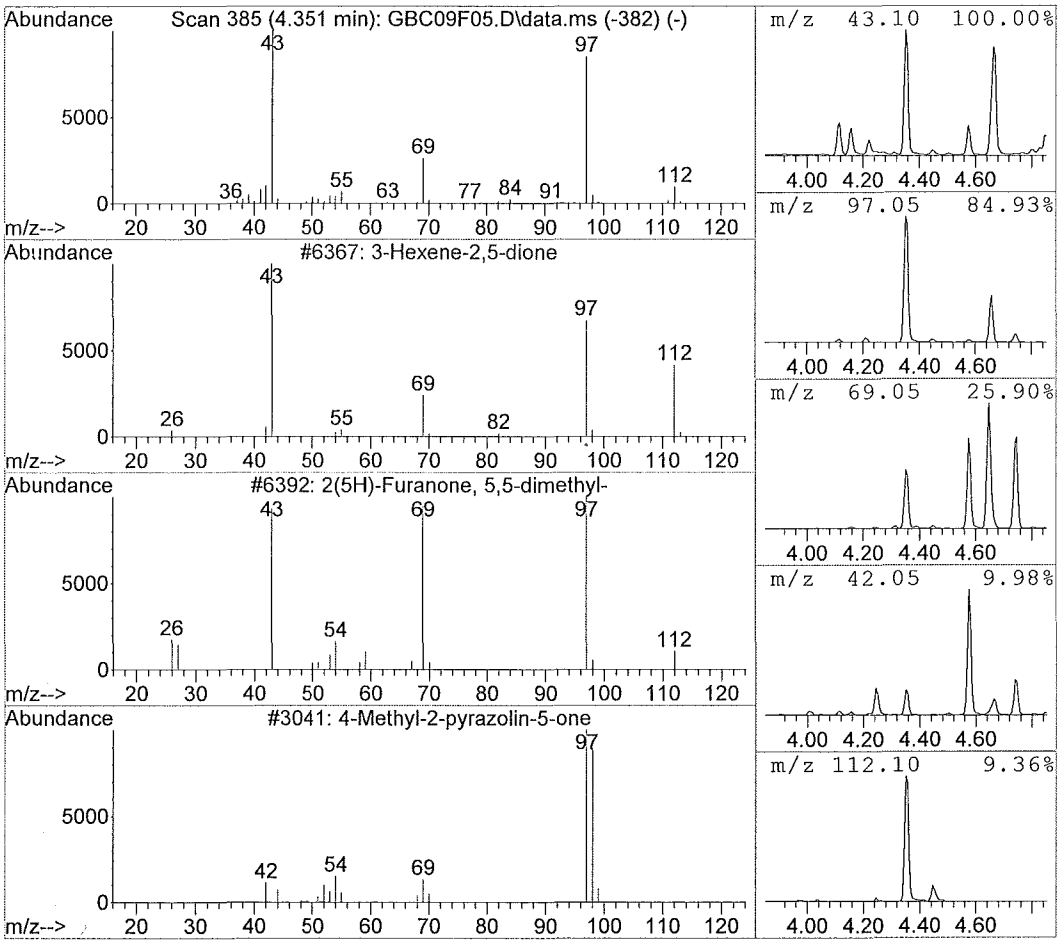


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	6.29 ug/ml	570071	1,4-Dichlorobenzene-d4	1812925

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	78.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	50.00
3	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	33.00
4	1,3-Butadien-1-ol, acetate	6386	001515-76-0	9.00
5	5-Hexen-2-one	3159	000109-49-9	9.00

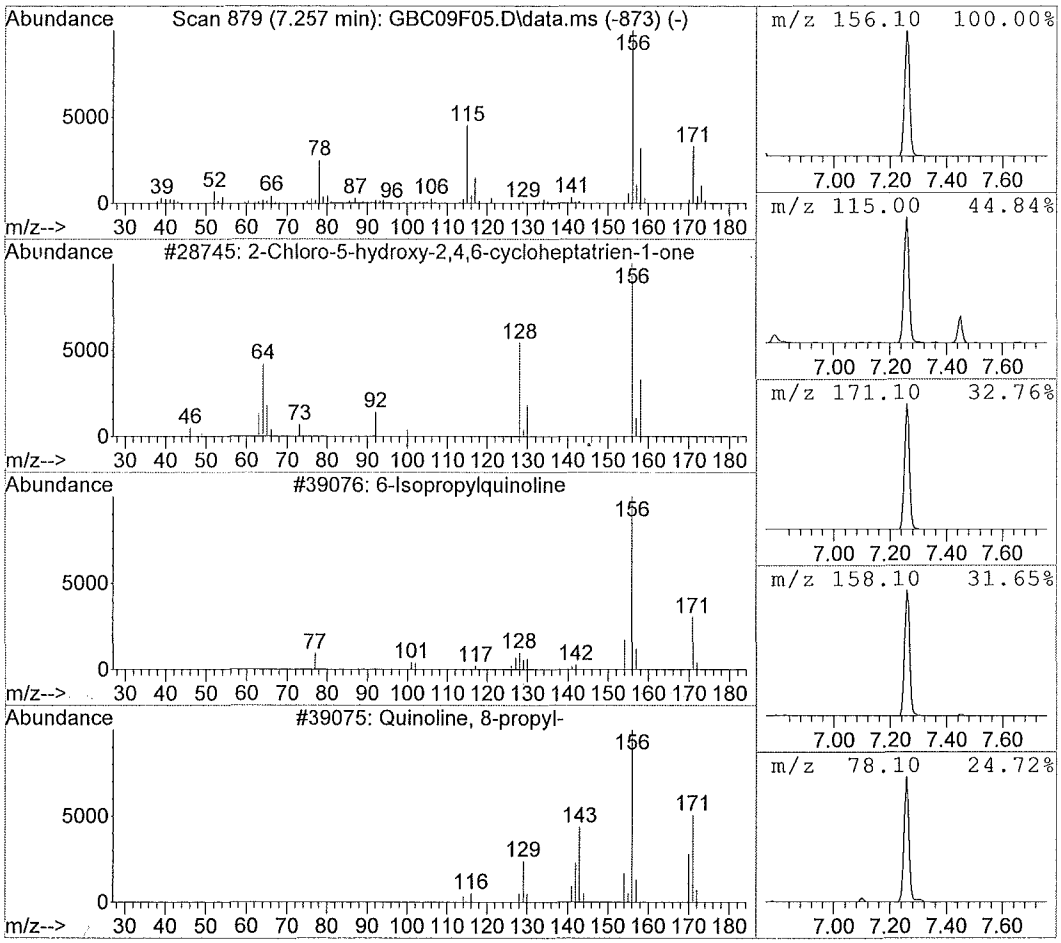


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.26	2.52 ug/ml	293182	Naphthalene-d8	2328891

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Chloro-5-hydroxy-2,4,6-cyclohepta	28745	007009-16-7	43.00
2	6-Isopropylquinoline	39076	000135-79-5	43.00
3	Quinoline, 8-propyl-	39075	007661-53-2	38.00
4	1,2,3,4-Tetrahydropentalene, 1,1-di	39115	1000217-18-6	37.00
5	Benzene, 2,5-cyclohexadien-1-yl-	28511	004794-05-2	28.00

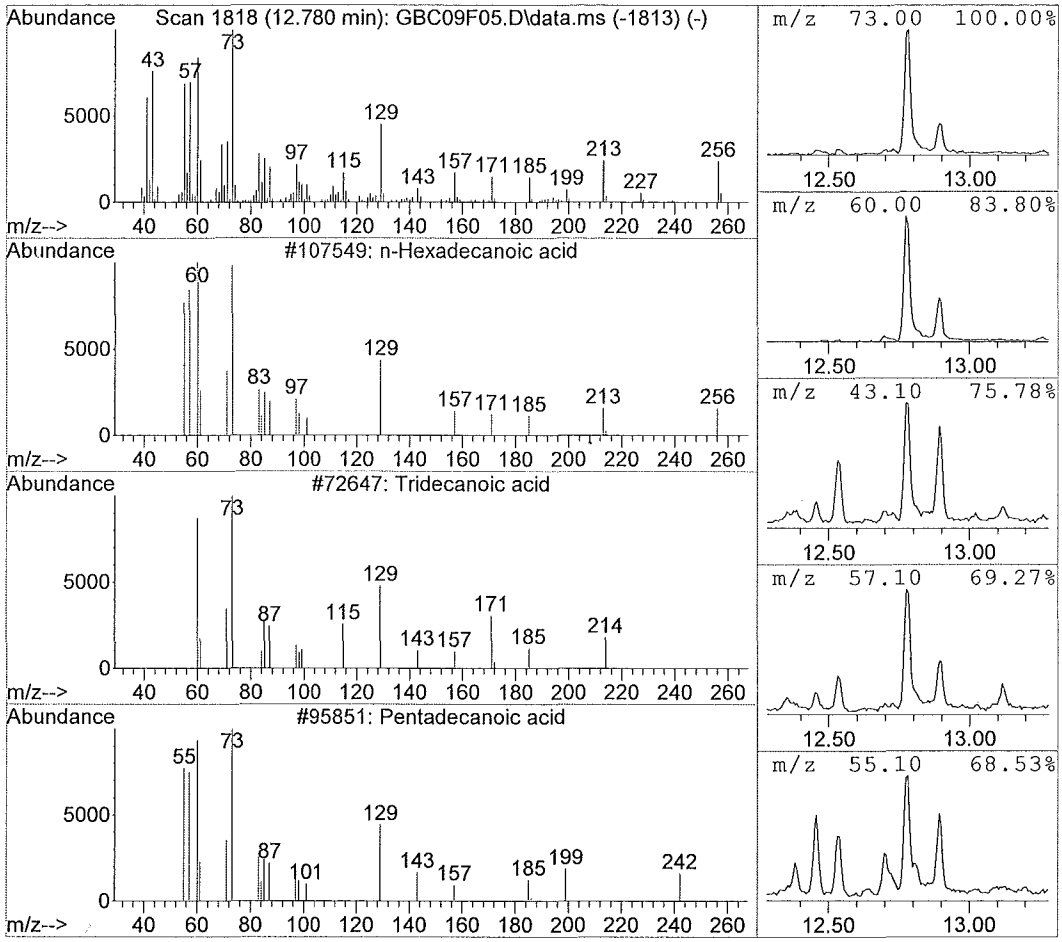


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.78	2.00 ug/ml	283815	Phenanthrene-d10	2834035

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tridecanoic acid	72647	000638-53-9	95.00
3	Pentadecanoic acid	95851	001002-84-2	91.00
4	Tetradecanoic acid	84452	000544-63-8	90.00
5	Dodecanoic acid	61122	000143-07-7	64.00

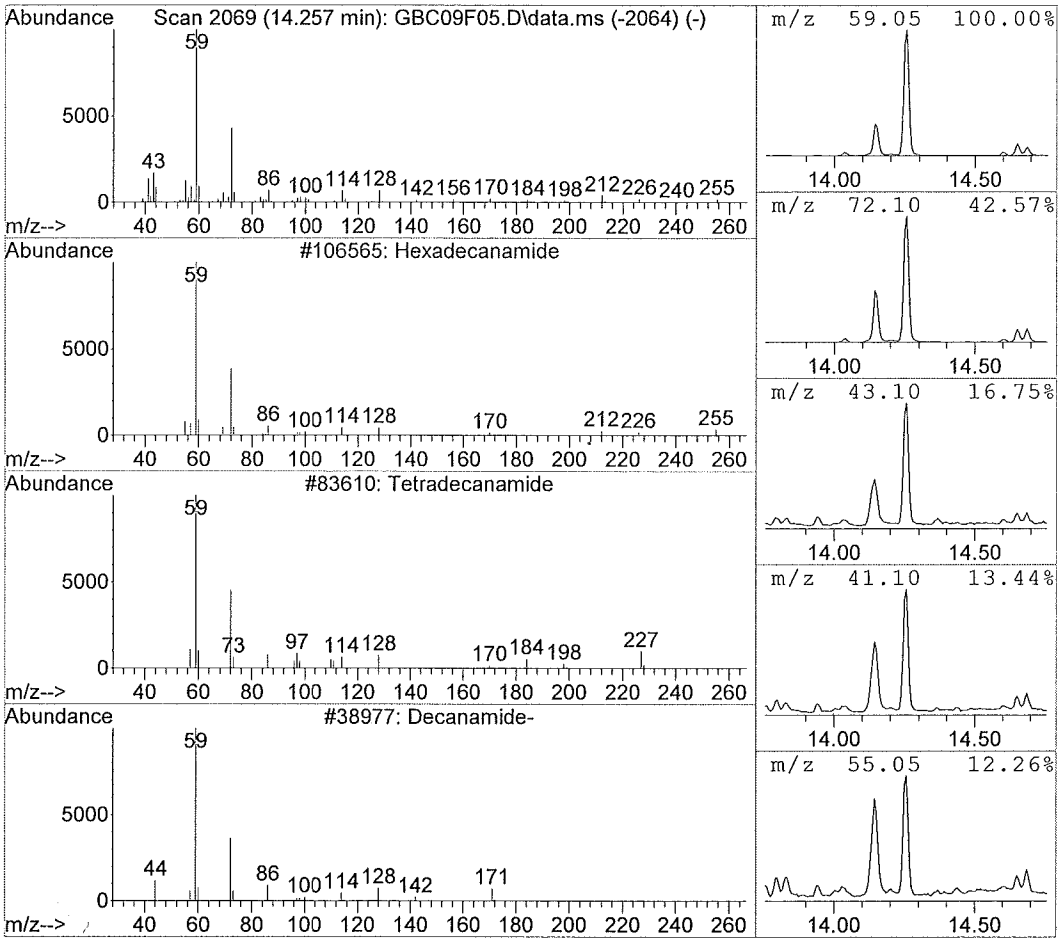


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	5.12 ug/ml	921541	Chrysene-d12	3602997

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	96.00
2	Tetradecanamide	83610	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	72.00
4	Octanamide	20317	000629-01-6	72.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	72.00

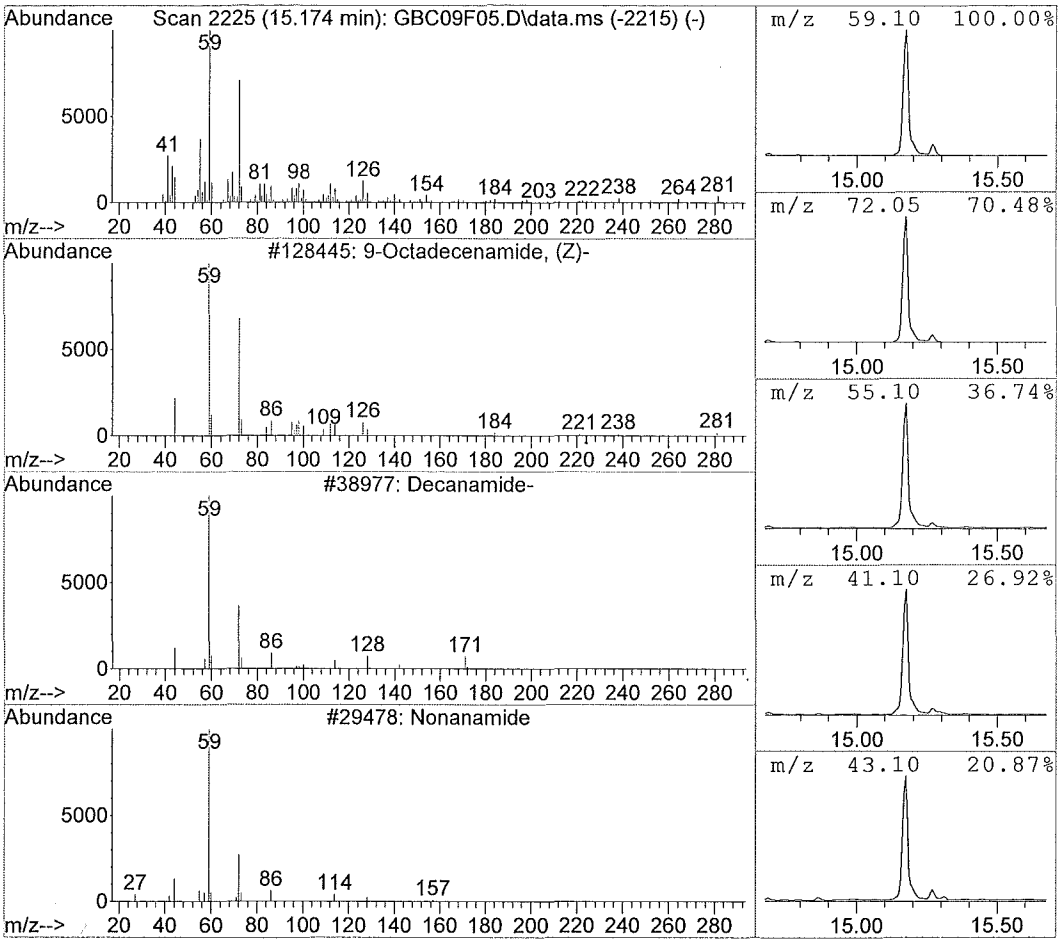


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	43.98 ug/ml	7922979	Chrysene-d12	3602997

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Decanamide-	38977	002319-29-1	53.00
3	Nonanamide	29478	001120-07-6	50.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	50.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	45.00

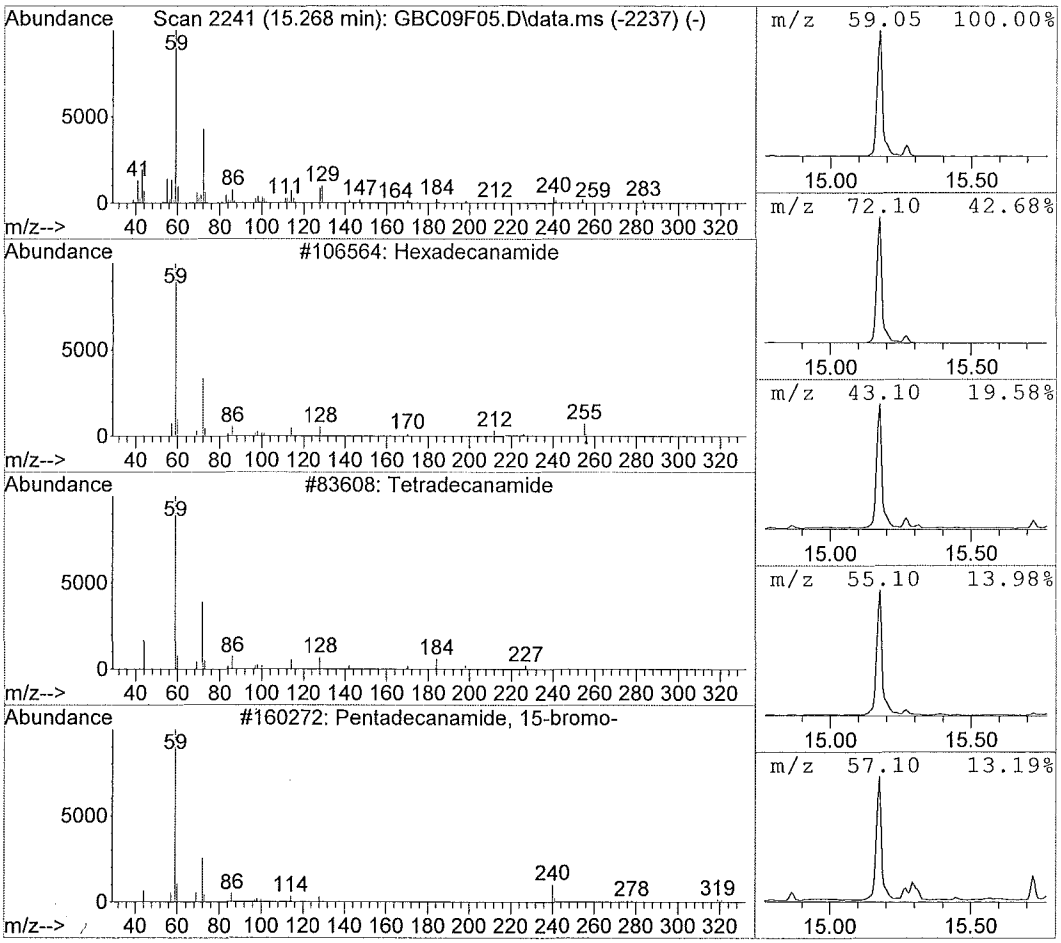


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.27	2.26 ug/ml	407905	Chrysene-d12	3602997

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	83.00
2	Tetradecanamide	83608	000638-58-4	80.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	72.00
4	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	56.00
5	Dodecanamide	60439	001120-16-7	56.00



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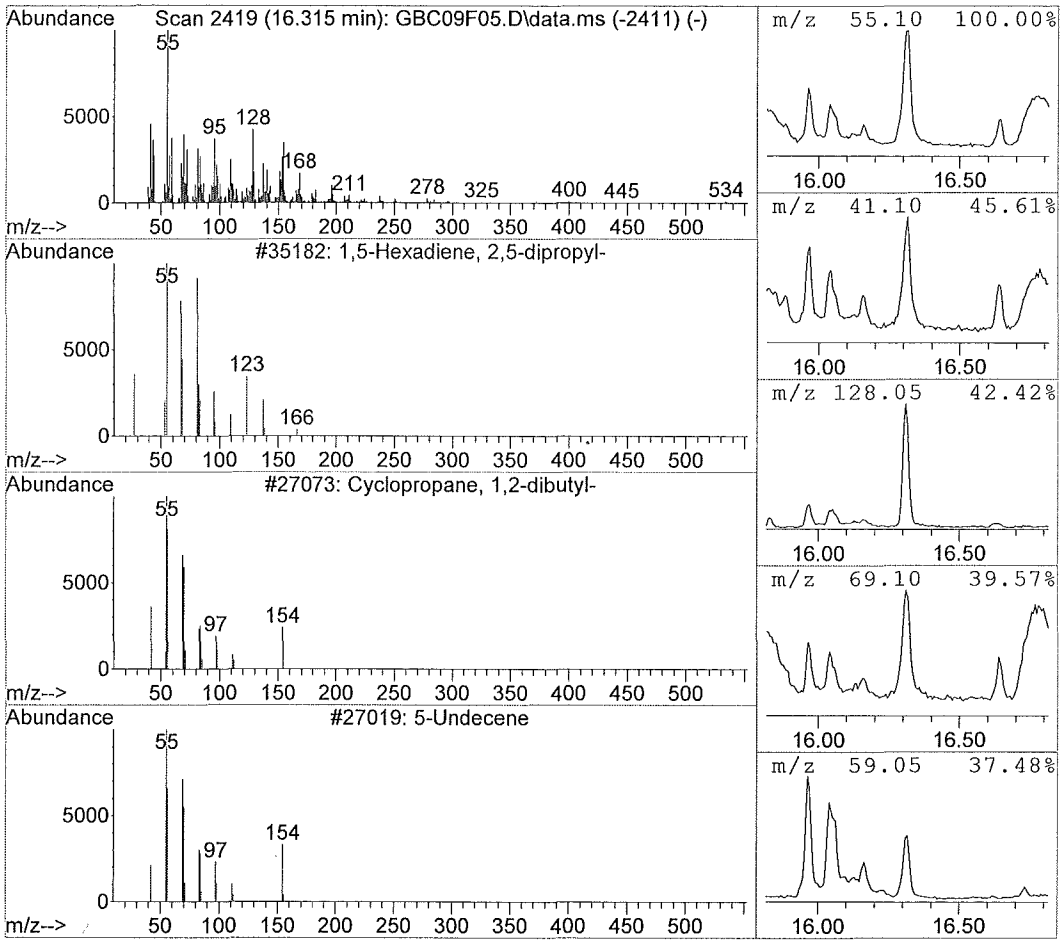
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.32	4.00 ug/ml	719831	Chrysene-d12	3602997

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,5-Hexadiene, 2,5-dipropyl-	35182	1000158-33-4	11.00
2	Cyclopropane, 1,2-dibutyl-	27073	041977-32-6	11.00
3	5-Undecene	27019	004941-53-1	11.00
4	Cyclododecanone, 2-methyl-	58195	016837-94-8	11.00
5	2-Propenoic acid, 2-cyano-3-phenyl-	50986	003695-84-9	11.00



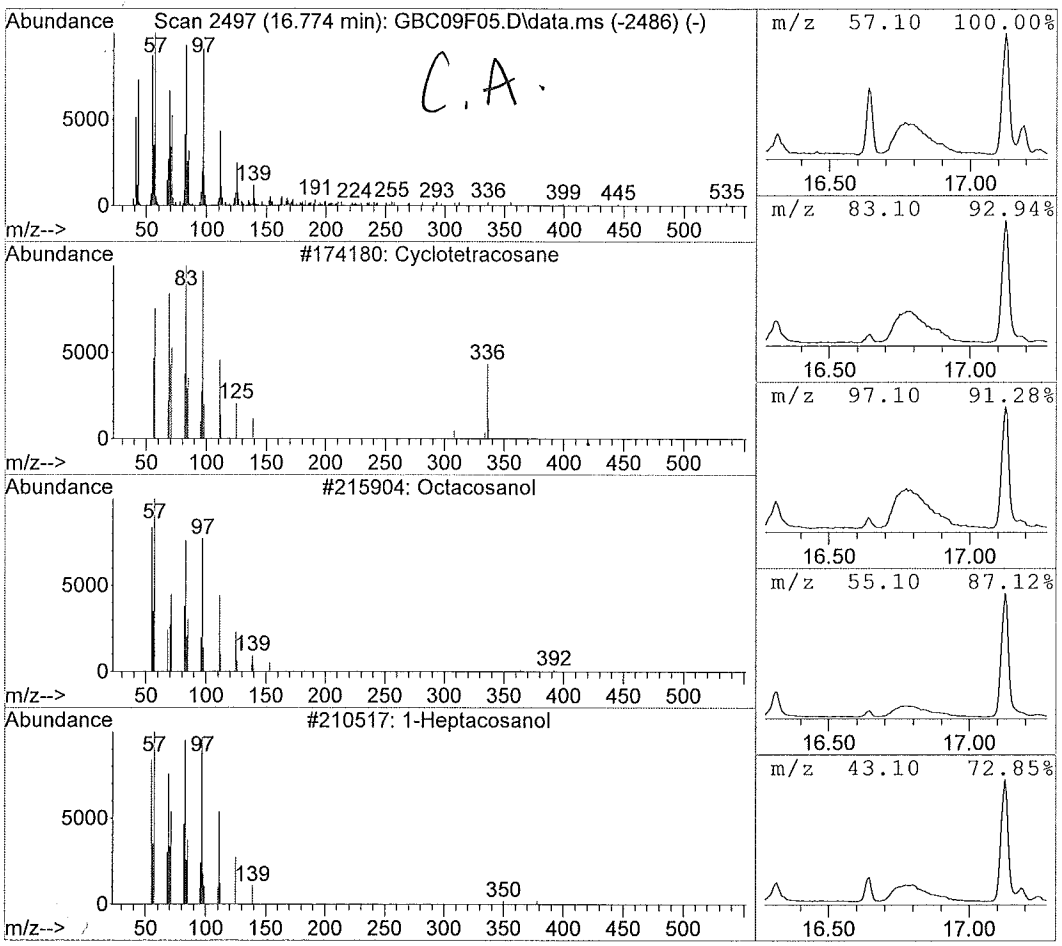
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.77	2.26 ug/ml	407484	Chrysene-d12	3602997

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclotetracosane	174180	000297-03-0	98.00
2	Octacosanol	215904	000557-61-9	94.00
3	1-Heptacosanol	210517	002004-39-9	94.00
4	n-Tetracosanol-1	186968	000506-51-4	94.00
5	Heptacosyl acetate	224391	1000351-78-2	94.00



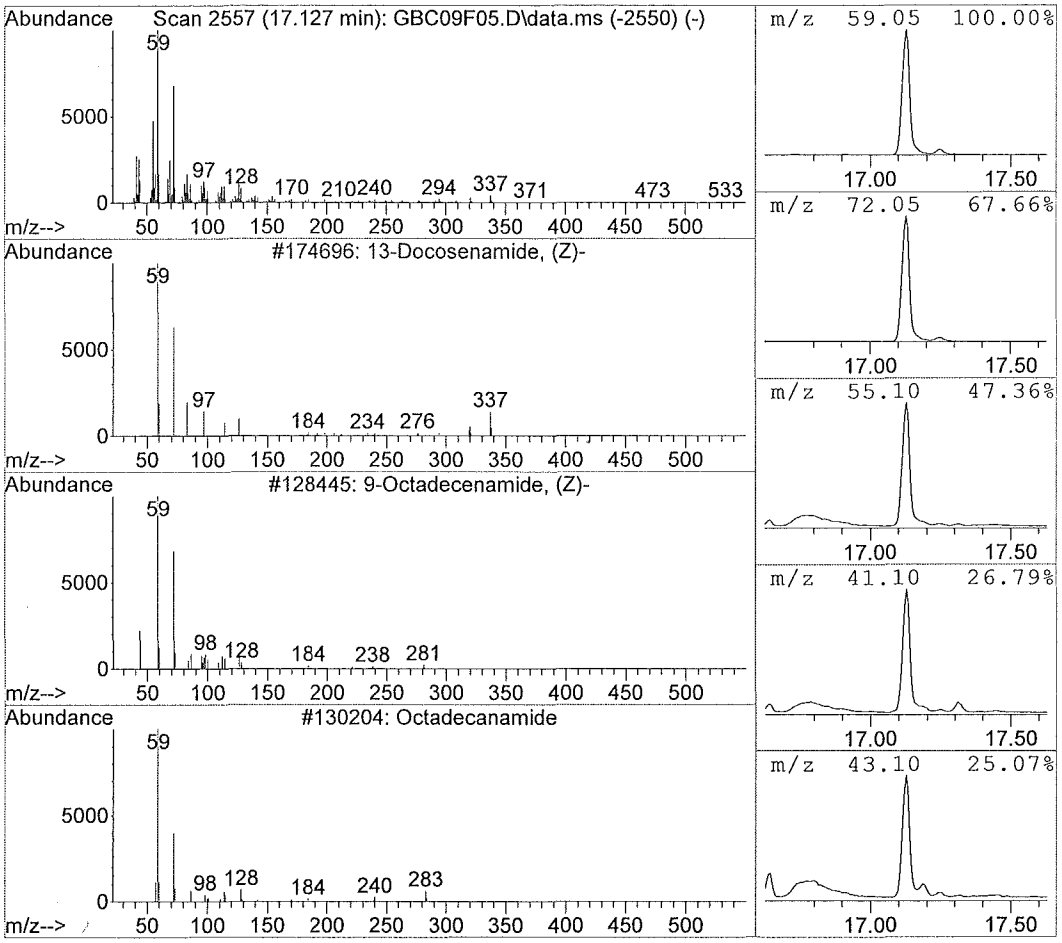
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.13	27.03 ug/ml	4138339	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
3	Octadecanamide	130204	000124-26-5	59.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	53.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	50.00



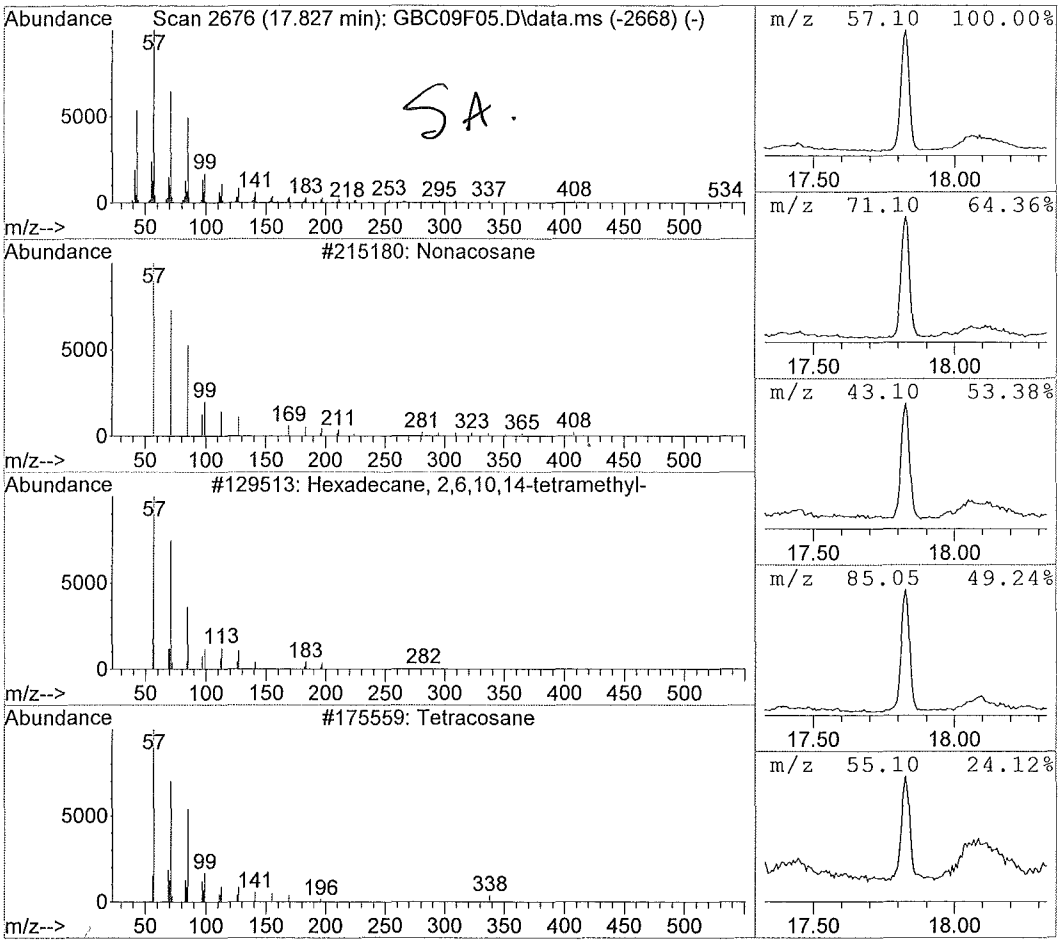
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.83	3.16 ug/ml	483664	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonacosane	215180	000630-03-5	97.00
2	Hexadecane, 2,6,10,14-tetramethyl-	129513	000638-36-8	93.00
3	Tetracosane	175559	000646-31-1	91.00
4	Hexacosane	194493	000630-01-3	91.00
5	Octacosane	209566	000630-02-4	90.00

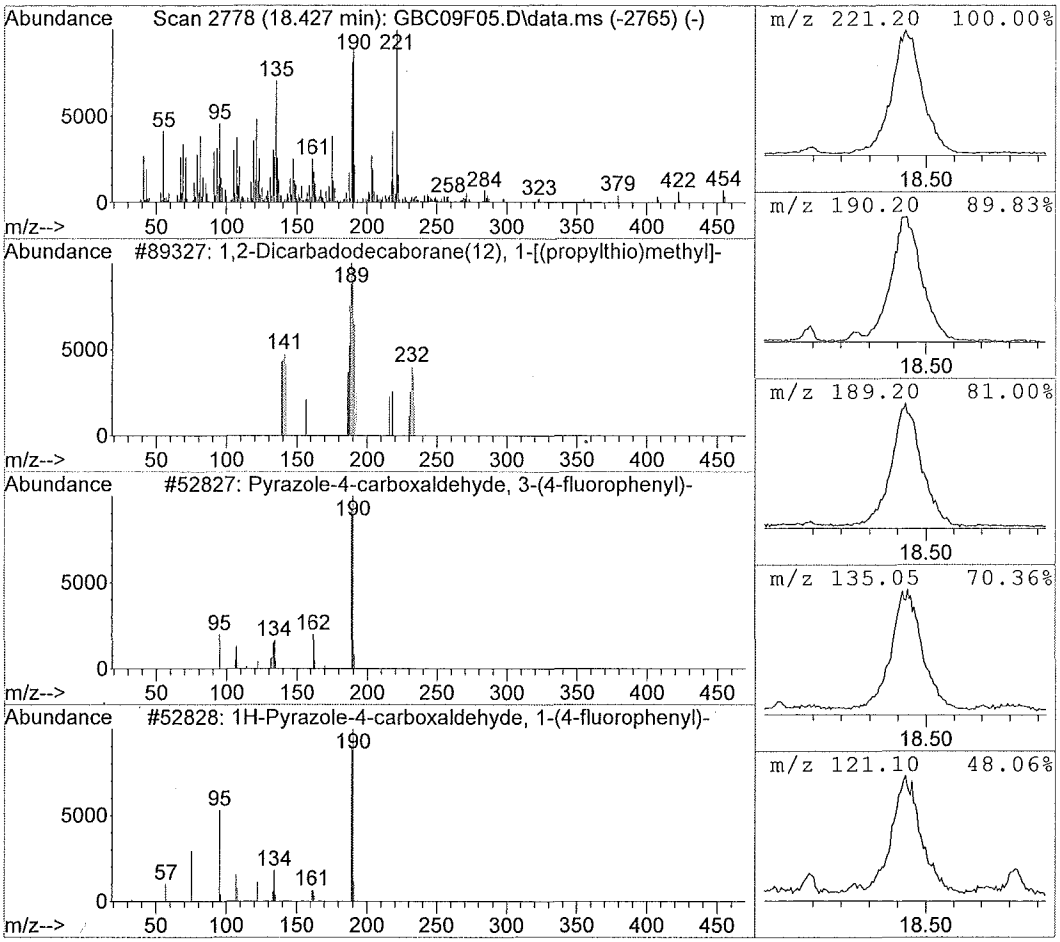


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.43	10.05 ug/ml	1538261	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Dicarbadodecaborane(12), 1-[(pr	89327	062906-36-9	91.00
2	Pyrazole-4-carboxaldehyde, 3-(4-flu	52827	306936-57-2	50.00
3	1H-Pyrazole-4-carboxaldehyde, 1-(4-	52828	1000338-05-6	38.00
4	4H-Cyclopenta[def]phenanthrene	53203	000203-64-5	30.00
5	.eta.<5>-Pentamethylcyclopentadieny	122335	034807-89-1	27.00

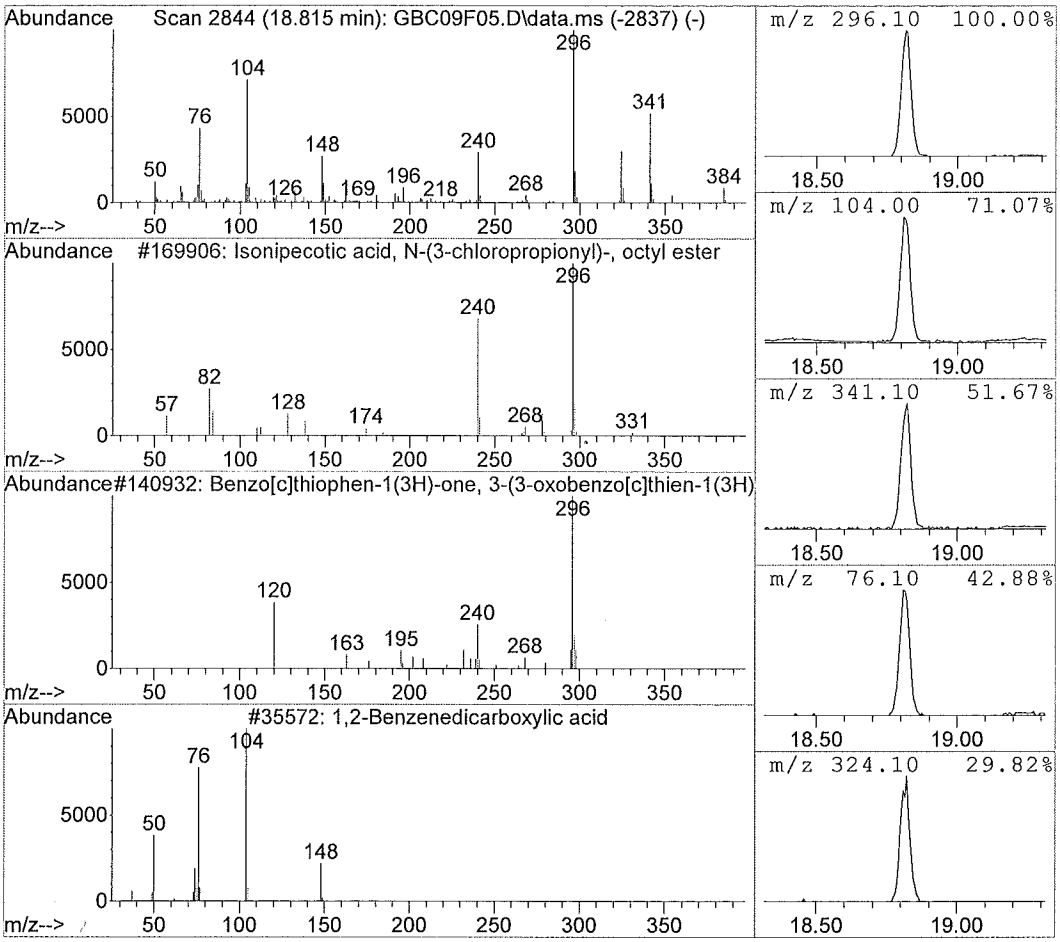


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.82	2.97 ug/ml	454491	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Isonipecotic acid, N-(3-chloropropi	169906	1000360-94-7	22.00
2	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	22.00
3	1,2-Benzenedicarboxylic acid	35572	000088-99-3	22.00
4	N,N'-Bis(2-hydroxy-alpha-methylbenz	141160	005464-60-8	22.00
5	1,3,5-Triphenylpyrazole	141410	002183-27-9	18.00



Library Search Compound Report

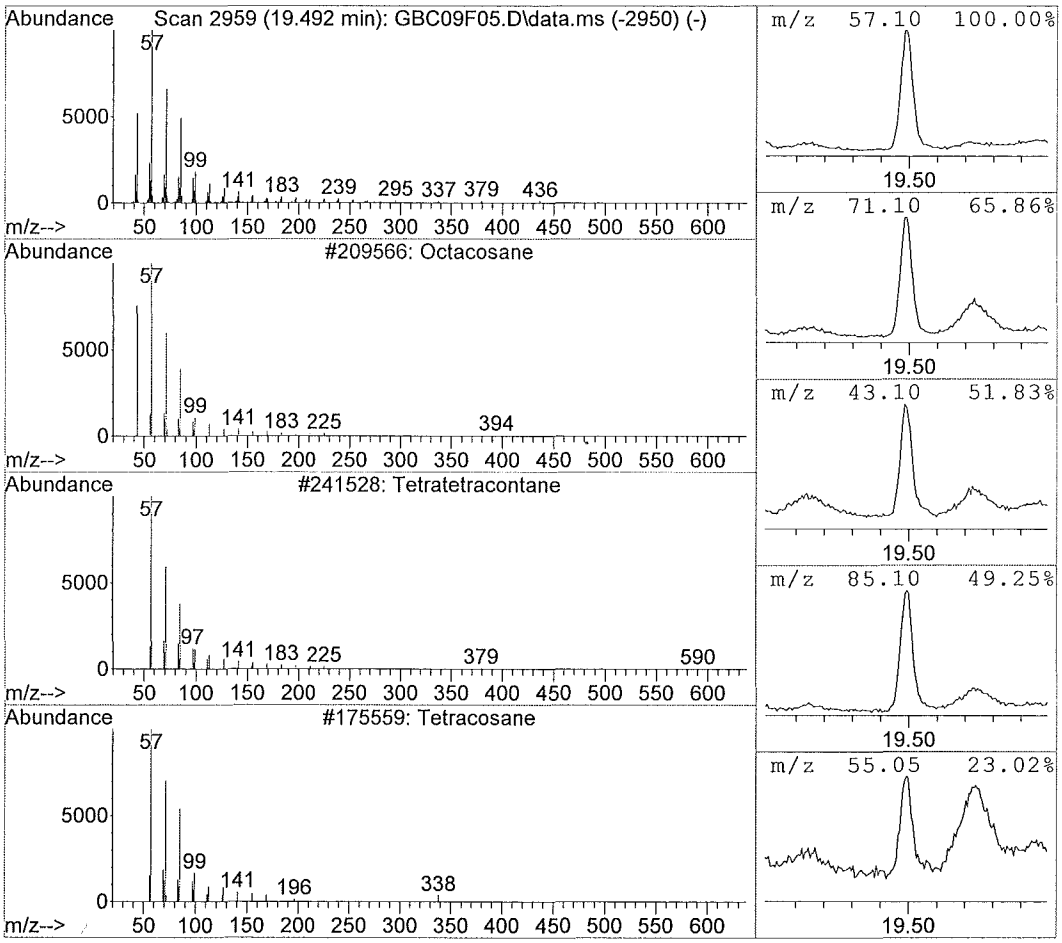
Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.49	3.02 ug/ml	462500	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosane	209566	000630-02-4	90.00
2	Tetratetracontane	241528	007098-22-8	90.00
3	Tetracosane	175559	000646-31-1	90.00
4	Hentriacontane	223851	000630-04-6	90.00
5	2-methyloctacosane	215181	1000376-72-8	90.00

SA

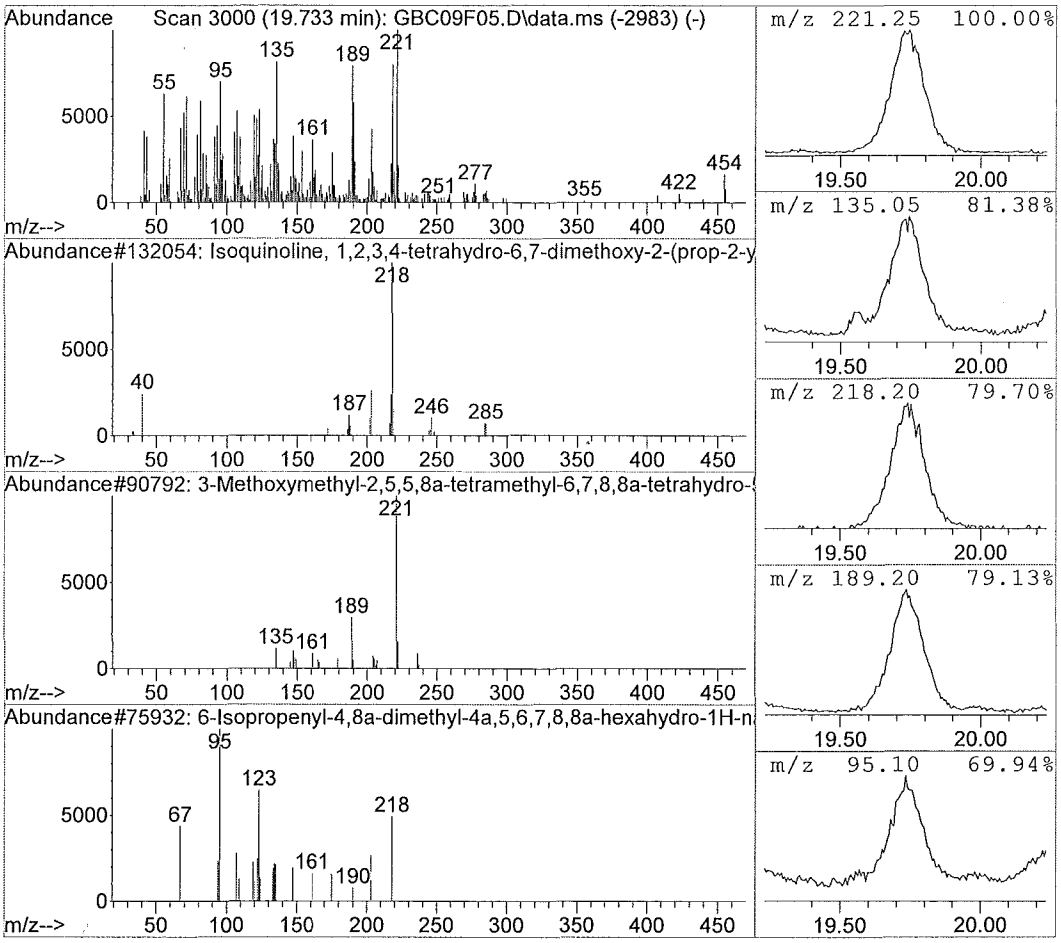


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.73	10.85 ug/ml	1661639	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Isoquinoline, 1,2,3,4-tetrahydro-6,	132054	308105-71-7	44.00
2	3-Methoxymethyl-2,5,5,8a-tetramethy	90792	064201-73-6	38.00
3	6-Isopropenyl-4,8a-dimethyl-4a,5,6,	75932	086917-79-5	38.00
4	2,2,6-Trimethyl-1-(2-methyl-cyclobu	75924	1000188-72-8	35.00
5	Indeno[2,1-b]chromene,	75955	000243-24-3	20.00

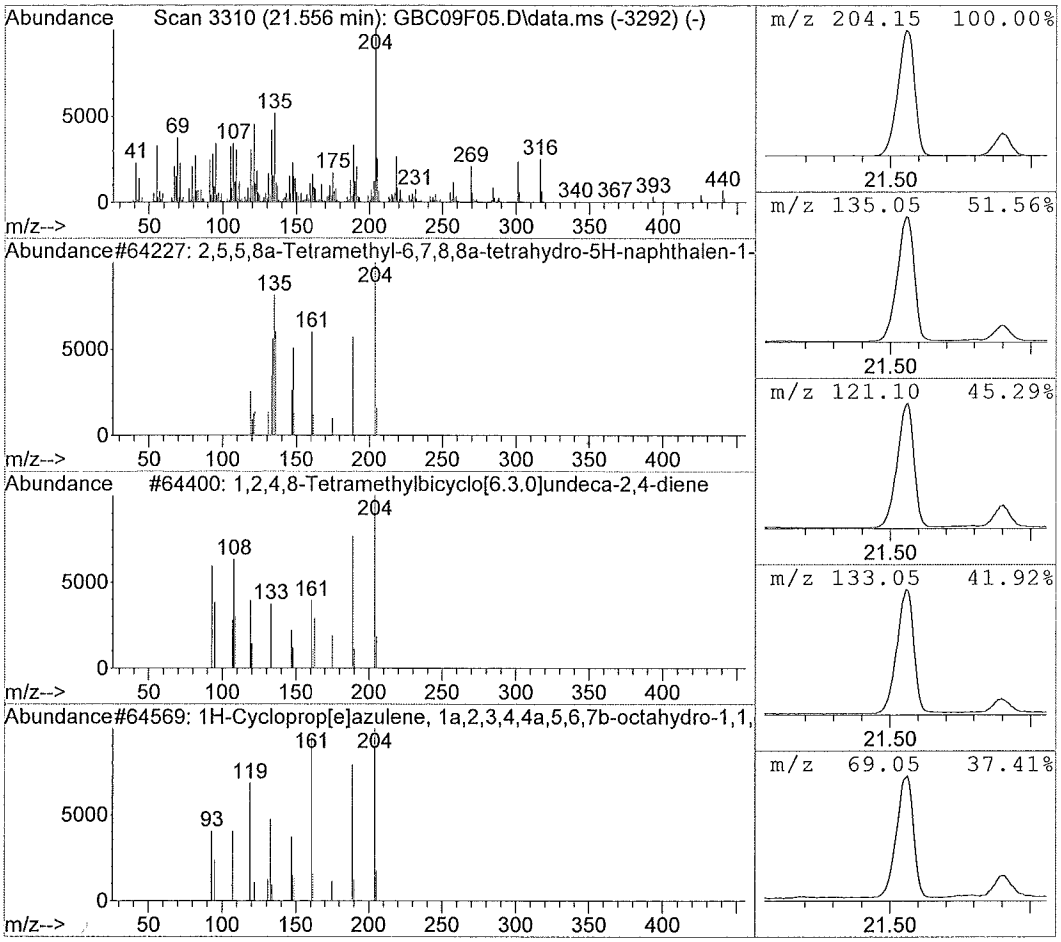


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.56	76.07 ug/ml	11646429	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	46.00
2	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	46.00
3	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	46.00
4	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
5	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	41.00

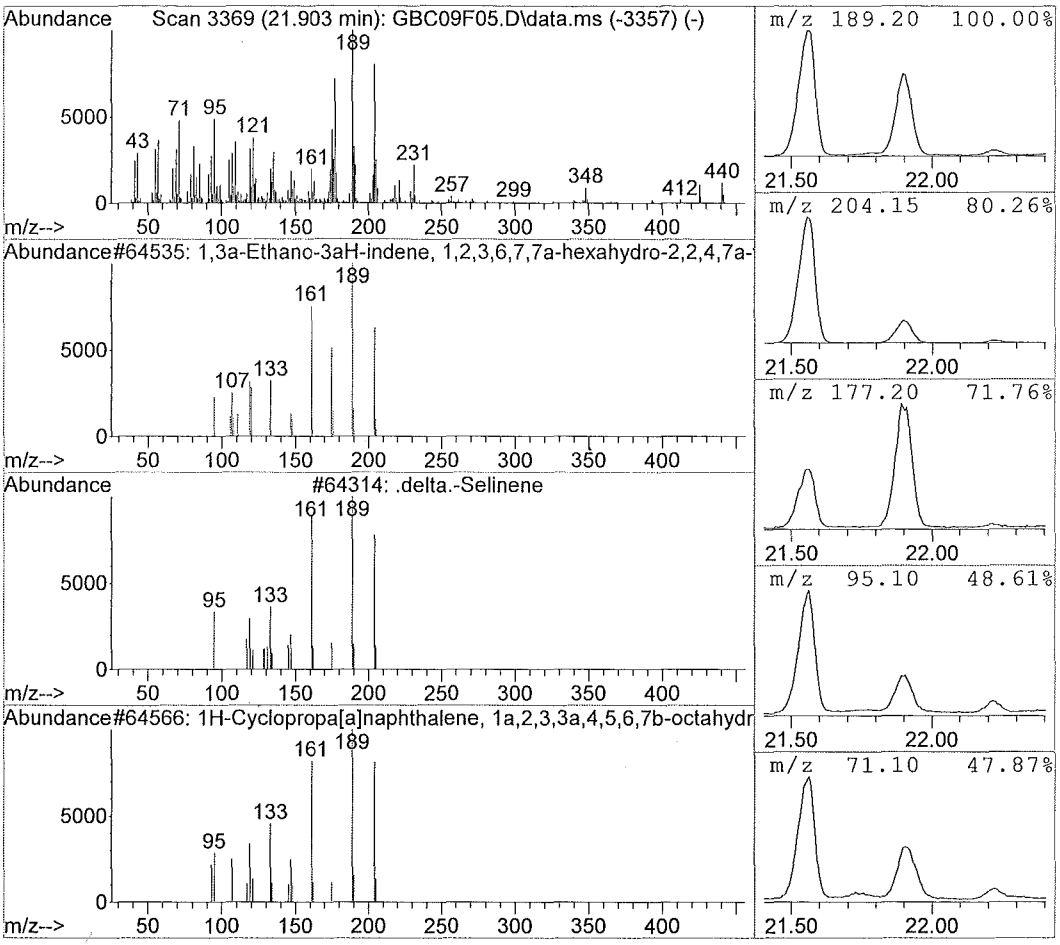


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.90	17.39 ug/ml	2662870	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3a-Ethano-3aH-indene, 1,2,3,6,7,7	64535	004545-68-0	64.00
2	.delta.-Selinene	64314	028624-23-9	47.00
3	1H-Cyclopropa[a]naphthalene, 1a,2,3	64566	000489-29-2	43.00
4	2,3-Dimethoxy-5-aminocinnamonitrile	63841	1000214-46-5	38.00
5	1-(4,5-Dimethyl-6H-thiopyran-2-yl)-	64845	1000318-25-0	35.00

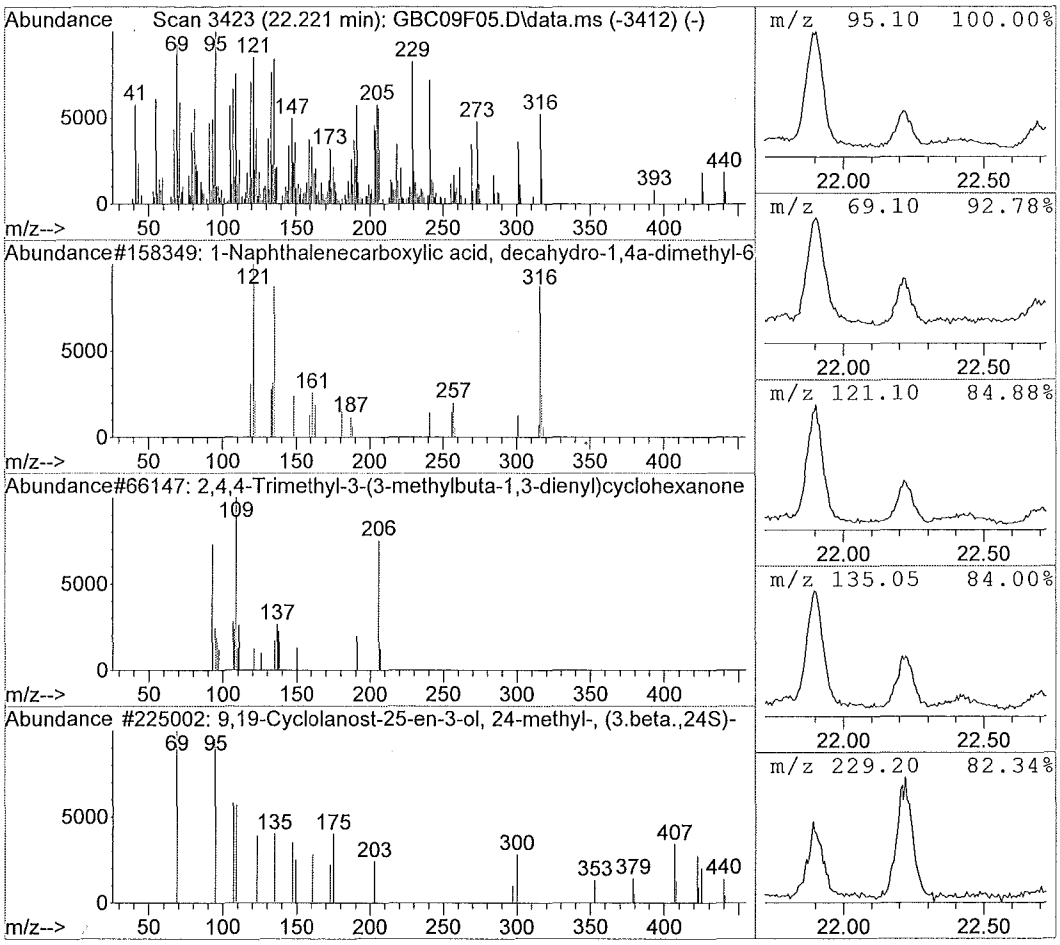


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.22	4.54 ug/ml	695529	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Naphthalenecarboxylic acid, decah	158349	001235-39-8	60.00
2	2,4,4-Trimethyl-3-(3-methylbuta-1,3	66147	097452-05-6	56.00
3	9,19-Cyclolanost-25-en-3-ol, 24-met	225002	000511-61-5	48.00
4	2-(4-Methoxy-2,5-dimethyl-phenyl)-9	158274	1000189-03-9	41.00
5	Cyclohexanone, 2,6-bis(2-methylprop	66124	092368-82-6	38.00

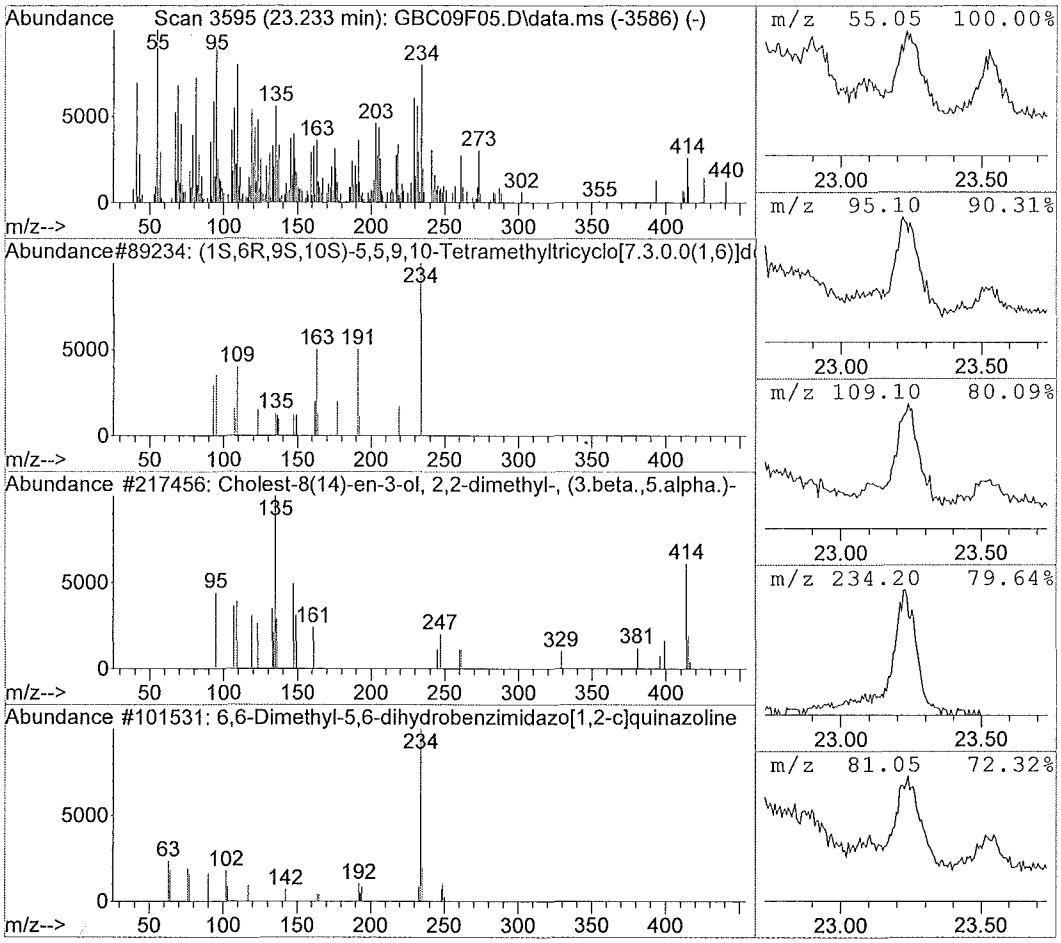


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.23	4.83 ug/ml	739761	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	(1S,6R,9S,10S)-5,5,9,10-Tetramethyl	89234	1000298-98-1	58.00
2	Cholest-8(14)-en-3-ol, 2,2-dimethyl	217456	064519-14-8	55.00
3	6,6-Dimethyl-5,6-dihydrobenzimidazo	101531	060418-25-9	25.00
4	1,9,12-Trioxa-4,6-diazacyclotetrade	89470	075491-64-4	25.00
5	Cholest-7-en-3-ol, 2,2-dimethyl-, (	217452	064519-13-7	25.00

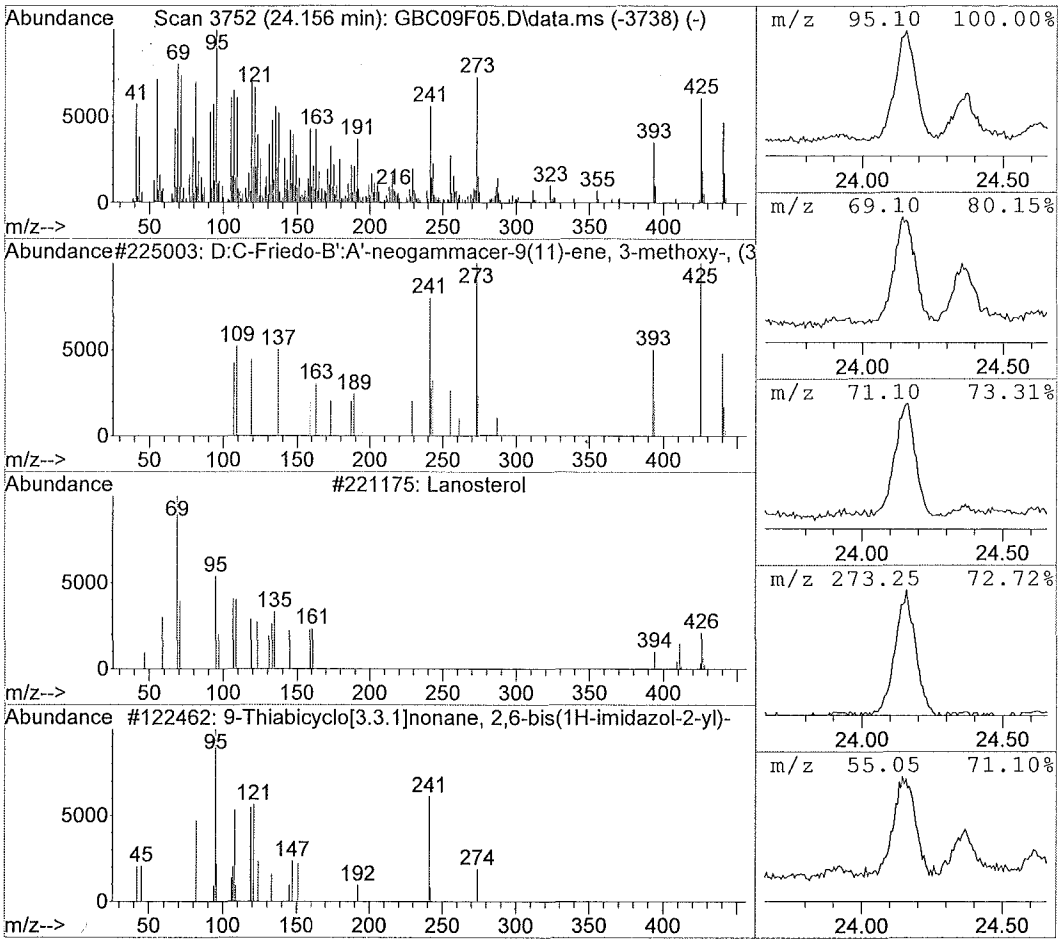


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.16	10.55 ug/ml	1614565	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D:C-Friedo-B':A'-neogammacer-9(11)-	225003	004555-56-0	58.00
2	Lanosterol	221175	000079-63-0	25.00
3	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	18.00
4	1,6-Dihydropyridazine-3-carboxylic	121642	1000304-05-0	18.00
5	Cyclopentanecarboxylic acid, 1,2,2-	144828	1000302-75-5	15.00

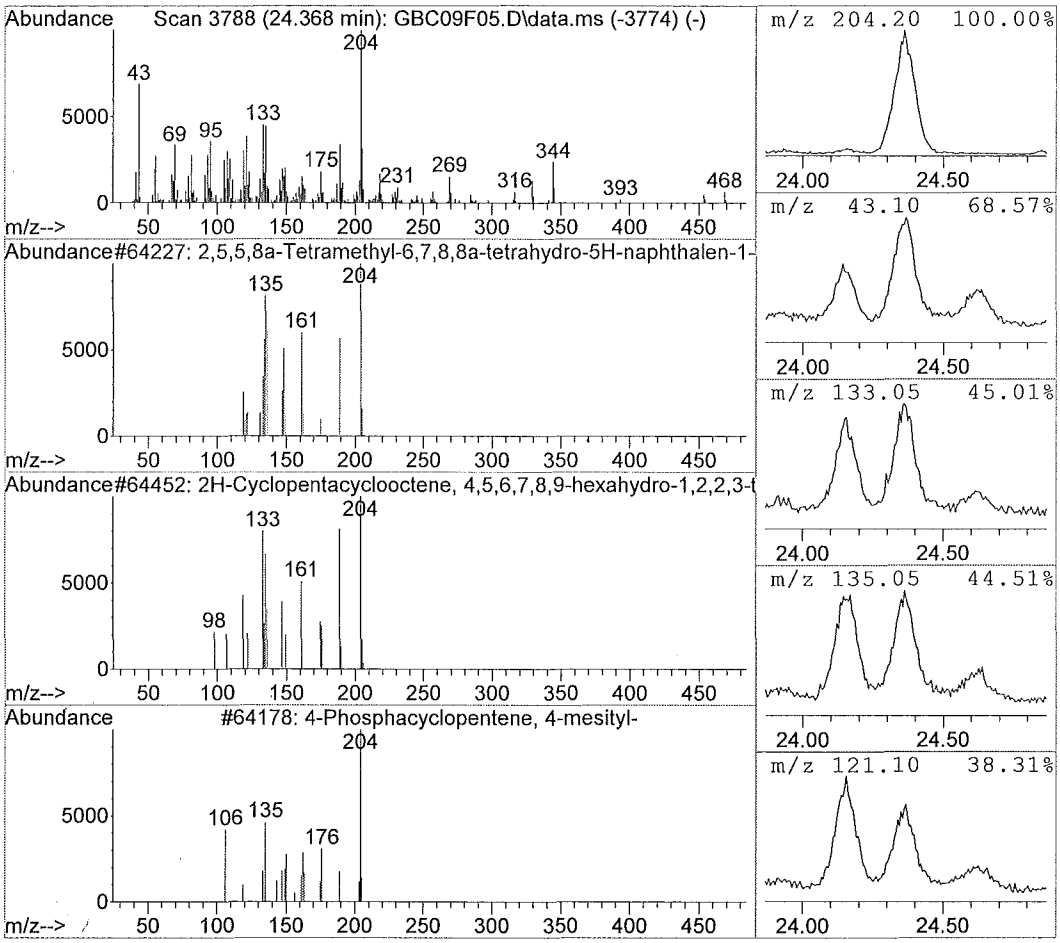


Data File : Z:\G\2015\JUN15\02JUN15\GBC09F05.D Vial: 8
Acq On : 06/02/2015 17:47 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.37	6.02 ug/ml	921994	Perylene-d12	3062011

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	60.00
2	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	53.00
3	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	52.00
4	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	43.00
5	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	43.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L63

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293006

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC10F06

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	1100	U
108-95-2	Phenol	1100	U
111-44-4	Bis(2-chloroethyl)ether	1100	U
95-57-8	2-Chlorophenol	1100	U
95-48-7	2-Methylphenol	1100	U
108-60-1	2,2'-Oxybis(1-chloropropane)	1100	U
98-86-2	Acetophenone	1100	U
106-44-5	4-Methylphenol	1100	U
621-64-7	N-Nitroso-di-n-propylamine	1100	U
67-72-1	Hexachloroethane	1100	U
98-95-3	Nitrobenzene	1100	U
78-59-1	Isophorone	1100	U
88-75-5	2-Nitrophenol	1100	U
105-67-9	2,4-Dimethylphenol	1100	U
111-91-1	Bis(2-chloroethoxy)methane	1100	U
120-83-2	2,4-Dichlorophenol	1100	U
91-20-3	Naphthalene	1100	U
106-47-8	4-Chloroaniline	1100	U
87-68-3	Hexachlorobutadiene	1100	U
105-60-2	Caprolactam	1100	U
59-50-7	4-Chloro-3-methylphenol	1100	U
91-57-6	2-Methylnaphthalene	1100	U
77-47-4	Hexachlorocyclopentadiene	1100	U
88-06-2	2,4,6-Trichlorophenol	1100	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	1100	U
91-58-7	2-Chloronaphthalene	1100	U
88-74-4	2-Nitroaniline	2100	U
131-11-3	Dimethylphthalate	1100	U
606-20-2	2,6-Dinitrotoluene	1100	U
208-96-8	Acenaphthylene	1100	U
99-09-2	3-Nitroaniline	2100	U
83-32-9	Acenaphthene	1100	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L63

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293006

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC10F06

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	2100	U
100-02-7	4-Nitrophenol	2100	U
132-64-9	Dibenzofuran	1100	U
121-14-2	2,4-Dinitrotoluene	1100	U
84-66-2	Diethylphthalate	1100	U
86-73-7	Fluorene	1100	U
7005-72-3	4-Chlorophenyl-phenylether	1100	U
100-01-6	4-Nitroaniline	2100	U
534-52-1	4,6-Dinitro-2-methylphenol	2100	U
86-30-6	N-Nitrosodiphenylamine[1]	1100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1100	U
101-55-3	4-Bromophenyl-phenylether	1100	U
118-74-1	Hexachlorobenzene	1100	U
1912-24-9	Atrazine	1100	U
87-86-5	Pentachlorophenol	2100	U
85-01-8	Phenanthrene	1100	U
120-12-7	Anthracene	1100	U
86-74-8	Carbazole	1100	U
84-74-2	Di-n-butylphthalate	1100	U
206-44-0	Fluoranthene	1100	U
129-00-0	Pyrene	1100	U
85-68-7	Butylbenzylphthalate	1100	U
91-94-1	3,3'-Dichlorobenzidine	1100	U
56-55-3	Benzo(a)anthracene	1100	U
218-01-9	Chrysene	1100	U
117-81-7	Bis(2-ethylhexyl)phthalate	1100	U
117-84-0	Di-n-octylphthalate	1100	U
205-99-2	Benzo(b)fluoranthene	1100	U
207-08-9	Benzo(k)fluoranthene	1100	U
50-32-8	Benzo(a)pyrene	1100	U
193-39-5	Indeno(1,2,3-cd)pyrene	1100	U
53-70-3	Dibenzo(a,h)anthracene	1100	U
191-24-2	Benzo(g,h,i)perylene	1100	U
58-90-2	2,3,4,6-Tetrachlorophenol	1100	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L63

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293006
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC10F06
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 22. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015
GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 5.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Guanidine	3.56	4800	JB
02	559-74-0	Friedelan-3-one	14.54	860	JN
03	301-02-0	9-Octadecenamide, (Z)-	15.16	1700	JNB
04		Unknown 4-Hexen-1-ol, 6-(2,6,6-trimethyl-1-cyclc	18.80	1400	J
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	560	J

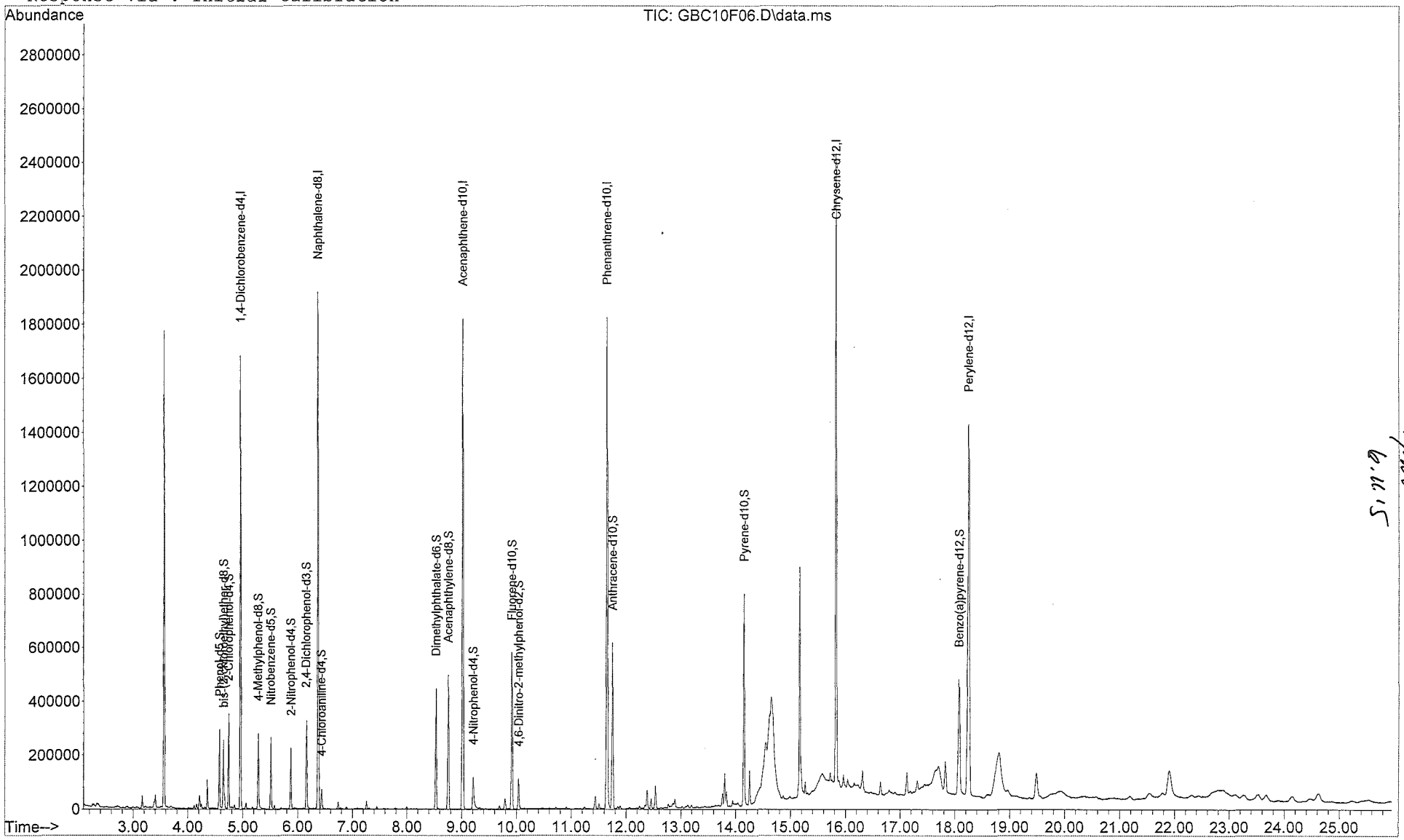
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC10F06.D Vial: 9
Acq On : 06/02/2015 18:20 Operator: DJC
Sample : 1514293006 F9L63 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 02 18:46:30 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC10F06.D Vial: 9
Acq On : 06/02/2015 18:20 Operator: DJC
Sample : 1514293006 F9L63 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 02 18:46:30 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	304352	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1149934	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	648596	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1080515	20.00 ug/ml
73) Chrysene-d12	15.83	240	1059855	20.00 ug/ml
81) Perylene-d12	18.25	264	1044250	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	123937	5.840ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	56364	4.337ug/mL
7) 2-Chlorophenol-d4	4.74	132	116172	5.575ug/ml
13) 4-Methylphenol-d8	5.28	113	76423	4.625ug/mL
17) Nitrobenzene-d5	5.51	128	49787	5.160ug/ml
21) 2-Nitrophenol-d4	5.87	143	59524	5.536ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	93699	5.949ug/mL
28) 4-Chloroaniline-d4	6.43	131	34478	2.018ug/mL
42) Dimethylphthalate-d6	8.53	166	289352	7.336ug/mL
45) Acenaphthylene-d8	8.76	160	332143	6.309ug/mL
50) 4-Nitrophenol-d4	9.21	143	47439	5.648ug/mL
57) Fluorene-d10	9.92	176	237569	6.934ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	28597	4.029ug/mL
69) Anthracene-d10	11.75	188	379177	6.937ug/mL
75) Pyrene-d10	14.15	212	339649	7.049ug/mL
86) Benzo(a)pyrene-d12	18.07	264	309222	6.528ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC10F06.D Vial: 9
Acq On : 06/02/2015 18:20 Operator: DJC
Sample : 1514293006 F9L63 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 02 18:46:30 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

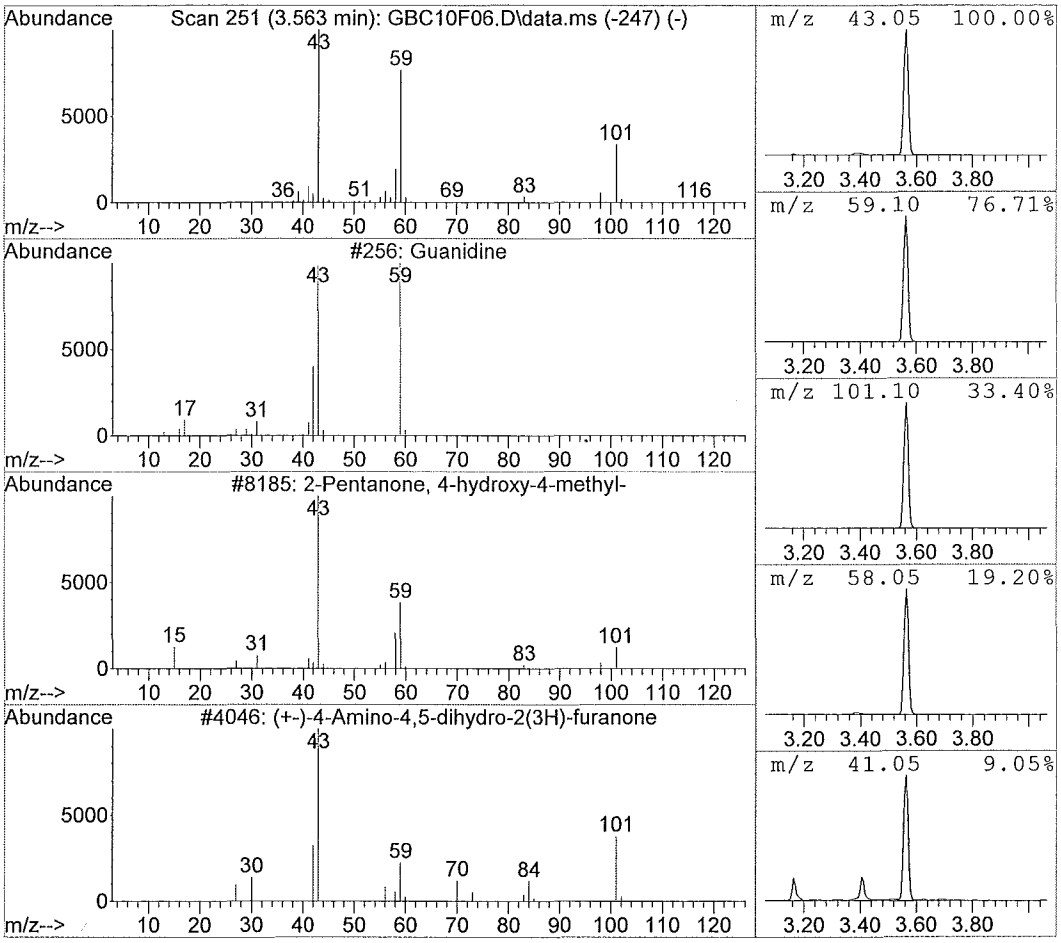
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC10F06.D Vial: 9
Acq On : 06/02/2015 18:20 Operator: DJC
Sample : 1514293006 F9L63 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	22.33 ug/ml	1914567	1,4-Dichlorobenzene-d4	1714974

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	256	000113-00-8	47.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	38.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Morpholine, 4-methyl-	4076	000109-02-4	9.00

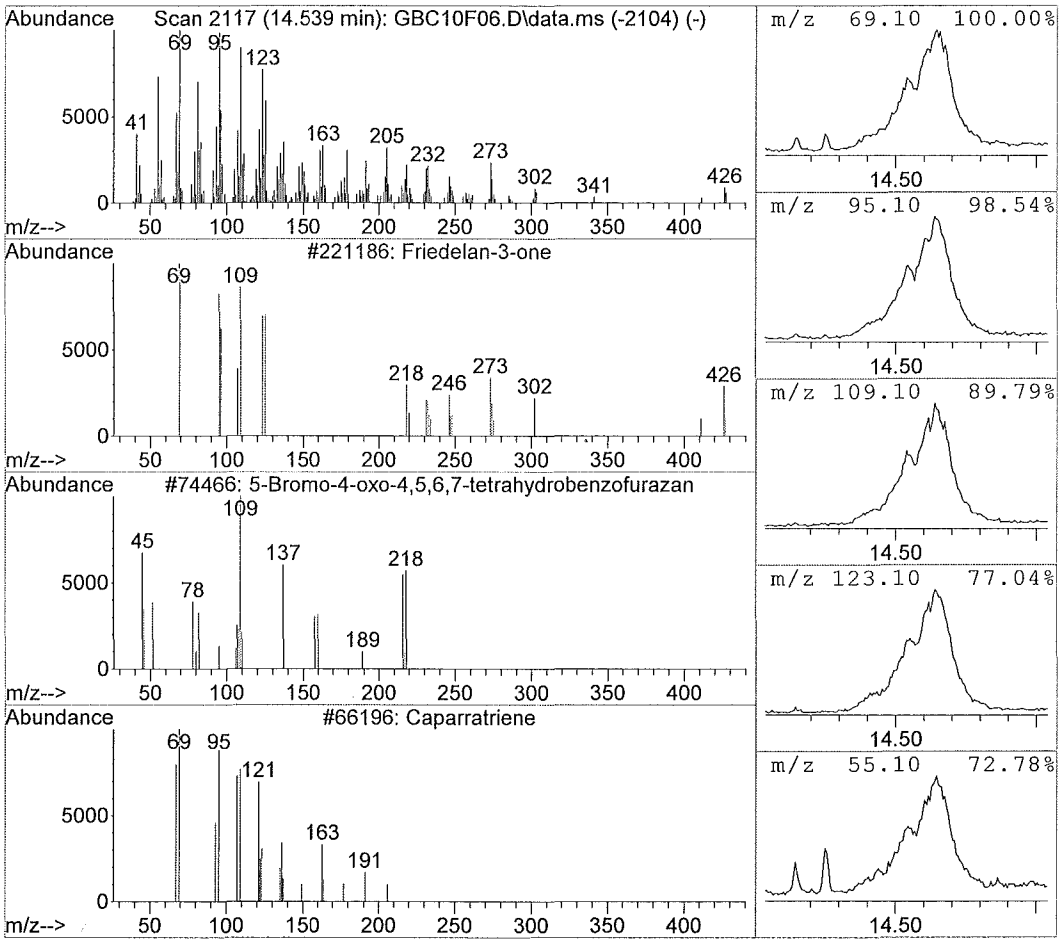


Data File : Z:\G\2015\JUN15\02JUN15\GBC10F06.D Vial: 9
Acq On : 06/02/2015 18:20 Operator: DJC
Sample : 1514293006 F9L63 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.54	4.06 ug/ml	599859	Chrysene-d12	2958284

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Friedelan-3-one	221186	000559-74-0	94.00
2	5-Bromo-4-oxo-4,5,6,7-tetrahydroben	74466	300574-36-1	53.00
3	Caparratriene	66196	1000374-08-7	45.00
4	6-Isopropenyl-4,8a-dimethyl-4a,5,6,	75932	086917-79-5	42.00
5	2,3,3-Trimethyl-2-(3-methyl-buta-1,	66157	1000193-60-6	30.00



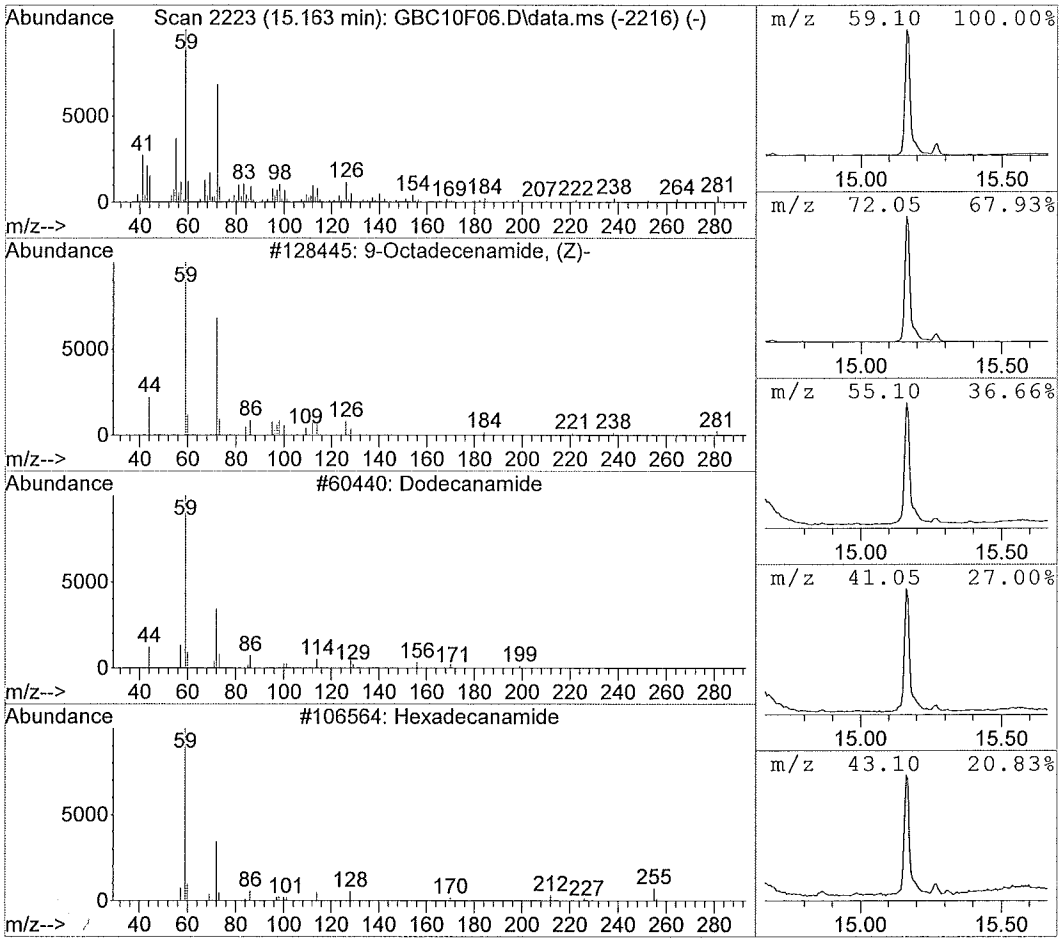
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC10F06.D Vial: 9
Acq On : 06/02/2015 18:20 Operator: DJC
Sample : 1514293006 F9L63 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.16	8.07 ug/ml	1193022	Chrysene-d12	2958284

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	98.00
2	Dodecanamide	60440	001120-16-7	50.00
3	Hexadecanamide	106564	000629-54-9	50.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	47.00
5	Nonanamide	29478	001120-07-6	47.00

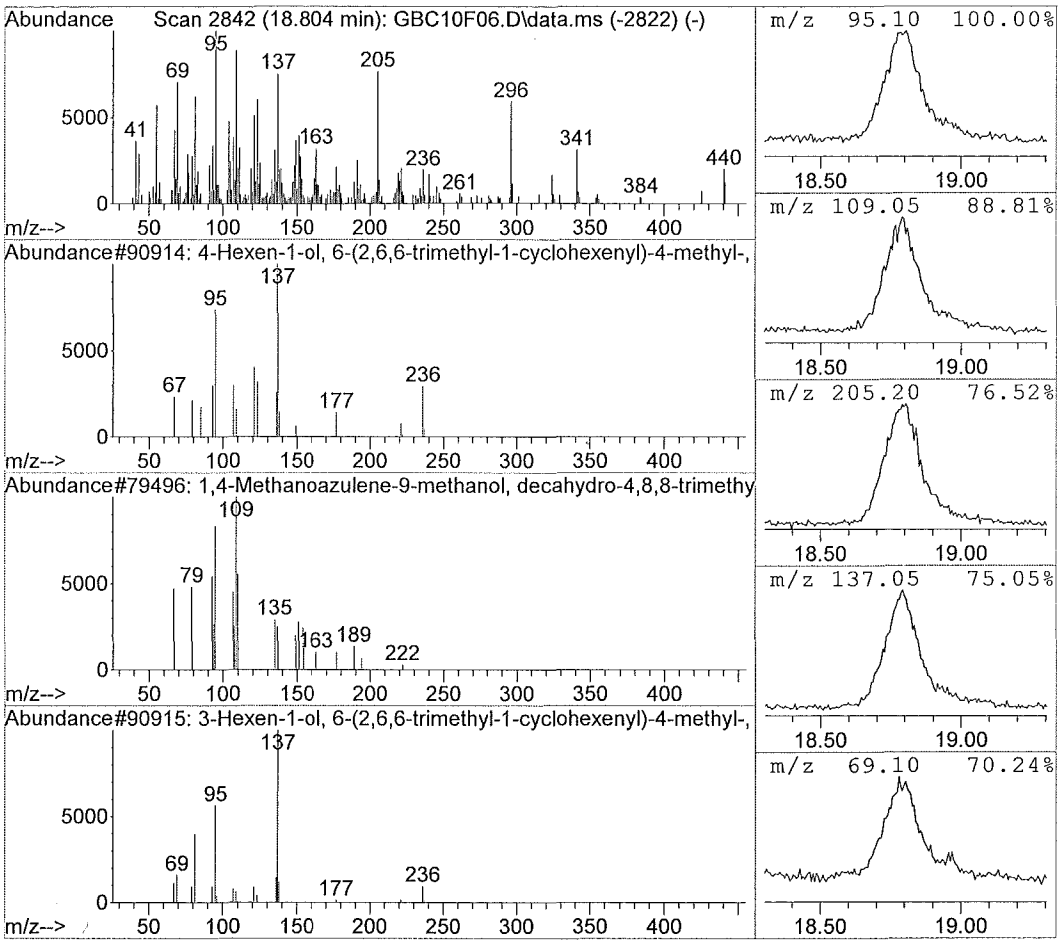


Data File : Z:\G\2015\JUN15\02JUN15\GBC10F06.D Vial: 9
Acq On : 06/02/2015 18:20 Operator: DJC
Sample : 1514293006 F9L63 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.80	6.36 ug/ml	980956	Perylene-d12	3083094

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Hexen-1-ol, 6-(2,6,6-trimethyl-1-	90914	1000221-57-6	42.00
2	1,4-Methanoazulene-9-methanol, deca	79496	001139-17-9	35.00
3	3-Hexen-1-ol, 6-(2,6,6-trimethyl-1-	90915	110202-07-8	30.00
4	Ethanone, 1-(1,4-dimethyl-3-cyclohe	25270	043219-68-7	25.00
5	Cyclohexane-1-methanol, 3,3-dimethy	67884	1000196-01-5	25.00



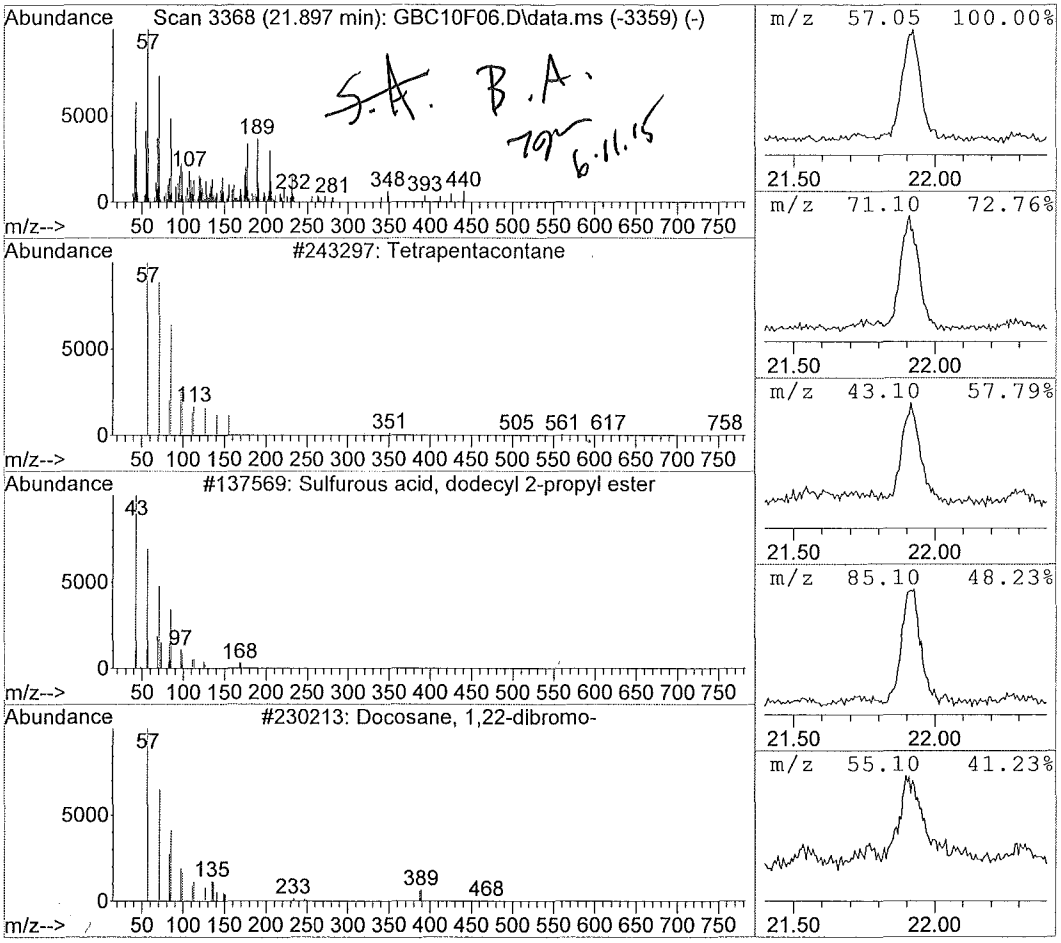
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC10F06.D Vial: 9
Acq On : 06/02/2015 18:20 Operator: DJC
Sample : 1514293006 F9L63 (5) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.90	2.61 ug/ml	402034	Perylene-d12	3083094

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetrapentacontane	243297	005856-66-6	43.00
2	Sulfurous acid, dodecyl 2-propyl es	137569	1000309-12-3	43.00
3	Docosane, 1,22-dibromo-	230213	034540-49-3	43.00
4	Eicosane	129493	000112-95-8	42.00
5	Nonacosane	215180	000630-03-5	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L64

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC11F07

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L64

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC11F07

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	16.	J
117-81-7	Bis(2-ethylhexyl)phthalate	32.	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L64

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293007
Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC11F07
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015
GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.58	4500	J
02		Unknown 2(5H)-Furanone, 5,5-dimethyl-	4.35	230	J
03	629-54-9	Hexadecanamide	14.25	170	JNB
04	301-02-0	9-Octadecenamide, (Z)-	15.17	1300	JNB
05		Unknown Tetradecanamide	15.96	81.	J
06		Unknown 2-Cyclohexyl-isoxazolidin-5-ol	16.31	150	J
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	280	J

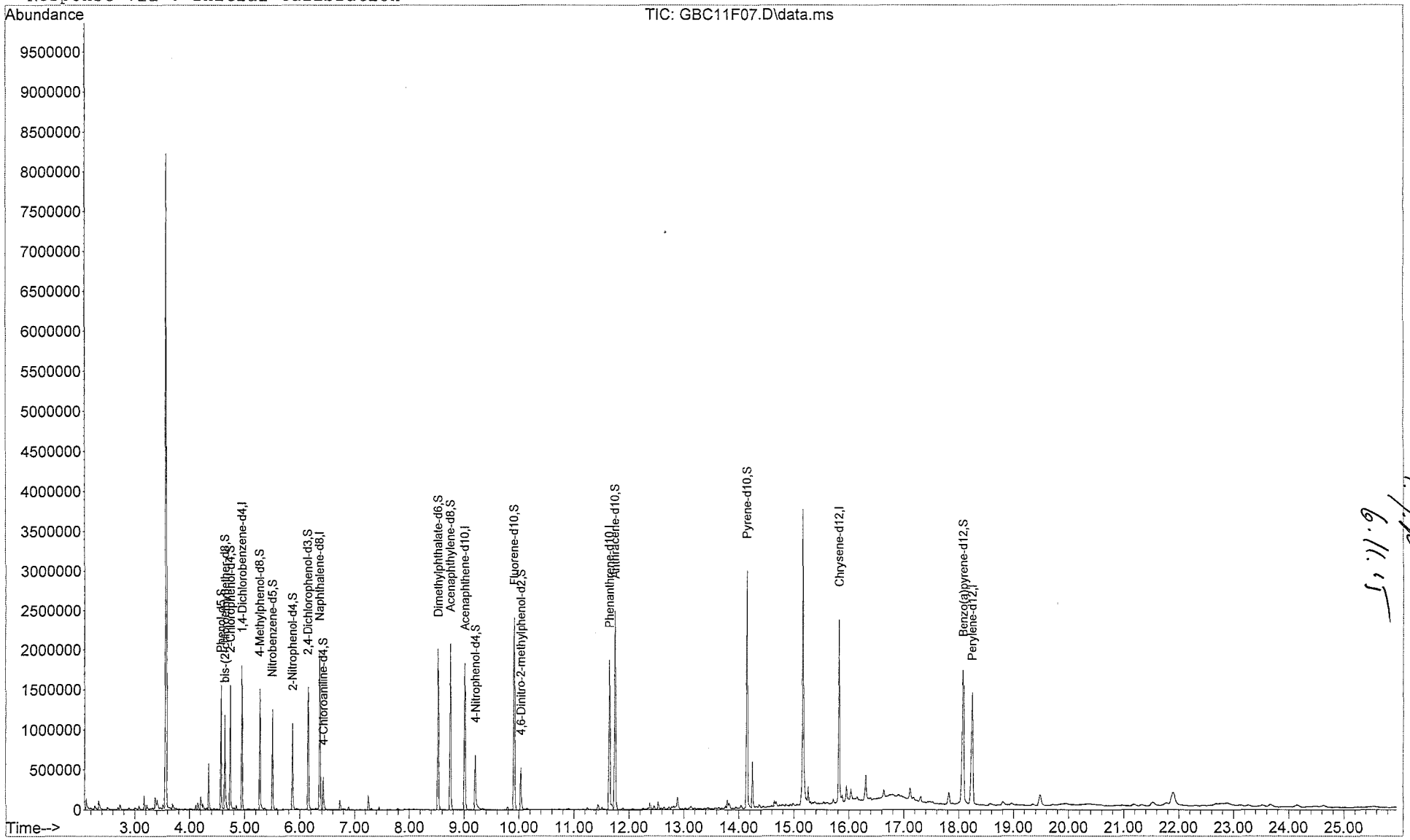
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 14:39:57 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:39:57 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	314813	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1170762	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	661575	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1094845	20.00 ug/ml
73) Chrysene-d12	15.83	240	1058302	20.00 ug/ml
81) Perylene-d12	18.25	264	1017847	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	548324	24.977ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	253406	18.852ug/mL
7) 2-Chlorophenol-d4	4.75	132	516651	23.970ug/ml
13) 4-Methylphenol-d8	5.28	113	374763	21.927ug/mL
17) Nitrobenzene-d5	5.51	128	227462	23.157ug/ml
21) 2-Nitrophenol-d4	5.87	143	281668	25.731ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	421057	26.257ug/mL
28) 4-Chloroaniline-d4	6.43	131	169000	9.715ug/mL
42) Dimethylphthalate-d6	8.53	166	1235262	30.702ug/mL
45) Acenaphthylene-d8	8.76	160	1362238	25.370ug/mL
50) 4-Nitrophenol-d4	9.21	143	228528	26.673ug/mL
57) Fluorene-d10	9.92	176	992370	28.397ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	127360	17.710ug/mL
69) Anthracene-d10	11.75	188	1566078	28.277ug/mL
75) Pyrene-d10	14.16	212	1401852	29.137ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1264853	27.396ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

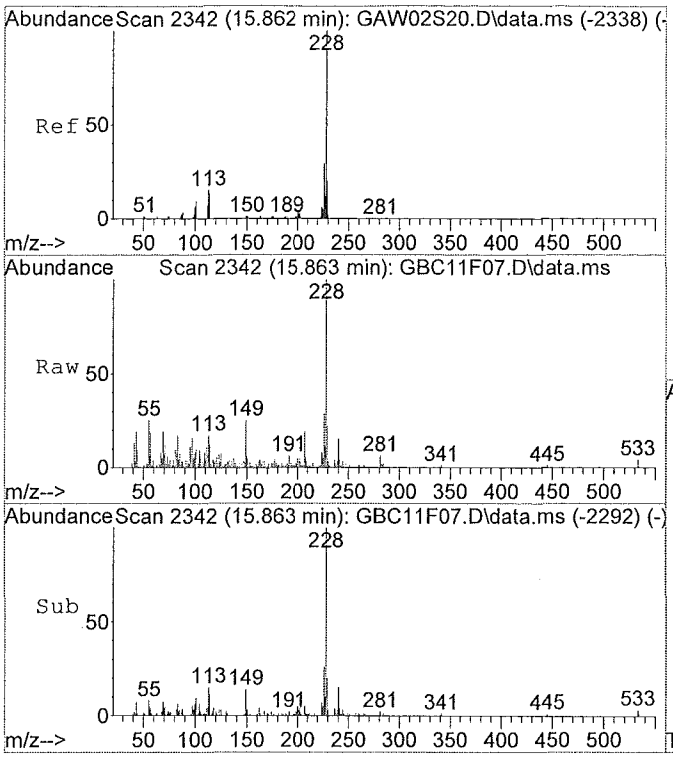
Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:39:57 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	15.86	228	23800	0.436ug/ml	95
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	42848	0.839ug/ml	88
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

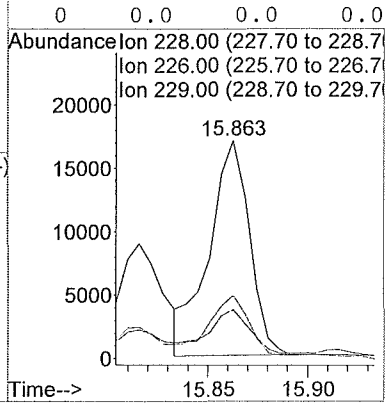
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

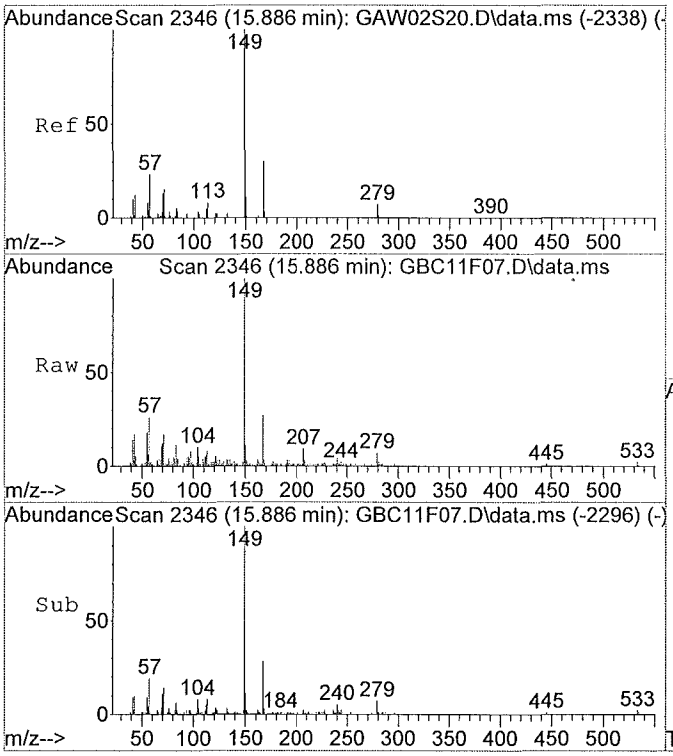


#79
Chrysene
Concen: 0.44 ug/ml
RT: 15.86 min Scan# 2342
Delta R.T. -0.01 min
Lab File: GBC11F07.D
Acq: 06/02/2015 18:53

Tgt Ion:228 Resp: 23800

Ion	Ratio	Lower	Upper
228	100		
226	27.7	20.1	37.3
229	23.4	13.7	25.5
0	0.0	0.0	0.0

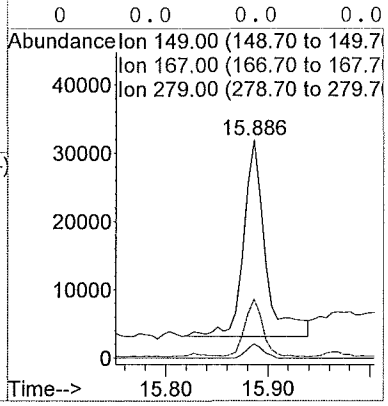




#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.84 ug/ml
RT: 15.89 min Scan# 2346
Delta R.T. -0.01 min
Lab File: GBC11F07.D
Acq: 06/02/2015 18:53

Tgt Ion:149 Resp: 42848

Ion	Ratio	Lower	Upper
149	100		
167	23.9	22.0	40.8
279	5.5	5.0	9.2
0	0.0	0.0	0.0



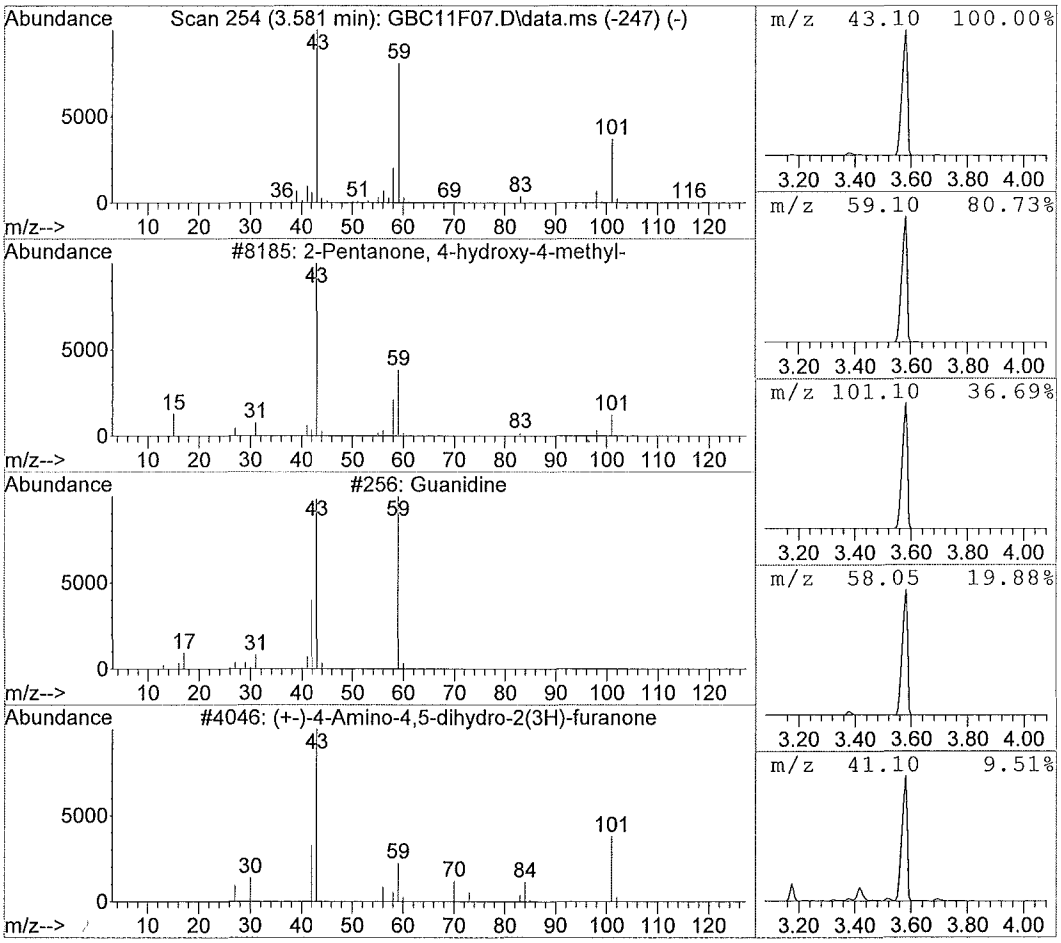
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.58	118.78 ug/ml	10456719	1,4-Dichlorobenzene-d4	1760677

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	Guanidine	256	000113-00-8	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Morpholine, 4-methyl-	4076	000109-02-4	9.00

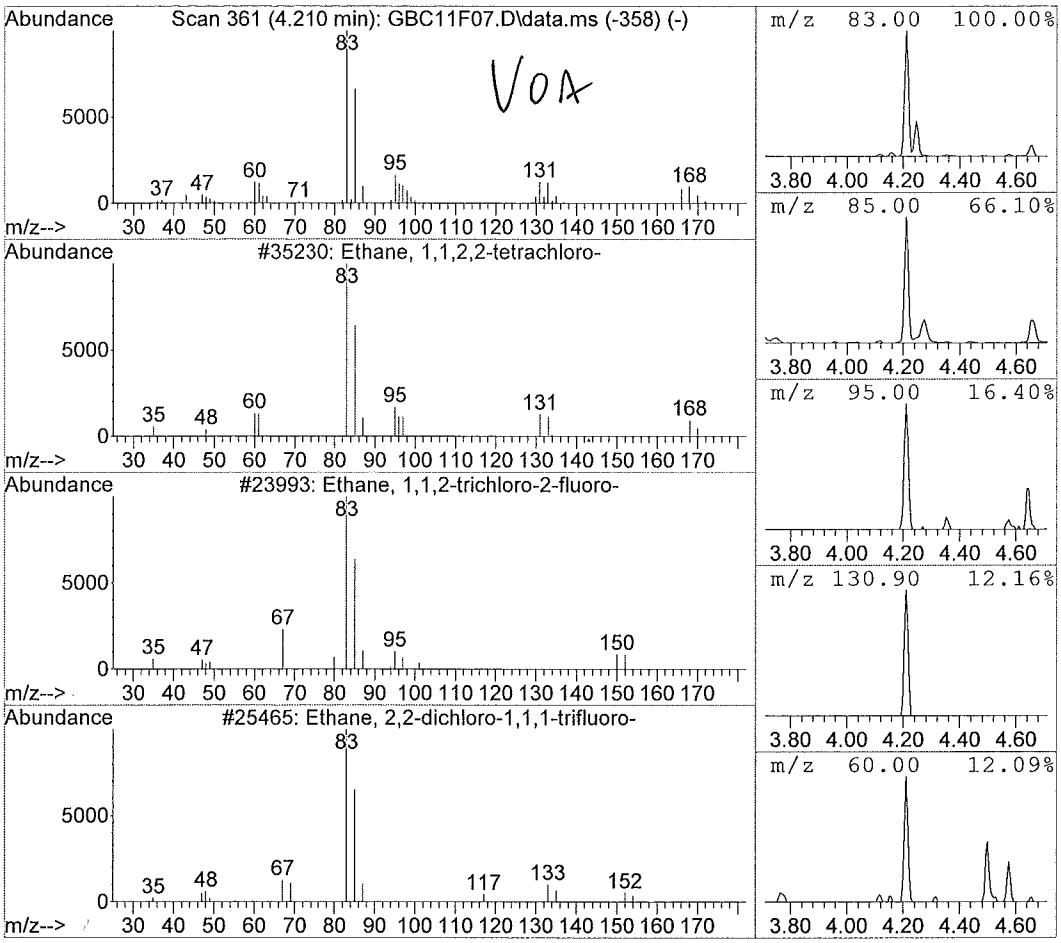


Data File : Z:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.00 ug/ml	176272	1,4-Dichlorobenzene-d4	1760677

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	98.00
2	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	45.00
3	Ethane, 2,2-dichloro-1,1,1-trifluor	25465	000306-83-2	40.00
4	Methane, dichloronitro-	13083	007119-89-3	38.00
5	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	38.00



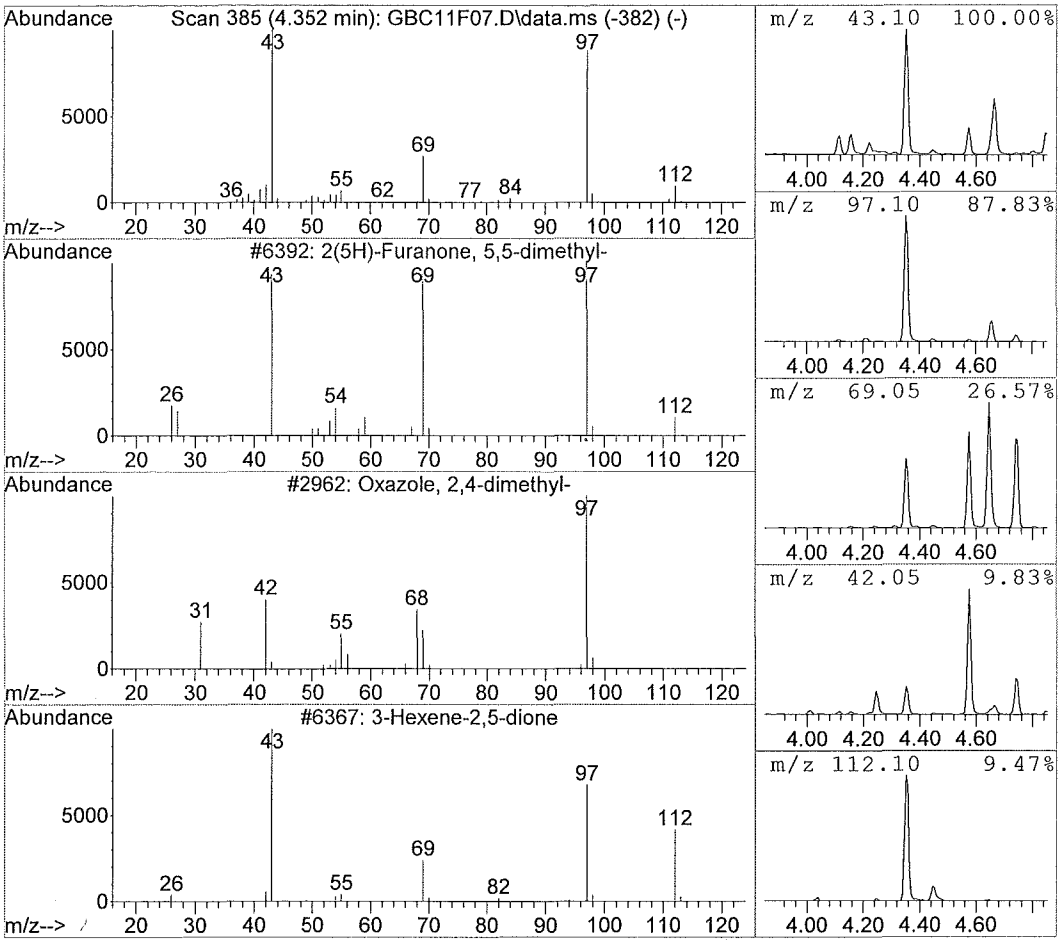
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	6.07 ug/ml	534216	1,4-Dichlorobenzene-d4	1760677

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
2	Oxazole, 2,4-dimethyl-	2962	007208-05-1	59.00
3	3-Hexene-2,5-dione	6367	004436-75-3	38.00
4	3-Hexen-2-one, 5-methyl-	6518	005166-53-0	9.00
5	Cyclohexane, 1,3-dimethyl-, cis-	6808	000638-04-0	9.00

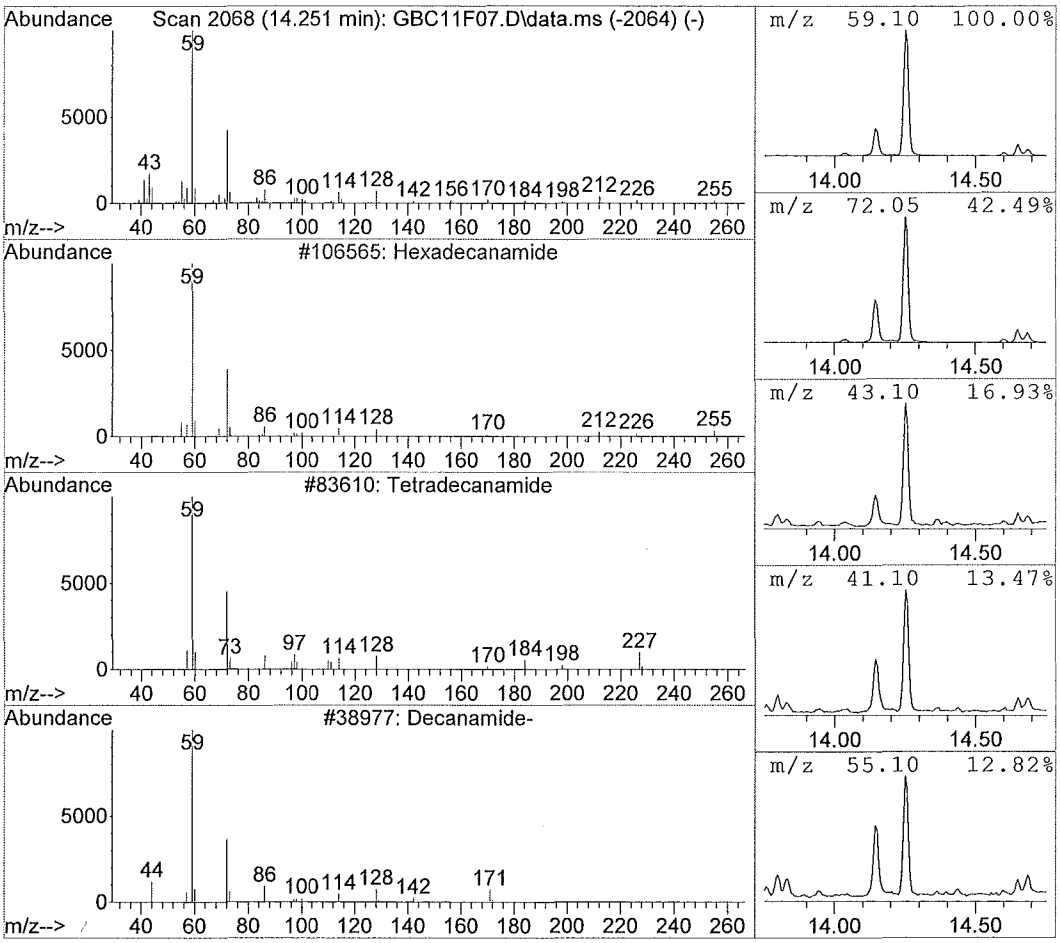


Data File : Z:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.25	4.57 ug/ml	689412	Chrysene-d12	3017749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	96.00
2	Tetradecanamide	83610	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	83.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	72.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00

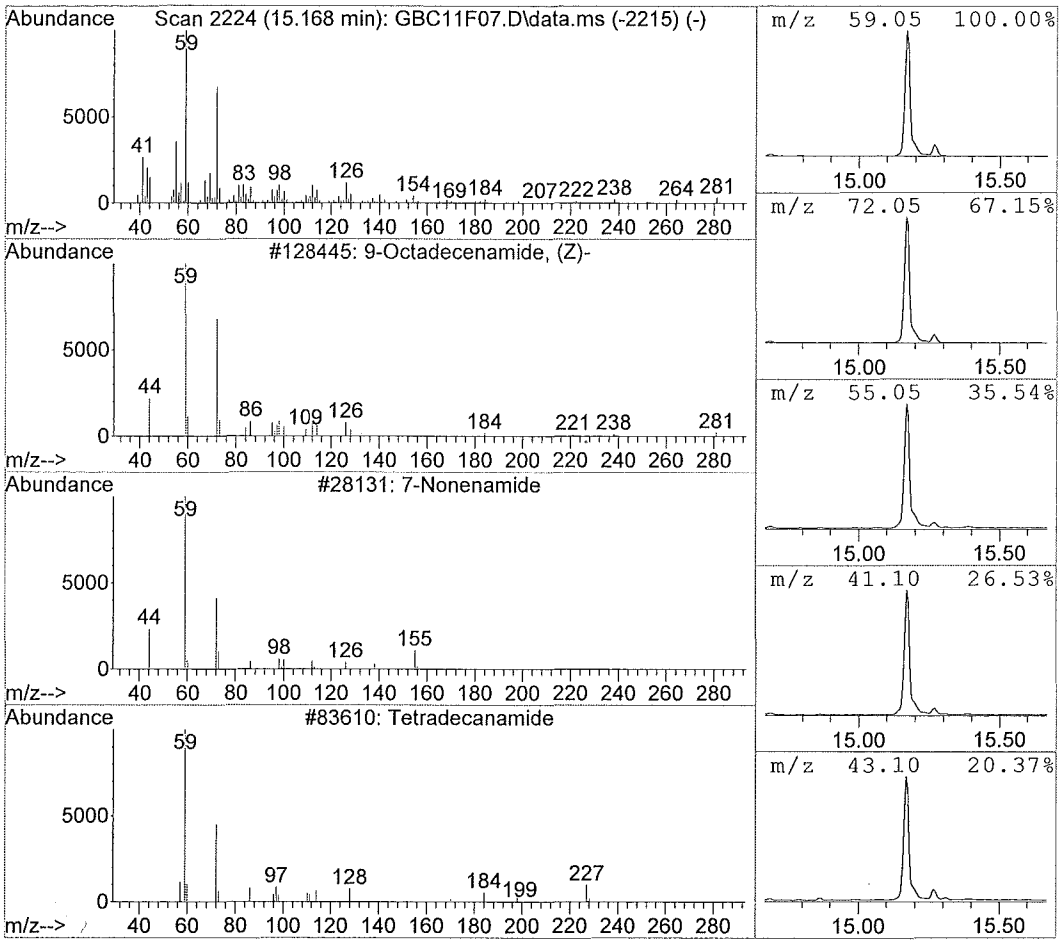


Data File : Z:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	34.11 ug/ml	5146200	Chrysene-d12	3017749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	7-Nonenamide	28131	090949-53-4	72.00
3	Tetradecanamide	83610	000638-58-4	58.00
4	Octanamide	20317	000629-01-6	53.00
5	Nonanamide	29478	001120-07-6	50.00

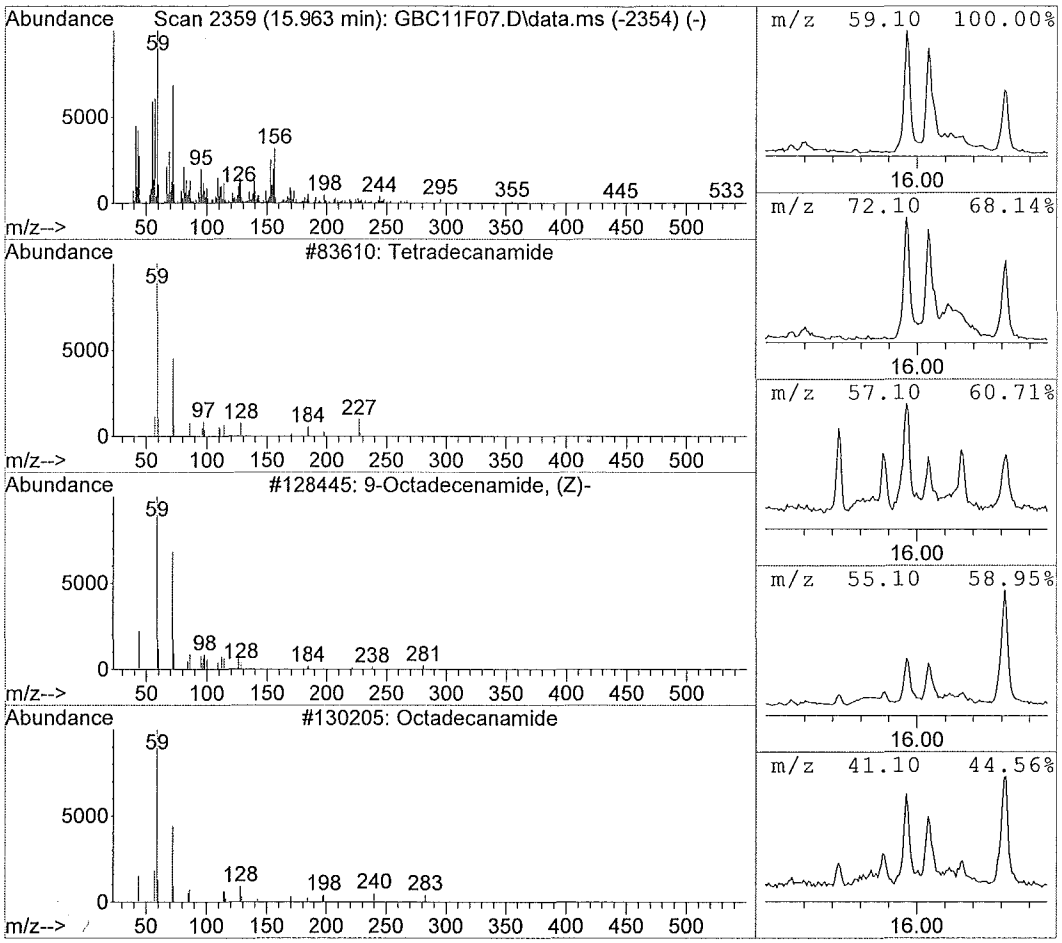


Data File : Z:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.96	2.15 ug/ml	323899	Chrysene-d12	3017749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	60.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	53.00
3	Octadecanamide	130205	000124-26-5	47.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	43.00
5	3-Cyclohexylpropionamide	28138	004361-29-9	38.00

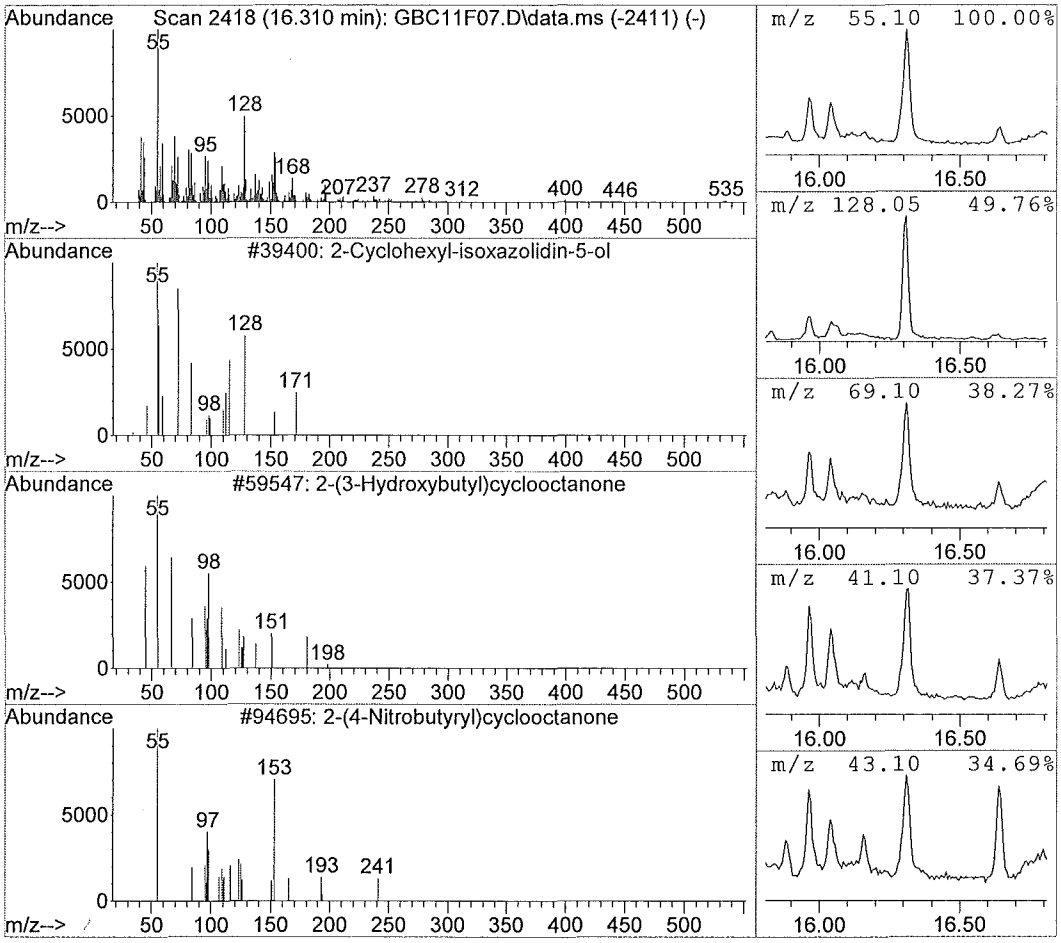


Data File : Z:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	4.02 ug/ml	606540	Chrysene-d12	3017749

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Cyclohexyl-isoxazolidin-5-ol	39400	052400-49-4	12.00
2	2-(3-Hydroxybutyl)cyclooctanone	59547	110288-21-6	10.00
3	2-(4-Nitrobutyryl)cyclooctanone	94695	079630-93-6	10.00
4	1-Decene, 5-methyl-	27041	054244-79-0	10.00
5	Pentanoic acid, 10-undecenyl ester	105728	1000159-93-4	10.00



Library Search Compound Report

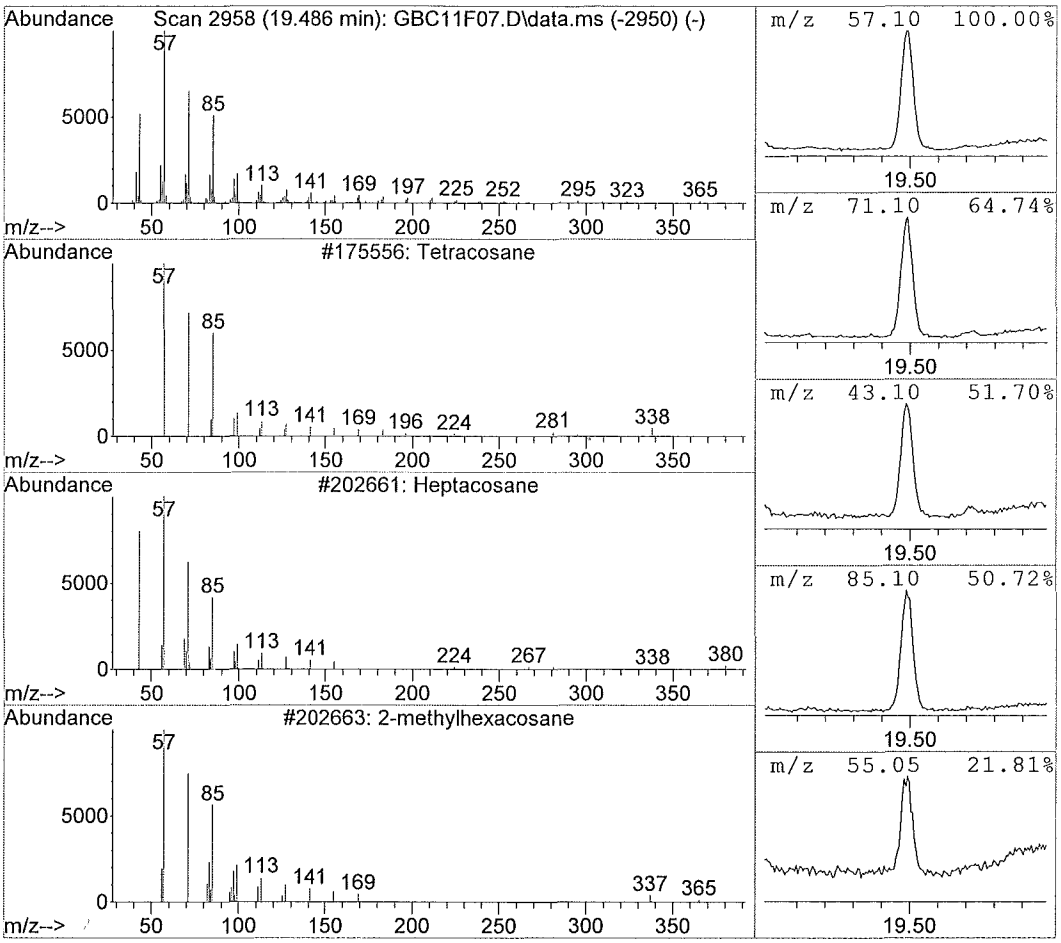
Data File : Z:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.49	2.57 ug/ml	390006	Perylene-d12	3032536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetracosane	175556	000646-31-1	91.00
2	Heptacosane	202661	000593-49-7	91.00
3	2-methylhexacosane	202663	1000376-72-7	90.00
4	Heneicosane	141424	000629-94-7	90.00
5	2-methyloctacosane	215181	1000376-72-8	90.00

5A

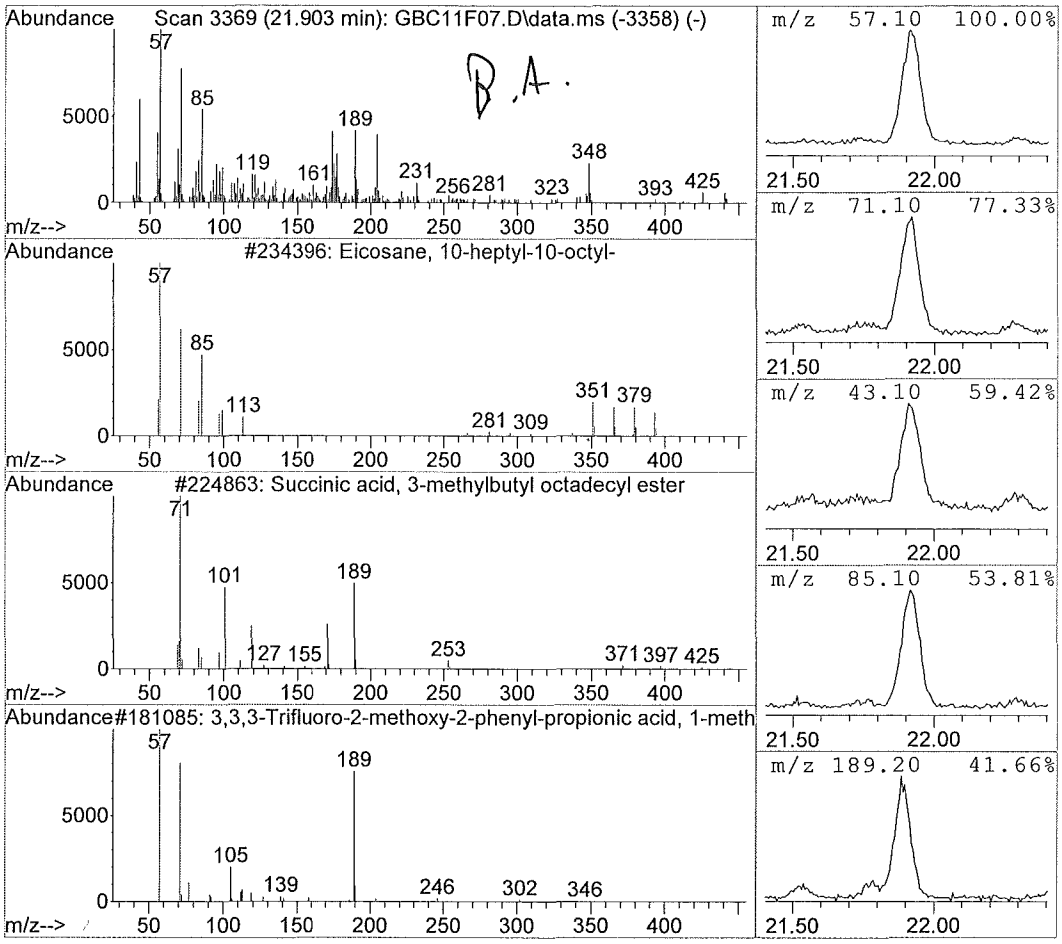


Data File : Z:\G\2015\JUN15\02JUN15\GBC11F07.D Vial: 10
Acq On : 06/02/2015 18:53 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.90	4.91 ug/ml	744886	Perylene-d12	3032536

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane, 10-heptyl-10-octyl-	234396	055470-98-9	30.00
2	Succinic acid, 3-methylbutyl octade	224863	1000349-25-8	27.00
3	3,3,3-Trifluoro-2-methoxy-2-phenyl-	181085	040121-44-6	27.00
4	Succinic acid, eicosyl 3-methylbuty	230724	1000349-26-0	27.00
5	O-(Carboxymethyl)hydroxylamine, N-d	41337	1000375-78-2	16.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293008

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC12F08

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine .	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293008

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC12F08

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	26.	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L65

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293008
Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC12F08
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015
GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-	3.38	200	J
02		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.59	6900	J
03		Unknown 2-Nonanone	4.16	96.	J
04		Unknown 3-Hexene-2,5-dione	4.36	390	JB
05		Unknown 1-Naphthalenemethanamine, .alpha.-methyl	7.26	100	J
06	629-54-9	Hexadecanamide	14.26	180	JNB
07	301-02-0	9-Octadecenamide, (Z)-	15.17	1400	JNB
08	301-02-0	9-Octadecenamide, (Z)-	15.96	88.	JNB
09		Unknown Cyclododecanone, 2-methyl-	16.32	140	J
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	470	J

[2] EPA-designated Registry Number.

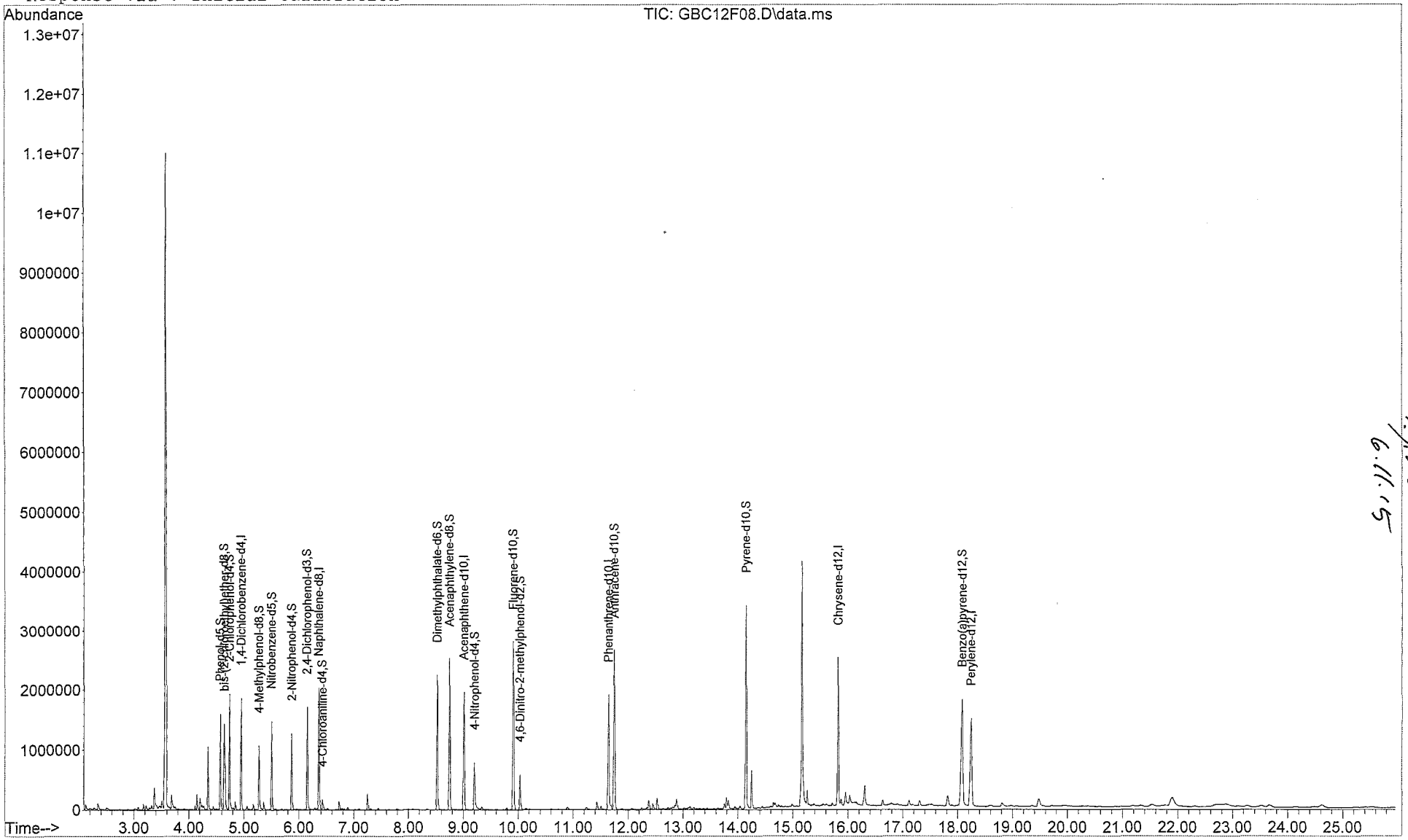
Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC12F08.D
Acq On : 06/02/2015 19:25
Sample : 1514293008 F9L65
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 11
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:40:36 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



6.11.15

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:40:36 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	328805	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1226154	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	690834	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1140326	20.00 ug/ml
73) Chrysene-d12	15.83	240	1104377	20.00 ug/ml
81) Perylene-d12	18.25	264	1063528	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	640515	27.935ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	308973	22.007ug/mL
7) 2-Chlorophenol-d4	4.75	132	603949	26.828ug/ml
13) 4-Methylphenol-d8	5.28	113	266319	14.919ug/mL
17) Nitrobenzene-d5	5.51	128	275169	26.748ug/ml
21) 2-Nitrophenol-d4	5.87	143	327978	28.608ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	461363	27.470ug/mL
28) 4-Chloroaniline-d4	6.43	131	81470	4.472ug/mL
42) Dimethylphthalate-d6	8.53	166	1405631	33.456ug/mL
45) Acenaphthylene-d8	8.76	160	1597975	28.500ug/mL
50) 4-Nitrophenol-d4	9.21	143	263064	29.403ug/mL
57) Fluorene-d10	9.92	176	1155769	31.672ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	140863	18.806ug/mL
69) Anthracene-d10	11.76	188	1760576	30.521ug/mL
75) Pyrene-d10	14.16	212	1578758	31.444ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1380760	28.622ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

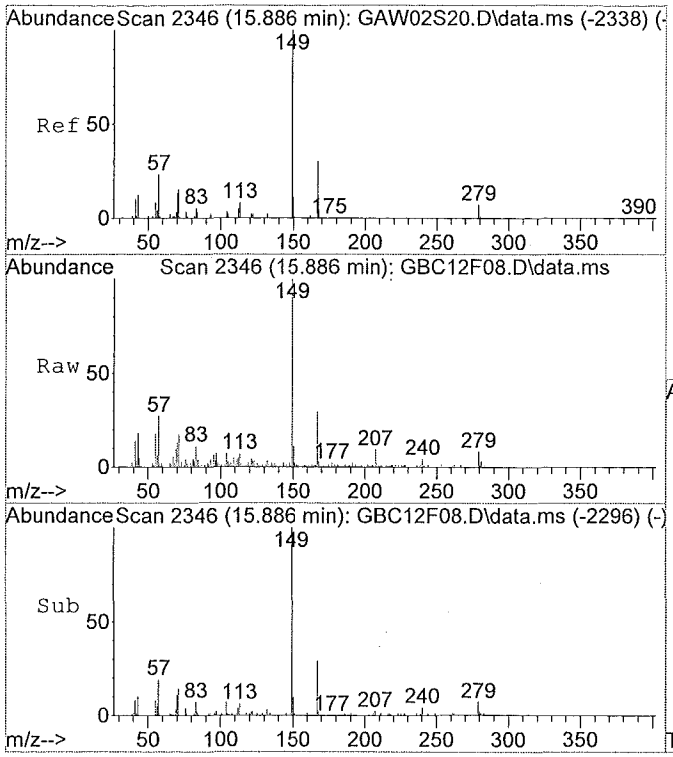
Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:40:36 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	37872	0.711ug/ml	95
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

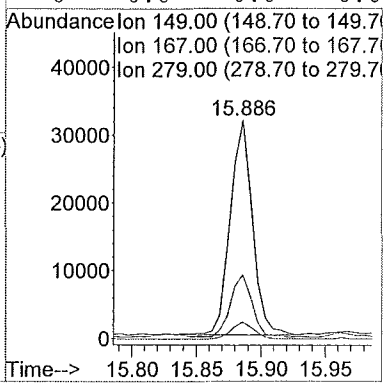
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.71 ug/ml
RT: 15.89 min Scan# 2346
Delta R.T. -0.01 min
Lab File: GBC12F08.D
Acq: 06/02/2015 19:25

Tgt Ion:149 Resp: 37872

Ion	Ratio	Lower	Upper
149	100		
167	28.3	22.0	40.8
279	7.3	5.0	9.2
0	0.0	0.0	0.0



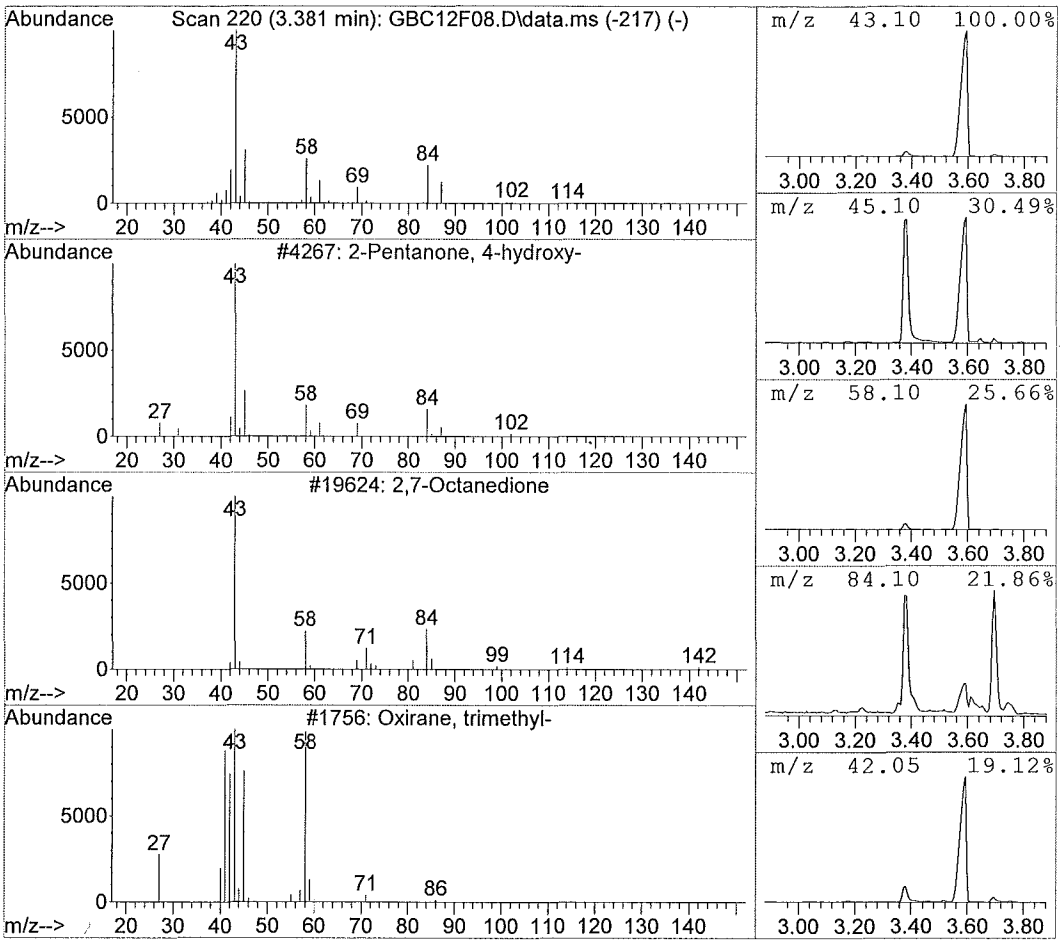
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	5.40 ug/ml	497833	1,4-Dichlorobenzene-d4	1842343

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	50.00
2	2,7-Octanedione	19624	001626-09-1	23.00
3	Oxirane, trimethyl-	1756	005076-19-7	12.00
4	Isopropyl acetate	4254	000108-21-4	10.00
5	Ethylamine	86	000075-04-7	9.00

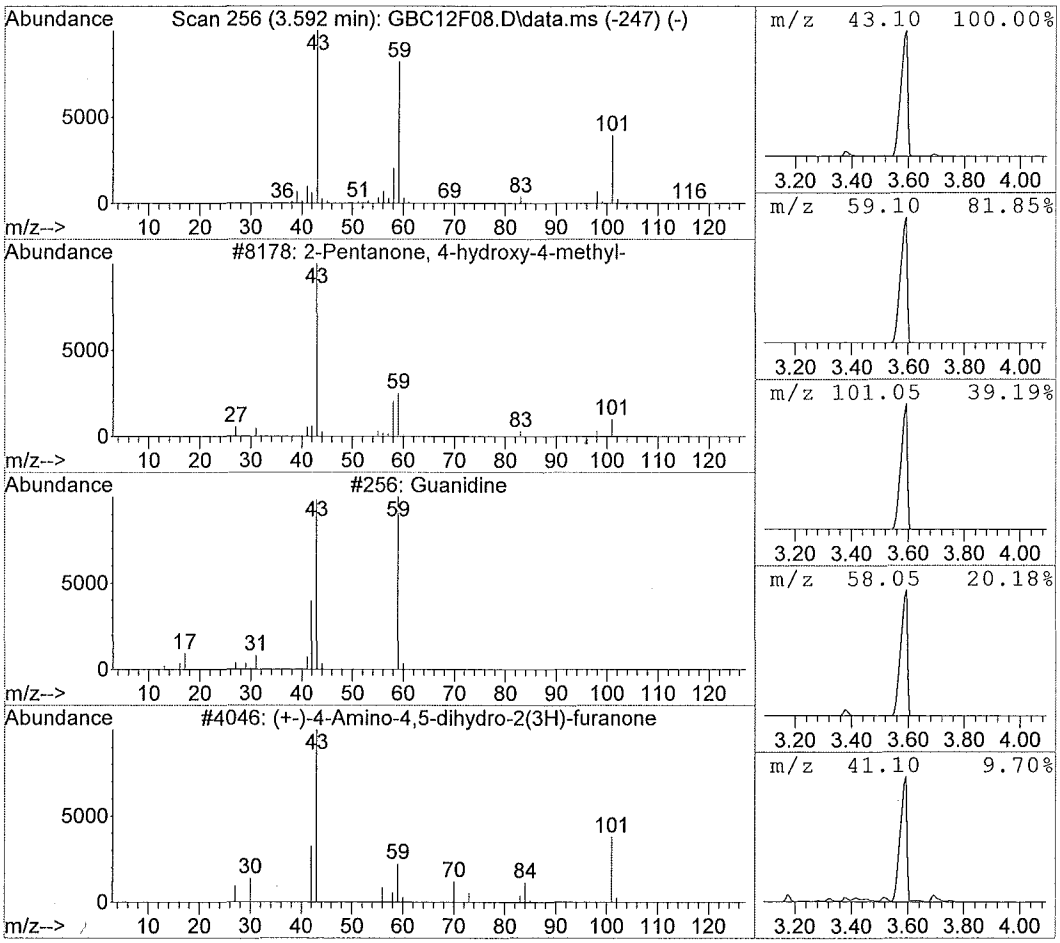


Data File : Z:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.59	186.48 ug/ml	17178392	1,4-Dichlorobenzene-d4	1842343

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	50.00
2	Guanidine	256	000113-00-8	43.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	35.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	Propanamide, N-ethyl-	4082	005129-72-6	10.00

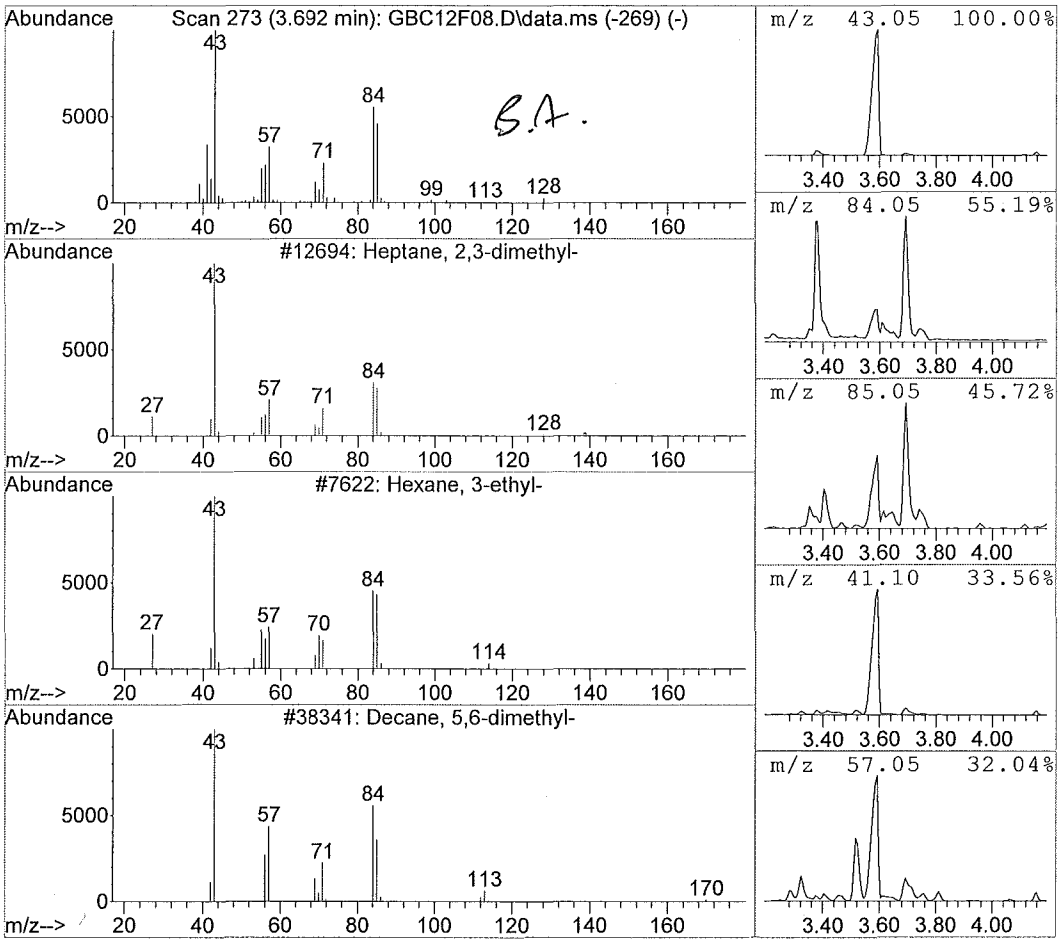


Data File : Z:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	3.55 ug/ml	327075	1,4-Dichlorobenzene-d4	1842343

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12694	003074-71-3	90.00
2	Hexane, 3-ethyl-	7622	000619-99-8	83.00
3	Decane, 5,6-dimethyl-	38341	001636-43-7	64.00
4	Hexane, 3-ethyl-2-methyl-	12730	016789-46-1	59.00
5	Hexane, 2,3,3-trimethyl-	12716	016747-28-7	53.00

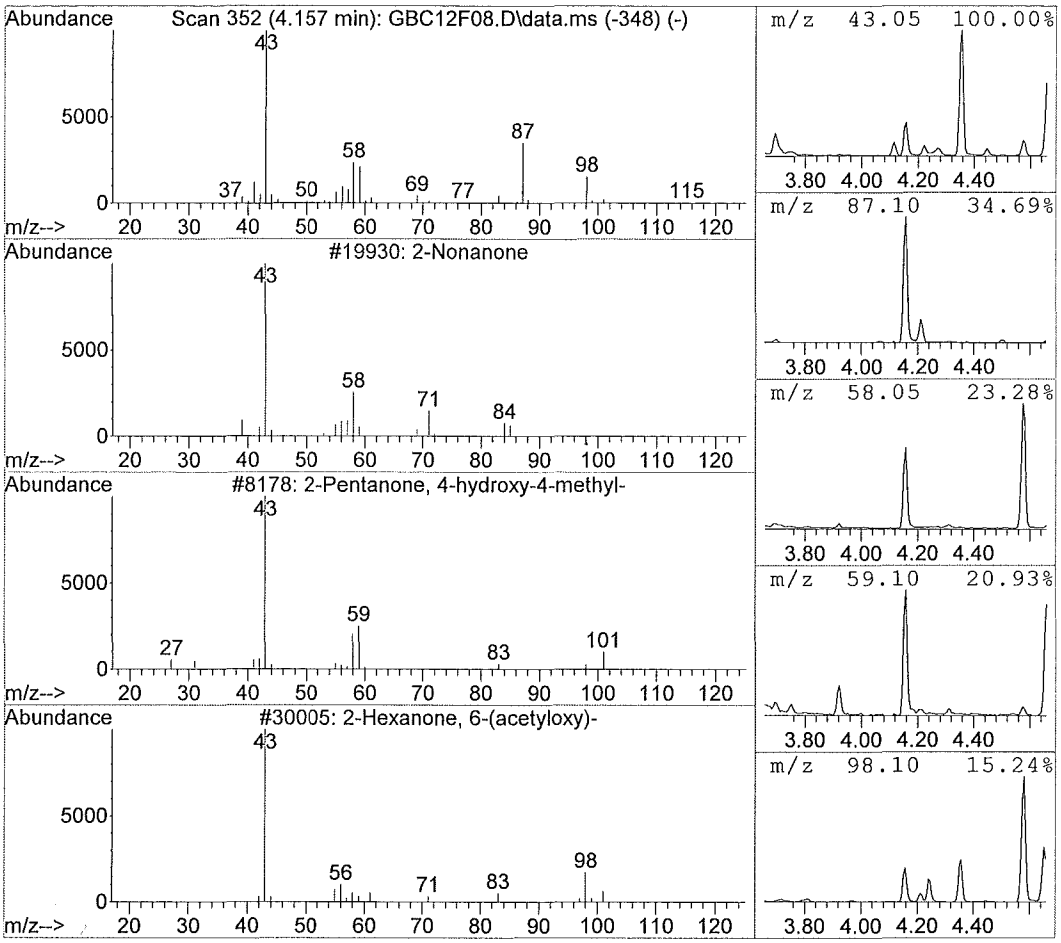


Data File : Z:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.16	2.59 ug/ml	238281	1,4-Dichlorobenzene-d4	1842343

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Nonanone	19930	000821-55-6	35.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	28.00
3	2-Hexanone, 6-(acetyloxy)-	30005	004305-26-4	17.00
4	2-Hexanone, 4-hydroxy-5-methyl-	13495	038836-21-4	17.00
5	2-Hexanone, 4-methyl-	7511	000105-42-0	10.00



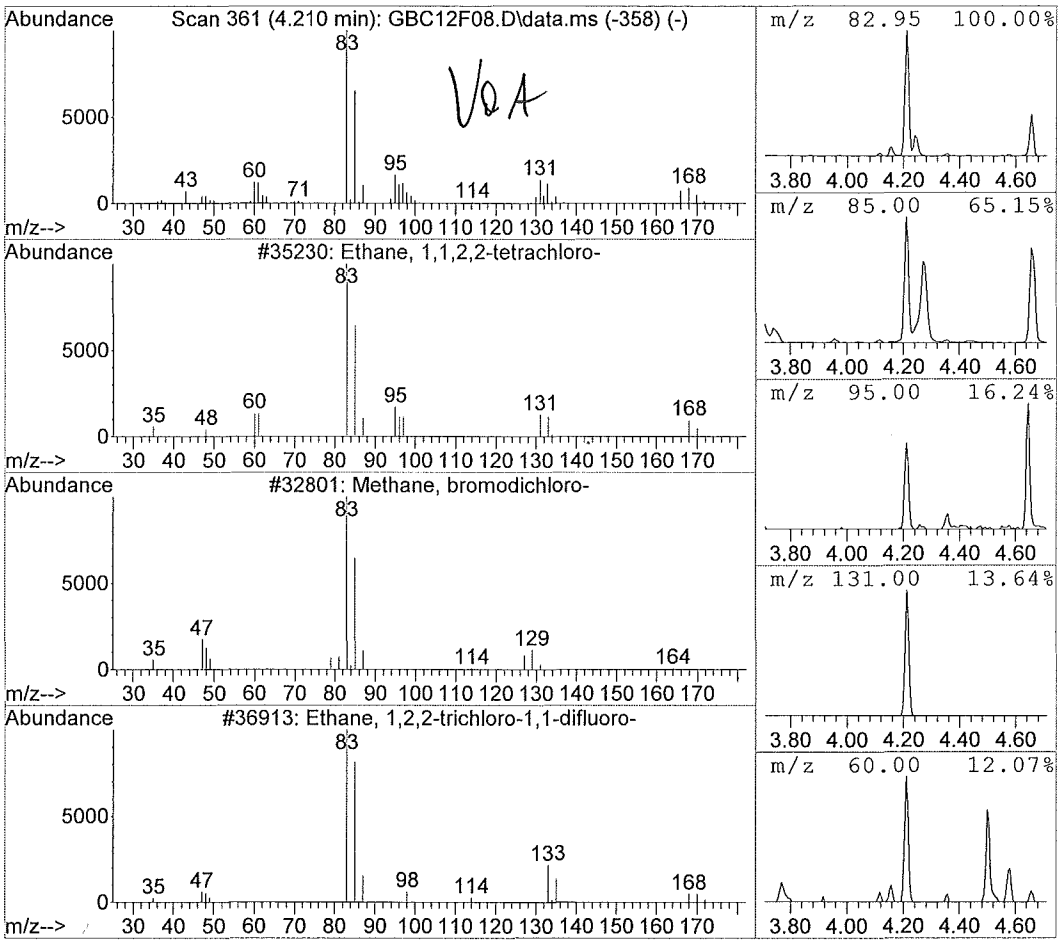
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.39 ug/ml	220282	1,4-Dichlorobenzene-d4	1842343

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	98.00
2	Methane, bromodichloro-	32801	000075-27-4	53.00
3	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	49.00
4	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	45.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	45.00



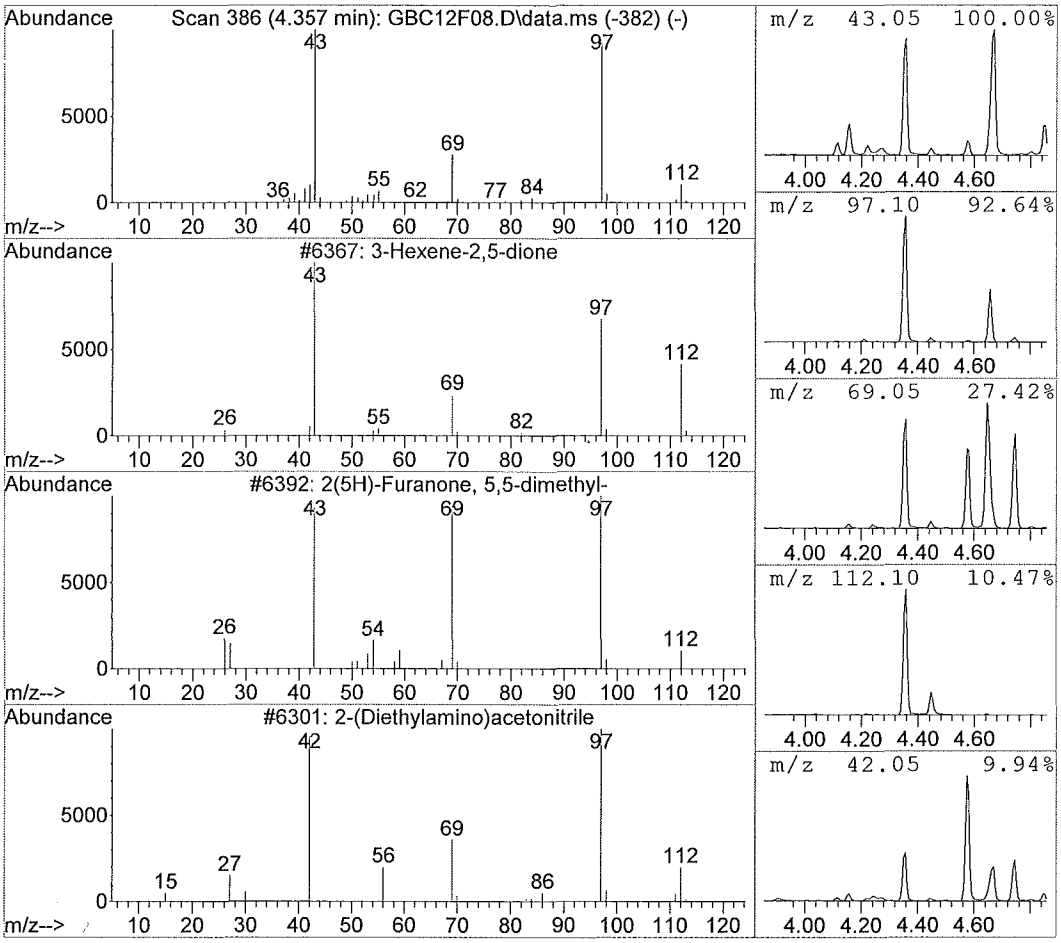
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.36	10.49 ug/ml	966083	1,4-Dichlorobenzene-d4	1842343

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	64.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	25.00
3	2-(Diethylamino)acetonitrile	6301	003010-02-4	12.00
4	1H-Pyrazole, 4,5-dihydro-3,5,5-trim	6322	003975-85-7	9.00
5	1-(Trimethylsilyl)-1-propyne	6338	006224-91-5	9.00



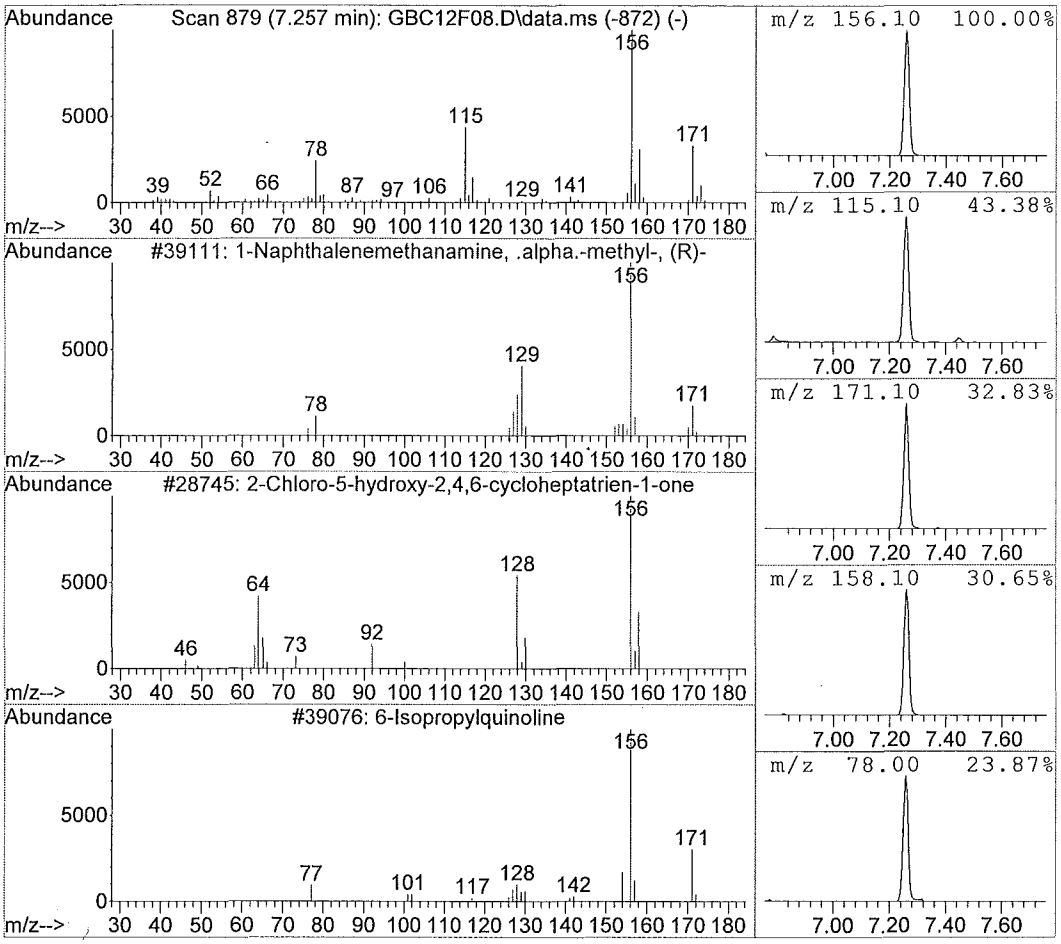
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.26	2.72 ug/ml	325409	Naphthalene-d8	2392390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Naphthalenemethanamine, .alpha.-m	39111	003886-70-2	47.00
2	2-Chloro-5-hydroxy-2,4,6-cyclohepta	28745	007009-16-7	43.00
3	6-Isopropylquinoline	39076	000135-79-5	38.00
4	1,2,3,3a-Tetrahydropentalene, 1,1-d	39116	1000217-17-0	38.00
5	1,2,3,4-Tetrahydropentalene, 1,1-di	39115	1000217-18-6	37.00

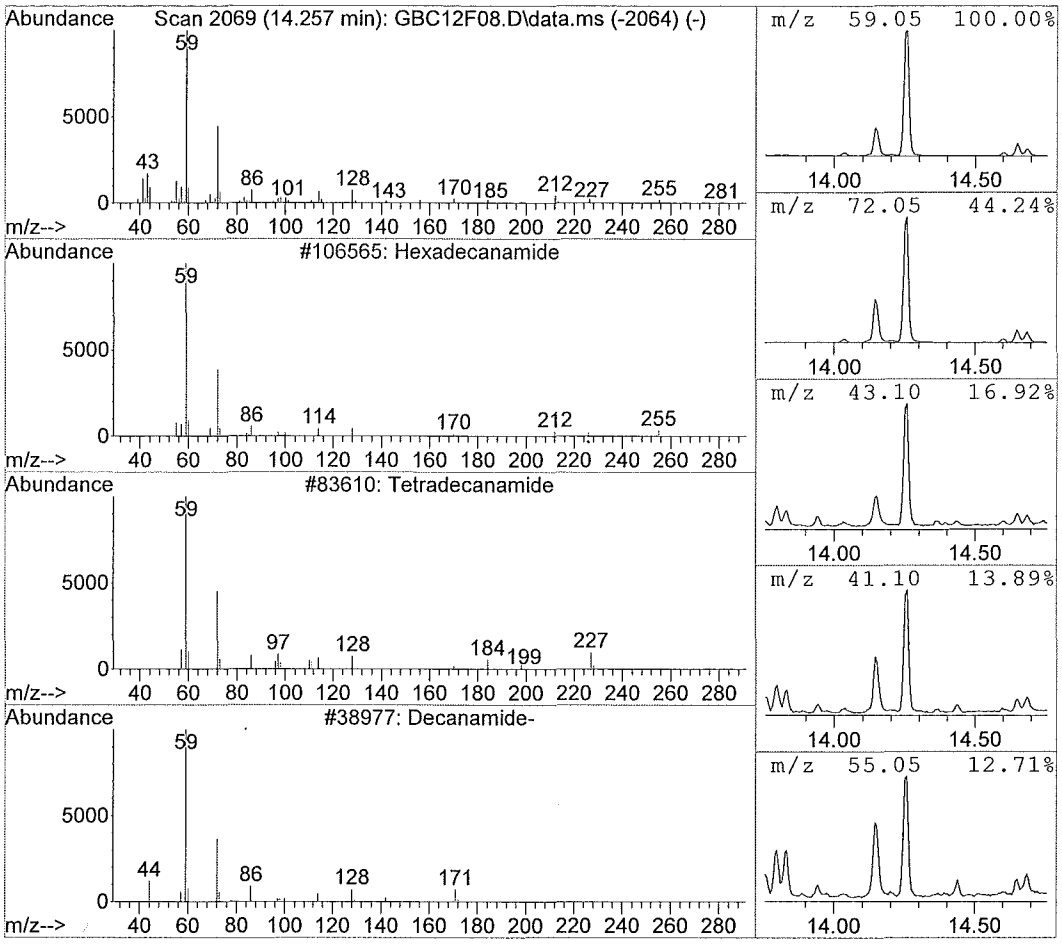


Data File : Z:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	4.83 ug/ml	763560	Chrysene-d12	3159626

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	96.00
2	Tetradecanamide	83610	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	83.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
5	Dodecanamide	60439	001120-16-7	59.00

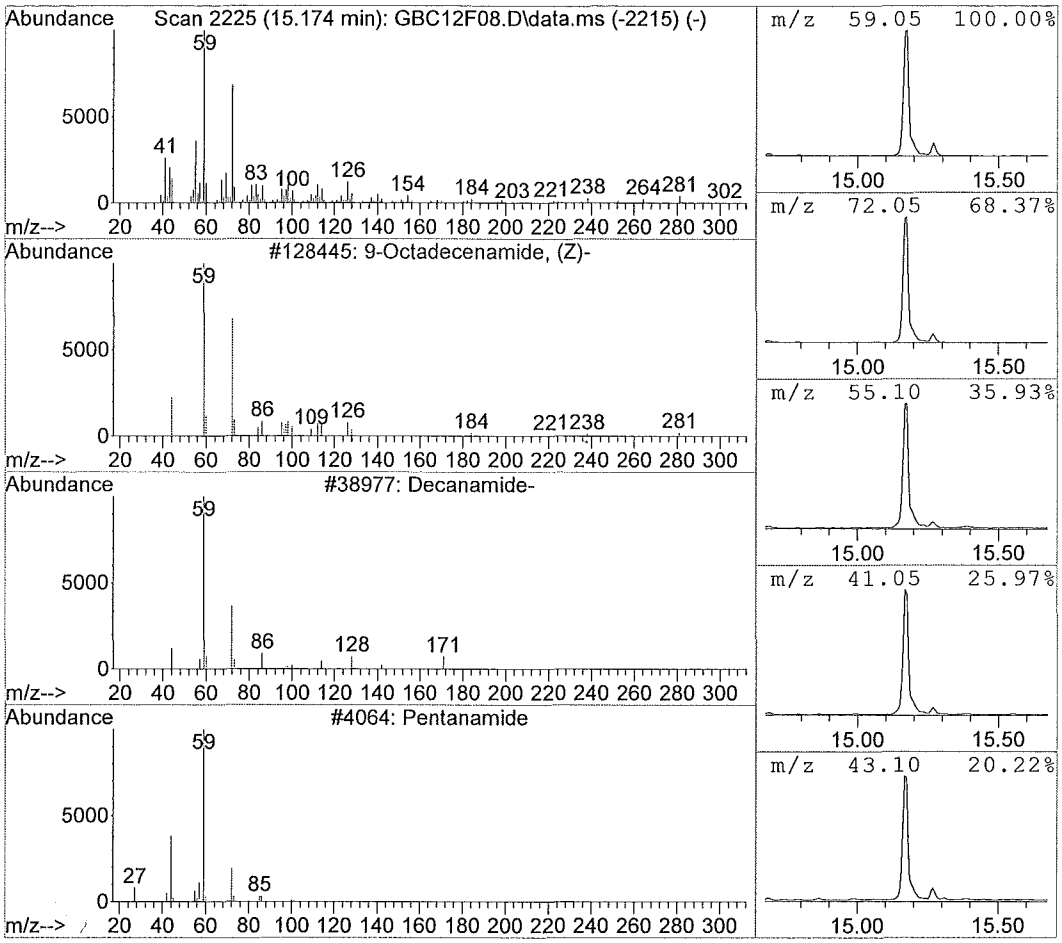


Data File : Z:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	37.13 ug/ml	5865629	Chrysene-d12	3159626

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Decanamide-	38977	002319-29-1	53.00
3	Pentanamide	4064	000626-97-1	53.00
4	Octanamide	20317	000629-01-6	50.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	50.00

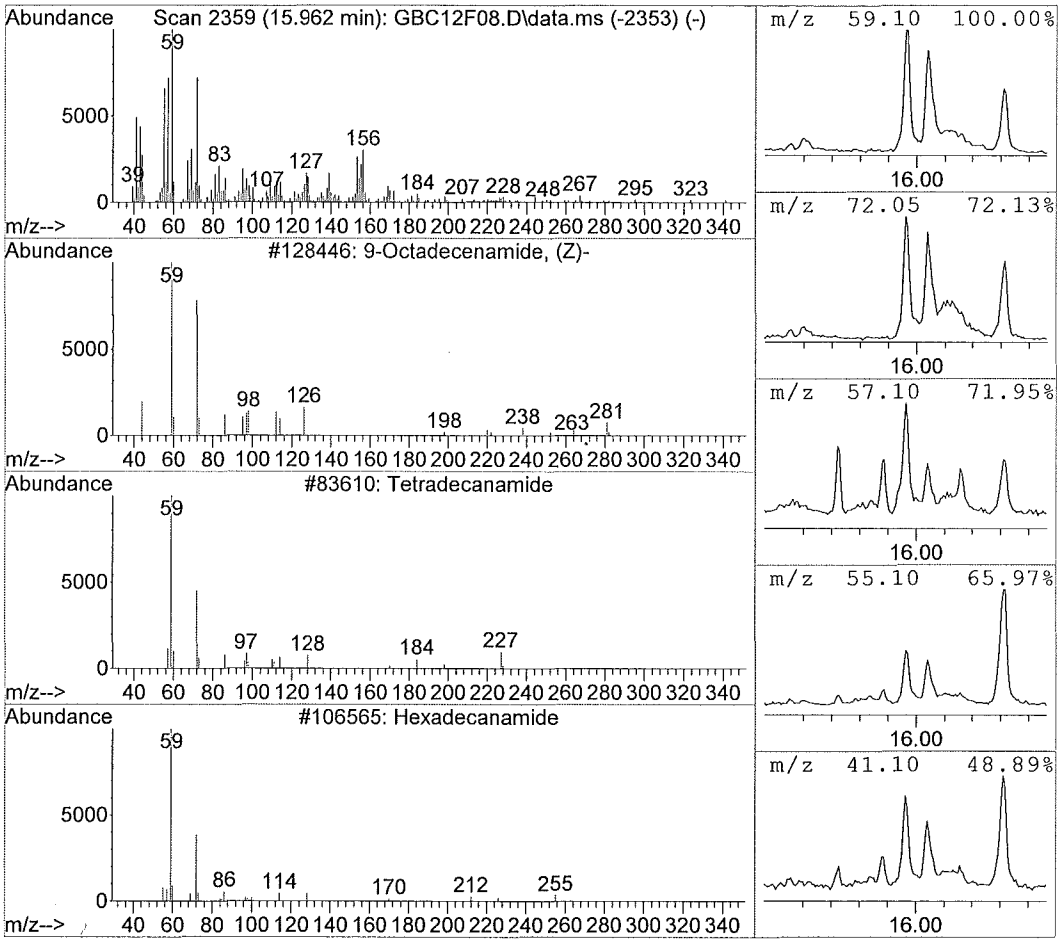


Data File : Z:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.96	2.38 ug/ml	375345	Chrysene-d12	3159626

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128446	000301-02-0	91.00
2	Tetradecanamide	83610	000638-58-4	64.00
3	Hexadecanamide	106565	000629-54-9	50.00
4	3-Cyclohexylpropionamide	28138	004361-29-9	43.00
5	Dodecanamide	60440	001120-16-7	43.00

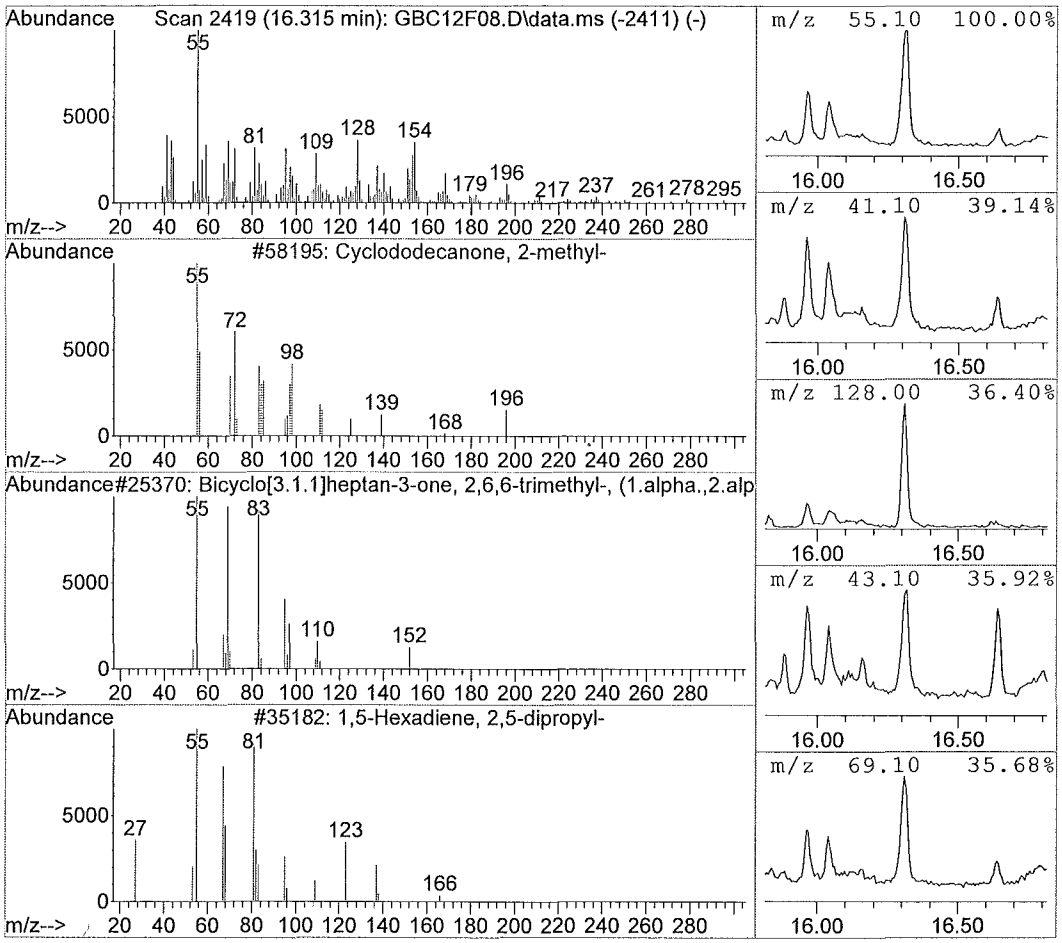


Data File : Z:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.32	3.76 ug/ml	593415	Chrysene-d12	3159626

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclododecanone, 2-methyl-	58195	016837-94-8	15.00
2	Bicyclo[3.1.1]heptan-3-one, 2,6,6-t	25370	000547-60-4	11.00
3	1,5-Hexadiene, 2,5-dipropyl-	35182	1000158-33-4	11.00
4	Bicyclo[3.1.1]heptan-3-one, 2,6,6-t	25246	018358-53-7	11.00
5	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	11.00



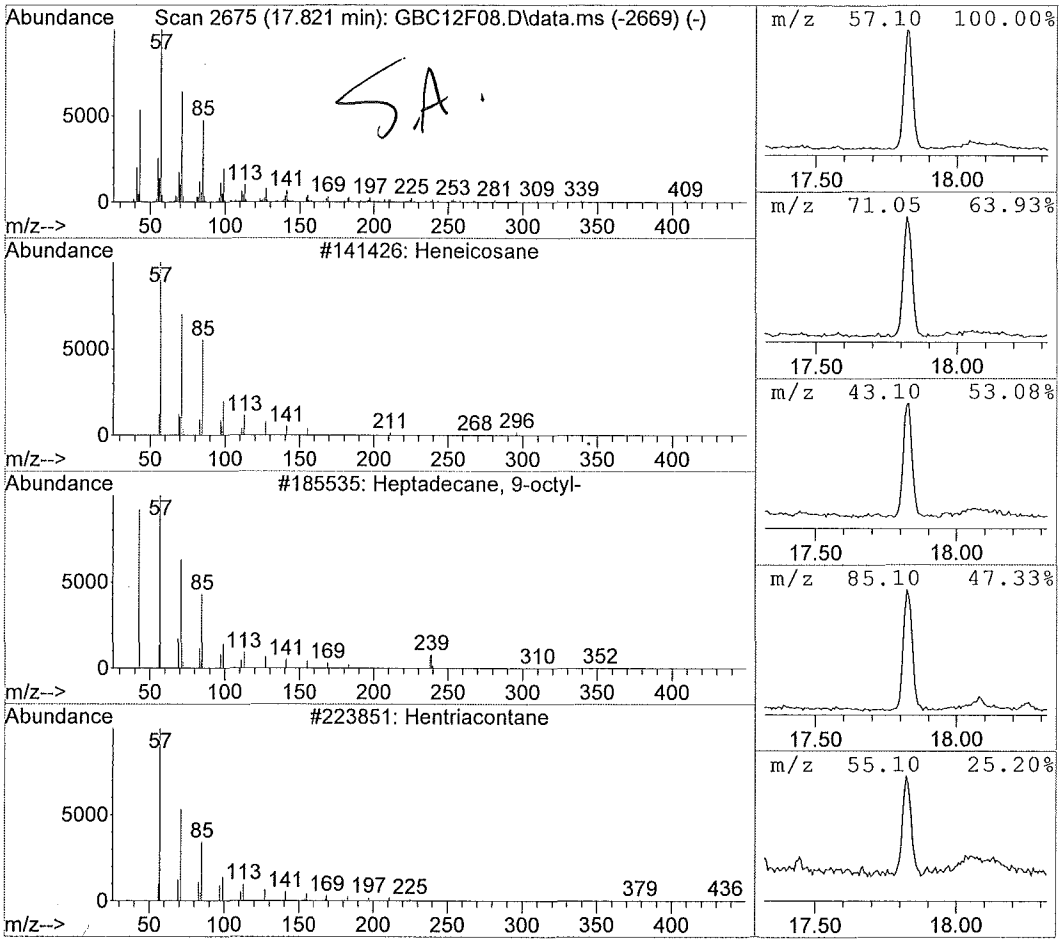
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.82	2.18 ug/ml	344542	Perylene-d12	3159288

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heneicosane	141426	000629-94-7	90.00
2	Heptadecane, 9-octyl-	185535	007225-64-1	90.00
3	Hentriacontane	223851	000630-04-6	90.00
4	Nonadecane, 9-methyl-	129499	013287-24-6	87.00
5	Octacosane	209566	000630-02-4	87.00

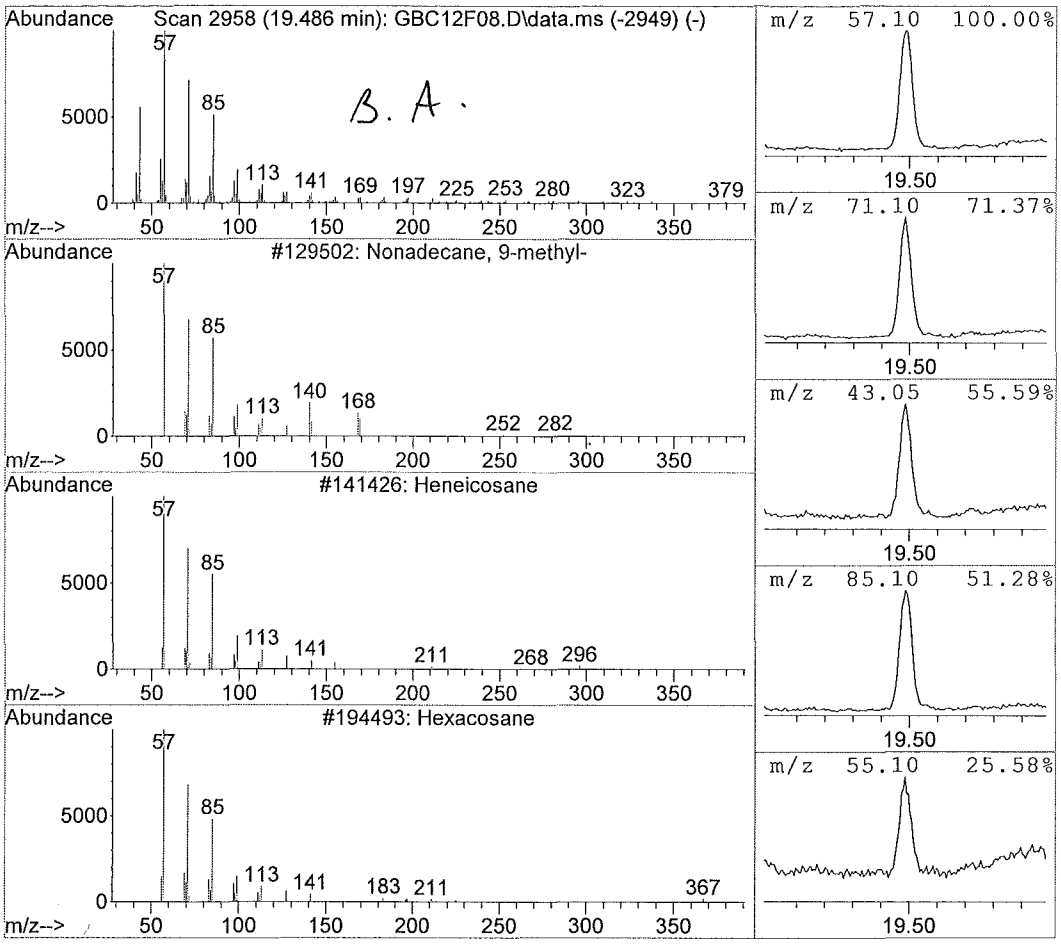


Data File : Z:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.49	2.46 ug/ml	389263	Perylene-d12	3159288

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonadecane, 9-methyl-	129502	013287-24-6	90.00
2	Heneicosane	141426	000629-94-7	90.00
3	Hexacosane	194493	000630-01-3	90.00
4	Octadecane	105885	000593-45-3	87.00
5	Heneicosane, 11-decyl-	223853	055320-06-4	87.00

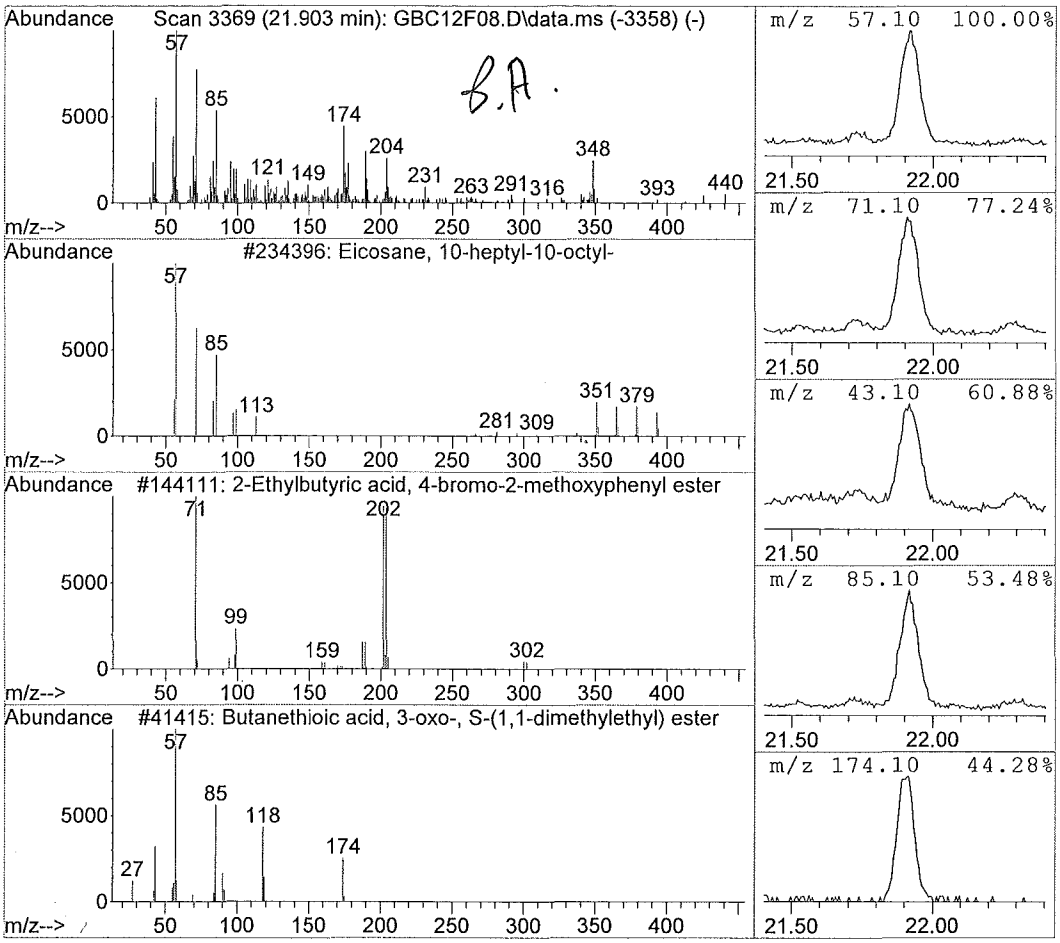


Data File : Z:\G\2015\JUN15\02JUN15\GBC12F08.D Vial: 11
Acq On : 06/02/2015 19:25 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.90	4.38 ug/ml	692637	Perylene-d12	3159288

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane, 10-heptyl-10-octyl-	234396	055470-98-9	25.00
2	2-Ethylbutyric acid, 4-bromo-2-meth	144111	1000371-16-7	22.00
3	Butanethioic acid, 3-oxo-, S-(1,1-d	41415	015925-47-0	10.00
4	9-Octadecene, 1,1-dimethoxy-, (Z)-	154958	015677-71-1	10.00
5	3-Decanethiol	40935	056009-26-8	9.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L66

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293009

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC13F09

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L66

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293009

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC13F09

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L66

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293009
Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC13F09
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015
GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.13	370	JB
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	180	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.59	6500	J
04		Unknown TATP	4.16	100	J
05		Unknown 2(5H)-Furanone, 5,5-dimethyl-	4.36	440	J
06		Unknown 1-Naphthalenemethanamine, .alpha.-methyl	7.26	86.	J
07	629-54-9	Hexadecanamide	14.26	190	JNB
08	301-02-0	9-Octadecenamide, (Z)-	15.17	1500	JNB
09		Unknown 7-Nonenamide	15.96	96.	J
10		Unknown Chloromethyl 7-chlorodecanoate	16.31	140	J
11	112-84-5	13-Docosenamide, (Z)-	17.12	330	JN
12		Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	21.54	1200	J
13		Unknown .delta.-Selinene	21.89	360	J
14		Unknown 1-Naphthalenecarboxylic acid, decahydro-	22.21	83.	J
15		Unknown Silane, diethylhexadecyloxy(3-methylbutc	23.67	83.	J
16		Unknown D:A-Friedooleanan-28-al, 3-oxo-	24.14	120	J
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	130	J

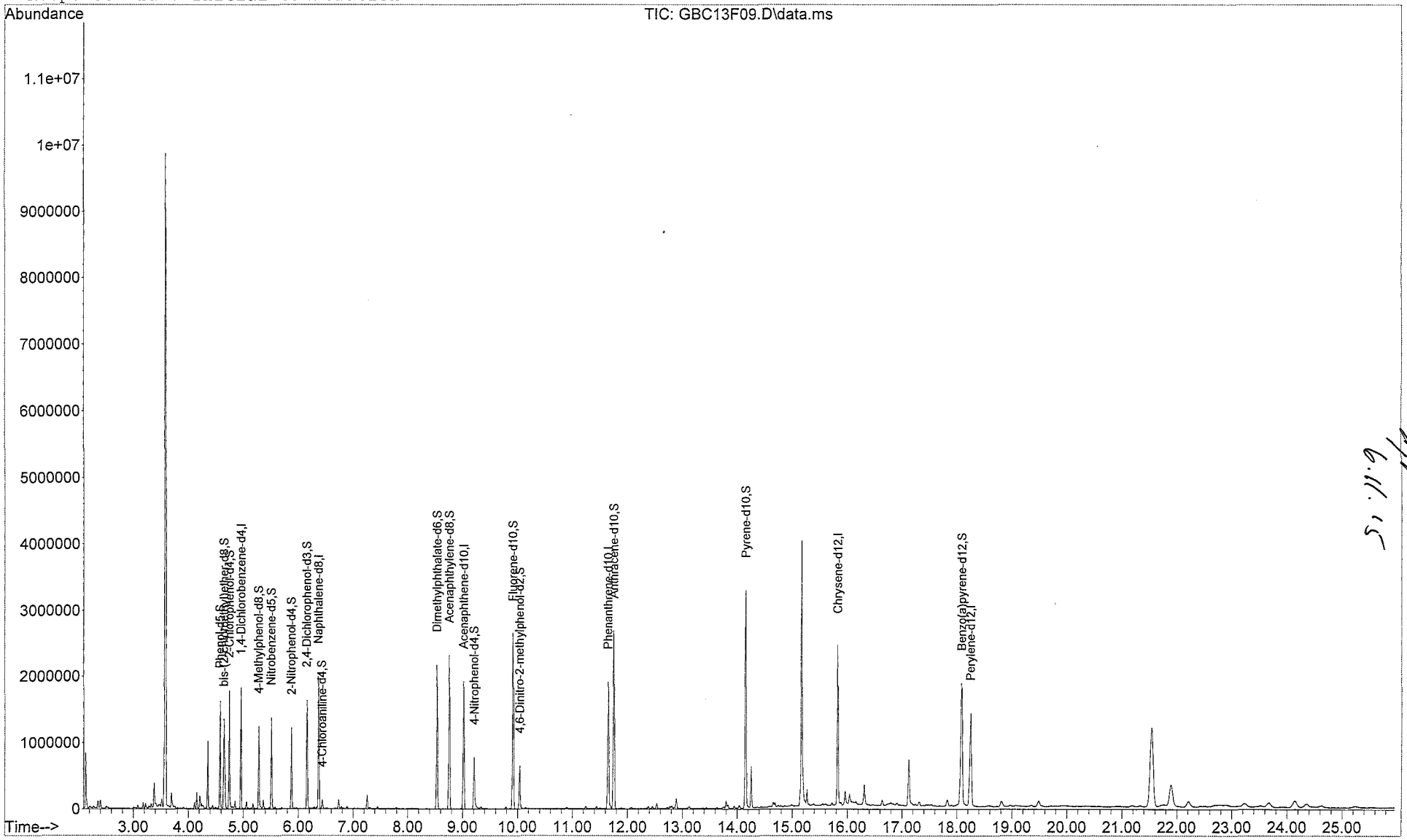
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 14:41:12 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:41:12 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	321956	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1199687	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	675851	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1118589	20.00 ug/ml
73) Chrysene-d12	15.83	240	1081887	20.00 ug/ml
81) Perylene-d12	18.25	264	1033538	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	602095	26.818ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	285756	20.787ug/mL
7) 2-Chlorophenol-d4	4.75	132	568341	25.783ug/ml
13) 4-Methylphenol-d8	5.28	113	311091	17.797ug/mL
17) Nitrobenzene-d5	5.51	128	255234	25.357ug/ml
21) 2-Nitrophenol-d4	5.87	143	317833	28.334ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	442039	26.900ug/mL
28) 4-Chloroaniline-d4	6.43	131	63255	3.549ug/mL
42) Dimethylphthalate-d6	8.53	166	1353154	32.921ug/mL
45) Acenaphthylene-d8	8.76	160	1517662	27.667ug/mL
50) 4-Nitrophenol-d4	9.21	143	259285	29.624ug/mL
57) Fluorene-d10	9.92	176	1112556	31.163ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	160756	21.879ug/mL
69) Anthracene-d10	11.75	188	1746056	30.858ug/mL
75) Pyrene-d10	14.16	212	1546663	31.446ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1391904	29.690ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:41:12 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

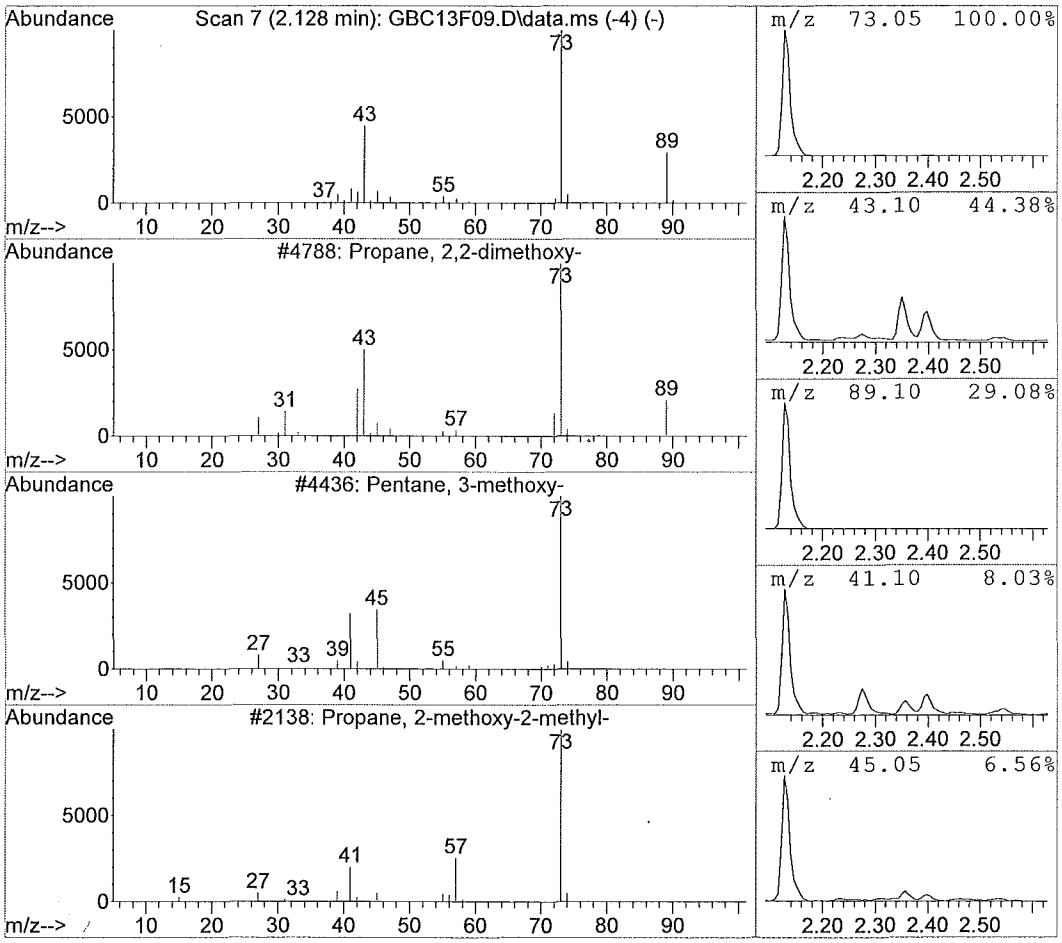
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.13	9.58 ug/ml	859426	1,4-Dichlorobenzene-d4	1794877

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	38.00
2	Pentane, 3-methoxy-	4436	036839-67-5	17.00
3	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
4	N-Ethylformamide	734	000627-45-2	5.00
5	Methane, isothiocyanato-	717	000556-61-6	5.00

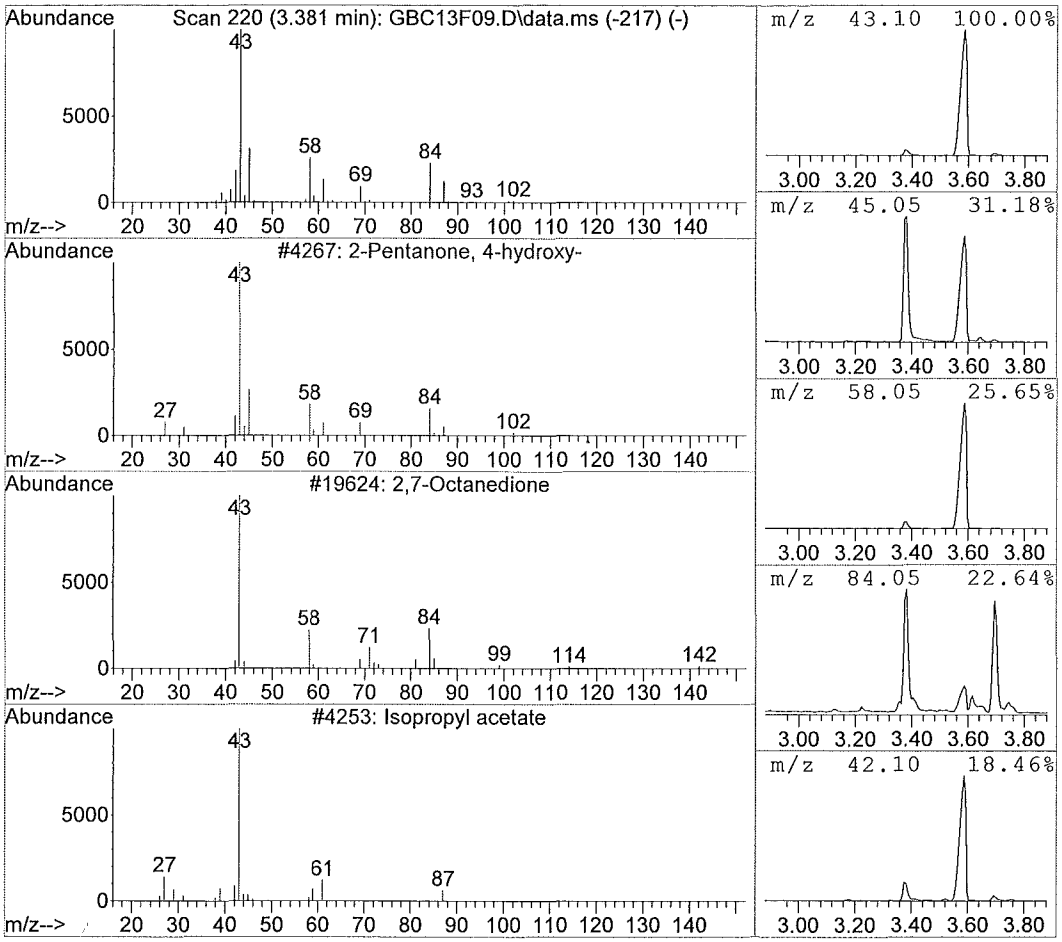


Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	4.65 ug/ml	417158	1,4-Dichlorobenzene-d4	1794877

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	50.00
2	2,7-Octanedione	19624	001626-09-1	25.00
3	Isopropyl acetate	4253	000108-21-4	17.00
4	Oxirane, trimethyl-	1756	005076-19-7	12.00
5	Ethanol, 2-methoxy-, acetate	8703	000110-49-6	12.00



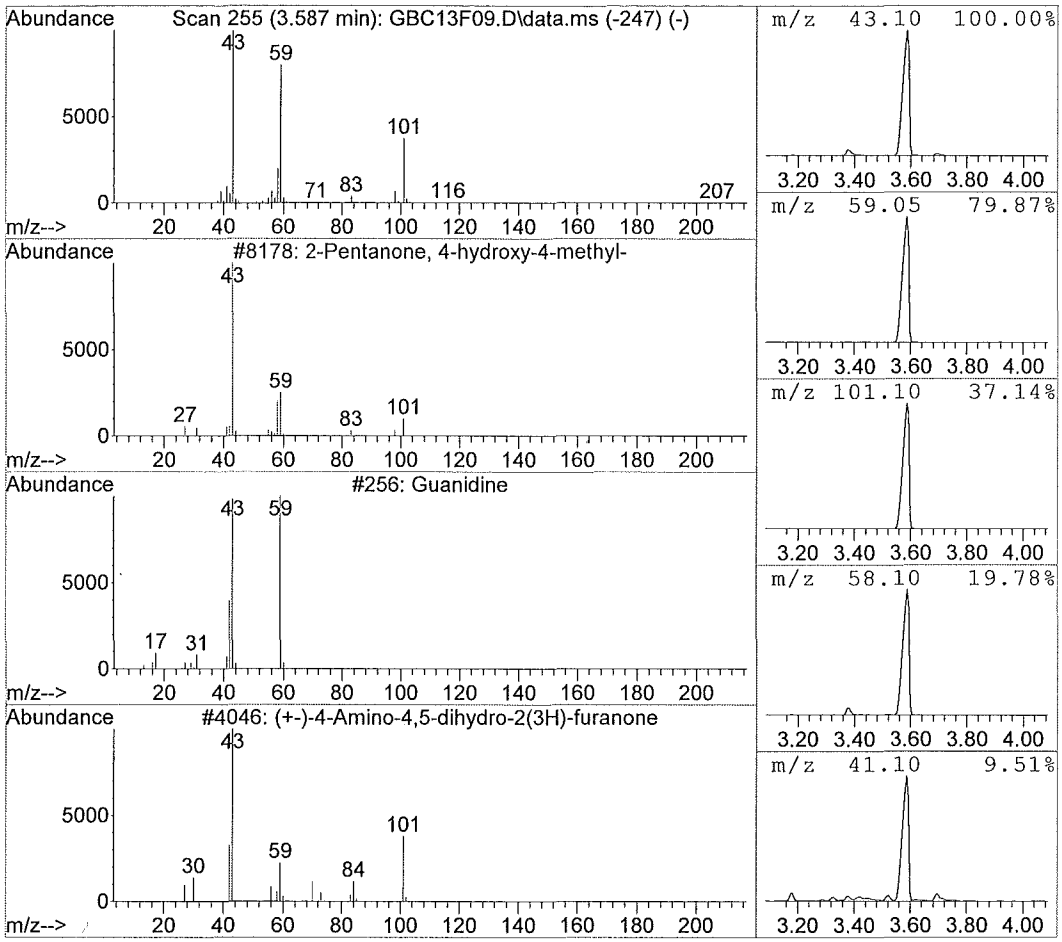
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.59	166.81 ug/ml	14970323	1,4-Dichlorobenzene-d4	1794877

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	64.00
2	Guanidine	256	000113-00-8	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	5-Hexen-2-one	3159	000109-49-9	9.00

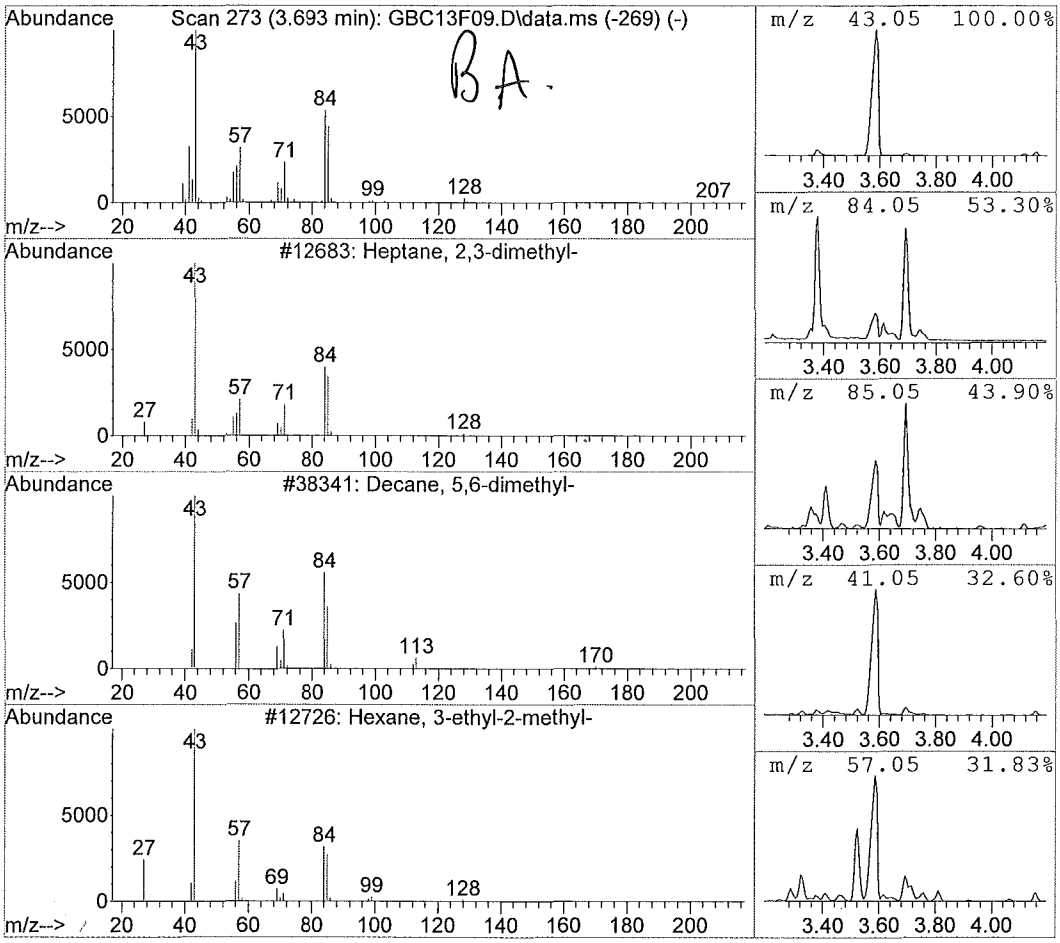


Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	3.32 ug/ml	297709	1,4-Dichlorobenzene-d4	1794877

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	87.00
2	Decane, 5,6-dimethyl-	38341	001636-43-7	72.00
3	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	72.00
4	Octane, 4,5-diethyl-	38336	001636-41-5	64.00
5	Octane, 3,4-dimethyl-	19179	015869-92-8	53.00



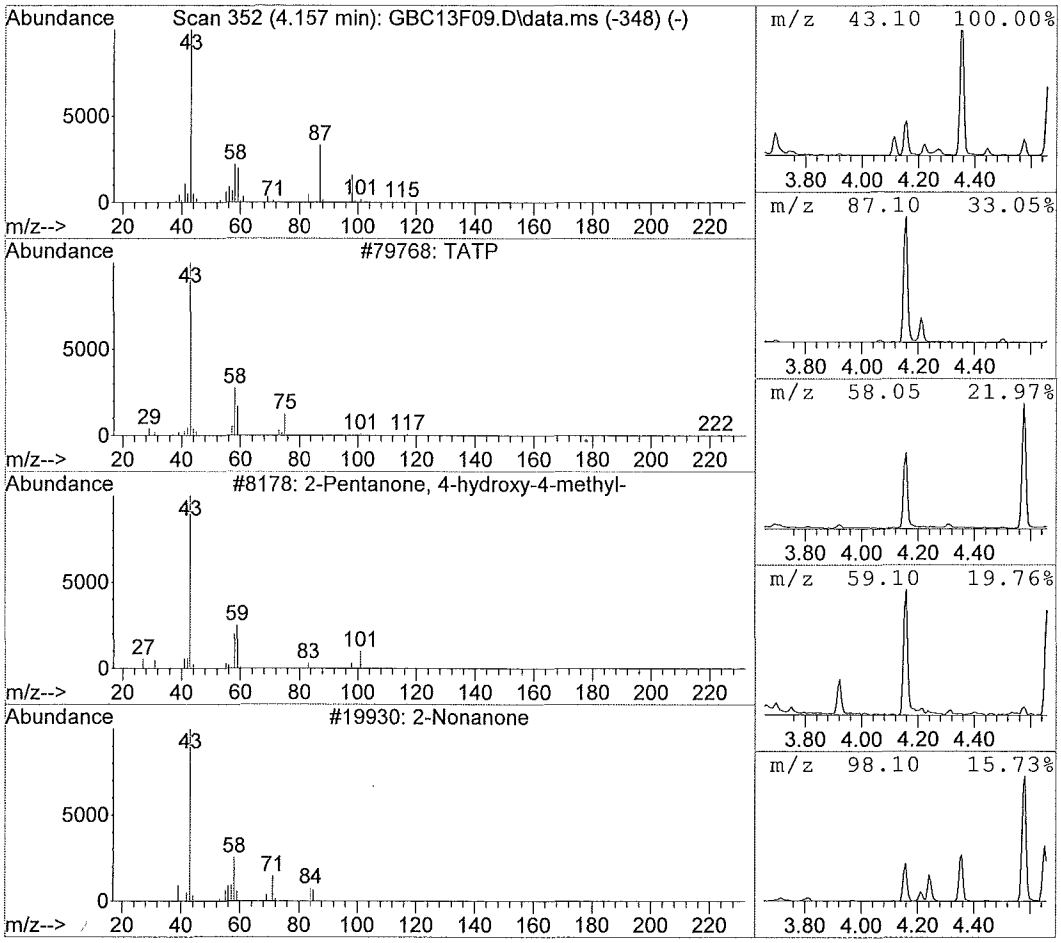
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.16	2.64 ug/ml	236555	1,4-Dichlorobenzene-d4	1794877

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	TATP	79768	017088-37-8	43.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	28.00
3	2-Nonanone	19930	000821-55-6	25.00
4	2-Hexanone, 4-hydroxy-5-methyl-	13495	038836-21-4	25.00
5	2-Hexanone, 6-(acetyloxy)-	30005	004305-26-4	12.00



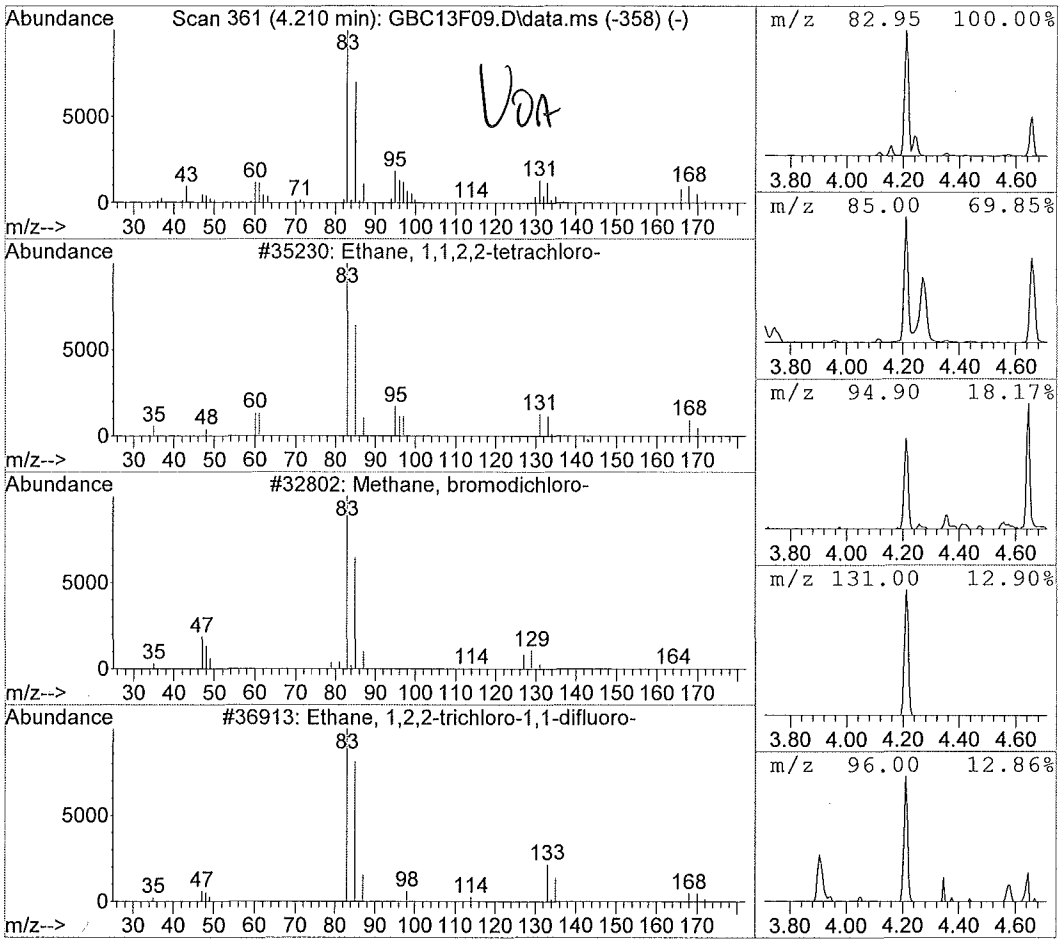
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.30 ug/ml	206055	1,4-Dichlorobenzene-d4	1794877

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	98.00
2	Methane, bromodichloro-	32802	000075-27-4	50.00
3	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	43.00
4	Methane, oxybis[dichloro-	47352	020524-86-1	40.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	40.00

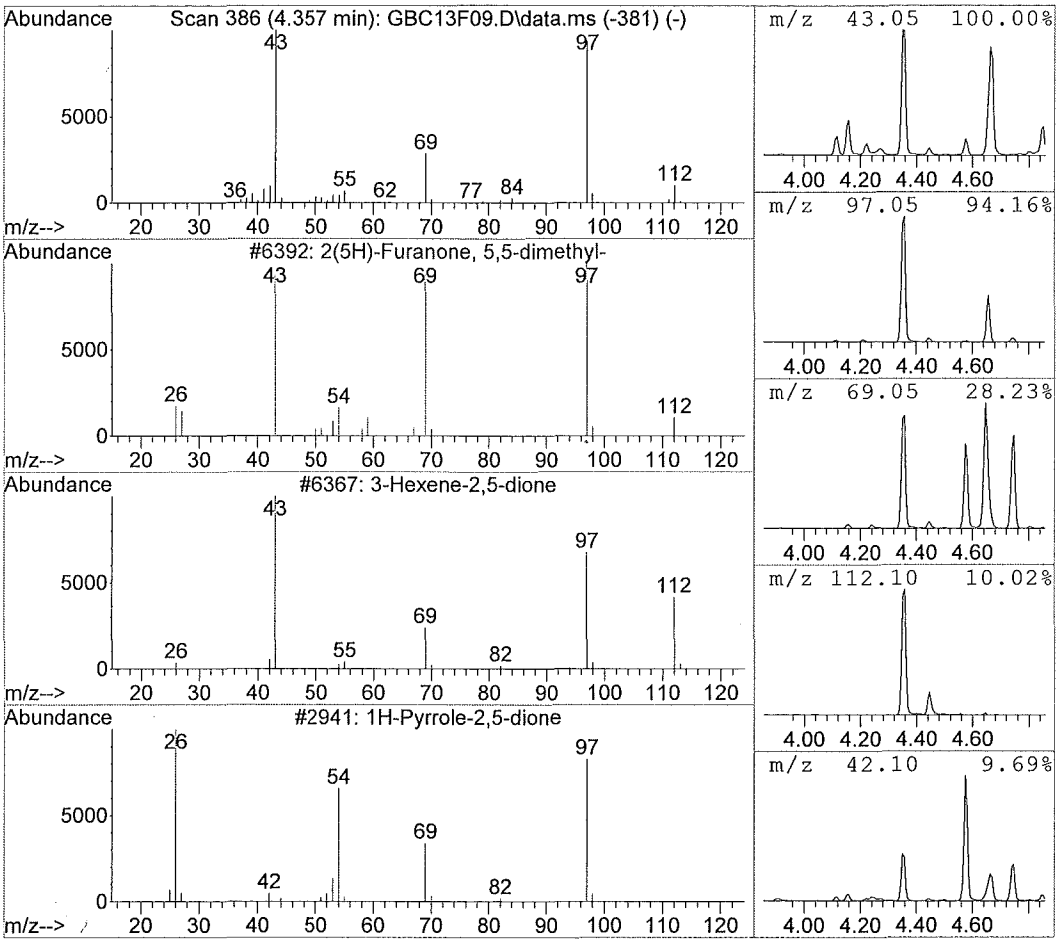


Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.36	11.21 ug/ml	1006184	1,4-Dichlorobenzene-d4	1794877

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
2	3-Hexene-2,5-dione	6367	004436-75-3	56.00
3	1H-Pyrrole-2,5-dione	2941	000541-59-3	40.00
4	2-Pyrazoline, 1,4,5-trimethyl-	6304	007423-11-2	10.00
5	1-(Trimethylsilyl)-1-propyne	6337	006224-91-5	9.00

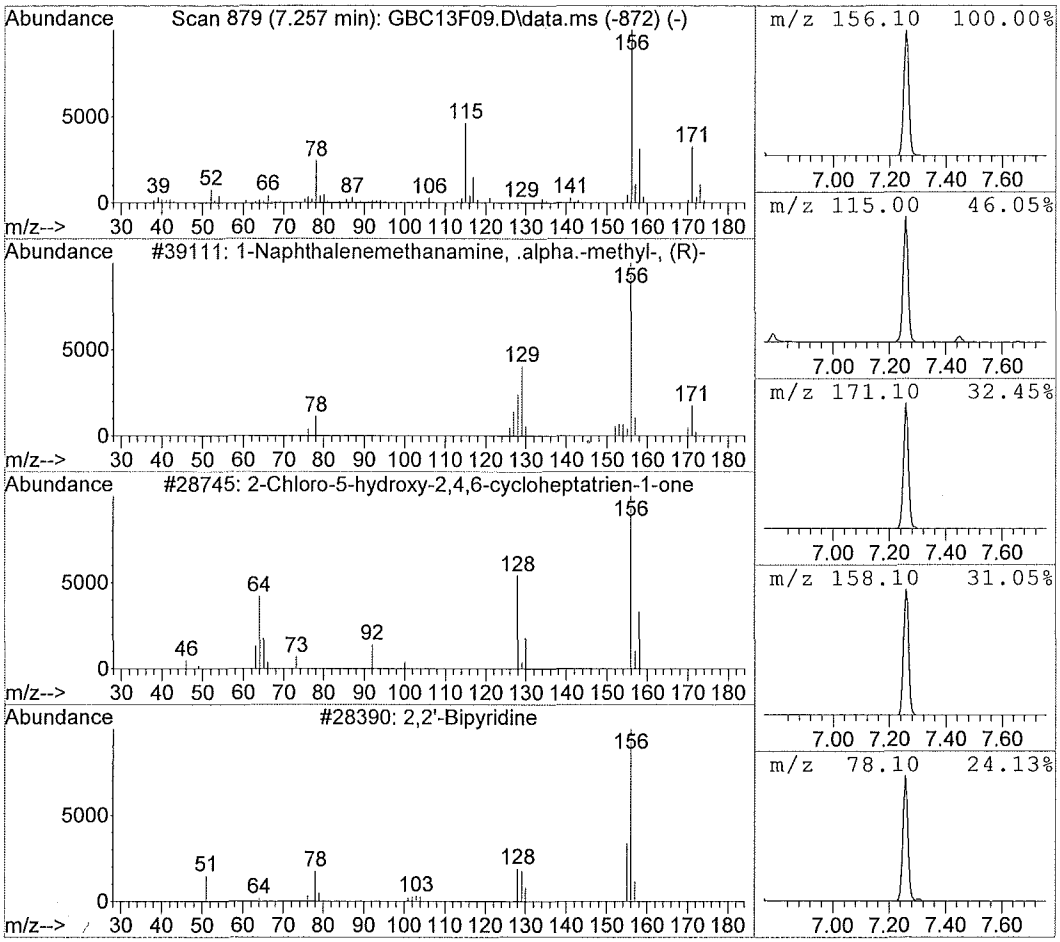


Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.26	2.20 ug/ml	258760	Naphthalene-d8	2351241

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Naphthalenemethanamine, .alpha.-m	39111	003886-70-2	43.00
2	2-Chloro-5-hydroxy-2,4,6-cyclohepta	28745	007009-16-7	43.00
3	2,2'-Bipyridine	28390	000366-18-7	38.00
4	1,3-Diaza-5,6-dedihydrocyclohexan-4	39204	021263-85-4	38.00
5	1,2,3,4-Tetrahydropentalene, 1,1-di	39115	1000217-18-6	37.00

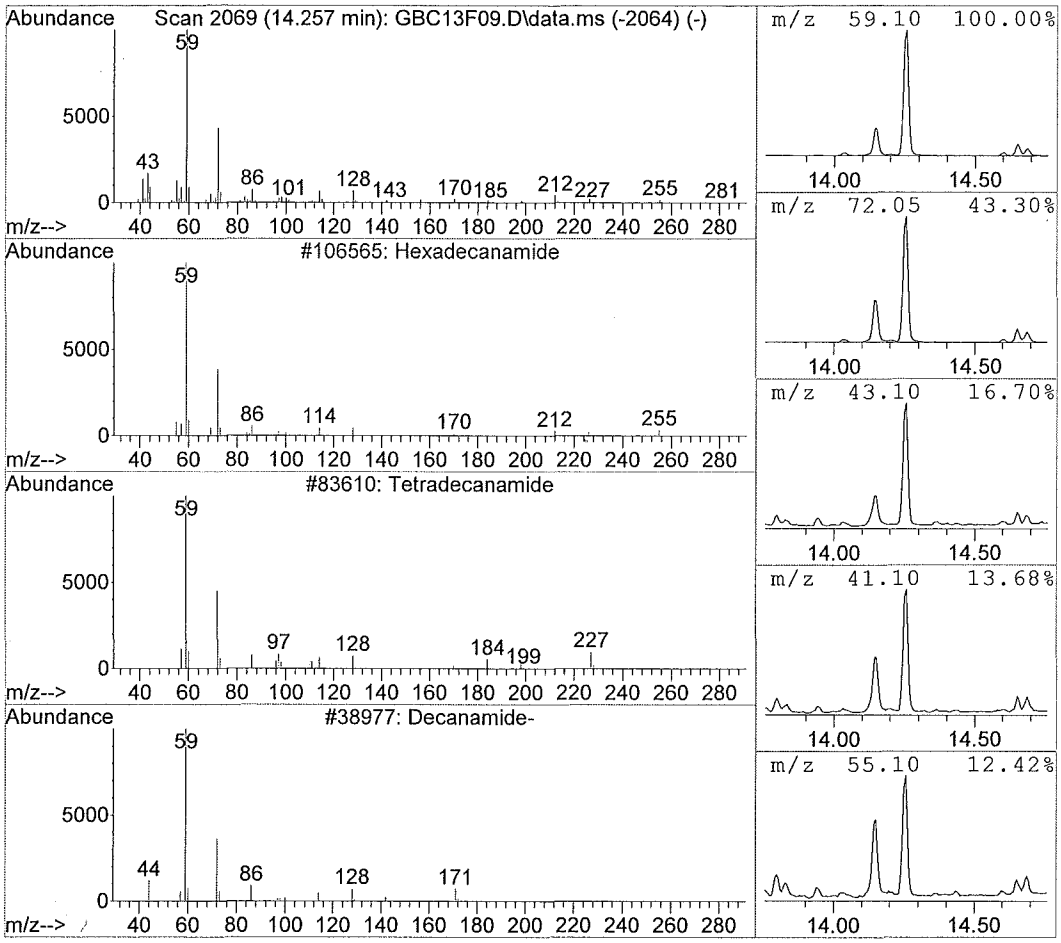


Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	4.77 ug/ml	731096	Chrysene-d12	3068243

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	95.00
2	Tetradecanamide	83610	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	83.00
4	Dodecanamide	60439	001120-16-7	64.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00

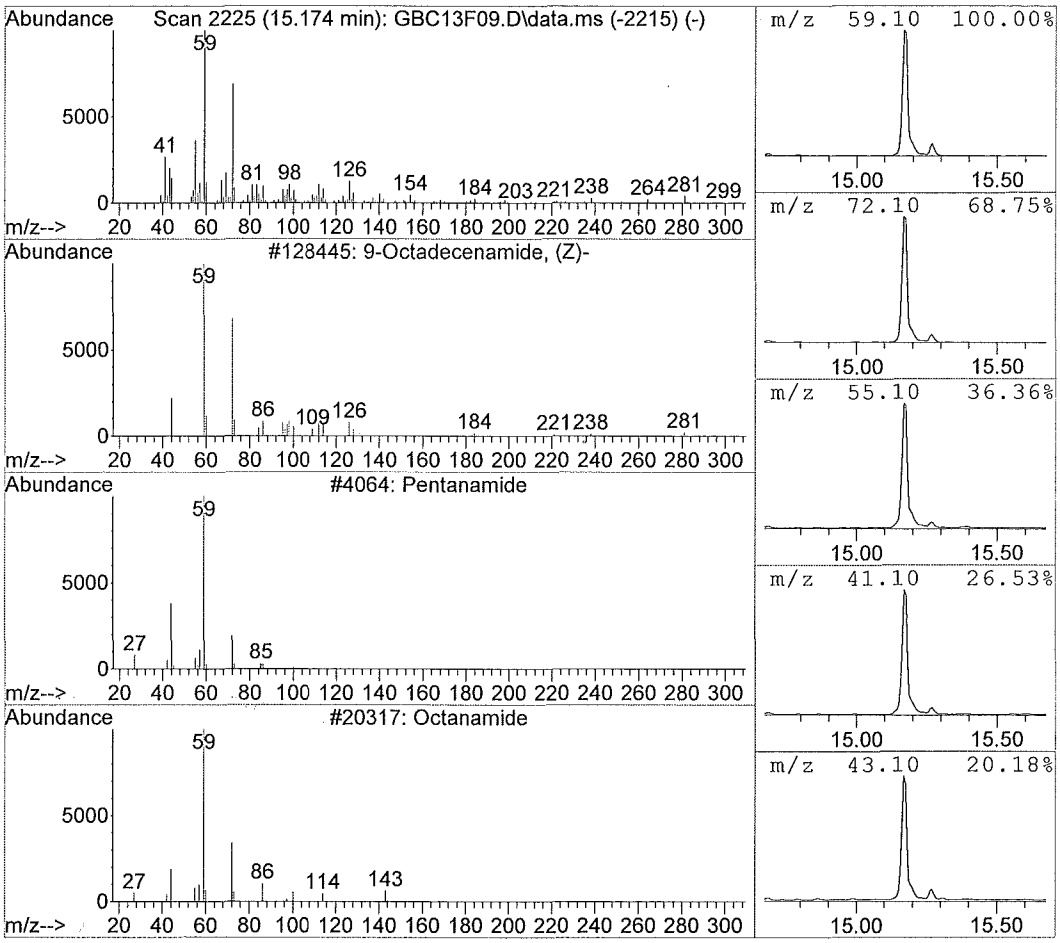


Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	37.43 ug/ml	5742492	Chrysene-d12	3068243

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Pentanamide	4064	000626-97-1	50.00
3	Octanamide	20317	000629-01-6	50.00
4	Dodecanamide	60440	001120-16-7	50.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	47.00



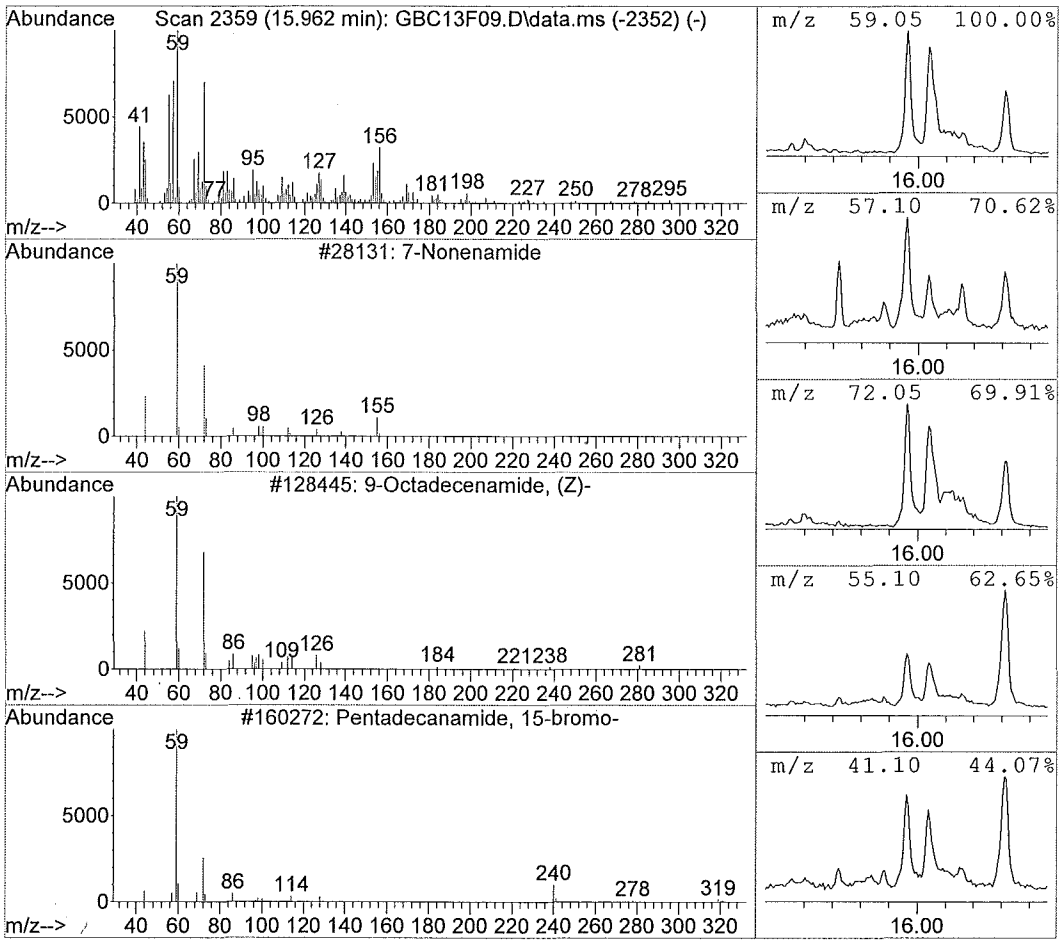
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.96	2.46 ug/ml	377519	Chrysene-d12	3068243

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	53.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	52.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	50.00
4	cis-9,10-Epoxyoctadecanamide	142013	172995-07-2	47.00
5	Dodecanamide	60440	001120-16-7	46.00



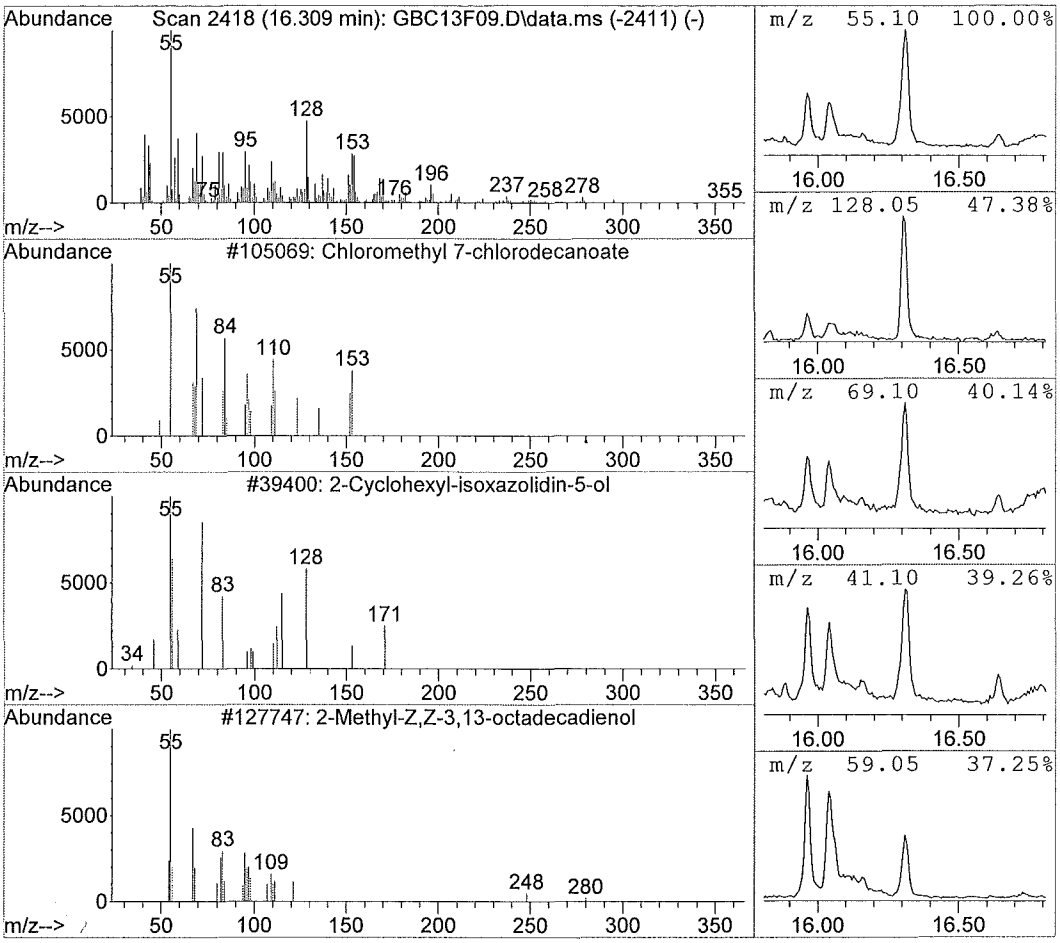
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	3.63 ug/ml	556647	Chrysene-d12	3068243

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Chloromethyl 7-chlorodecanoate	105069	080418-84-4	12.00
2	2-Cyclohexyl-isoxazolidin-5-ol	39400	052400-49-4	12.00
3	2-Methyl-Z,Z-3,13-octadecadienol	127747	1000130-90-5	10.00
4	2-(4-Nitrobutyryl)cyclooctanone	94695	079630-93-6	10.00
5	Cyclohexanecarboxamide	11823	001122-56-1	10.00

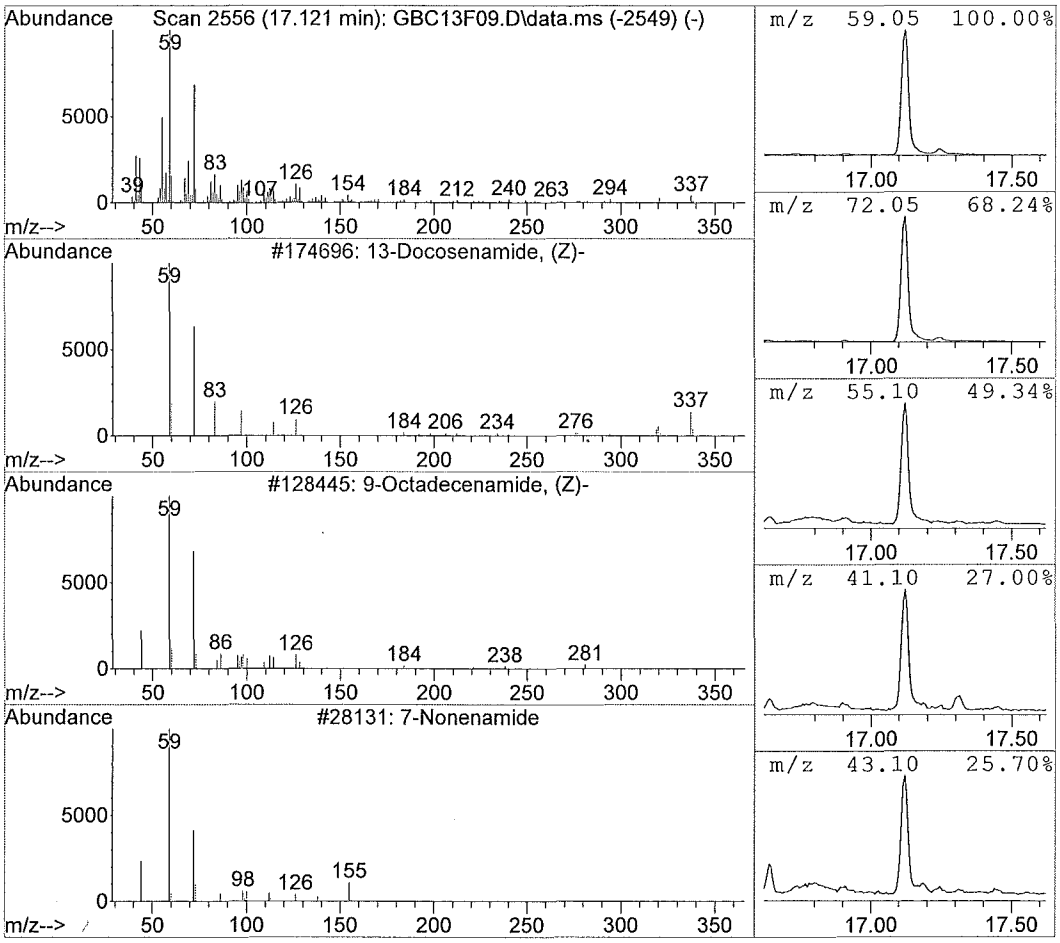


Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.12	8.47 ug/ml	1298771	Perylene-d12	3065838

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	95.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	90.00
3	7-Nonenamide	28131	090949-53-4	64.00
4	Octadecanamide	130204	000124-26-5	47.00
5	2-Hydroxy-2-methylundec-5-en-3-one	59566	1000191-46-2	35.00

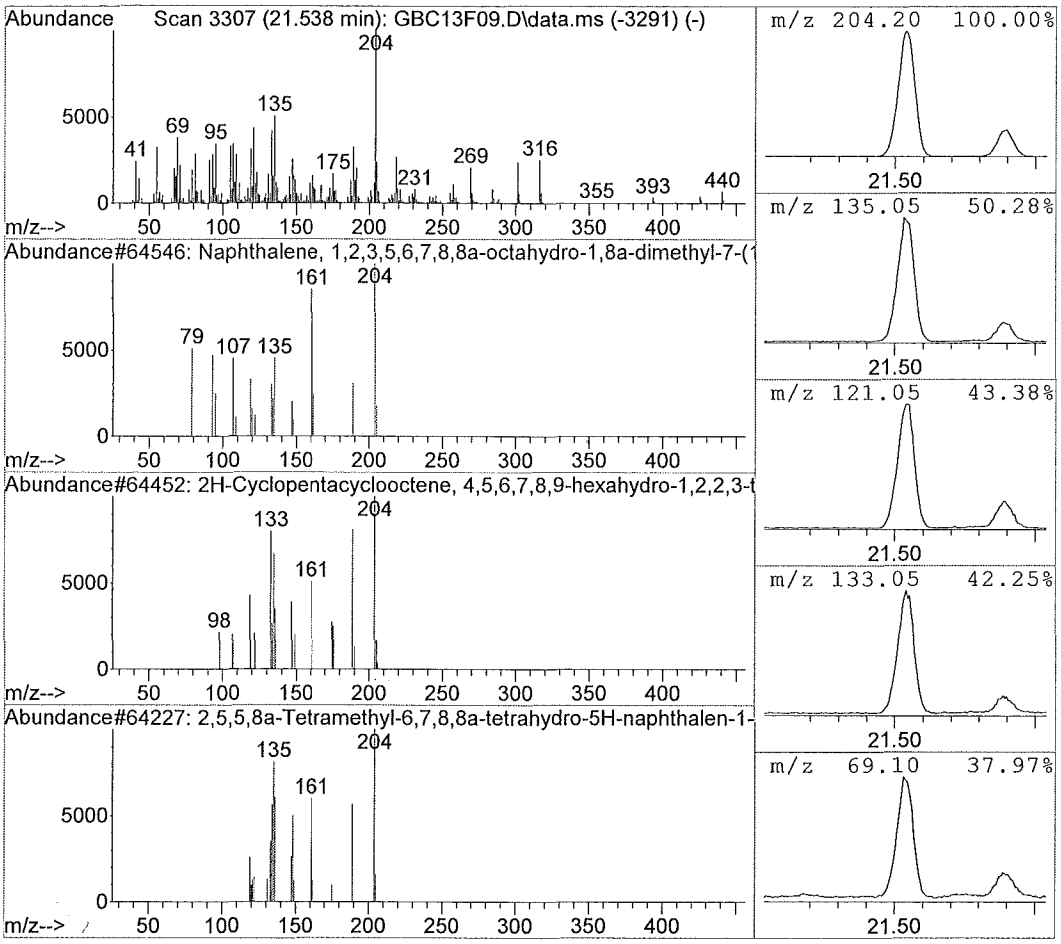


Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.54	31.49 ug/ml	4826697	Perylene-d12	3065838

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	58.00
2	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	47.00
3	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	45.00
4	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
5	3H-3a,7-Methanoazulene, 2,4,5,6,7,8	64520	002387-78-2	42.00

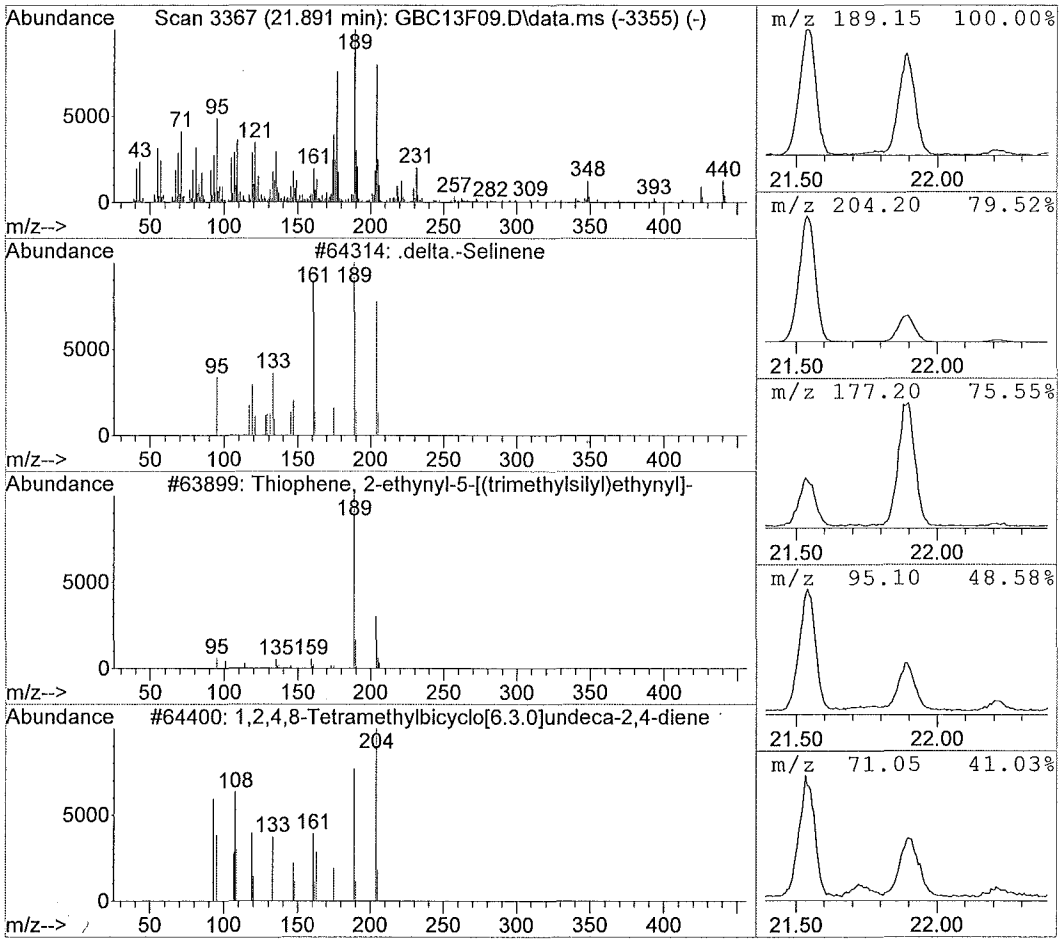


Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.89	9.32 ug/ml	1428645	Perylene-d12	3065838

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.delta.-Selinene	64314	028624-23-9	43.00
2	Thiophene, 2-ethynyl-5-[(trimethyls	63899	182323-29-1	43.00
3	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	38.00
4	3H-1,2-Dithiole-3-thione, 5-tert-bu	64748	013120-76-8	38.00
5	3,4-Dihydrocoumarin, 4,4,7,8-tetram	64130	040614-36-6	38.00

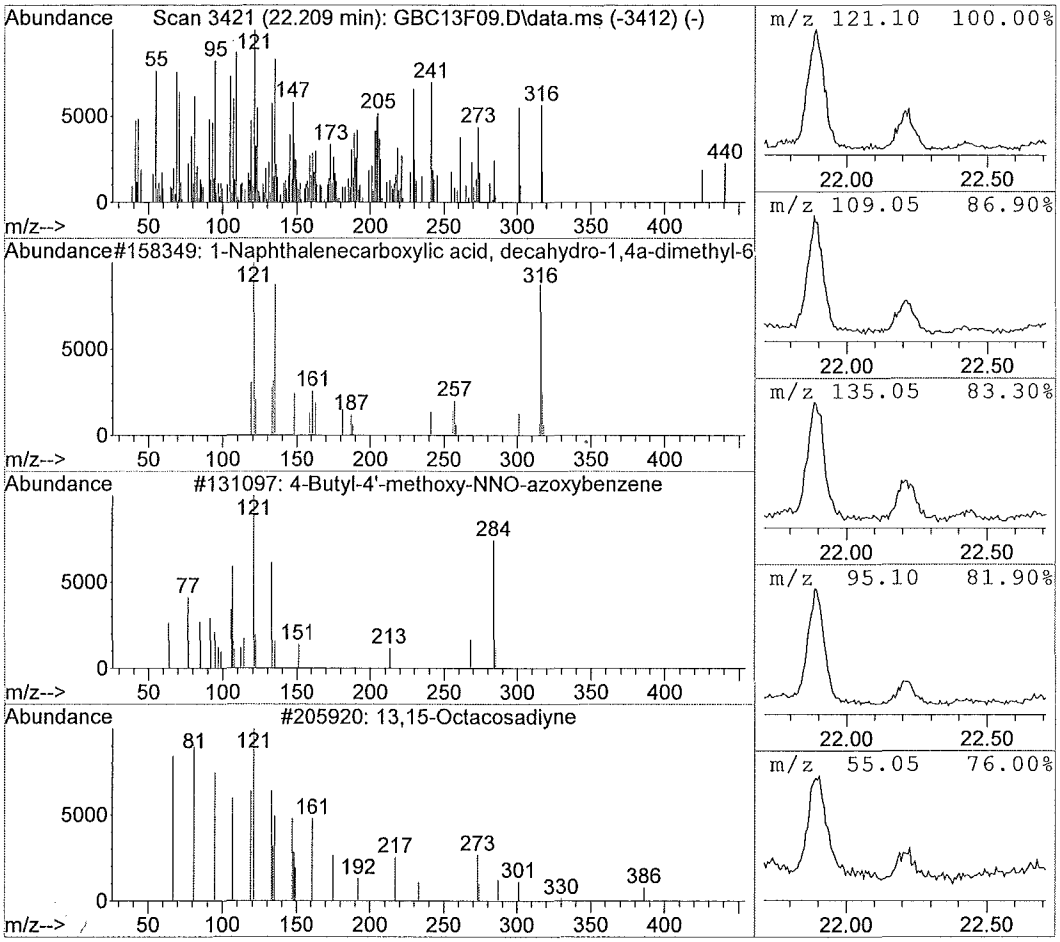


Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.21	2.14 ug/ml	328513	Perylene-d12	3065838

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Naphthalenecarboxylic acid, decah	158349	001235-39-8	49.00
2	4-Butyl-4'-methoxy-NNO-azoxybenzene	131097	031401-36-2	41.00
3	13,15-Octacosadiyne	205920	024643-46-7	38.00
4	1-Hydroxymethyl-5,8,9-endo-10-exo-t	90922	1000140-32-9	38.00
5	1-Naphthalenecarboxylic acid, decah	158352	015798-13-7	38.00

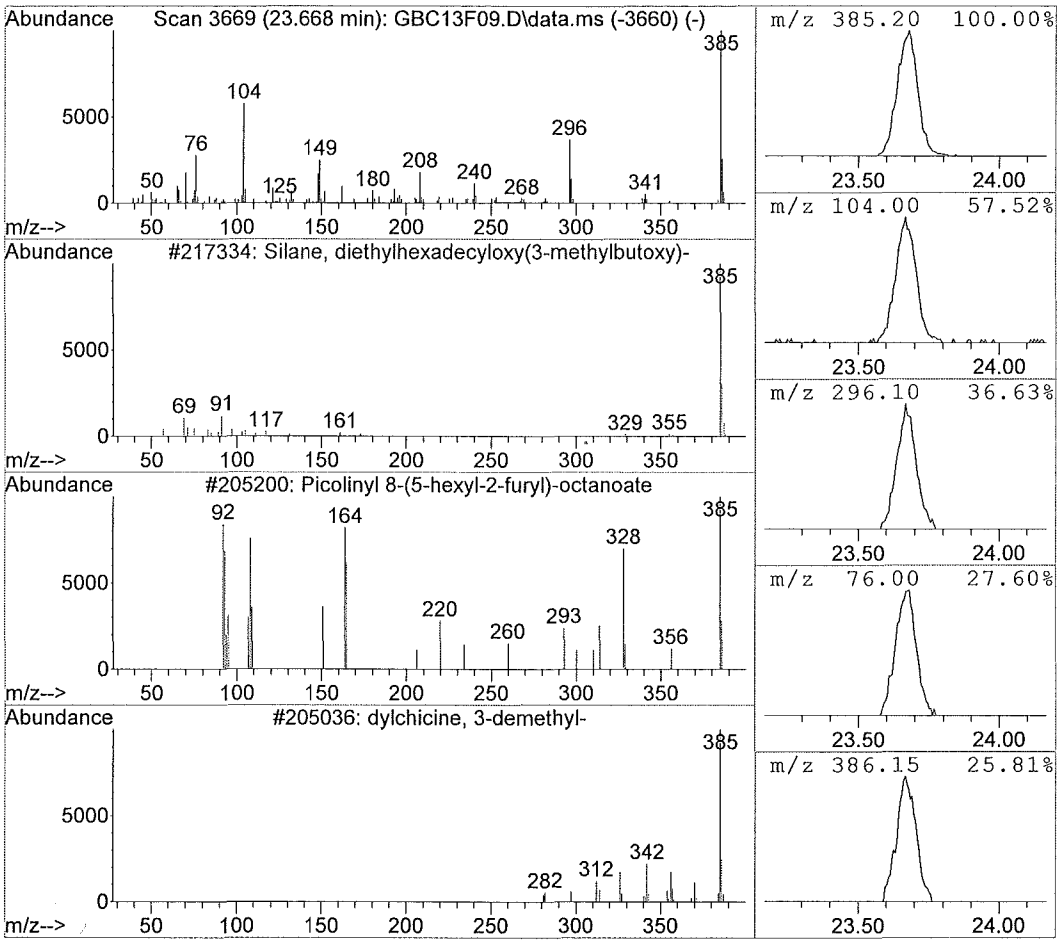


Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.67	2.12 ug/ml	325714	Perylene-d12	3065838

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Silane, diethylhexadecyloxy(3-methy	217334	1000363-00-5	35.00
2	Picolinyl 8-(5-hexyl-2-furyl)-octan	205200	1000335-93-0	27.00
3	dylchicine, 3-demethyl-	205036	007336-34-7	25.00
4	Silane, diethyl(2-ethylbutoxy)penta	217336	1000363-43-4	25.00
5	Xanthine, 1,3-diethyl-8-[4-[[[ethyl	204982	104576-48-9	25.00

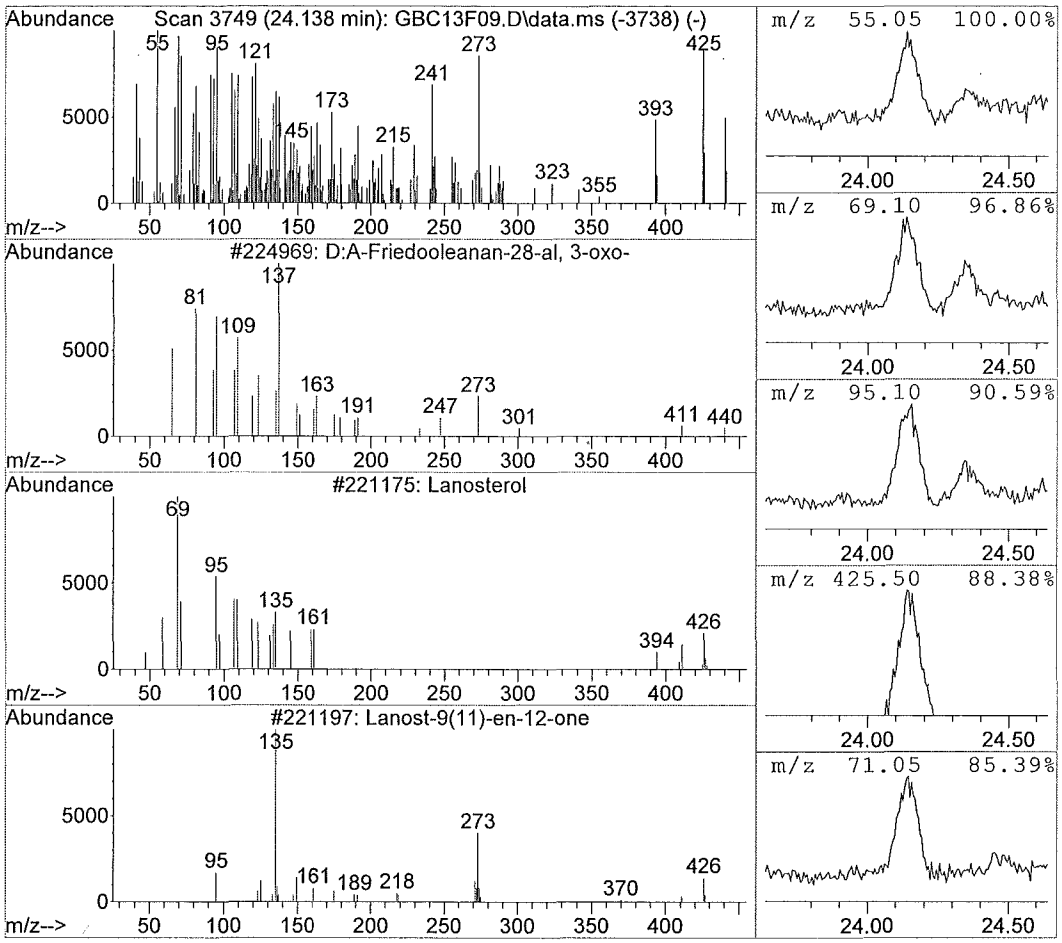


Data File : Z:\G\2015\JUN15\02JUN15\GBC13F09.D Vial: 12
Acq On : 06/02/2015 19:58 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.14	3.09 ug/ml	473171	Perylene-d12	3065838

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D:A-Friedooleanan-28-al, 3-oxo-	224969	014440-40-5	32.00
2	Lanosterol	221175	000079-63-0	30.00
3	Lanost-9(11)-en-12-one	221197	052474-76-7	25.00
4	D:A-Friedooleanane-1,3-dione, 24-hy	228534	043230-65-5	25.00
5	Cholest-23-ene, (5.beta.)-	197224	030658-62-9	18.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L67

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293012

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC14F12

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	2000	U
108-95-2	Phenol	2000	U
111-44-4	Bis(2-chloroethyl)ether	2000	U
95-57-8	2-Chlorophenol	2000	U
95-48-7	2-Methylphenol	2000	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2000	U
98-86-2	Acetophenone	2000	U
106-44-5	4-Methylphenol	2000	U
621-64-7	N-Nitroso-di-n-propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	2000	U
111-91-1	Bis(2-chloroethoxy)methane	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
91-20-3	Naphthalene	2000	U
106-47-8	4-Chloroaniline	2000	U
87-68-3	Hexachlorobutadiene	2000	U
105-60-2	Caprolactam	2000	U
59-50-7	4-Chloro-3-methylphenol	2000	U
91-57-6	2-Methylnaphthalene	2000	U
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	2000	U
92-52-4	1,1'-Biphenyl	2000	U
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	3800	U
131-11-3	Dimethylphthalate	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U
208-96-8	Acenaphthylene	2000	U
99-09-2	3-Nitroaniline	3800	U
83-32-9	Acenaphthene	2000	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L67

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293012

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC14F12

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	3800	U
100-02-7	4-Nitrophenol	3800	U
132-64-9	Dibenzofuran	2000	U
121-14-2	2,4-Dinitrotoluene	2000	U
84-66-2	Diethylphthalate	2000	U
86-73-7	Fluorene	2000	U
7005-72-3	4-Chlorophenyl-phenylether	2000	U
100-01-6	4-Nitroaniline	3800	U
534-52-1	4,6-Dinitro-2-methylphenol	3800	U
86-30-6	N-Nitrosodiphenylamine[1]	2000	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2000	U
101-55-3	4-Bromophenyl-phenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
1912-24-9	Atrazine	2000	U
87-86-5	Pentachlorophenol	3800	U
85-01-8	Phenanthrene	2000	U
120-12-7	Anthracene	2000	U
86-74-8	Carbazole	2000	U
84-74-2	Di-n-butylphthalate	2000	U
206-44-0	Fluoranthene	2000	U
129-00-0	Pyrene	2000	U
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)anthracene	2000	U
218-01-9	Chrysene	2000	U
117-81-7	Bis(2-ethylhexyl)phthalate	2000	U
117-84-0	Di-n-octylphthalate	2000	U
205-99-2	Benzo(b)fluoranthene	2000	U
207-08-9	Benzo(k)fluoranthene	2000	U
50-32-8	Benzo(a)pyrene	2000	U
193-39-5	Indeno(1,2,3-cd)pyrene	2000	U
53-70-3	Dibenzo(a,h)anthracene	2000	U
191-24-2	Benzo(g,h,i)perylene	2000	U
58-90-2	2,3,4,6-Tetrachlorophenol	2000	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L67

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293012
Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC14F12
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015
GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 10.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.56	4800	J
02	301-02-0	9-Octadecenamide, (Z)-	15.16	1300	JNB
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

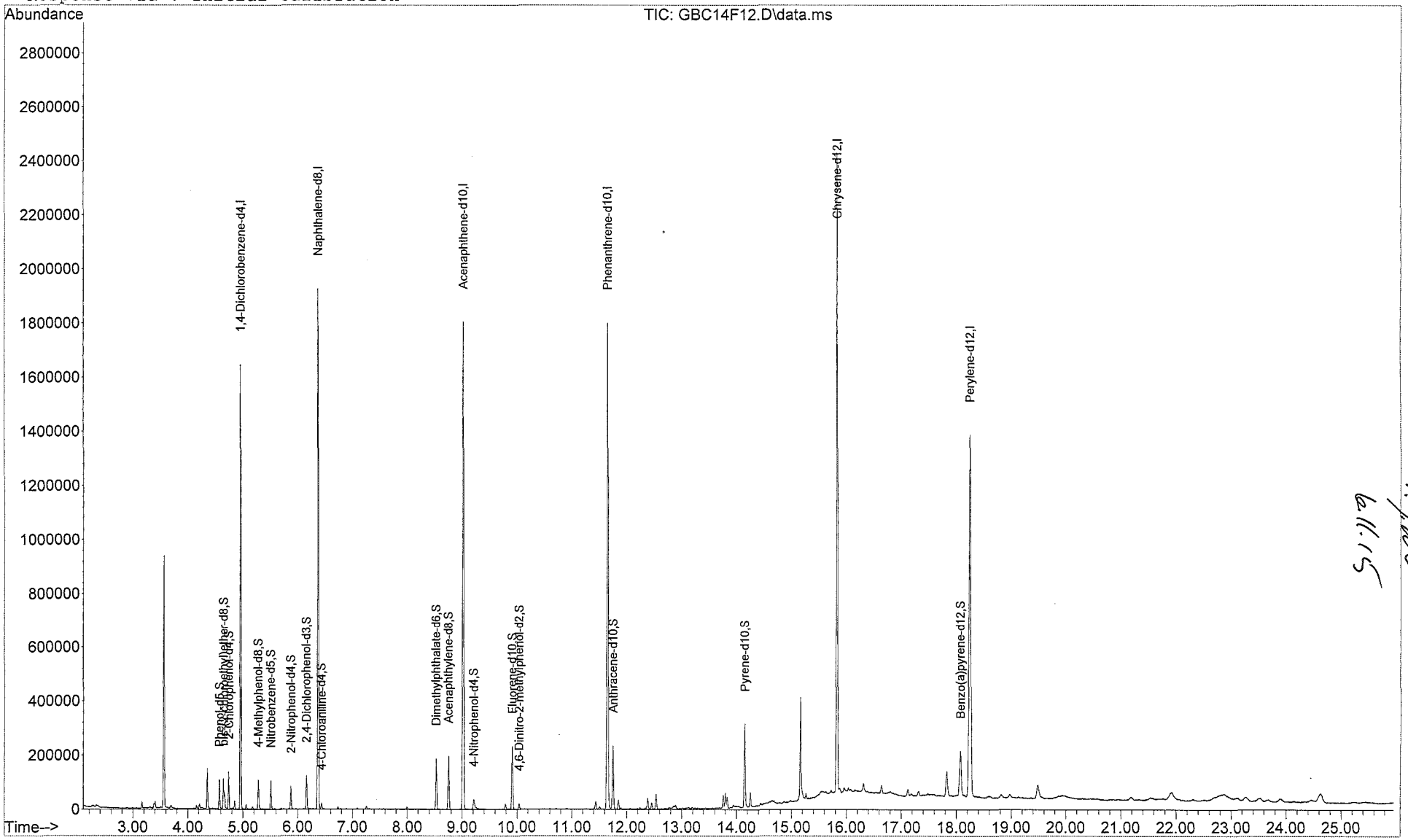
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC14F12.D Vial: 13
Acq On : 06/02/2015 20:30 Operator: DJC
Sample : 1514293012 F9L67 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 02 20:56:24 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC14F12.D Vial: 13
Acq On : 06/02/2015 20:30 Operator: DJC
Sample : 1514293012 F9L67 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 02 20:56:24 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	311238	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1155060	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	653924	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1087123	20.00 ug/ml
73) Chrysene-d12	15.83	240	1055674	20.00 ug/ml
81) Perylene-d12	18.25	264	1028052	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	45555	2.099ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	23315	1.754ug/mL
7) 2-Chlorophenol-d4	4.74	132	45264	2.124ug/ml
13) 4-Methylphenol-d8	5.28	113	28953	1.713ug/mL
17) Nitrobenzene-d5	5.51	128	20323	2.097ug/ml
21) 2-Nitrophenol-d4	5.87	143	23684	2.193ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	35662	2.254ug/mL
28) 4-Chloroaniline-d4	6.43	131	10140	0.591ug/mL
42) Dimethylphthalate-d6	8.53	166	114441	2.878ug/mL
45) Acenaphthylene-d8	8.75	160	133523	2.516ug/mL
50) 4-Nitrophenol-d4	9.21	143	16840	1.988ug/mL
57) Fluorene-d10	9.92	176	93607	2.710ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	5931	0.831ug/mL
69) Anthracene-d10	11.75	188	152618	2.775ug/mL
75) Pyrene-d10	14.15	212	132397	2.759ug/mL
86) Benzo(a)pyrene-d12	18.07	264	120730	2.589ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC14F12.D Vial: 13
Acq On : 06/02/2015 20:30 Operator: DJC
Sample : 1514293012 F9L67 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 02 20:56:24 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

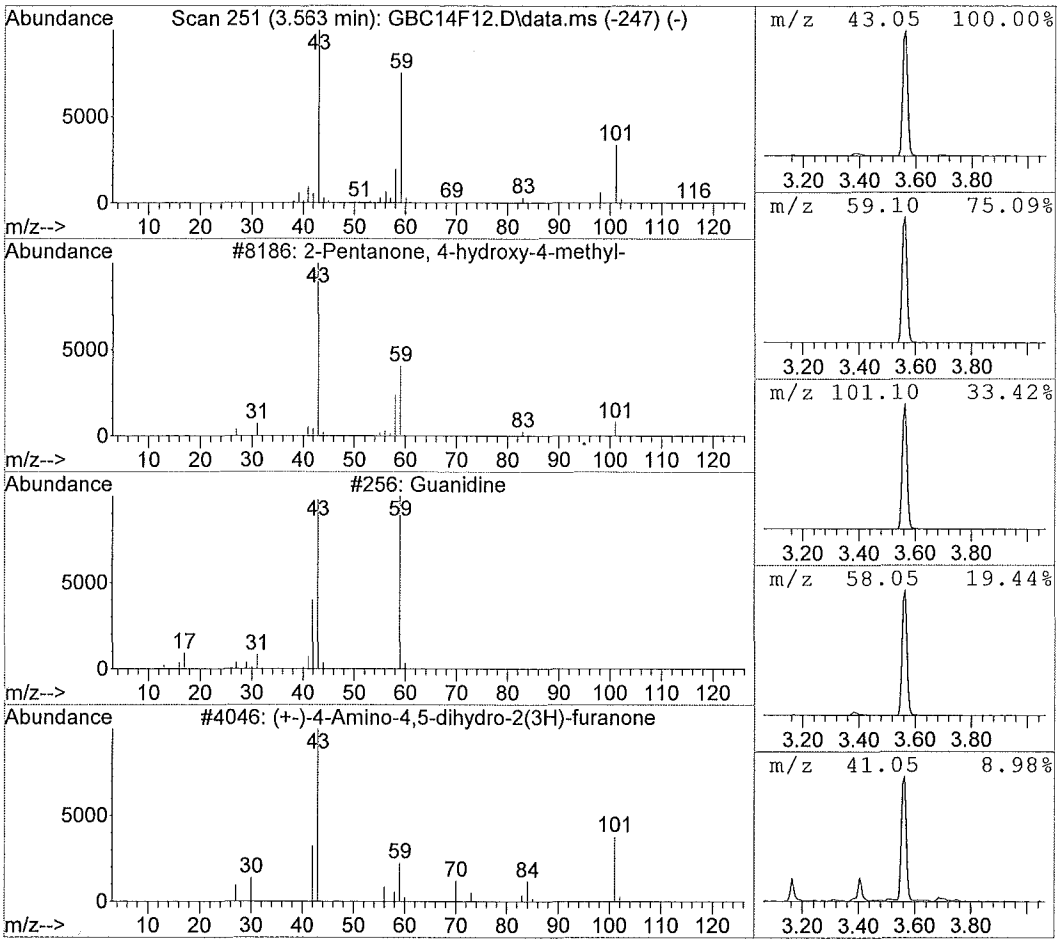
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC14F12.D Vial: 13
Acq On : 06/02/2015 20:30 Operator: DJC
Sample : 1514293012 F9L67 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	12.48 ug/ml	1069744	1,4-Dichlorobenzene-d4	1713964

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	Guanidine	256	000113-00-8	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Morpholine, 4-methyl-	4076	000109-02-4	9.00
5	Acetone	214	000067-64-1	9.00

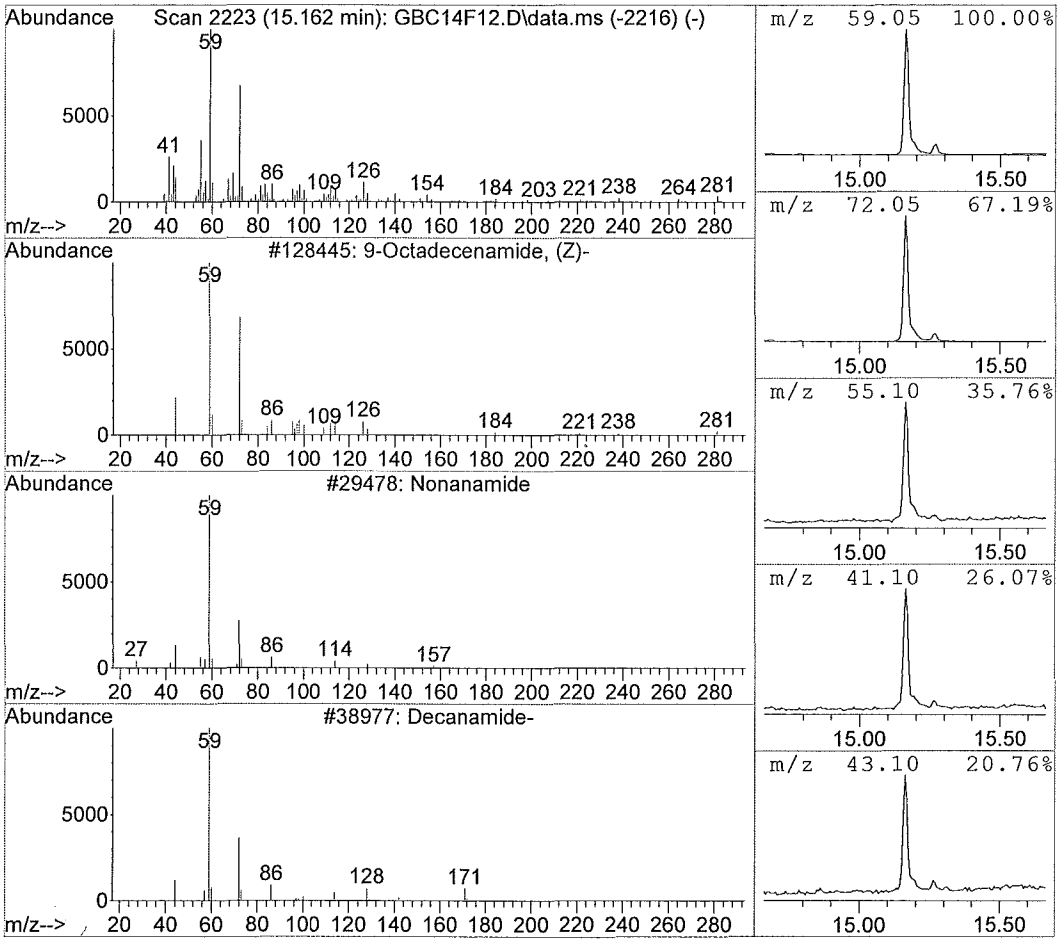


Data File : Z:\G\2015\JUN15\02JUN15\GBC14F12.D Vial: 13
Acq On : 06/02/2015 20:30 Operator: DJC
Sample : 1514293012 F9L67 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.16	3.33 ug/ml	495467	Chrysene-d12	2974858

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Nonanamide	29478	001120-07-6	50.00
3	Decanamide-	38977	002319-29-1	42.00
4	2-Hydroxy-2,4-dimethyl-hept-6-en-3-	29069	1000192-56-0	38.00
5	Butanamide, 3-methyl-	4085	000541-46-8	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L68

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293013

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC15F13

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L68

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293013

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC15F13

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L68

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293013
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC15F13
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015
GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.12	89.	JB
02		Unknown 2-Pentanone, 4-hydroxy-	3.37	120	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.59	5200	J
04		Unknown 3-Hexene-2,5-dione	4.35	300	JB
05		Unknown 2-Chloro-5-hydroxy-2,4,6-cycloheptatrien	7.26	89.	J
06	629-54-9	Hexadecanamide	14.25	170	JNB
07	301-02-0	9-Octadecenamide, (Z)-	15.17	1500	JNB
08		Unknown 5-Chlorovaleramide, N,N-dimethyl-	16.31	100	J
09	112-84-5	13-Docosenamide, (Z)-	17.12	130	JN
10		Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	21.53	86.	J
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	89.	J

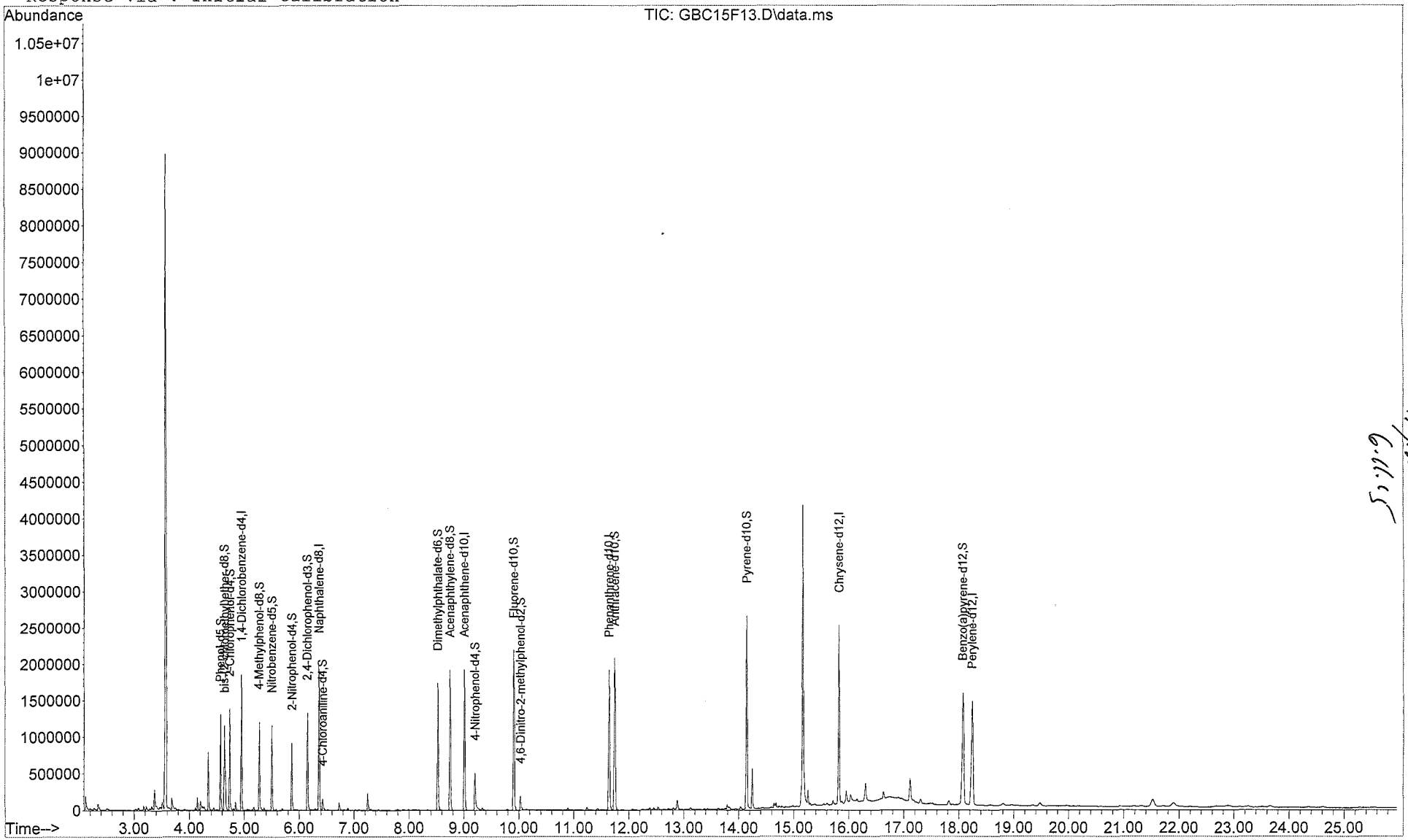
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 14:42:11 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:42:11 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	321428	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1201504	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	676007	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1124912	20.00 ug/ml
73) Chrysene-d12	15.83	240	1076772	20.00 ug/ml
81) Perylene-d12	18.25	264	1047215	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	466248	20.801ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	244289	17.800ug/mL
7) 2-Chlorophenol-d4	4.75	132	467694	21.252ug/ml
13) 4-Methylphenol-d8	5.28	113	291822	16.722ug/mL
17) Nitrobenzene-d5	5.51	128	214969	21.325ug/ml
21) 2-Nitrophenol-d4	5.87	143	244774	21.788ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	355142	21.580ug/mL
28) 4-Chloroaniline-d4	6.43	131	72396	4.055ug/mL
42) Dimethylphthalate-d6	8.53	166	1064462	25.892ug/mL
45) Acenaphthylene-d8	8.76	160	1254959	22.873ug/mL
50) 4-Nitrophenol-d4	9.21	143	180821	20.654ug/mL
57) Fluorene-d10	9.92	176	887566	24.856ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	48650	6.584ug/mL
69) Anthracene-d10	11.75	188	1367522	24.032ug/mL
75) Pyrene-d10	14.15	212	1218730	24.896ug/mL
86) Benzo(a)pyrene-d12	18.08	264	1114825	23.469ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:42:11 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

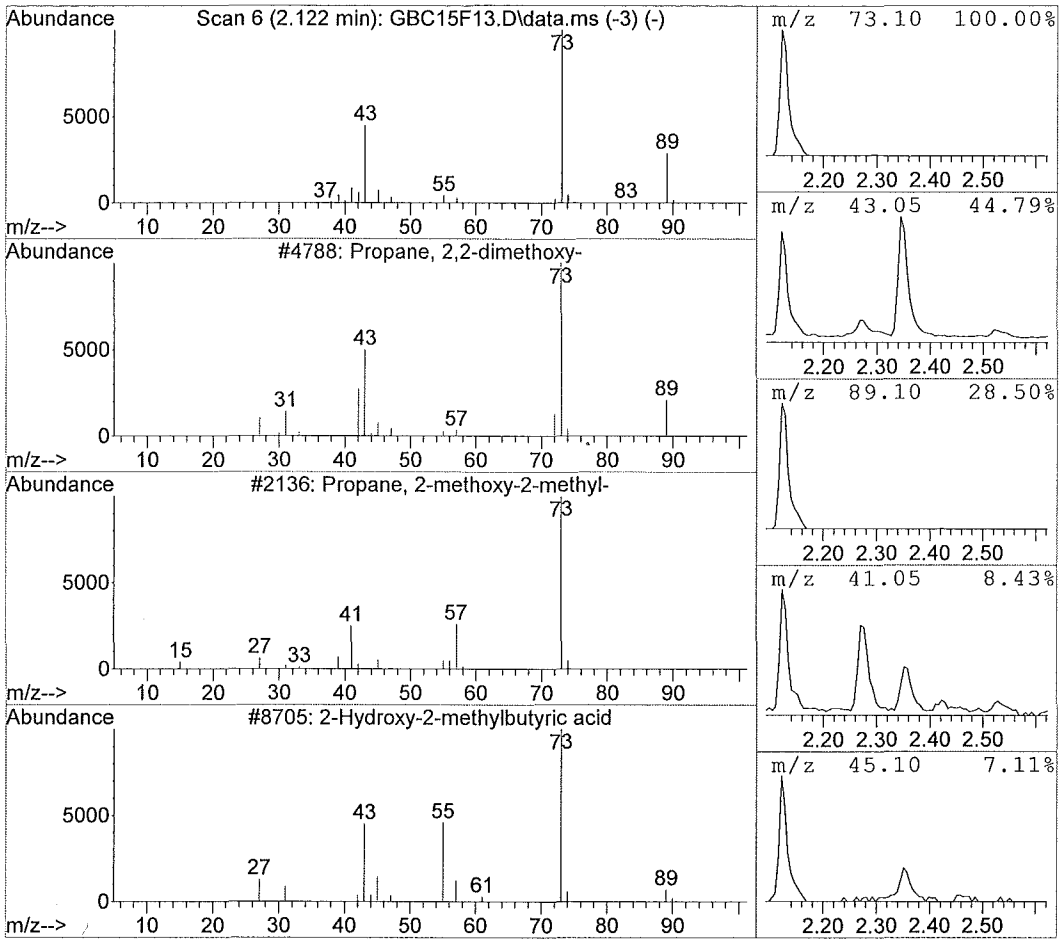
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	2.38 ug/ml	214371	1,4-Dichlorobenzene-d4	1803972

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	40.00
2	Propane, 2-methoxy-2-methyl-	2136	001634-04-4	9.00
3	2-Hydroxy-2-methylbutyric acid	8705	003739-30-8	9.00
4	Pentane, 3-methoxy-	4436	036839-67-5	9.00
5	1-Hexen-4-ol, 1-chloro-3,5-dimethyl	32642	100244-09-5	9.00

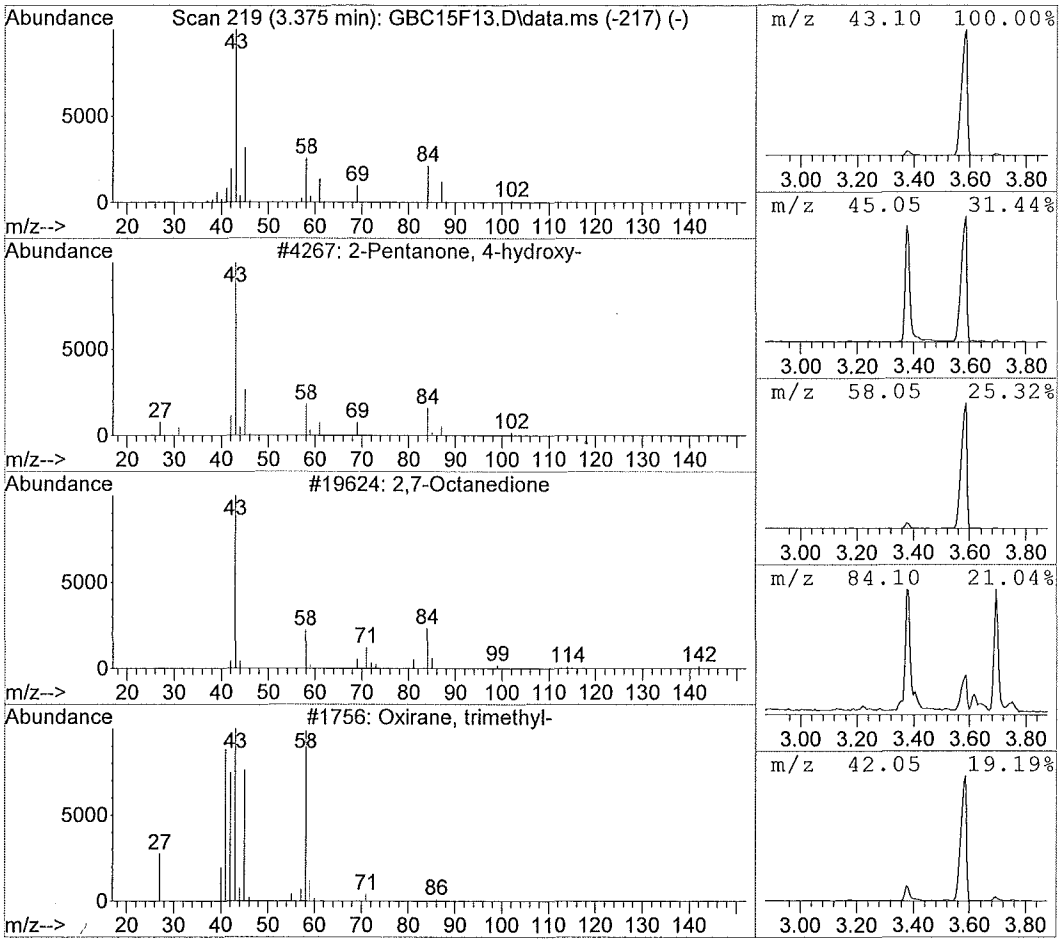


Data File : Z:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.37	3.30 ug/ml	297209	1,4-Dichlorobenzene-d4	1803972

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	72.00
2	2,7-Octanedione	19624	001626-09-1	25.00
3	Oxirane, trimethyl-	1756	005076-19-7	23.00
4	Isopropyl acetate	4254	000108-21-4	10.00
5	Acetone	213	000067-64-1	9.00

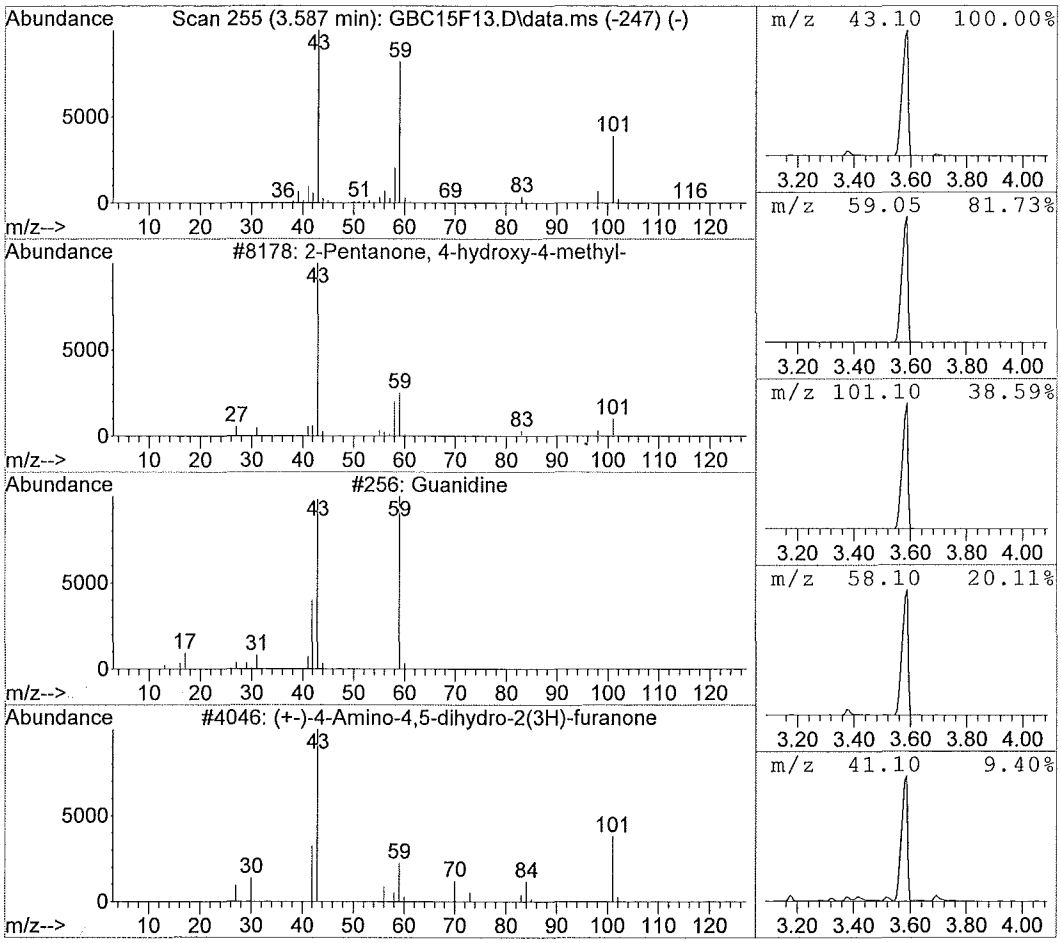


Data File : Z:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.59	138.74 ug/ml	12514154	1,4-Dichlorobenzene-d4	1803972

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	64.00
2	Guanidine	256	000113-00-8	43.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	35.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	Butane, 1-ethoxy-	4425	000628-81-9	9.00



Library Search Compound Report

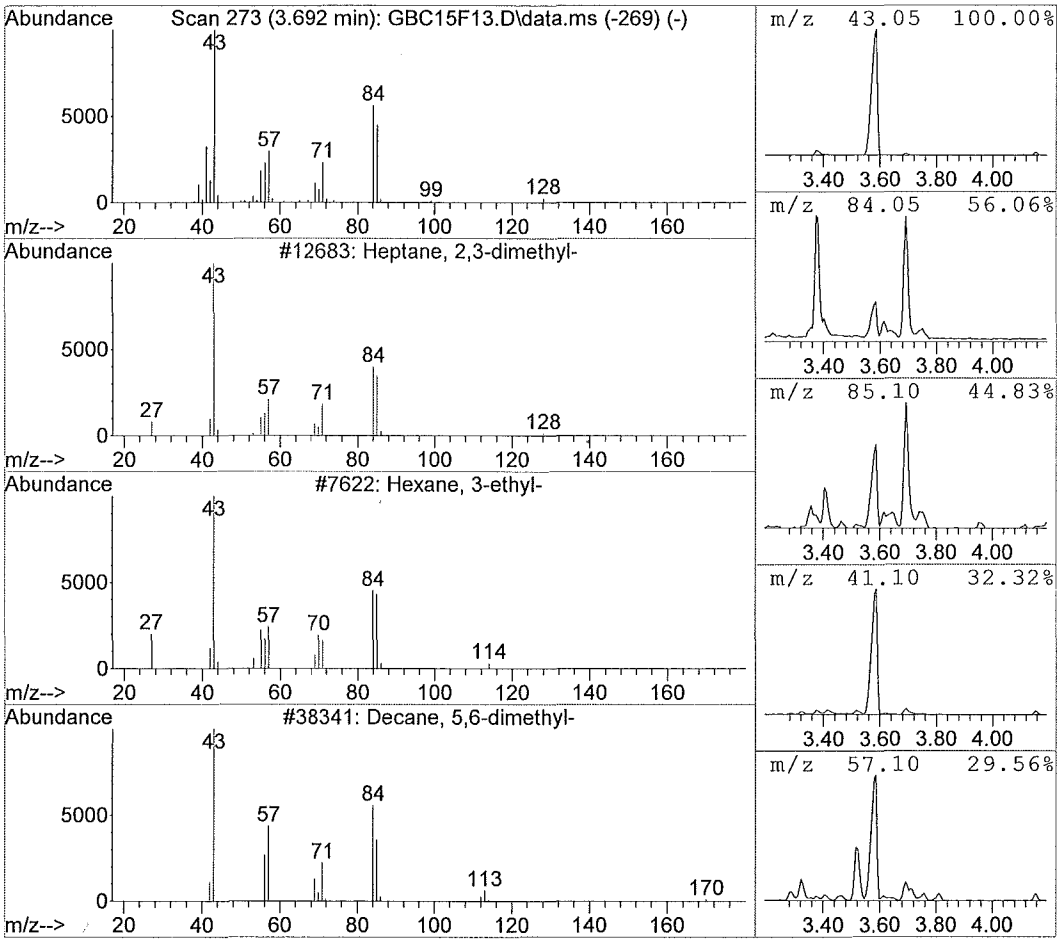
Data File : Z:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	2.39 ug/ml	215419	1,4-Dichlorobenzene-d4	1803972

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	87.00
2	Hexane, 3-ethyl-	7622	000619-99-8	83.00
3	Decane, 5,6-dimethyl-	38341	001636-43-7	74.00
4	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	59.00
5	Heptane, 4-ethyl-	12666	002216-32-2	50.00

BA.

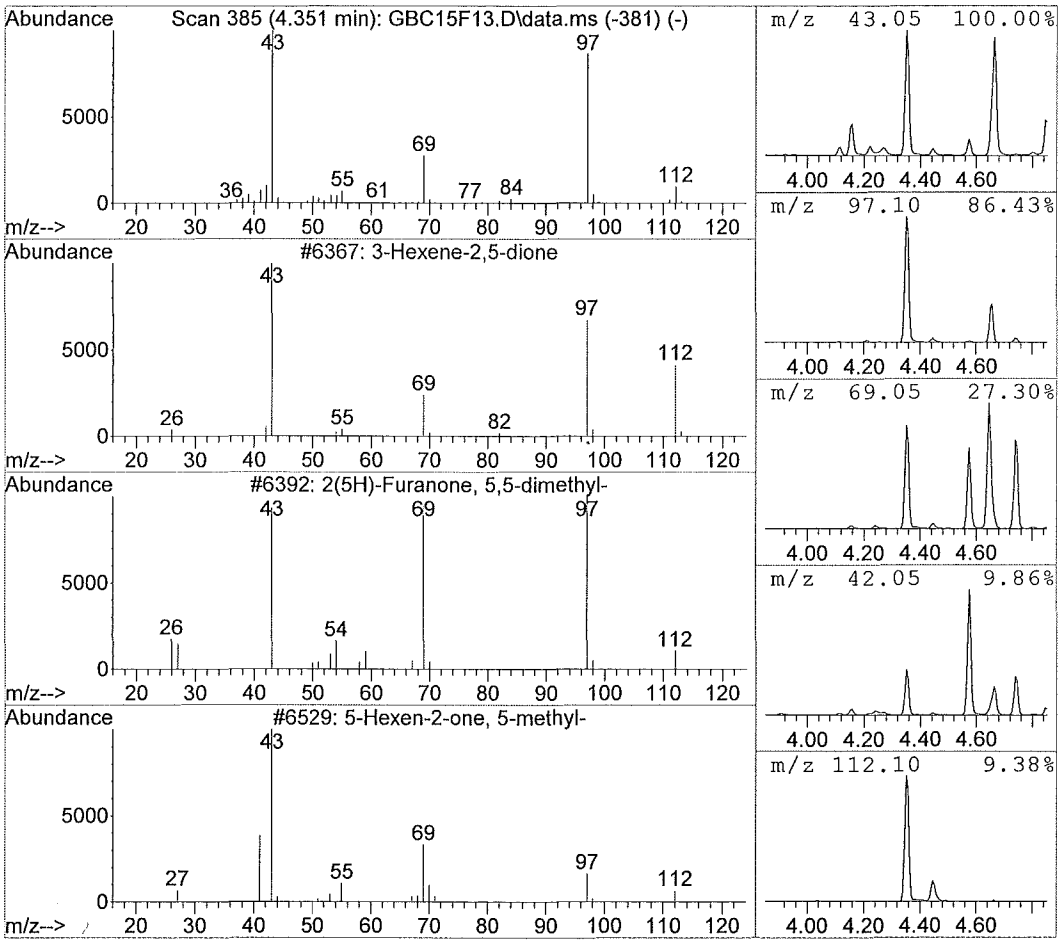


Data File : Z:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	8.17 ug/ml	736517	1,4-Dichlorobenzene-d4	1803972

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	78.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
3	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	9.00
4	2-Pyrazoline, 1,4,5-trimethyl-	6304	007423-11-2	9.00
5	Acetyl cyanide	478	000631-57-2	9.00

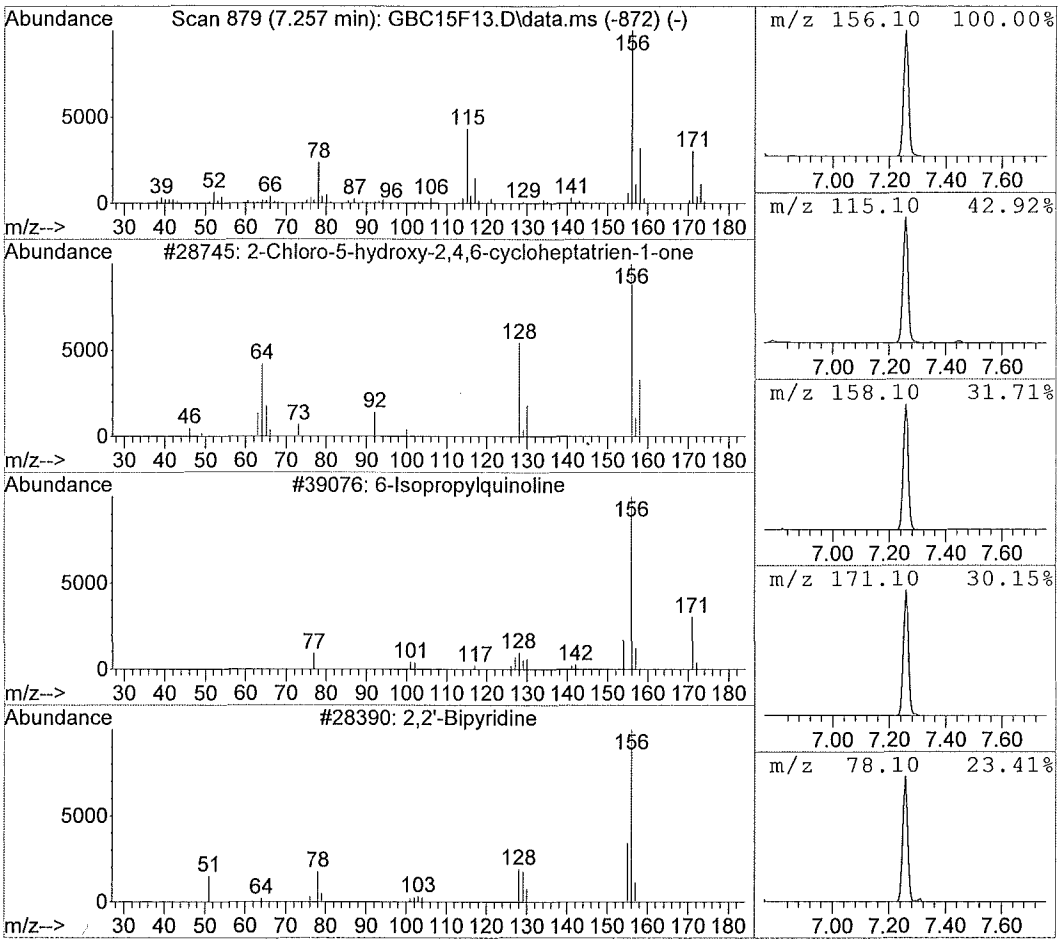


Data File : Z:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.26	2.39 ug/ml	281807	Naphthalene-d8	2354908

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Chloro-5-hydroxy-2,4,6-cyclohepta	28745	007009-16-7	43.00
2	6-Isopropylquinoline	39076	000135-79-5	38.00
3	2,2'-Bipyridine	28390	000366-18-7	38.00
4	1,2,3,4-Tetrahydropentalene, 1,1-di	39115	1000217-18-6	37.00
5	1,2,3,3a-Tetrahydropentalene, 1,1-d	39116	1000217-17-0	37.00

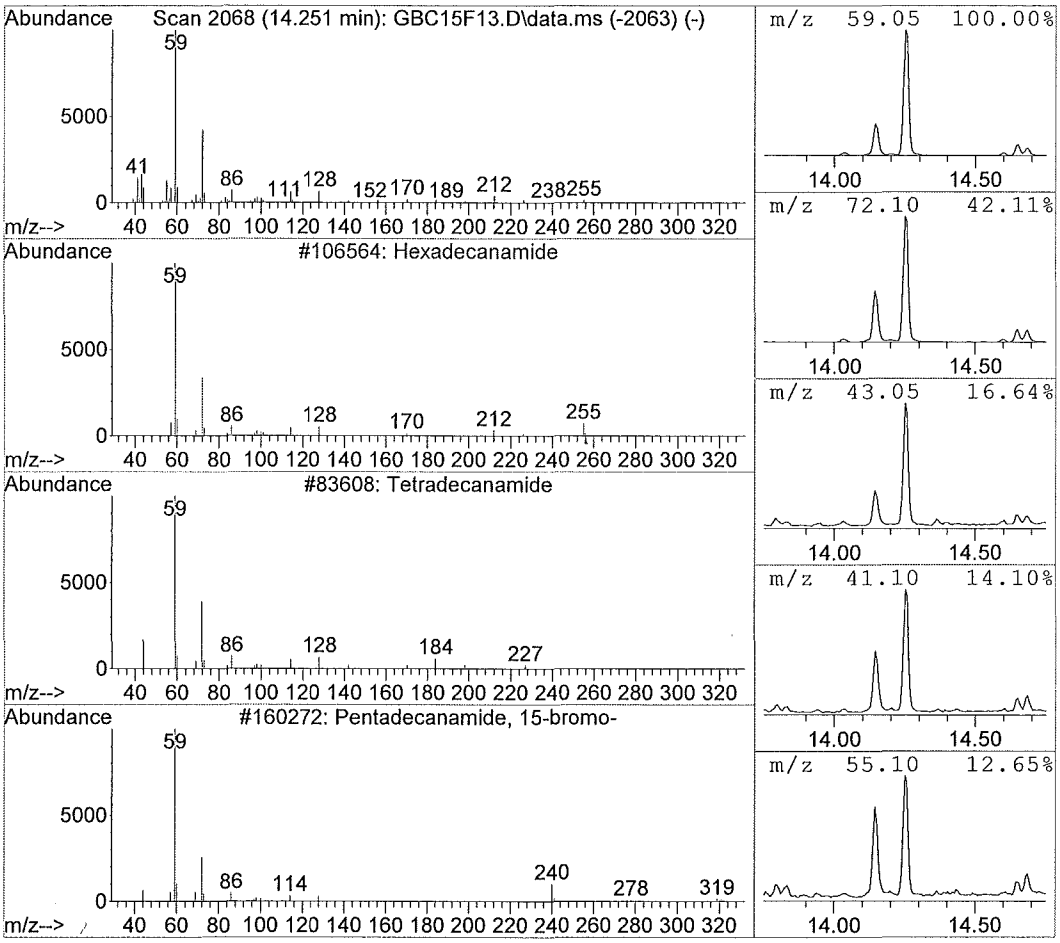


Data File : Z:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.25	4.43 ug/ml	680879	Chrysene-d12	3075665

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	89.00
2	Tetradecanamide	83608	000638-58-4	86.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	56.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	53.00

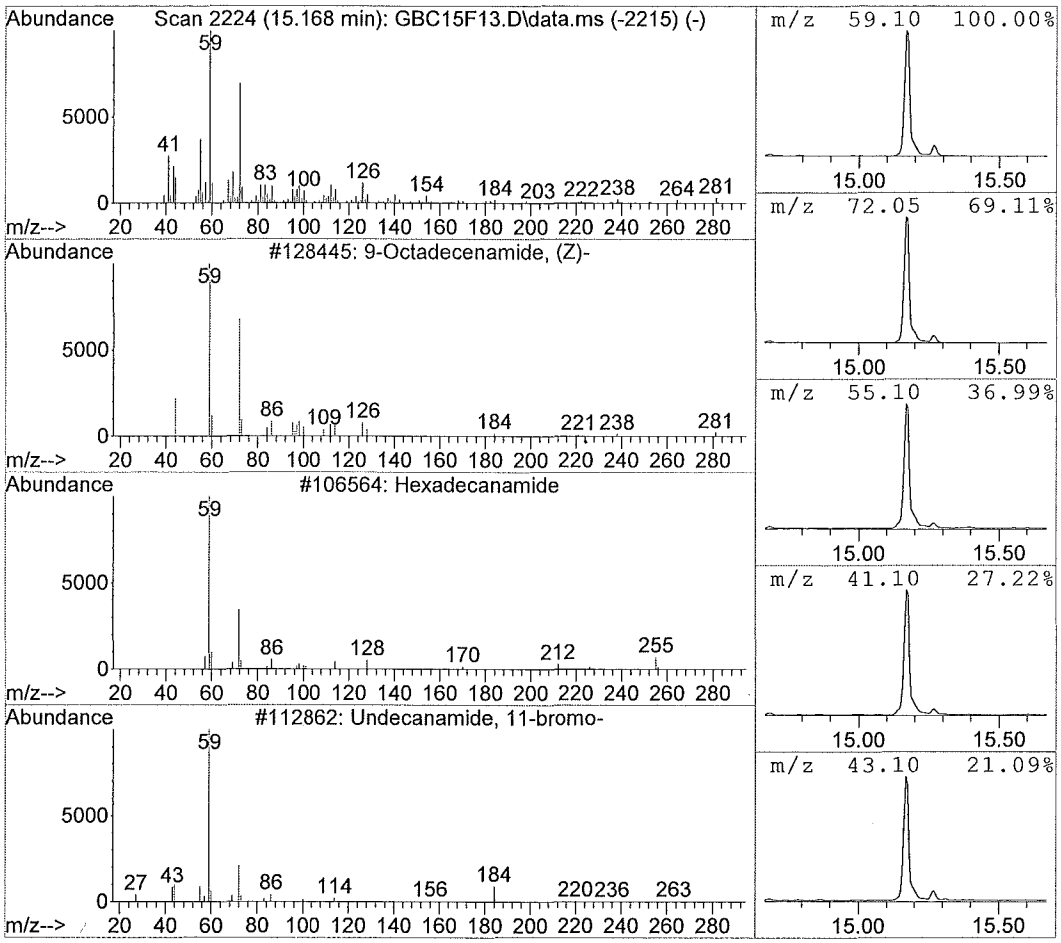


Data File : Z:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	38.97 ug/ml	5993307	Chrysene-d12	3075665

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	56.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	53.00
4	Dodecanamide	60440	001120-16-7	53.00
5	Octanamide	20317	000629-01-6	53.00

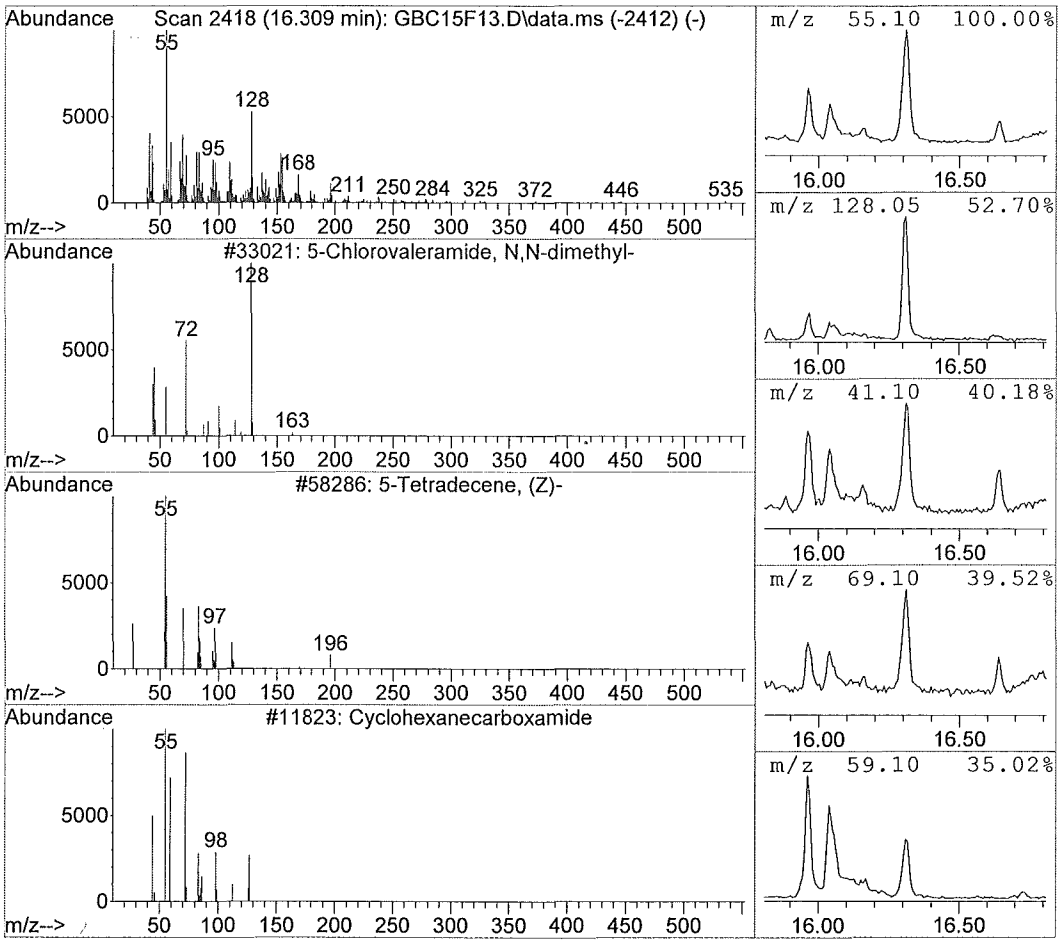


Data File : Z:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	2.71 ug/ml	416495	Chrysene-d12	3075665

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	5-Chlorovaleramide, N,N-dimethyl-	33021	1000339-95-2	18.00
2	5-Tetradecene, (Z)-	58286	041446-62-2	15.00
3	Cyclohexanecarboxamide	11823	001122-56-1	11.00
4	Oxalic acid, 4-chlorophenyl octyl e	154244	1000309-61-3	11.00
5	4-Formyl-1,3(2H)-dihydroimidazole-2	12000	013953-95-2	10.00

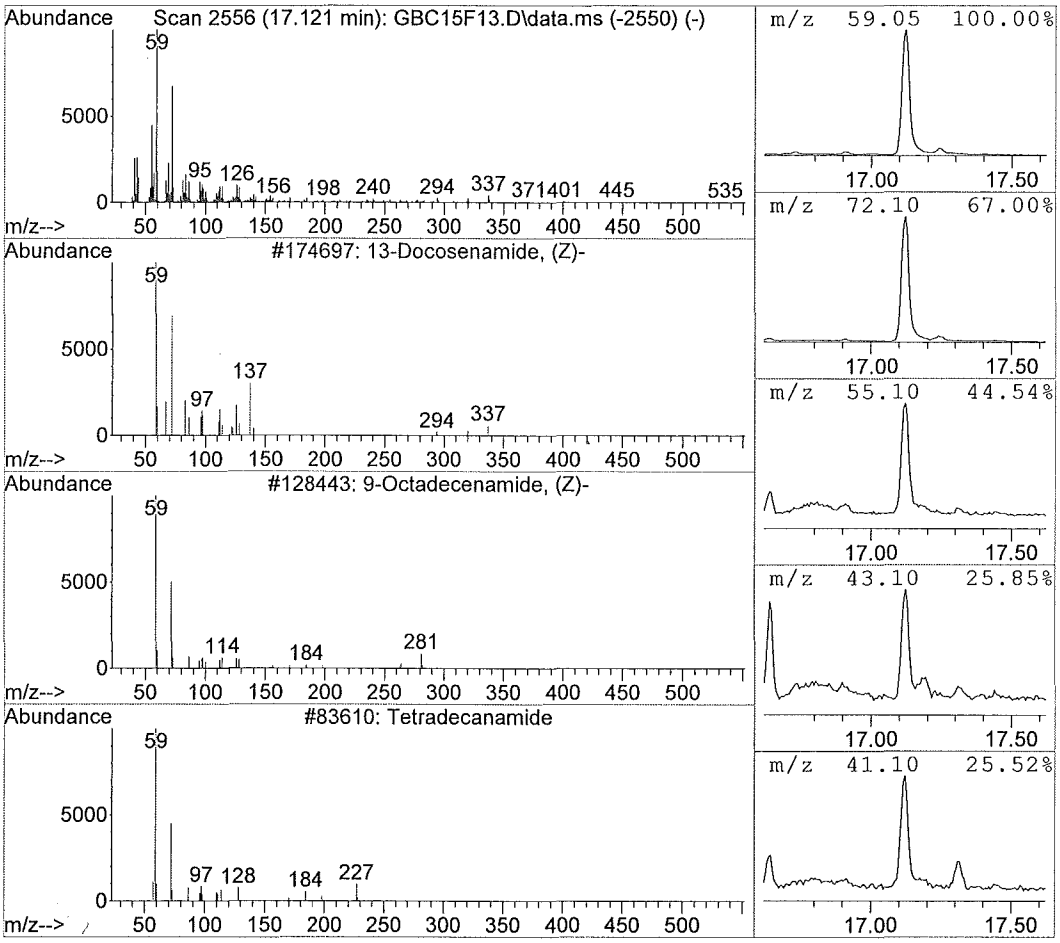


Data File : Z:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.12	3.40 ug/ml	527216	Perylene-d12	3098367

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	96.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	91.00
3	Tetradecanamide	83610	000638-58-4	64.00
4	Dodecanamide	60440	001120-16-7	47.00
5	2-Furanmethanol, 5-ethenyltetrahydr	38148	005989-33-3	43.00

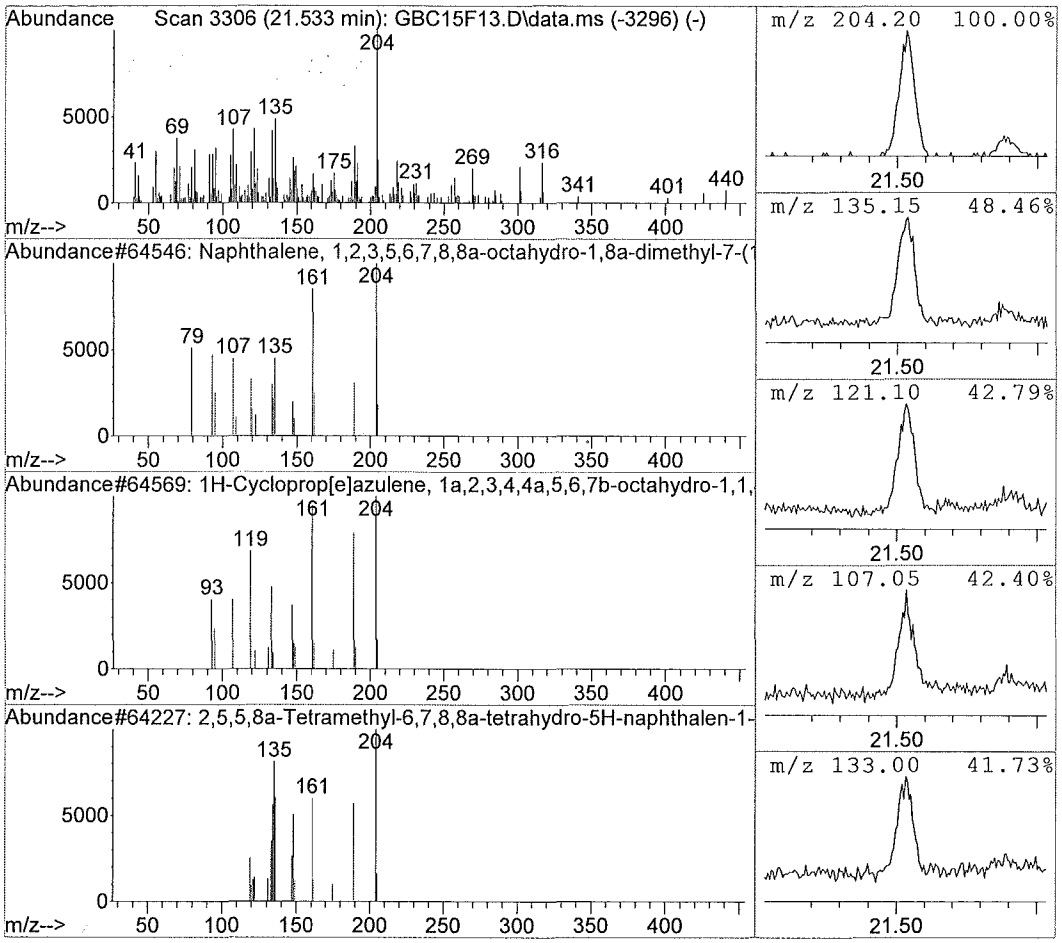


Data File : Z:\G\2015\JUN15\02JUN15\GBC15F13.D Vial: 14
Acq On : 06/02/2015 21:02 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.53	2.30 ug/ml	356972	Perylene-d12	3098367

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	64.00
2	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	46.00
3	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	41.00
4	[1,2,4]Triazolo[5,1-b]quinazolin-9(	63684	1000337-56-5	41.00
5	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L69

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293014

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC16F14

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L69

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293014

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC16F14

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L69

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293014
Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC16F14
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015
GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.12	240	JB
02	625-86-5	Furan, 2,5-dimethyl-	2.49	150	JN
03		Unknown 2-Pentanone, 4-hydroxy-	3.38	110	J
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.59	7900	J
05		Unknown 3-Hexene-2,5-dione	4.35	130	JB
06	629-54-9	Hexadecanamide	14.25	110	JNB
07	301-02-0	9-Octadecenamide, (Z)-	15.17	750	JNB
08		Unknown N-(3-Methyl-2,5-dioxo-imidazolidin-4-yl)	16.31	76.	J
09	112-84-5	13-Docosenamide, (Z)-	17.12	200	JN
10		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	21.53	330	J
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

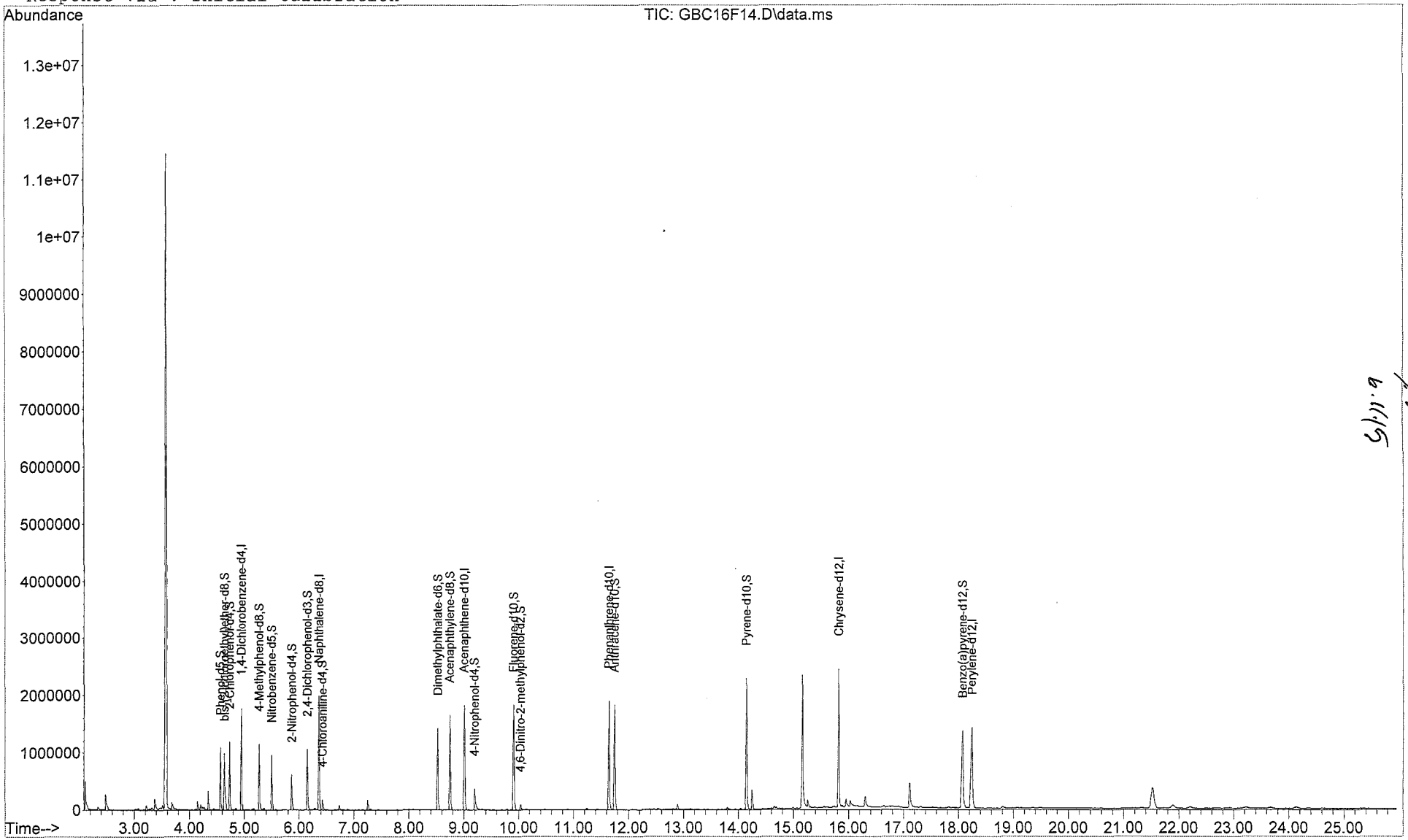
Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC16F14.D
Acq On : 06/02/2015 21:34
Sample : 1514293014 F9L69
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 15
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:42:34 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:42:34 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	310996	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1164384	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	651969	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1082247	20.00 ug/ml
73) Chrysene-d12	15.83	240	1060059	20.00 ug/ml
81) Perylene-d12	18.25	264	1055600	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	387414	17.864ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	209340	15.765ug/mL
7) 2-Chlorophenol-d4	4.75	132	398742	18.726ug/ml
13) 4-Methylphenol-d8	5.28	113	279960	16.581ug/mL
17) Nitrobenzene-d5	5.51	128	182927	18.725ug/ml
21) 2-Nitrophenol-d4	5.87	143	164237	15.085ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	282467	17.711ug/mL
28) 4-Chloroaniline-d4	6.43	131	74132	4.285ug/mL
42) Dimethylphthalate-d6	8.53	166	876134	22.097ug/mL
45) Acenaphthylene-d8	8.76	160	1073310	20.283ug/mL
50) 4-Nitrophenol-d4	9.21	143	134956	15.984ug/mL
57) Fluorene-d10	9.92	176	738596	21.446ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	22258	3.131ug/mL
69) Anthracene-d10	11.75	188	1158878	21.168ug/mL
75) Pyrene-d10	14.15	212	1029005	21.352ug/mL
86) Benzo(a)pyrene-d12	18.08	264	991920	20.716ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00514

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:42:34 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

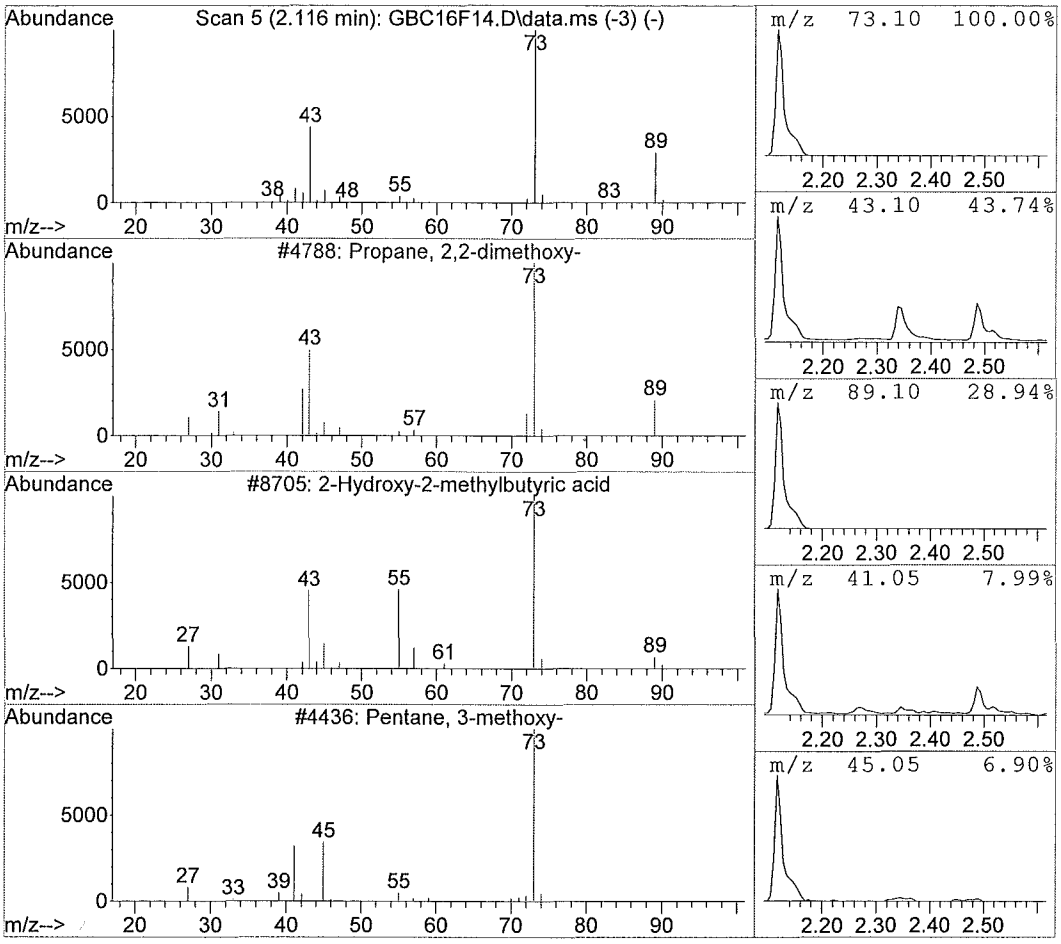
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	6.34 ug/ml	554373	1,4-Dichlorobenzene-d4	1747689

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	38.00
2	2-Hydroxy-2-methylbutyric acid	8705	003739-30-8	33.00
3	Pentane, 3-methoxy-	4436	036839-67-5	17.00
4	1-(2-Methoxyethoxy)-2-methyl-2-prop	32662	1000364-24-4	9.00
5	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00

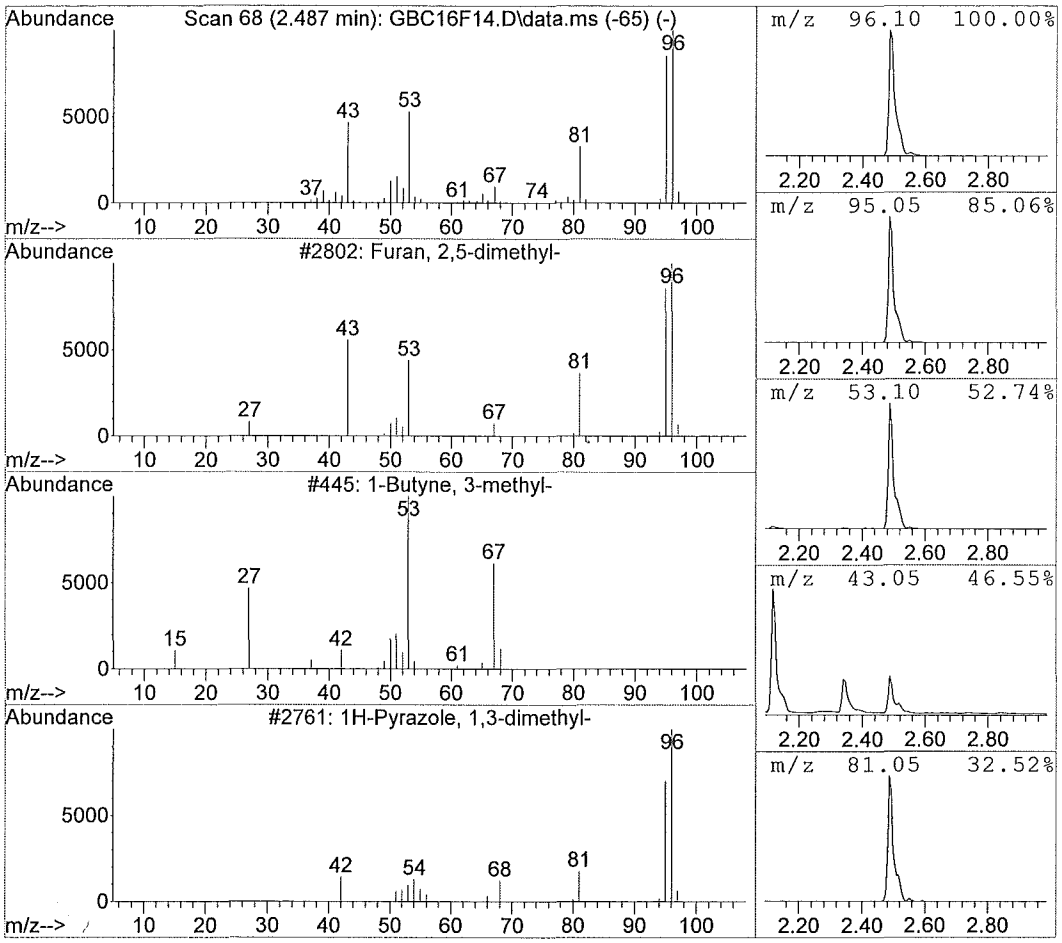


Data File : Z:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.49	4.11 ug/ml	359568	1,4-Dichlorobenzene-d4	1747689

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2802	000625-86-5	95.00
2	1-Butyne, 3-methyl-	445	000598-23-2	38.00
3	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	38.00
4	1-Butyne, 3-chloro-	2000	021020-24-6	38.00
5	Furfural	2736	000098-01-1	38.00



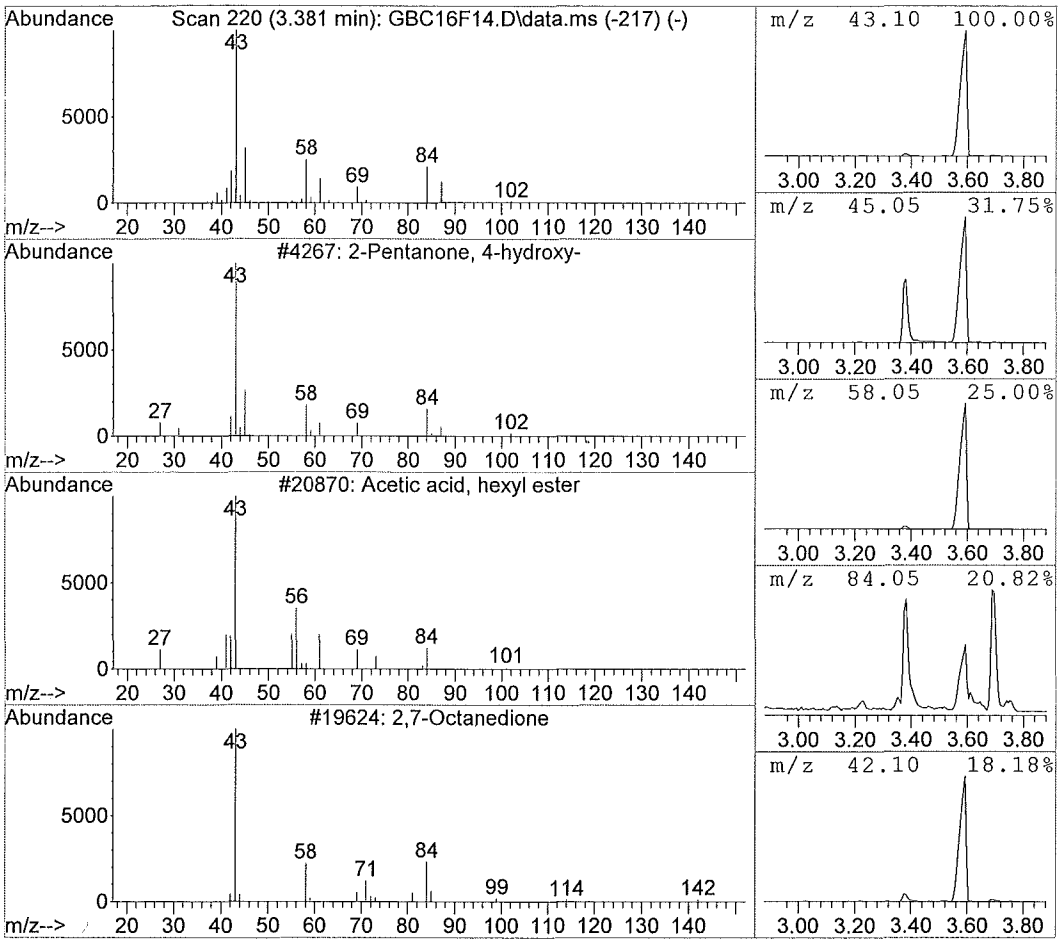
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	3.02 ug/ml	263847	1,4-Dichlorobenzene-d4	1747689

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	78.00
2	Acetic acid, hexyl ester	20870	000142-92-7	32.00
3	2,7-Octanedione	19624	001626-09-1	28.00
4	Ethanol, 2-methoxy-, acetate	8703	000110-49-6	12.00
5	Isopropyl acetate	4253	000108-21-4	12.00

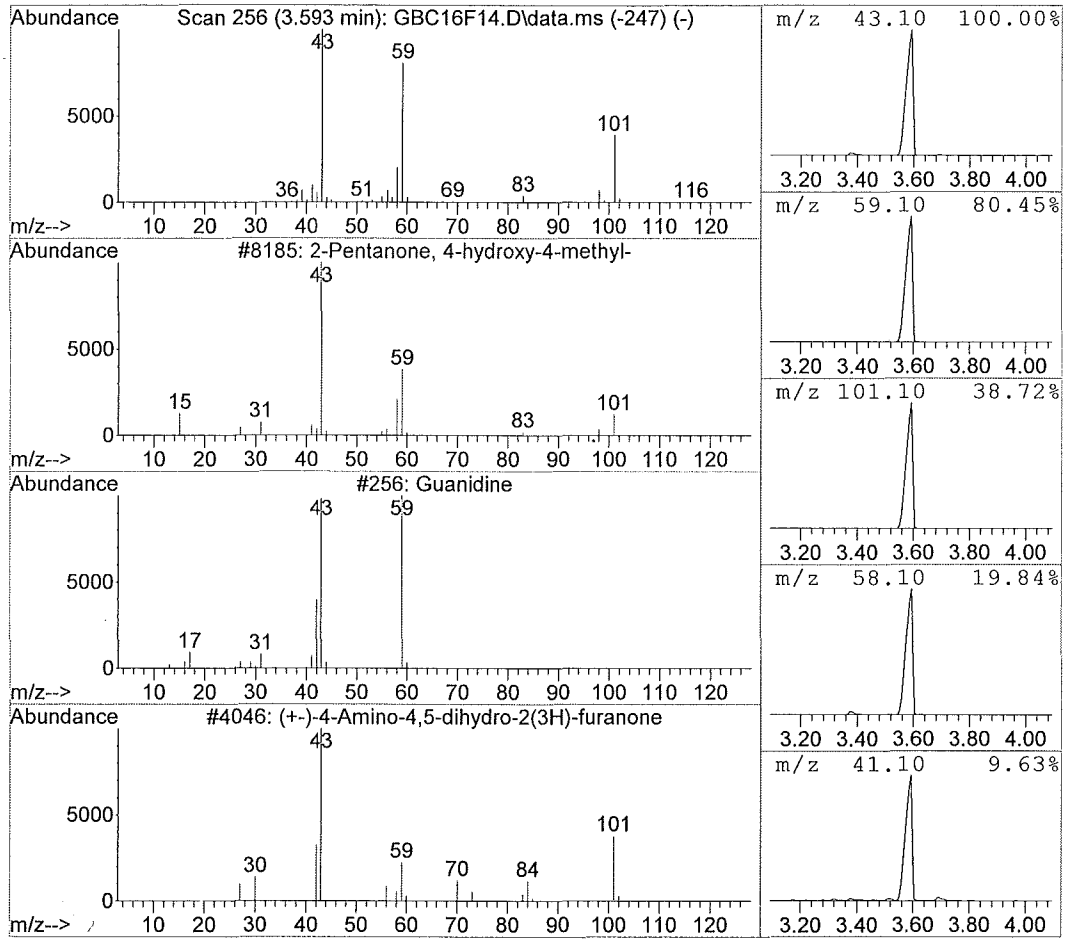


Data File : Z:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.59	209.99 ug/ml	18350093	1,4-Dichlorobenzene-d4	1747689

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	Guanidine	256	000113-00-8	43.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	35.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	Propanamide, N-ethyl-	4082	005129-72-6	10.00

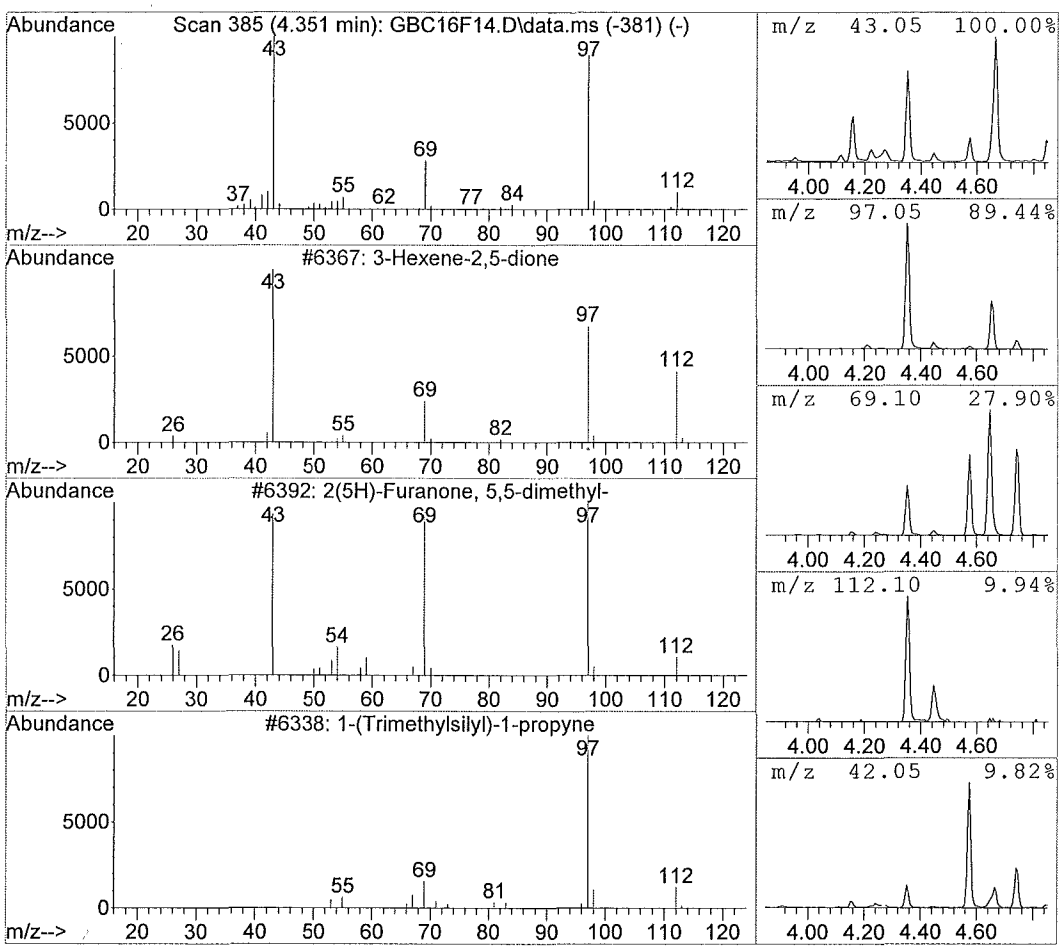


Data File : Z:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	3.38 ug/ml	295460	1,4-Dichlorobenzene-d4	1747689

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	72.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
3	1-(Trimethylsilyl)-1-propyne	6338	006224-91-5	36.00
4	1,2-Ethanediol, 1,2-di-2-furanyl-	55743	004464-77-1	33.00
5	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	10.00

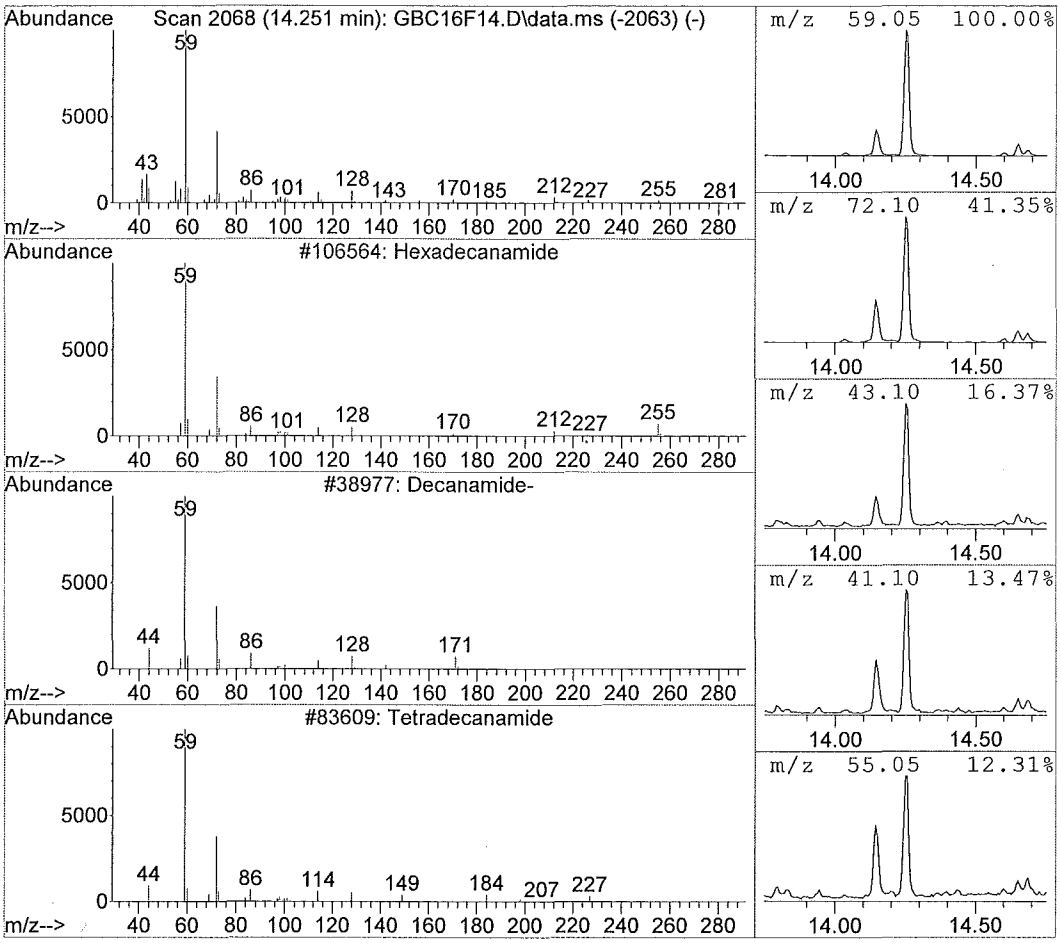


Data File : Z:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.25	2.82 ug/ml	424866	Chrysene-d12	3012939

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	97.00
2	Decanamide-	38977	002319-29-1	91.00
3	Tetradecanamide	83609	000638-58-4	90.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00
5	Dodecanamide	60439	001120-16-7	64.00



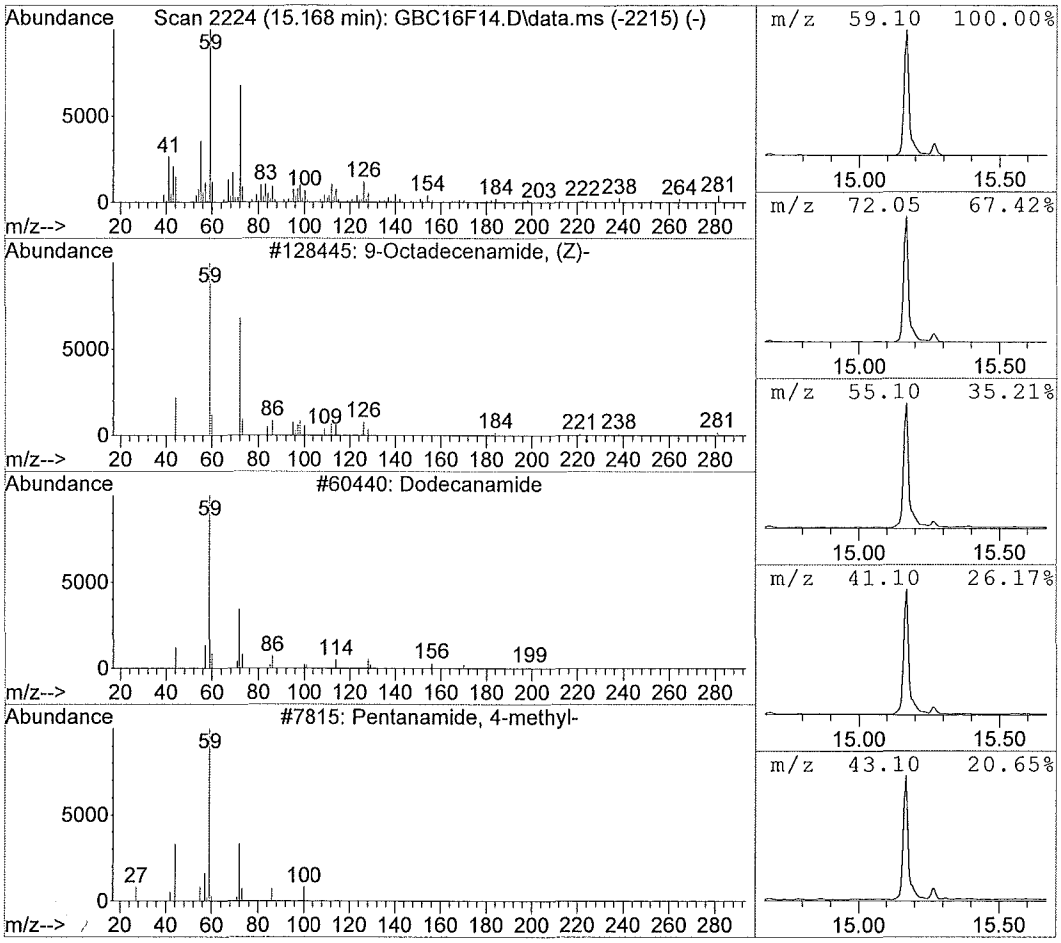
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	20.04 ug/ml	3019694	Chrysene-d12	3012939

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Dodecanamide	60440	001120-16-7	50.00
3	Pentanamide, 4-methyl-	7815	001119-29-5	47.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	45.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	42.00



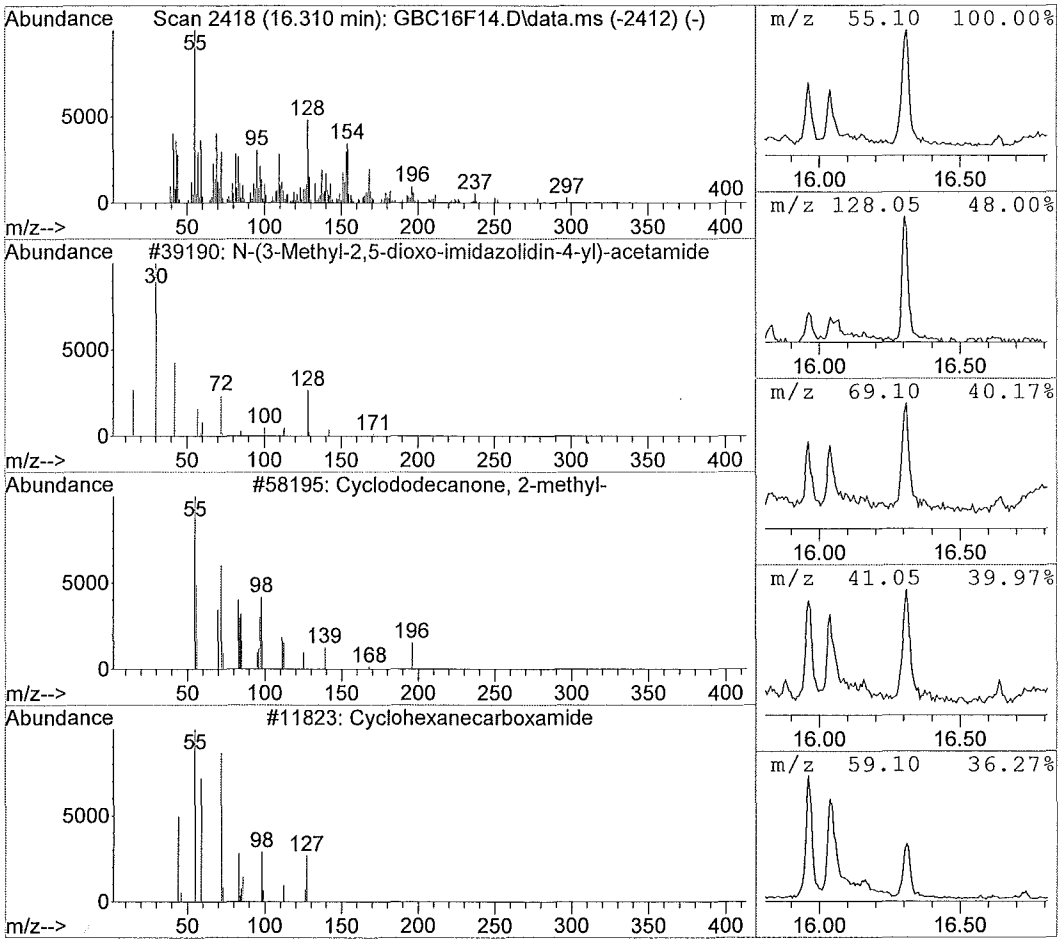
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	2.02 ug/ml	303878	Chrysene-d12	3012939

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	14.00
2	Cyclododecanone, 2-methyl-	58195	016837-94-8	11.00
3	Cyclohexanecarboxamide	11823	001122-56-1	11.00
4	Chloromethyl 9-chlorodecanoate	105071	080418-86-6	10.00
5	5-Allyldihydro-1,3,5-dioxazine	12864	016574-19-9	10.00

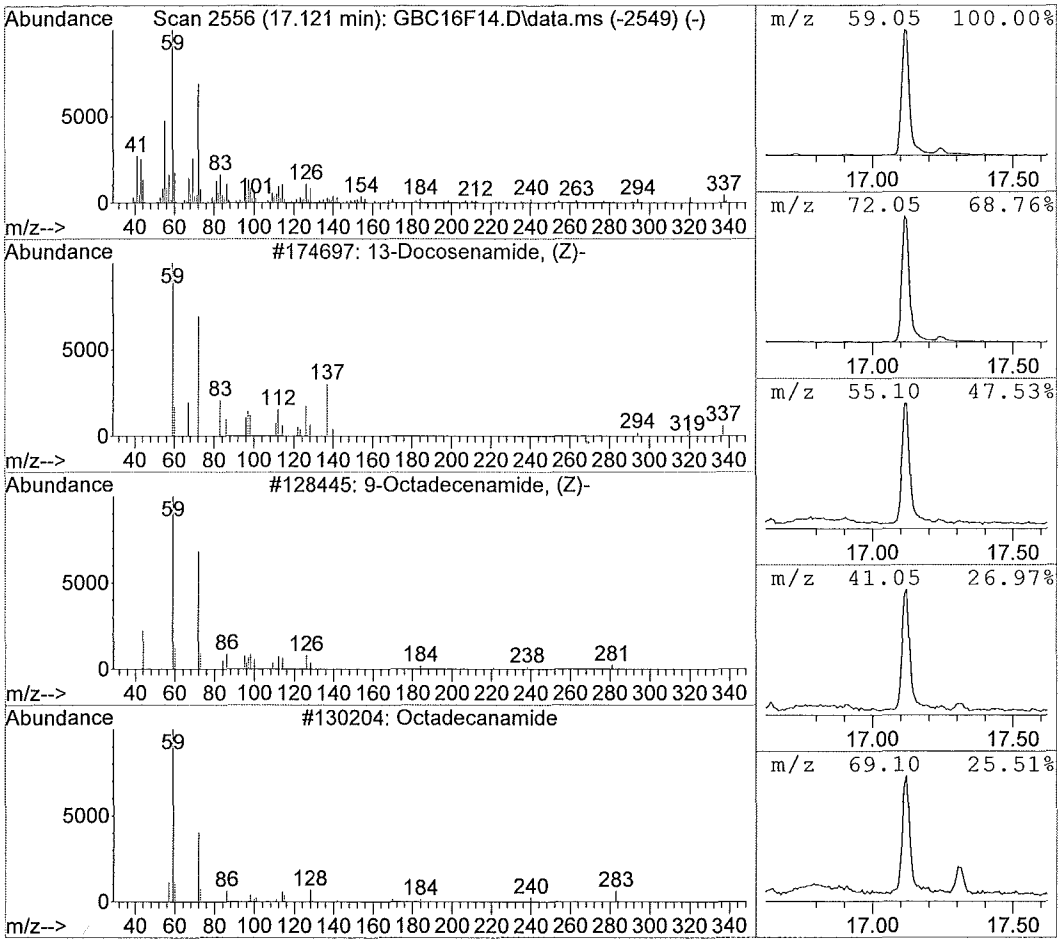


Data File : Z:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.12	5.27 ug/ml	823739	Perylene-d12	3128616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174697	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	90.00
3	Octadecanamide	130204	000124-26-5	59.00
4	Dodecanamide	60440	001120-16-7	43.00
5	2-Methyl-2-decanol	39795	003396-02-9	35.00

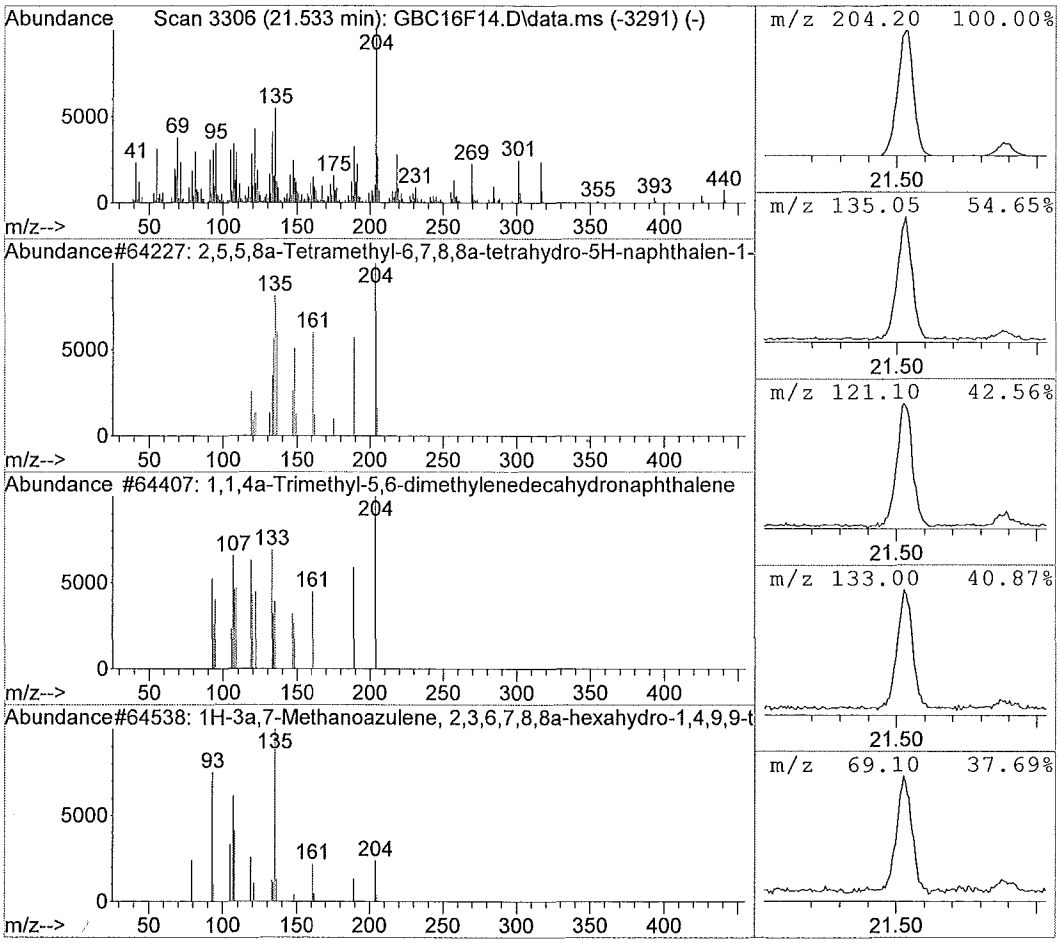


Data File : Z:\G\2015\JUN15\02JUN15\GBC16F14.D Vial: 15
Acq On : 06/02/2015 21:34 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.53	8.69 ug/ml	1359214	Perylene-d12	3128616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	45.00
2	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	45.00
3	1H-3a,7-Methanoazulene, 2,3,6,7,8,8	64538	000560-32-7	41.00
4	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	38.00
5	3H-3a,7-Methanoazulene, 2,4,5,6,7,8	64520	002387-78-2	25.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L70

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293015

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC17F15

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	1900	U
108-95-2	Phenol	1900	U
111-44-4	Bis(2-chloroethyl)ether	1900	U
95-57-8	2-Chlorophenol	1900	U
95-48-7	2-Methylphenol	1900	U
108-60-1	2,2'-Oxybis(1-chloropropane)	1900	U
98-86-2	Acetophenone	1900	U
106-44-5	4-Methylphenol	1900	U
621-64-7	N-Nitroso-di-n-propylamine	1900	U
67-72-1	Hexachloroethane	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	1900	U
111-91-1	Bis(2-chloroethoxy)methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
91-20-3	Naphthalene	1900	U
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	1900	U
105-60-2	Caprolactam	1900	U
59-50-7	4-Chloro-3-methylphenol	1900	U
91-57-6	2-Methylnaphthalene	1900	U
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	1900	U
92-52-4	1,1'-Biphenyl	1900	U
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	3700	U
131-11-3	Dimethylphthalate	1900	U
606-20-2	2,6-Dinitrotoluene	1900	U
208-96-8	Acenaphthylene	1900	U
99-09-2	3-Nitroaniline	3700	U
83-32-9	Acenaphthene	1900	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L70

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293015

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC17F15

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	3700	U
100-02-7	4-Nitrophenol	3700	U
132-64-9	Dibenzofuran	1900	U
121-14-2	2,4-Dinitrotoluene	1900	U
84-66-2	Diethylphthalate	1900	U
86-73-7	Fluorene	1900	U
7005-72-3	4-Chlorophenyl-phenylether	1900	U
100-01-6	4-Nitroaniline	3700	U
534-52-1	4,6-Dinitro-2-methylphenol	3700	U
86-30-6	N-Nitrosodiphenylamine[1]	1900	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1900	U
101-55-3	4-Bromophenyl-phenylether	1900	U
118-74-1	Hexachlorobenzene	1900	U
1912-24-9	Atrazine	1900	U
87-86-5	Pentachlorophenol	3700	U
85-01-8	Phenanthrene	1900	U
120-12-7	Anthracene	1900	U
86-74-8	Carbazole	1900	U
84-74-2	Di-n-butylphthalate	1900	U
206-44-0	Fluoranthene	1900	U
129-00-0	Pyrene	1900	U
85-68-7	Butylbenzylphthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	1900	U
218-01-9	Chrysene	1900	U
117-81-7	Bis(2-ethylhexyl)phthalate	1900	U
117-84-0	Di-n-octylphthalate	1900	U
205-99-2	Benzo(b)fluoranthene	1900	U
207-08-9	Benzo(k)fluoranthene	1900	U
50-32-8	Benzo(a)pyrene	1900	U
193-39-5	Indeno(1,2,3-cd)pyrene	1900	U
53-70-3	Dibenzo(a,h)anthracene	1900	U
191-24-2	Benzo(g,h,i)perylene	1900	U
58-90-2	2,3,4,6-Tetrachlorophenol	1900	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L70

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293015
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC17F15
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015
GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 10.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.56	4600	J
02	301-02-0	9-Octadecenamide, (Z)-	15.16	960	JNB
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

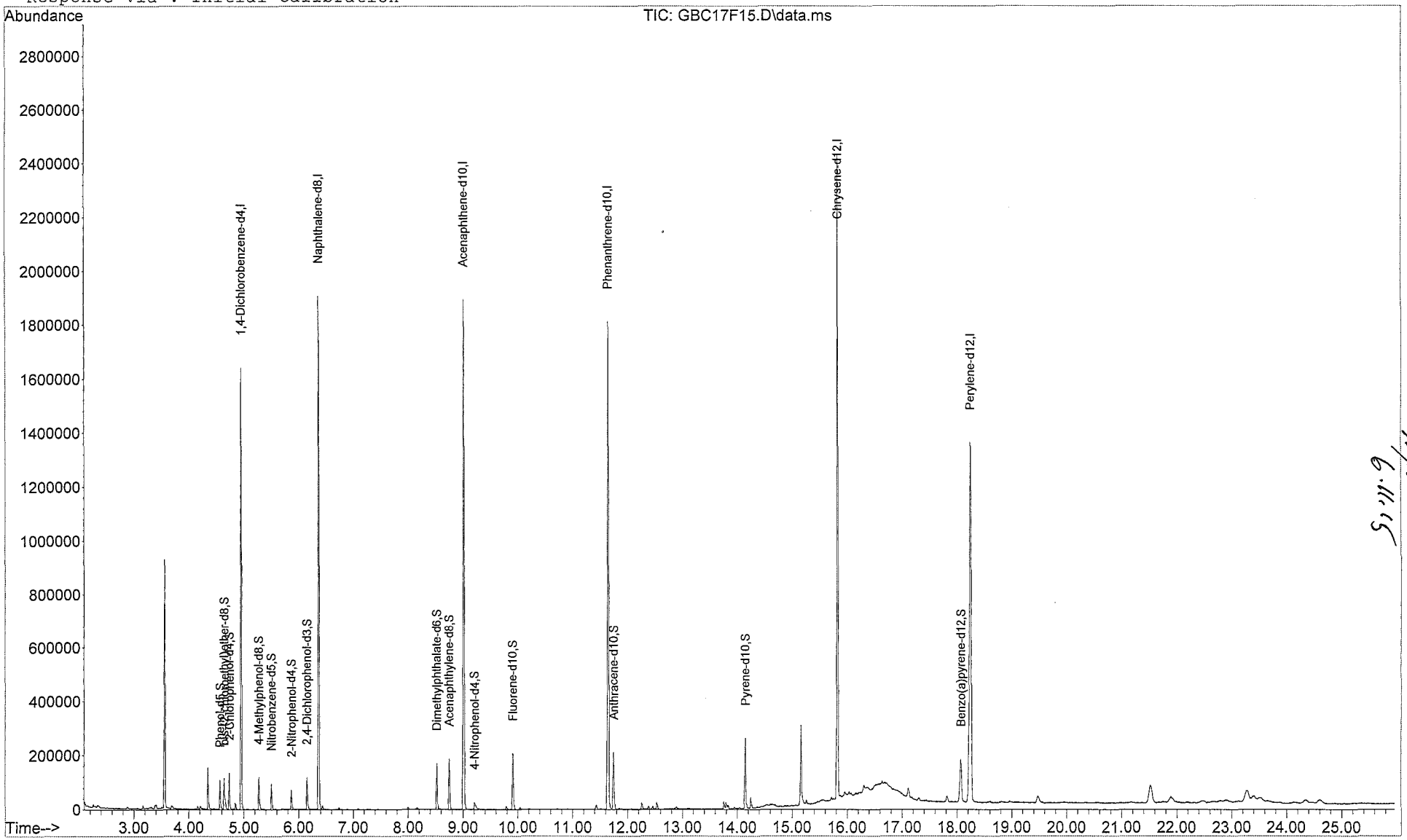
Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC17F15.D
Acq On : 06/02/2015 22:06
Sample : 1514293015 F9L70 (10)
Misc : . SOIL SOM
MS Integration Params: rteint.p

Vial: 16
Operator: DJC
Inst : 5975-G
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 02 22:32:23 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC17F15.D Vial: 16
Acq On : 06/02/2015 22:06 Operator: DJC
Sample : 1514293015 F9L70 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 02 22:32:23 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	308535	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1140553	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	650027	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1070981	20.00 ug/ml
73) Chrysene-d12	15.83	240	1048742	20.00 ug/ml
81) Perylene-d12	18.24	264	1033052	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	44385	2.063ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	21671	1.645ug/mL
7) 2-Chlorophenol-d4	4.74	132	43508	2.060ug/ml
13) 4-Methylphenol-d8	5.28	113	34201	2.042ug/mL
17) Nitrobenzene-d5	5.51	128	19656	2.054ug/ml
21) 2-Nitrophenol-d4	5.87	143	20577	1.930ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	33644	2.154ug/mL
28) 4-Chloroaniline-d4	6.43	131	6429	0.379ug/mL
42) Dimethylphthalate-d6	8.53	166	103773	2.625ug/mL
45) Acenaphthylene-d8	8.75	160	125677	2.382ug/mL
50) 4-Nitrophenol-d4	9.22	143	14201	1.687ug/mL
57) Fluorene-d10	9.92	176	86863	2.530ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	2703	0.384ug/mL
69) Anthracene-d10	11.75	188	140535	2.594ug/mL
75) Pyrene-d10	14.15	212	120503	2.527ug/mL
86) Benzo(a)pyrene-d12	18.07	264	115674	2.469ug/mL

Target Compounds			Qvalue
3) Benzaldehyde	0.00	77	Not Detected
4) Phenol	0.00	94	Not Detected
5) Bis(2-chloroethyl)ether	0.00	93	Not Detected
8) 2-Chlorophenol	0.00	128	Not Detected
9) 2-Methylphenol	0.00	108	Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45	Not Detected
11) Acetophenone	0.00	105	Not Detected
12) 4-methylphenol	0.00	108	Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70	Not Detected
15) Hexachloroethane	0.00	117	Not Detected
18) Nitrobenzene	0.00	77	Not Detected
19) Isophorone	0.00	82	Not Detected
20) 2-Nitrophenol	0.00	139	Not Detected
22) 2,4-Dimethylphenol	0.00	107	Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93	Not Detected
24) 2,4-Dichlorophenol	0.00	162	Not Detected
26) Naphthalene	0.00	128	Not Detected
27) 4-Chloroaniline	0.00	127	Not Detected
29) Hexachlorobutadiene	0.00	225	Not Detected
30) Caprolactam	0.00	113	Not Detected
31) 4-Chloro-3-methylphenol	0.00	107	Not Detected
32) 2-Methylnaphthalene	0.00	142	Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216	Not Detected
35) Hexachlorocyclopentadiene	0.00	237	Not Detected
36) 2,4,6-Trichlorophenol	0.00	196	Not Detected
37) 2,4,5-Trichlorophenol	0.00	196	Not Detected
38) 1,1'-Biphenyl	0.00	154	Not Detected
39) 2-Chloronaphthalene	0.00	162	Not Detected
40) 2-Nitroaniline	0.00	65	Not Detected
41) Dimethylphthalate	0.00	163	Not Detected
43) 2,6-Dinitrotoluene	0.00	165	Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC17F15.D Vial: 16
Acq On : 06/02/2015 22:06 Operator: DJC
Sample : 1514293015 F9L70 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 02 22:32:23 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

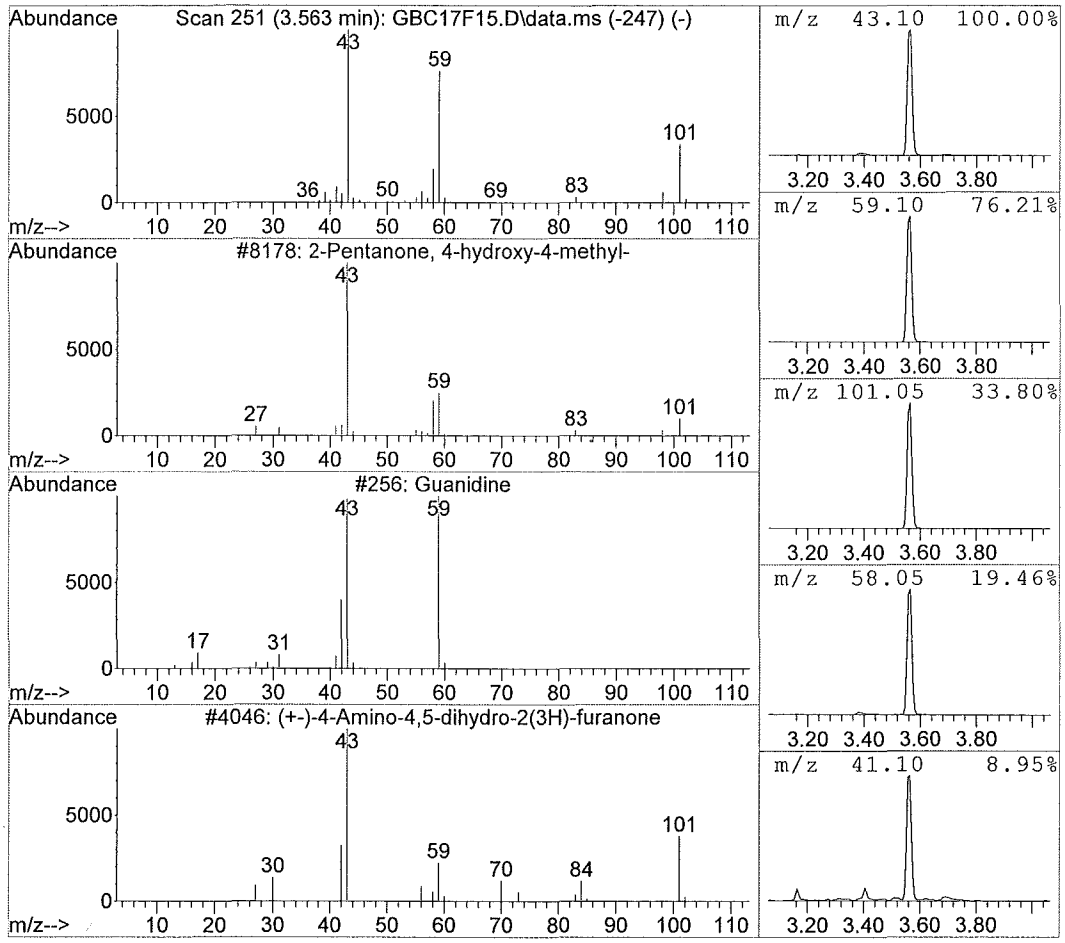
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC17F15.D Vial: 16
Acq On : 06/02/2015 22:06 Operator: DJC
Sample : 1514293015 F9L70 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.56	12.40 ug/ml	1065510	1,4-Dichlorobenzene-d4	1718895

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	64.00
2	Guanidine	256	000113-00-8	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Morpholine, 4-methyl-	4083	000109-02-4	9.00

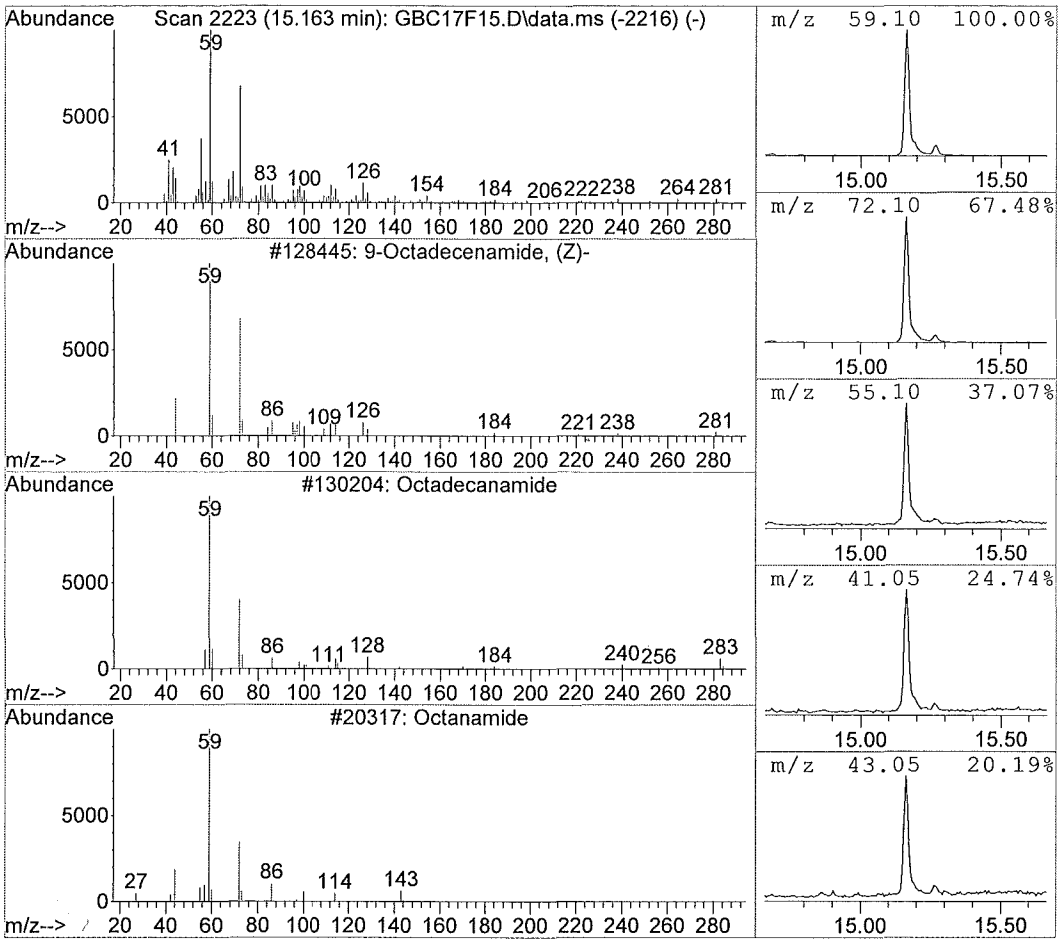


Data File : Z:\G\2015\JUN15\02JUN15\GBC17F15.D Vial: 16
Acq On : 06/02/2015 22:06 Operator: DJC
Sample : 1514293015 F9L70 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.16	2.58 ug/ml	382301	Chrysene-d12	2959844

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Octadecanamide	130204	000124-26-5	58.00
3	Octanamide	20317	000629-01-6	53.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	50.00
5	2-Hydroxy-2-methylundec-5-en-3-one	59566	1000191-46-2	43.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293016

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC18F16

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293016

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC18F16

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L71

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293016
Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC18F16
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015
GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Pentane, 3-methoxy-	2.12	330	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.37	140	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.59	5900	J
04		Unknown 3-Hexene-2,5-dione	4.35	210	JB
05	629-54-9	Hexadecanamide	14.25	160	JNB
06	301-02-0	9-Octadecenamide, (Z)-	15.17	1300	JNB
07		Unknown 9-Octadecenamide, (Z)-	15.96	79.	JB
08		Unknown 2,6-Octadienoic acid, 3-methyl-, methyl	16.31	130	J
09	112-84-5	13-Docosenamide, (Z)-	17.12	210	JN
10		Unknown 1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-	21.53	930	J
11		Unknown .gama.-eudesmol	21.89	96.	J
12		Unknown 1,2,4-Oxadiazol-5(4H)-one, 4-(2-chloroph	22.20	79.	J
13		Unknown Lanosterol	24.14	96.	J
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	99.	J

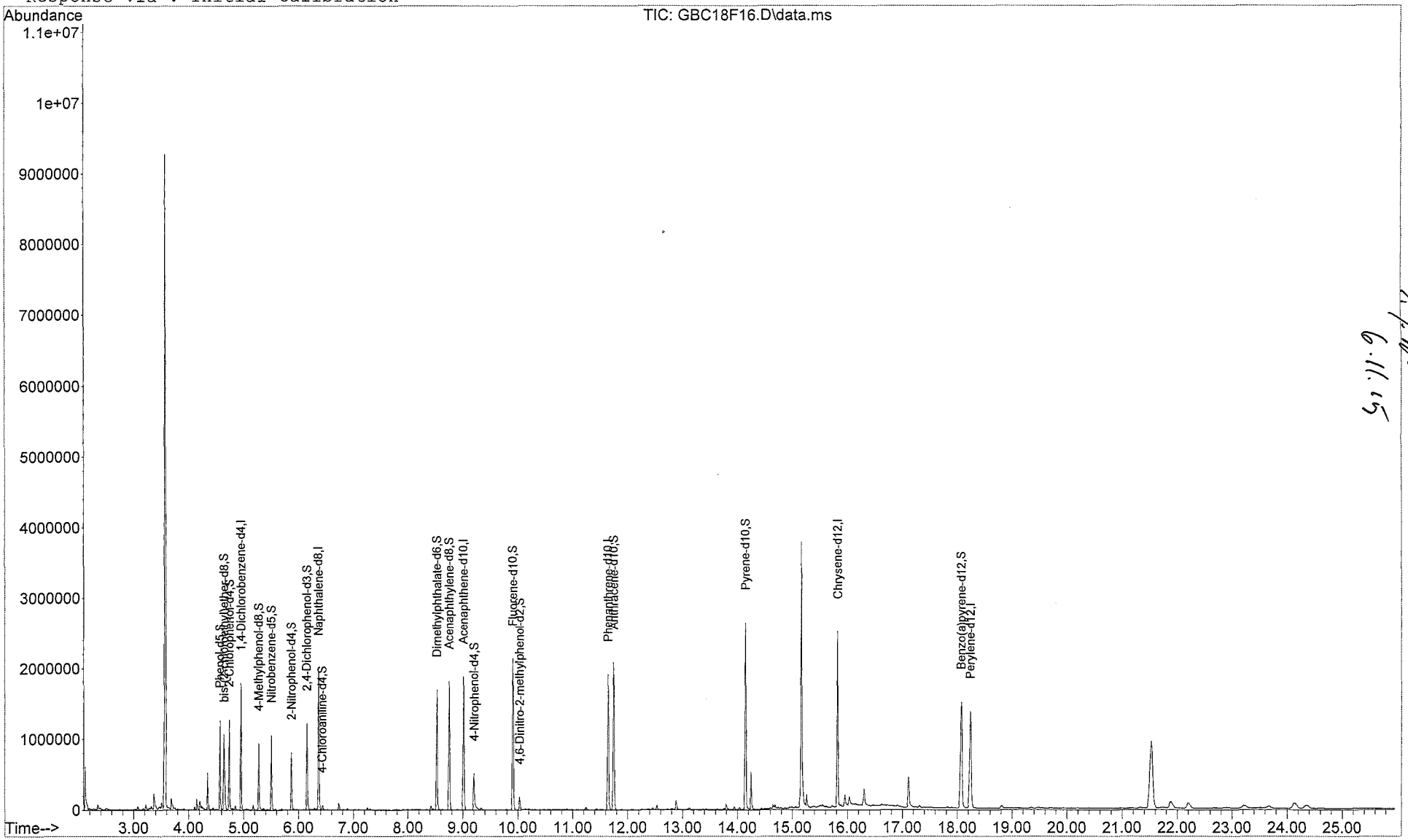
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 14:44:29 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:44:29 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	309722	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1164808	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	659903	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1100453	20.00 ug/ml
73) Chrysene-d12	15.83	240	1078723	20.00 ug/ml
81) Perylene-d12	18.24	264	1035981	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	459898	21.293ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	220737	16.691ug/mL
7) 2-Chlorophenol-d4	4.75	132	438312	20.670ug/ml
13) 4-Methylphenol-d8	5.28	113	233648	13.895ug/mL
17) Nitrobenzene-d5	5.51	128	193453	19.795ug/ml
21) 2-Nitrophenol-d4	5.87	143	210506	19.328ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	326869	20.487ug/mL
28) 4-Chloroaniline-d4	6.44	131	29743	1.719ug/mL
42) Dimethylphthalate-d6	8.53	166	1032908	25.737ug/mL
45) Acenaphthylene-d8	8.76	160	1193435	22.282ug/mL
50) 4-Nitrophenol-d4	9.21	143	179541	21.008ug/mL
57) Fluorene-d10	9.92	176	856187	24.562ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	46032	6.368ug/mL
69) Anthracene-d10	11.75	188	1334114	23.966ug/mL
75) Pyrene-d10	14.15	212	1217314	24.822ug/mL
86) Benzo(a)pyrene-d12	18.08	264	1130228	24.052ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00538

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:44:29 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

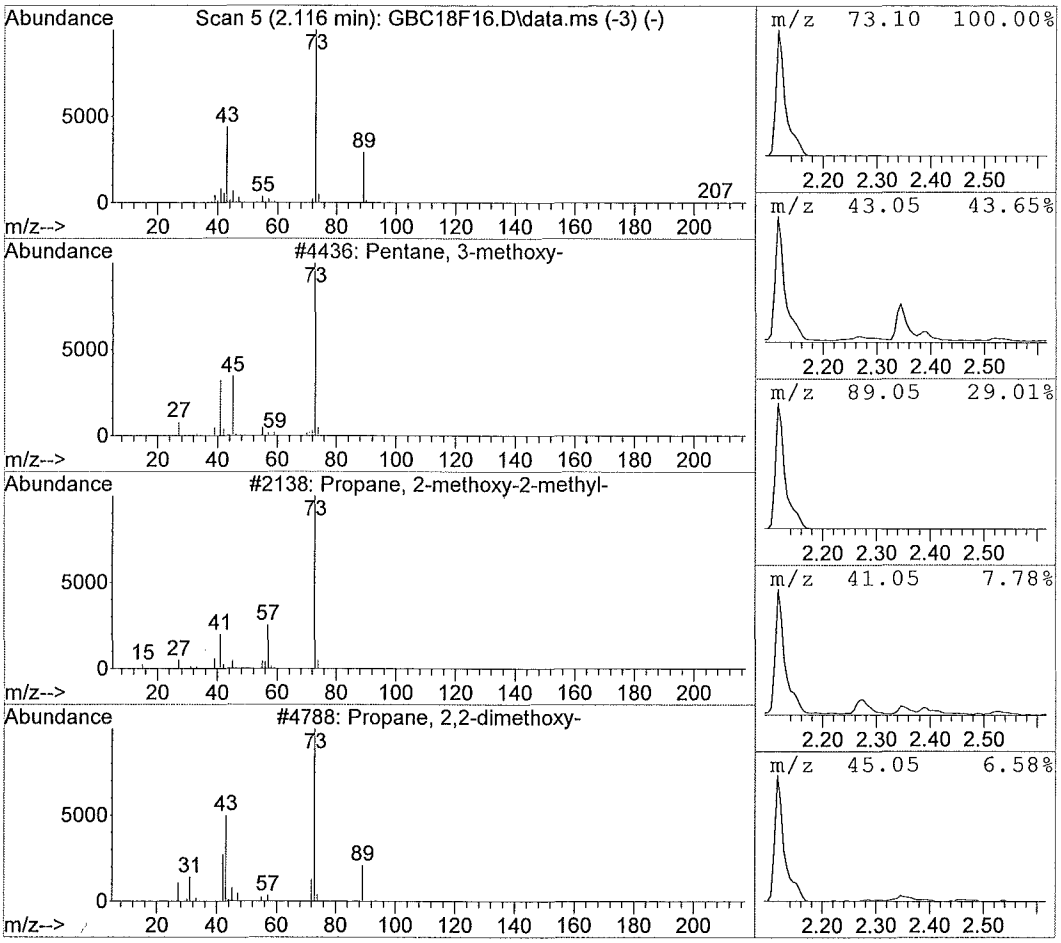
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	8.50 ug/ml	738997	1,4-Dichlorobenzene-d4	1738545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 3-methoxy-	4436	036839-67-5	25.00
2	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
3	Propane, 2,2-dimethoxy-	4788	000077-76-9	9.00
4	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00
5	Methane, isothiocyanato-	716	000556-61-6	7.00

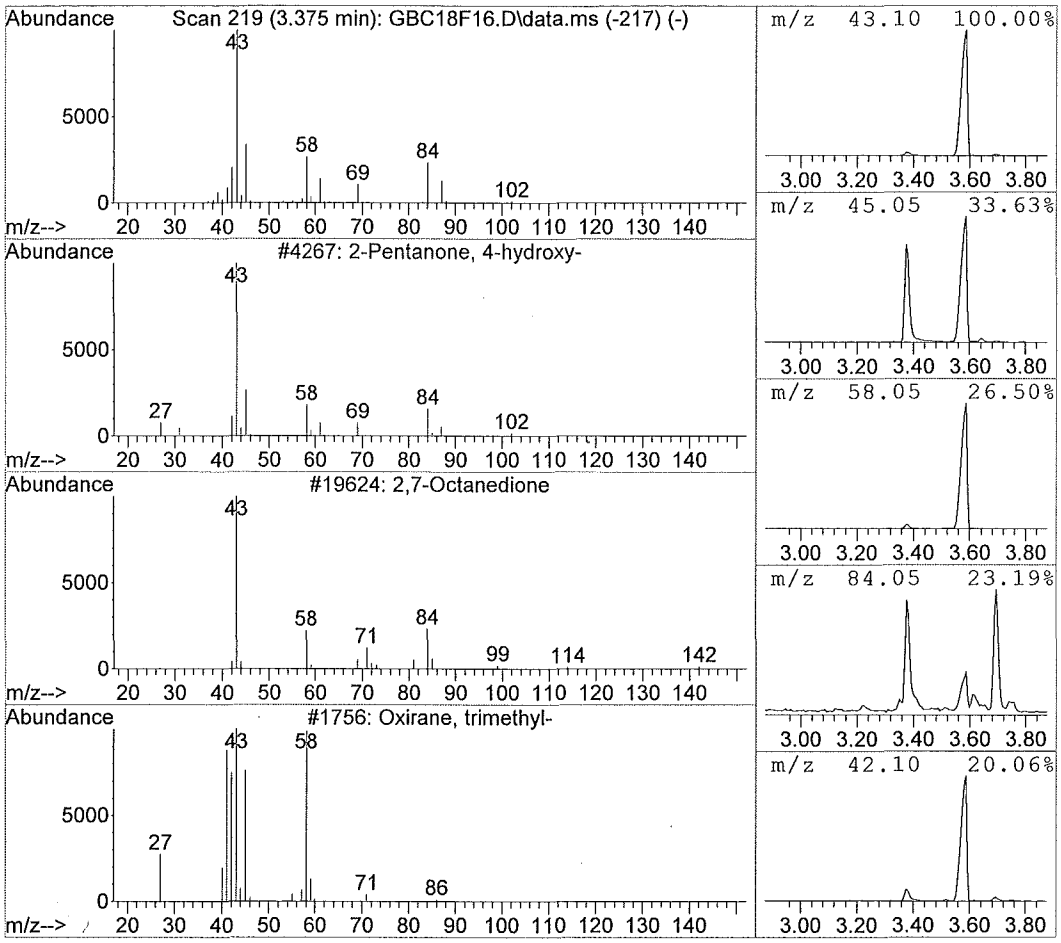


Data File : Z:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.37	3.68 ug/ml	320042	1,4-Dichlorobenzene-d4	1738545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	45.00
2	2,7-Octanedione	19624	001626-09-1	25.00
3	Oxirane, trimethyl-	1756	005076-19-7	23.00
4	Acetone	217	000067-64-1	9.00
5	2-Butanone, 4-hydroxy-3-methyl-	4328	003393-64-4	9.00



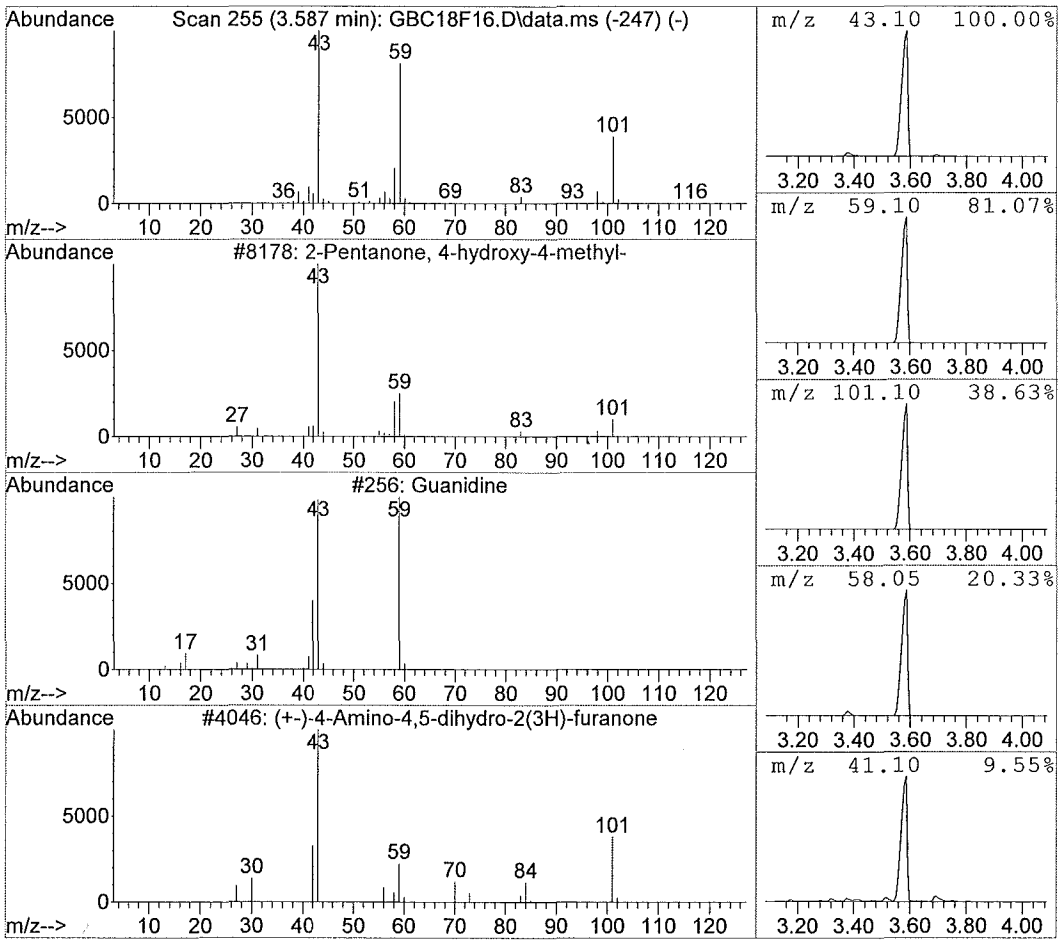
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.59	151.93 ug/ml	13207231	1,4-Dichlorobenzene-d4	1738545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	50.00
2	Guanidine	256	000113-00-8	43.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	35.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	Propanamide, N-ethyl-	4082	005129-72-6	10.00



Library Search Compound Report

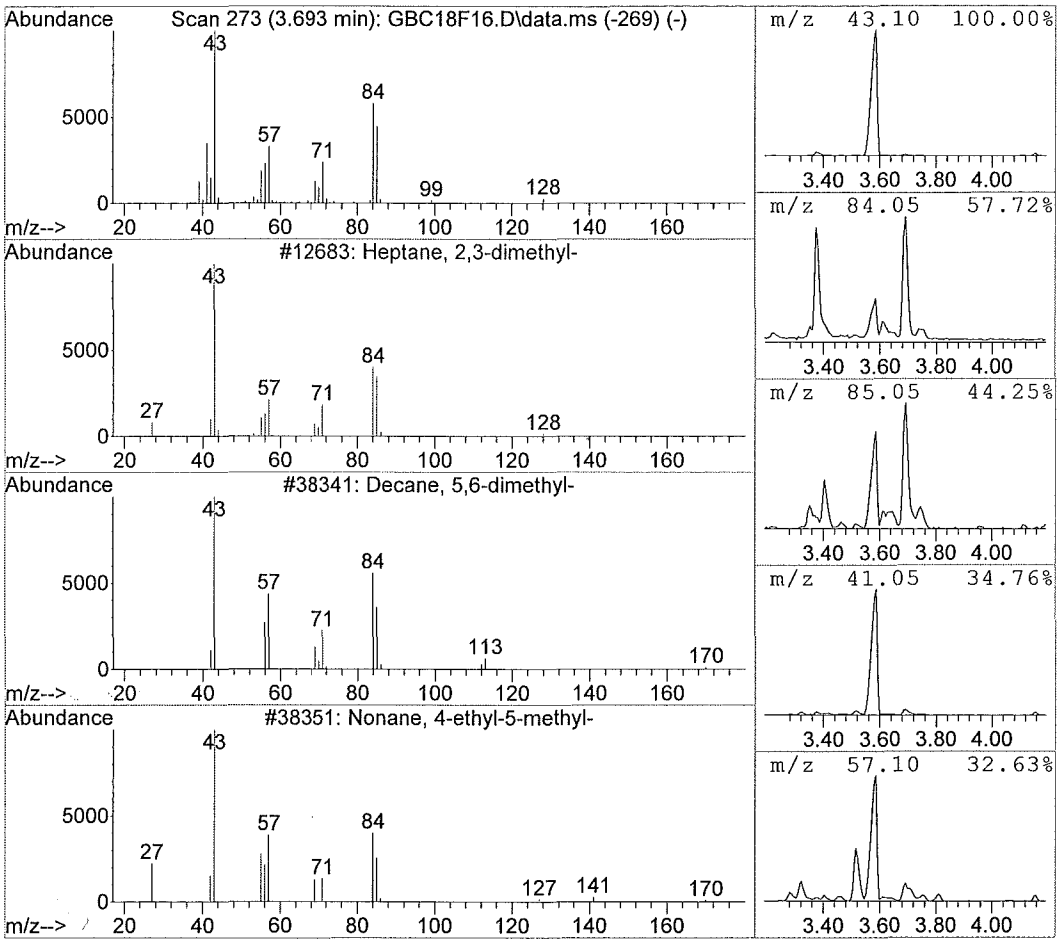
Data File : Z:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	2.53 ug/ml	220105	1,4-Dichlorobenzene-d4	1738545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	83.00
2	Decane, 5,6-dimethyl-	38341	001636-43-7	72.00
3	Nonane, 4-ethyl-5-methyl-	38351	001632-71-9	64.00
4	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	53.00
5	Octane, 3,4-dimethyl-	19179	015869-92-8	53.00

BA.



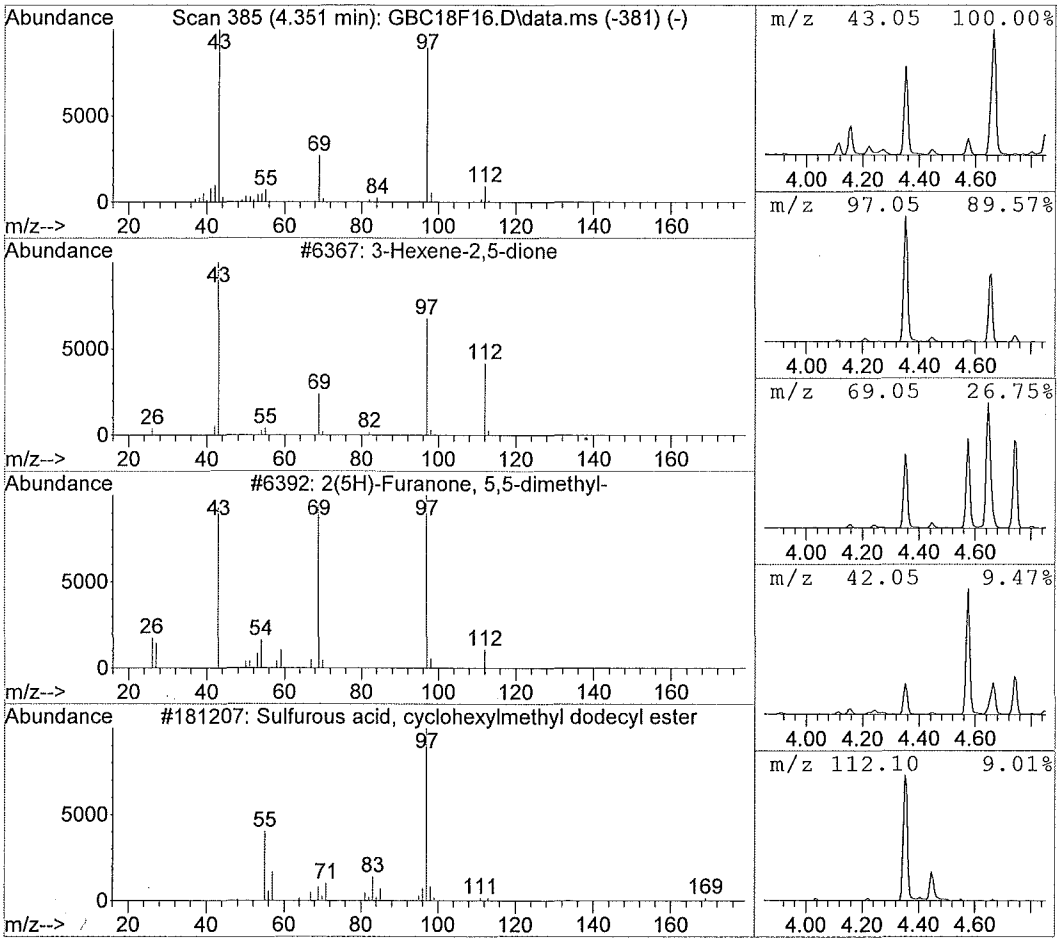
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	5.46 ug/ml	474708	1,4-Dichlorobenzene-d4	1738545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	78.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	42.00
3	Sulfurous acid, cyclohexylmethyl do	181207	1000309-22-0	33.00
4	Sulfurous acid, butyl cyclohexylmet	88702	1000309-21-4	33.00
5	5-Hexen-2-one	3152	000109-49-9	10.00



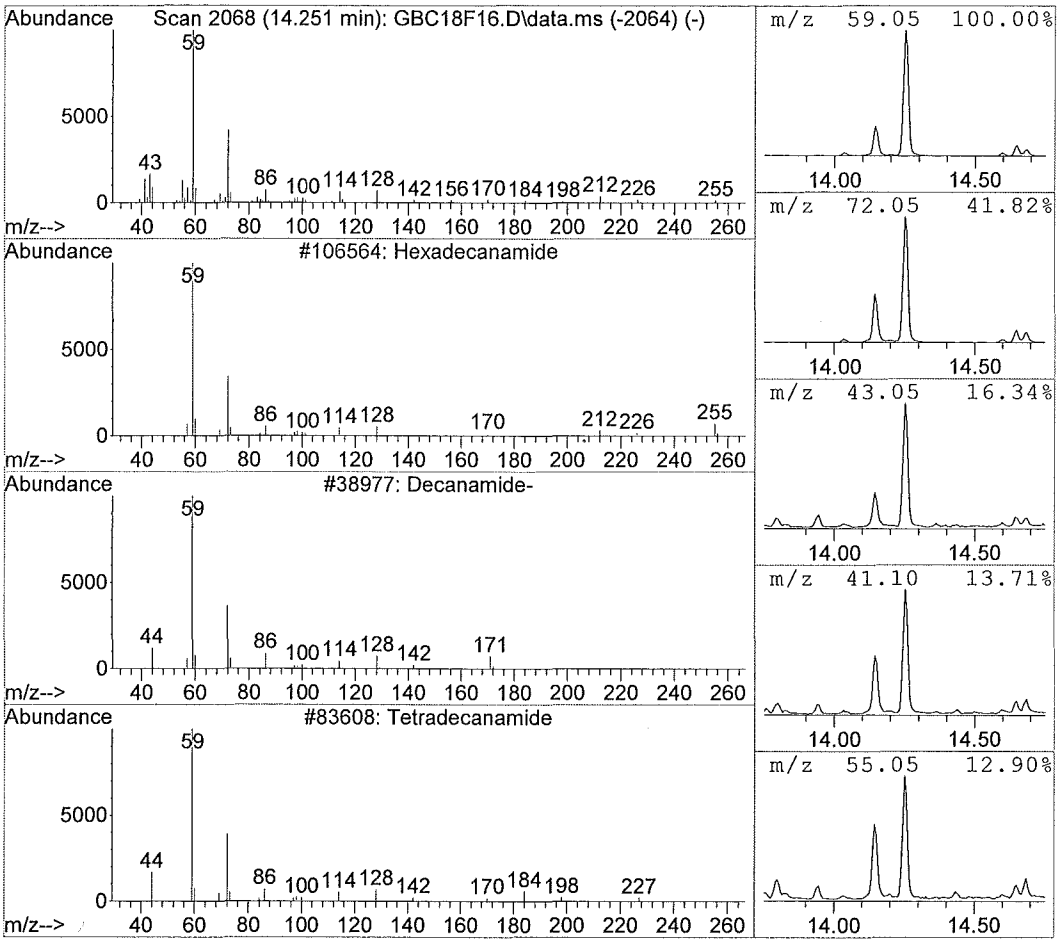
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.25	4.11 ug/ml	623559	Chrysene-d12	3032473

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	96.00
2	Decanamide-	38977	002319-29-1	87.00
3	Tetradecanamide	83608	000638-58-4	86.00
4	Dodecanamide	60439	001120-16-7	59.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00

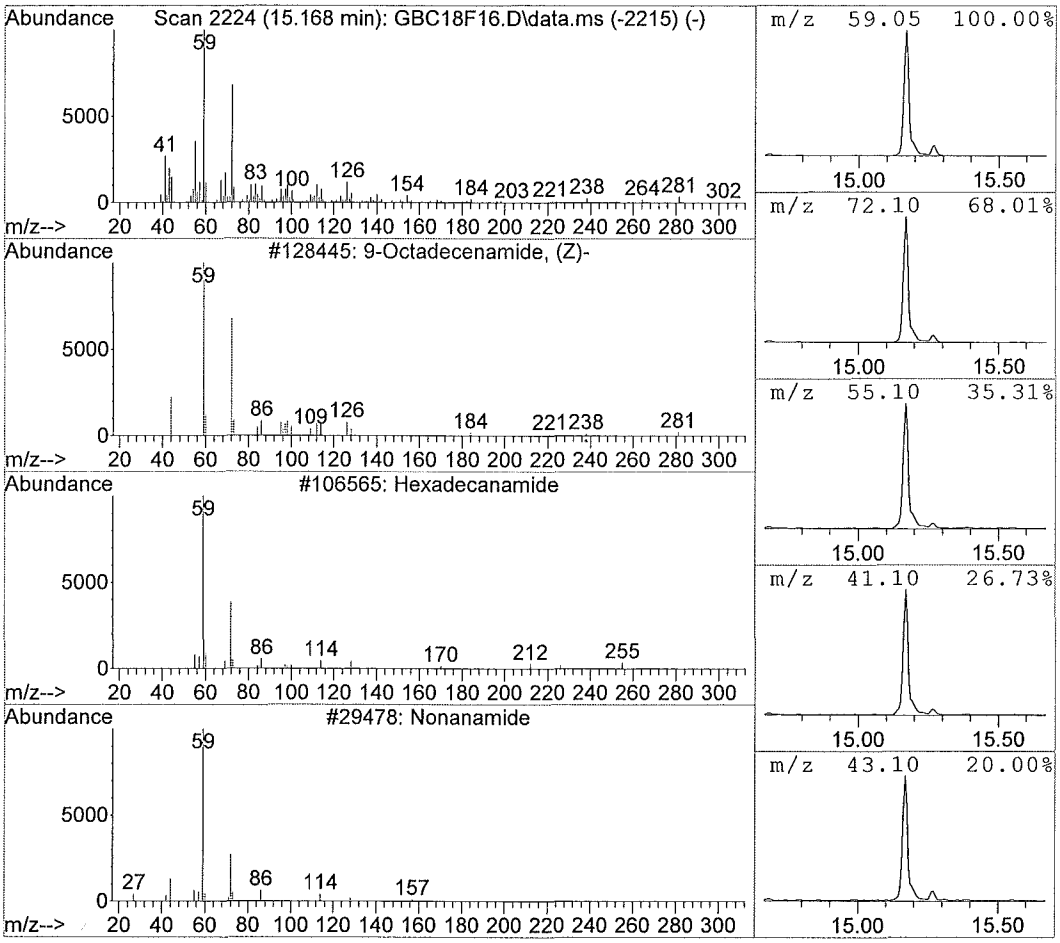


Data File : Z:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	32.81 ug/ml	4975445	Chrysene-d12	3032473

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Hexadecanamide	106565	000629-54-9	53.00
3	Nonanamide	29478	001120-07-6	50.00
4	Decanamide-	38977	002319-29-1	50.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	47.00



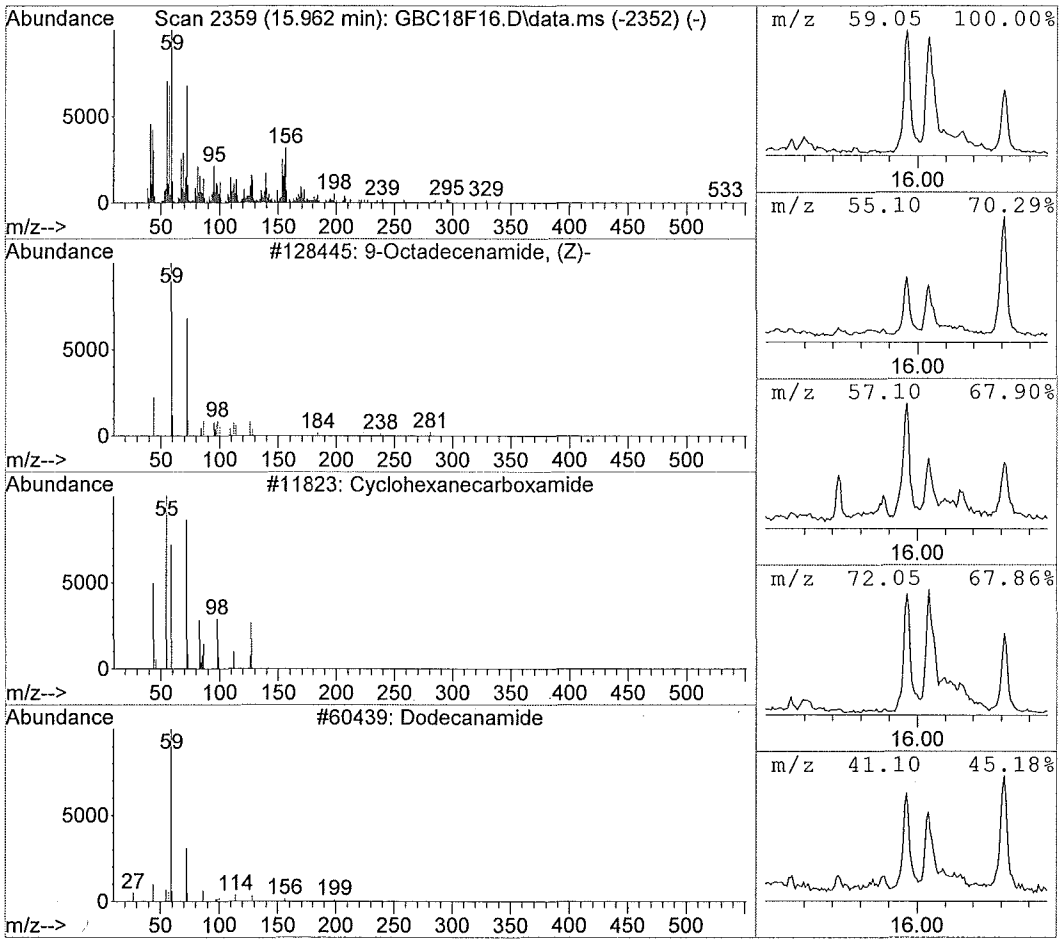
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.96	2.01 ug/ml	305311	Chrysene-d12	3032473

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	53.00
2	Cyclohexanecarboxamide	11823	001122-56-1	38.00
3	Dodecanamide	60439	001120-16-7	38.00
4	Nonanamide	29478	001120-07-6	38.00
5	3-Cyclohexylpropionamide	28138	004361-29-9	38.00



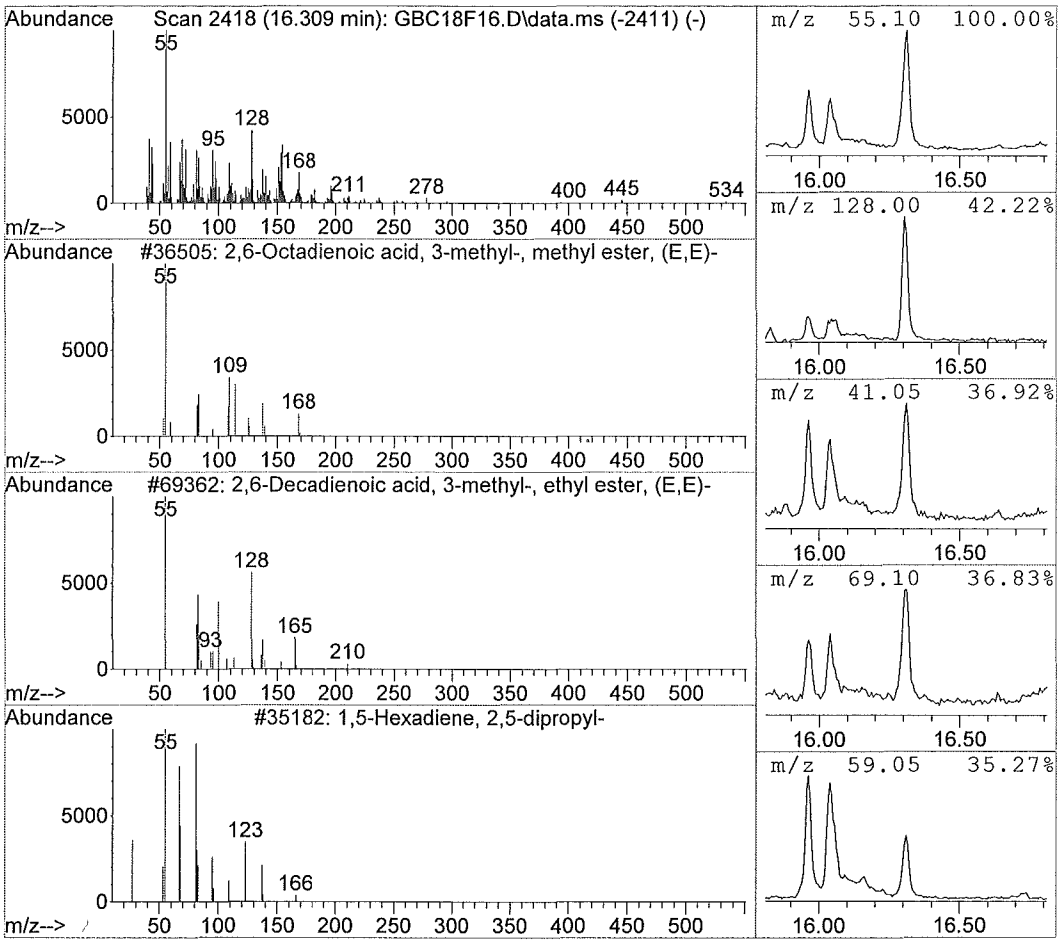
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	3.26 ug/ml	493759	Chrysene-d12	3032473

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,6-Octadienoic acid, 3-methyl-, me	36505	055283-13-1	11.00
2	2,6-Decadienoic acid, 3-methyl-, et	69362	055283-33-5	11.00
3	1,5-Hexadiene, 2,5-dipropyl-	35182	1000158-33-4	11.00
4	3-Chloropropionic acid, octadecyl e	190676	088168-99-4	10.00
5	Chloromethyl 7-chlorodecanoate	105069	080418-84-4	10.00

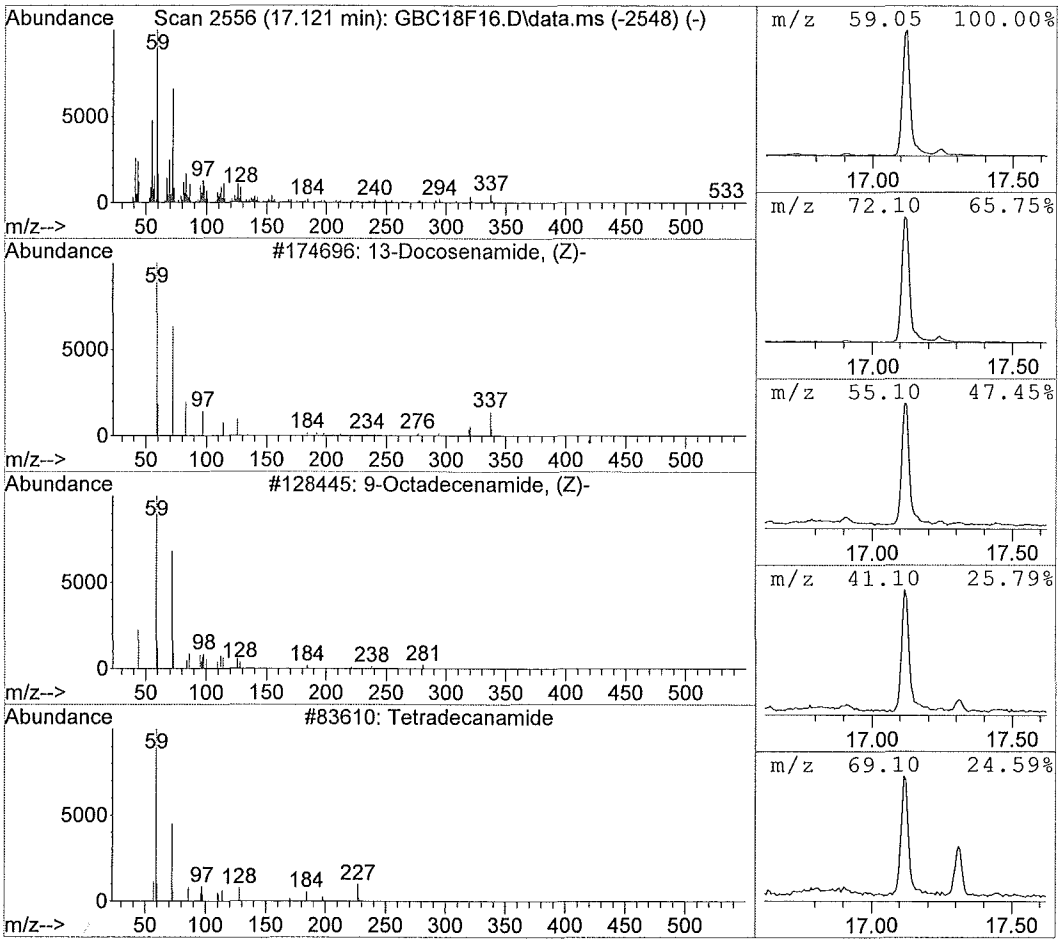


Data File : Z:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.12	5.39 ug/ml	822403	Perylene-d12	3050549

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	91.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
3	Tetradecanamide	83610	000638-58-4	72.00
4	Octadecanamide	130204	000124-26-5	64.00
5	Hexadecanamide	106564	000629-54-9	50.00

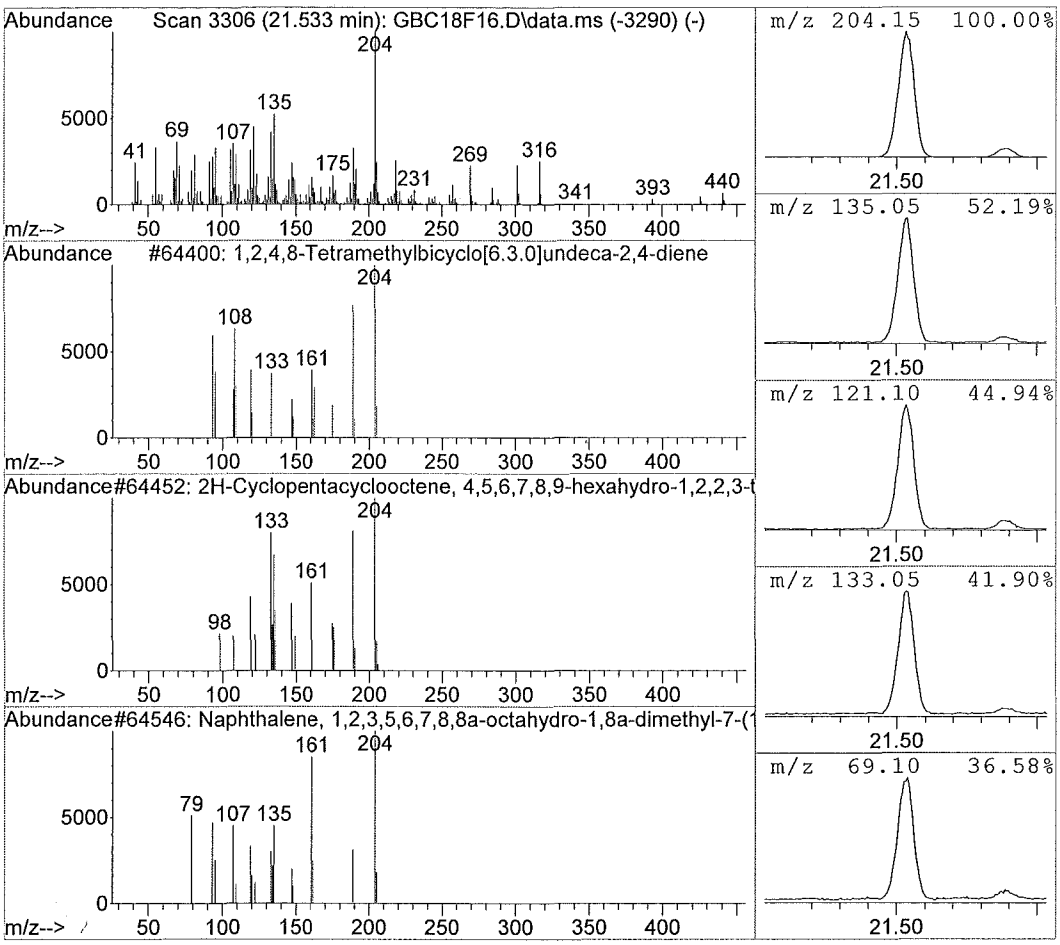


Data File : Z:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.53	23.94 ug/ml	3651999	Perylene-d12	3050549

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	53.00
2	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	50.00
3	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	47.00
4	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	45.00
5	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00



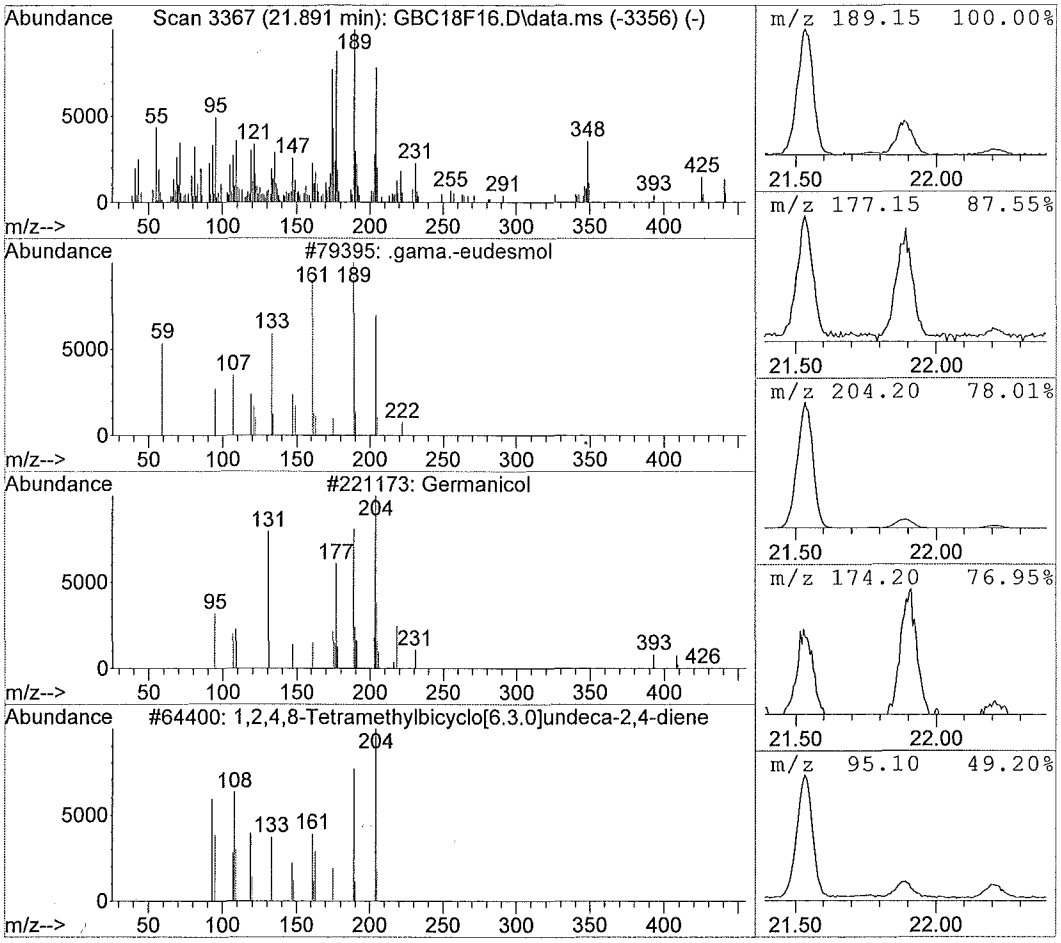
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.89	2.46 ug/ml	375037	Perylene-d12	3050549

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.gama.-eudesmol	79395	1000374-18-5	42.00
2	Germanicol	221173	000465-02-1	41.00
3	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	35.00
4	.delta.-Selinene	64314	028624-23-9	35.00
5	Hop-22(29)-en-3.beta.-ol	221200	058801-23-3	25.00

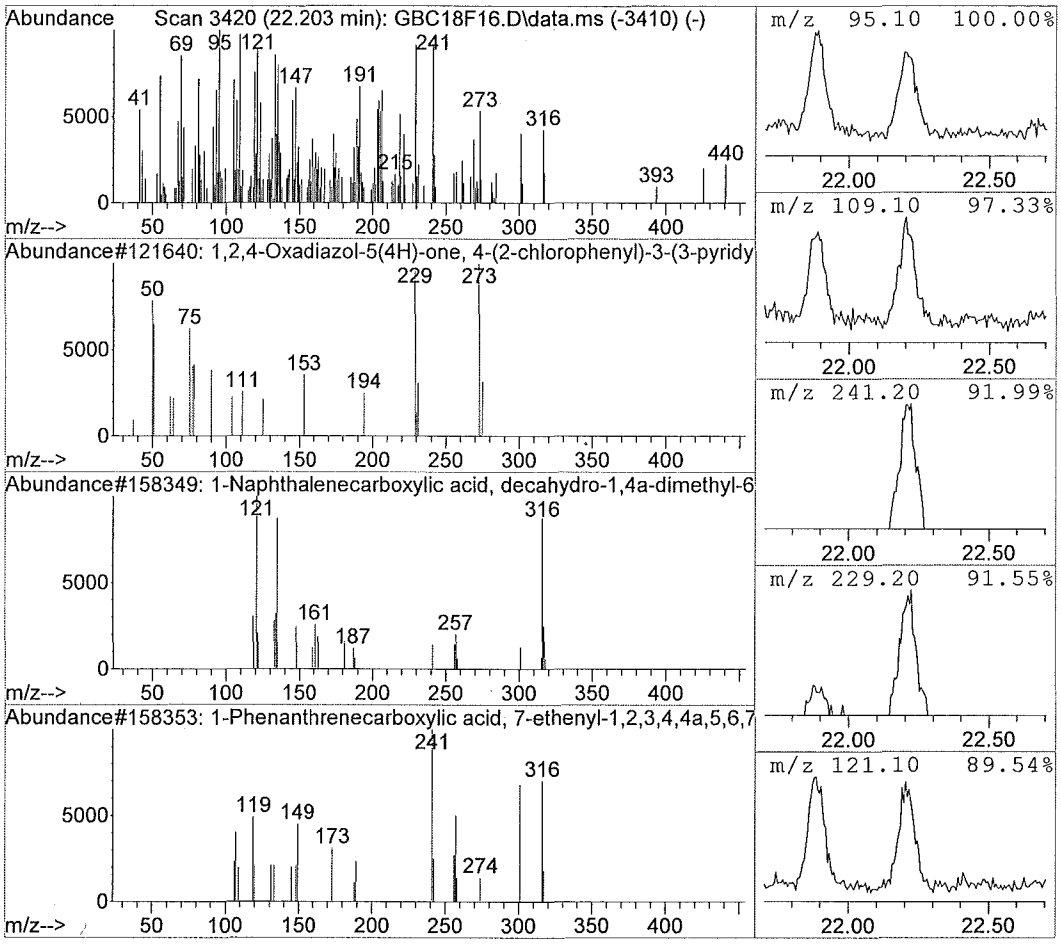


Data File : Z:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.20	2.02 ug/ml	307772	Perylene-d12	3050549

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,4-Oxadiazol-5(4H)-one, 4-(2-chl	121640	288246-55-9	56.00
2	1-Naphthalenecarboxylic acid, decah	158349	001235-39-8	43.00
3	1-Phenanthrenecarboxylic acid, 7-et	158353	003582-26-1	38.00
4	1-Phenanthrenecarboxylic acid, 7-et	158355	019907-21-2	35.00
5	2-(4-tert-Butyl-phenyl)-1-oxy-2,4-d	145250	1000317-97-5	25.00

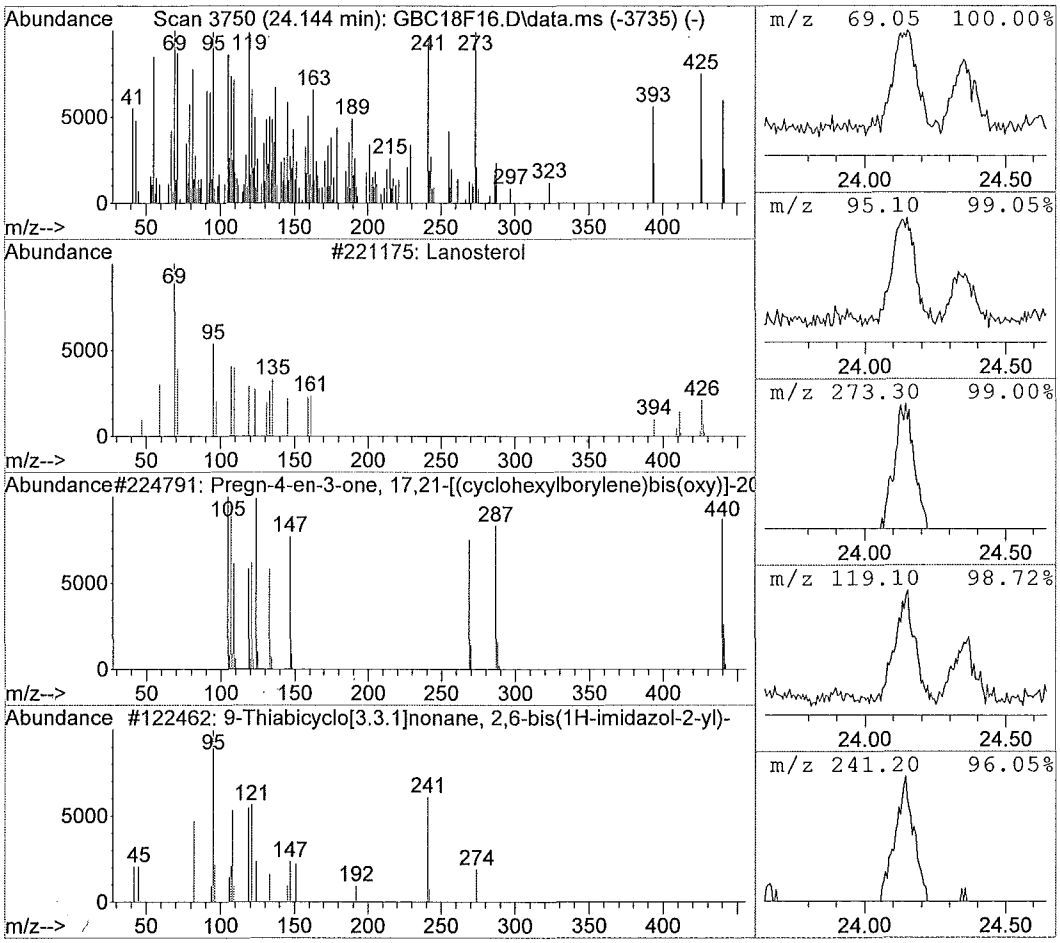


Data File : Z:\G\2015\JUN15\02JUN15\GBC18F16.D Vial: 17
Acq On : 06/02/2015 22:38 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.14	2.47 ug/ml	377271	Perylene-d12	3050549

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Lanosterol	221175	000079-63-0	53.00
2	Pregn-4-en-3-one, 17,21-[(cyclohexy	224791	030888-45-0	30.00
3	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	18.00
4	5-Cholene, 3,24-dihydroxy-	190889	1000251-69-2	16.00
5	D:A-Friedooleanan-28-al, 3-oxo-	224969	014440-40-5	16.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293017

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBC19F17

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293017

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBC19F17

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol .	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9L72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293017

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GBC19F17

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.12	310	JB
02	763-93-9	3-Hexen-2-one	3.22	270	JN
03		Unknown 2-Pentanone, 4-hydroxy-	3.38	220	J
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.60	16000	J
05		Unknown 3-Hexene-2,5-dione	4.35	460	JB
06	629-54-9	Hexadecanamide	14.25	180	JNB
07	301-02-0	9-Octadecenamide, (Z)-	15.17	1300	JNB
08		Unknown N-(3-Methyl-2,5-dioxo-imidazolidin-4-yl)	16.31	120	J
09	112-84-5	13-Docosenamide, (Z)-	17.12	260	JN
10		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	21.54	1700	J
11		Unknown 2-Isopropenyl-4a,8-dimethyl-1,2,3,4,4a,5	21.89	210	J
12		Unknown 1,2,4-Oxadiazol-5(4H)-one, 4-(2-chloroph	22.21	120	J
13		Unknown Ergosta-7,22-dien-3-ol, acetate, (3.beta	24.14	200	J
14		Unknown 4-Phosphacyclopentene, 4-mesityl-	24.36	110	J
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

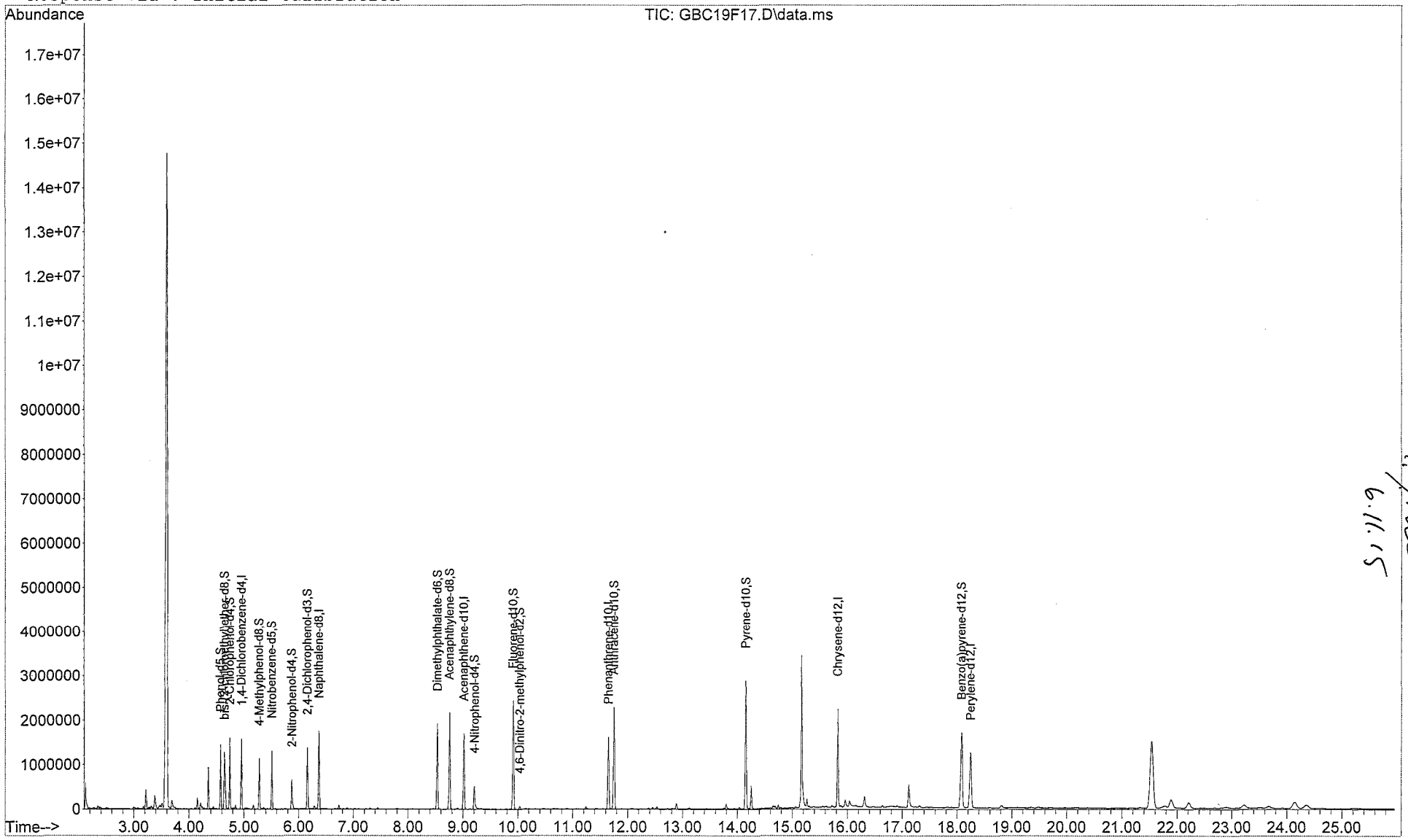
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 14:45:36 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:45:36 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	277060	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1032223	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	588610	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	983824	20.00 ug/ml
73) Chrysene-d12	15.83	240	957127	20.00 ug/ml
81) Perylene-d12	18.24	264	938384	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	538943	27.895ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	274788	23.228ug/mL
7) 2-Chlorophenol-d4	4.75	132	515726	27.187ug/ml
13) 4-Methylphenol-d8	5.28	113	275117	18.290ug/mL
17) Nitrobenzene-d5	5.51	128	241026	27.831ug/ml
21) 2-Nitrophenol-d4	5.87	143	173923	18.021ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	361776	25.588ug/mL
28) 4-Chloroaniline-d4	6.43	131	5914	0.386ug/mL
42) Dimethylphthalate-d6	8.53	166	1198747	33.487ug/mL
45) Acenaphthylene-d8	8.76	160	1389567	29.087ug/mL
50) 4-Nitrophenol-d4	9.21	143	188347	24.708ug/mL
57) Fluorene-d10	9.92	176	1013224	32.588ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	16725	2.588ug/mL
69) Anthracene-d10	11.75	188	1491302	29.966ug/mL
75) Pyrene-d10	14.16	212	1385517	31.841ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1269015	29.814ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:45:36 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00539

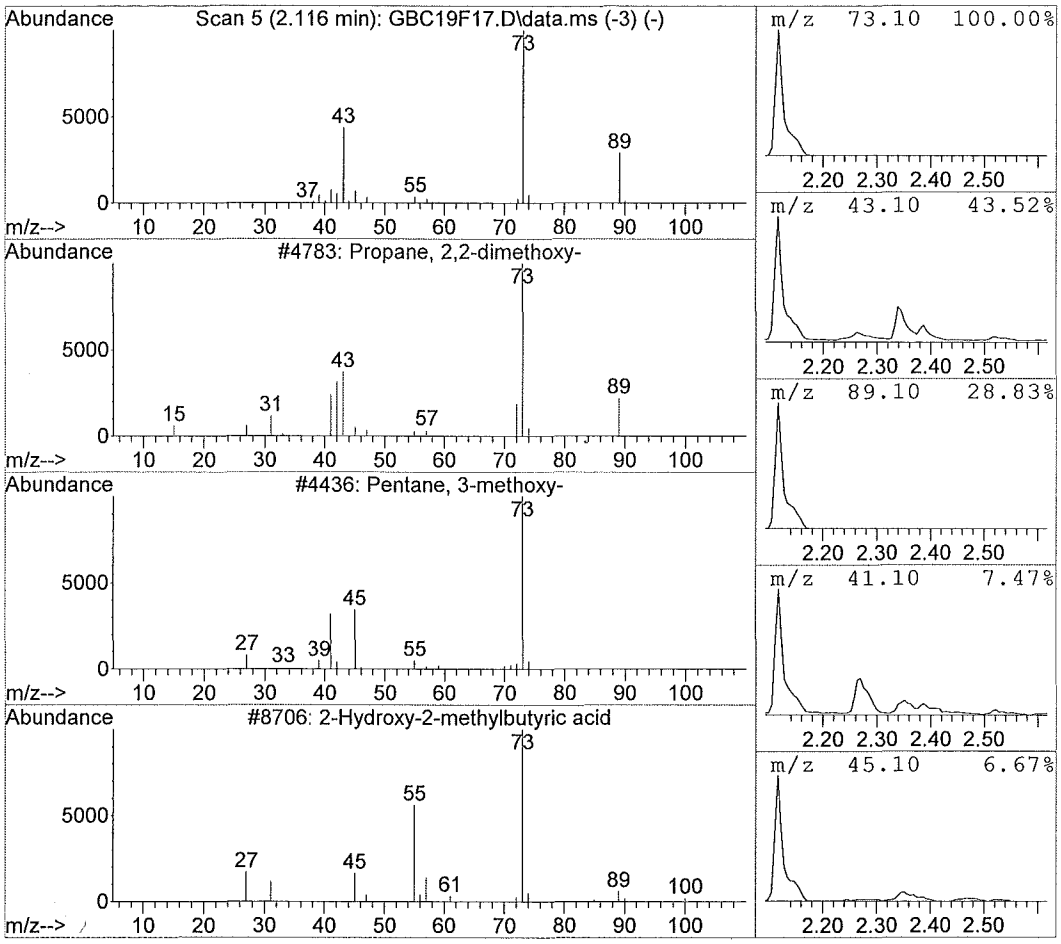
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	8.11 ug/ml	630863	1,4-Dichlorobenzene-d4	1555689

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4783	000077-76-9	56.00
2	Pentane, 3-methoxy-	4436	036839-67-5	25.00
3	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00
4	Propane, 2-methoxy-2-methyl-	2137	001634-04-4	9.00
5	1-(2-Methoxyethoxy)-2-methyl-2-prop	32662	1000364-24-4	9.00



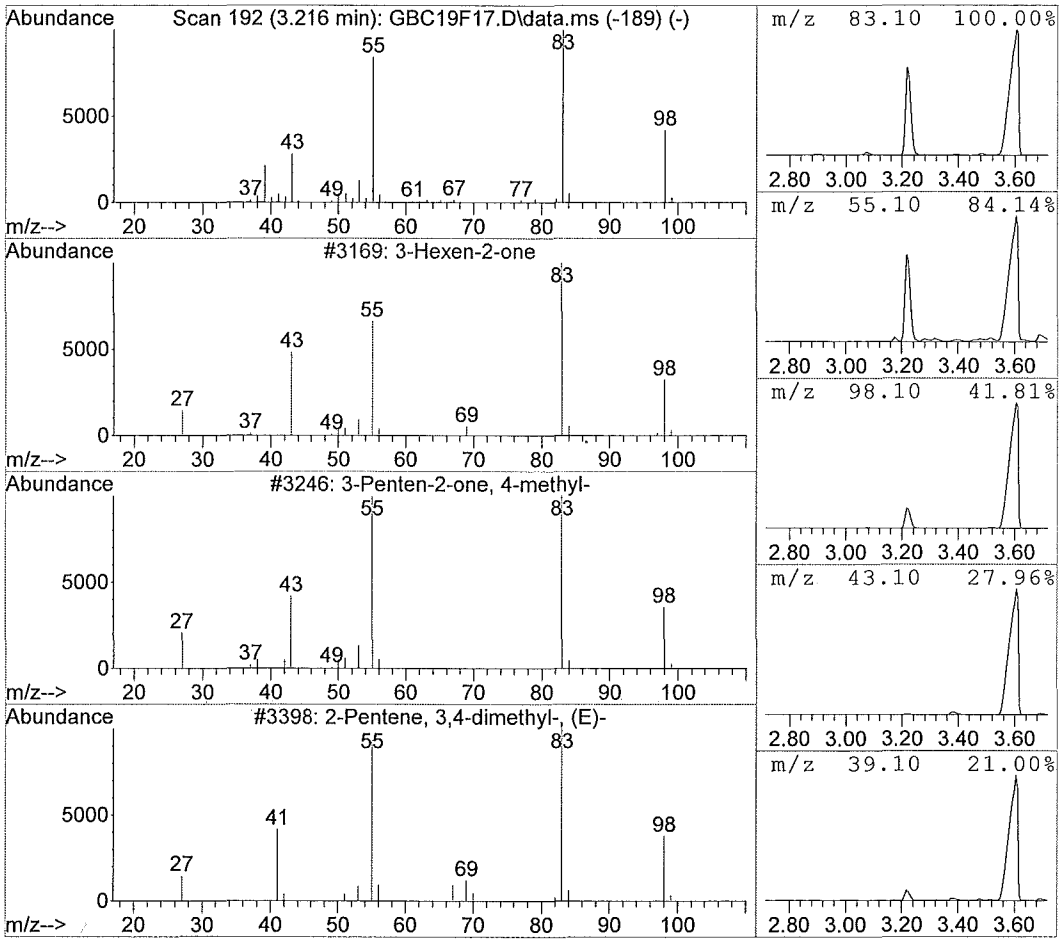
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.22	7.08 ug/ml	550455	1,4-Dichlorobenzene-d4	1555689

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexen-2-one	3169	000763-93-9	91.00
2	3-Penten-2-one, 4-methyl-	3246	000141-79-7	91.00
3	2-Pentene, 3,4-dimethyl-, (E)-	3398	004914-92-5	86.00
4	2-Pentene, 2,3-dimethyl-	3370	010574-37-5	78.00
5	2-Pentene, 3,4-dimethyl-, (Z)-	3403	004914-91-4	78.00

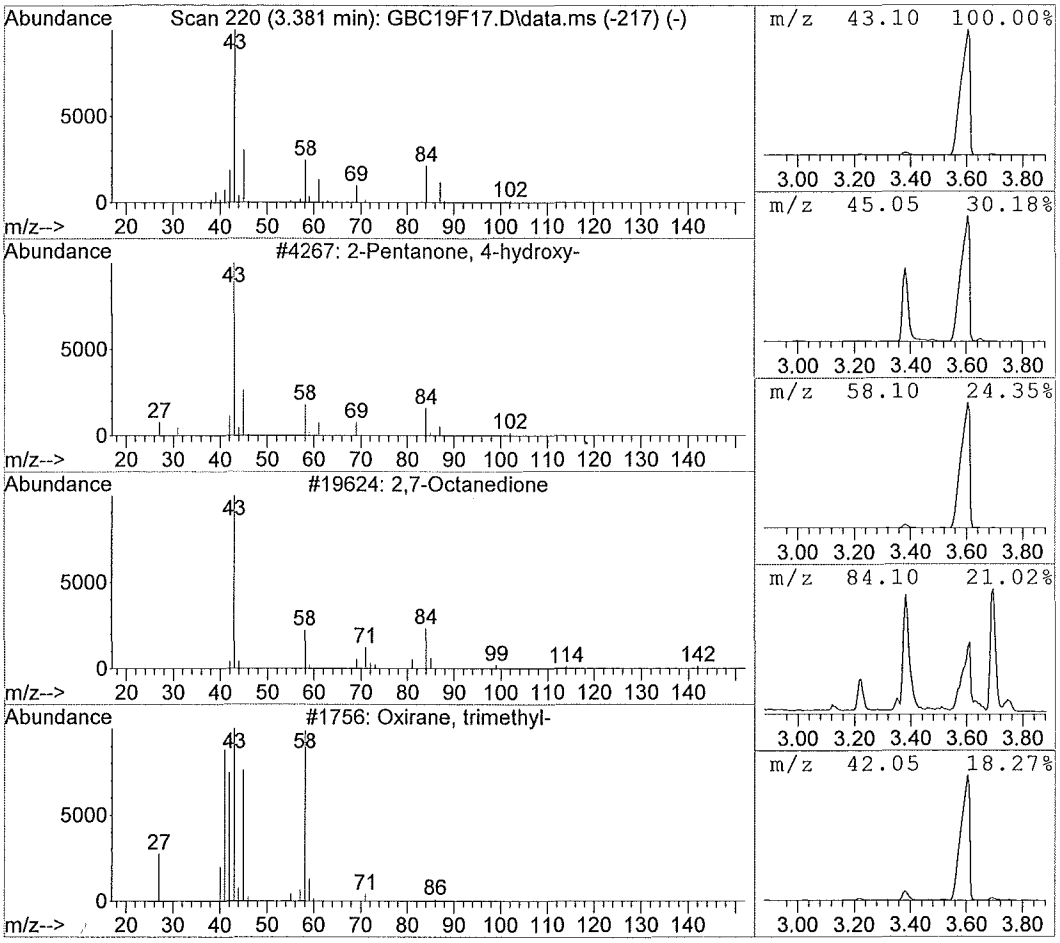


Data File : Z:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	5.58 ug/ml	433935	1,4-Dichlorobenzene-d4	1555689

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	50.00
2	2,7-Octanedione	19624	001626-09-1	28.00
3	Oxirane, trimethyl-	1756	005076-19-7	12.00
4	Acetone	217	000067-64-1	9.00
5	Methylene diamine, N,N'-diacetyl-	13181	003852-14-0	9.00



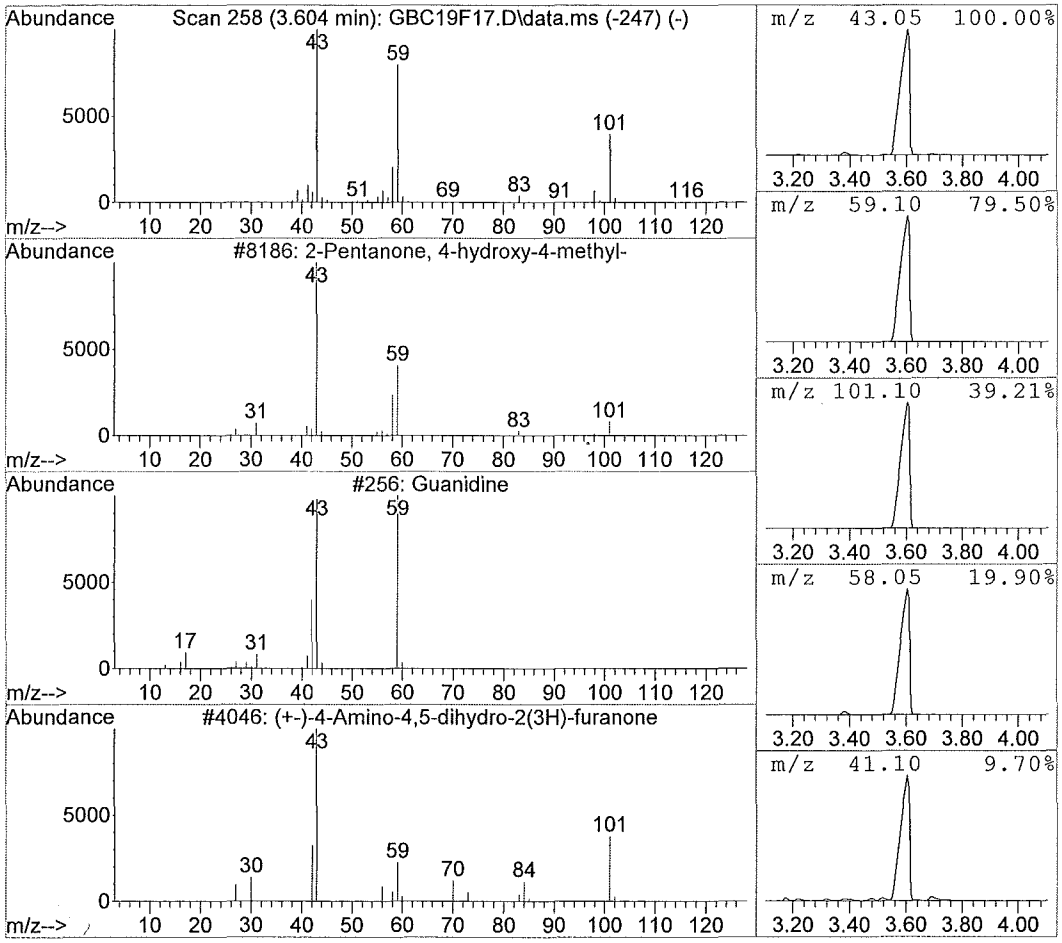
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.60	411.39 ug/ml	31999937	1,4-Dichlorobenzene-d4	1555689

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	Guanidine	256	000113-00-8	43.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	35.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	Propanamide, N-ethyl-	4082	005129-72-6	10.00

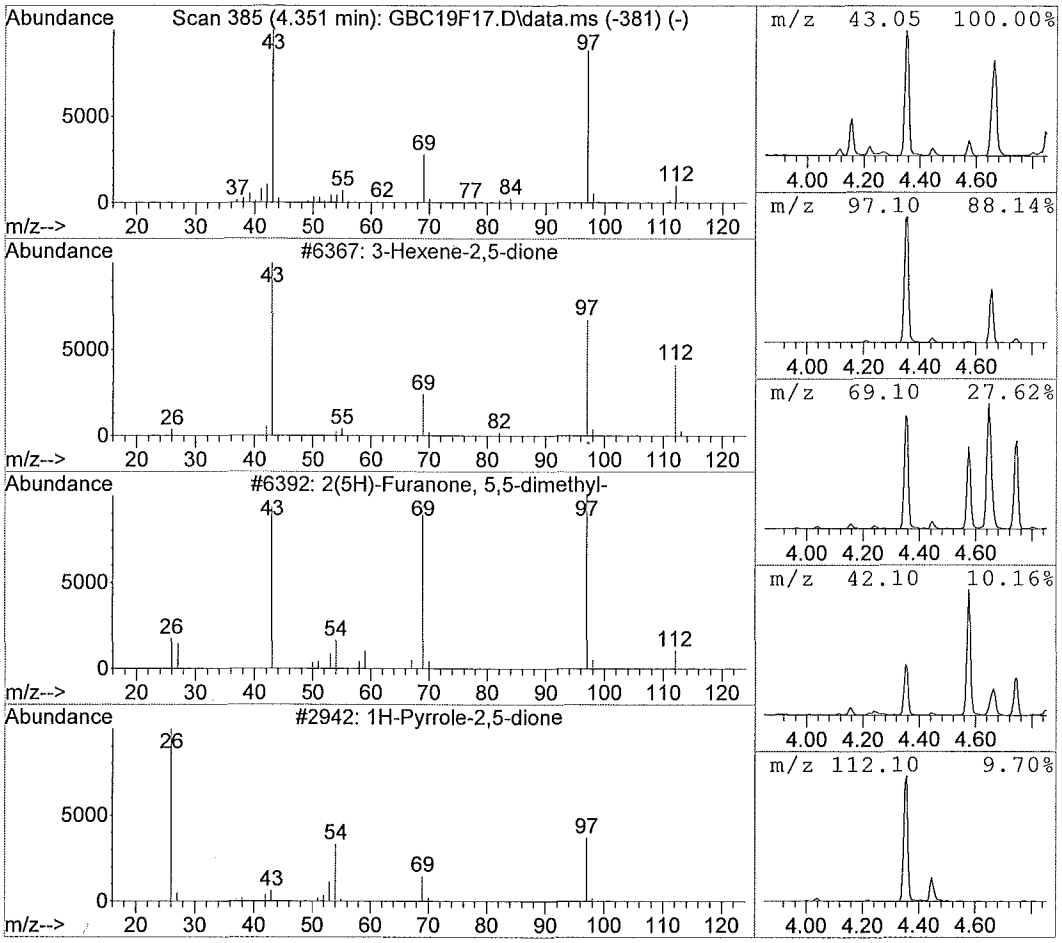


Data File : Z:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	11.95 ug/ml	929677	1,4-Dichlorobenzene-d4	1555689

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	78.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
3	1H-Pyrrole-2,5-dione	2942	000541-59-3	53.00
4	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	10.00
5	1-(Trimethylsilyl)-1-propyne	6340	006224-91-5	9.00

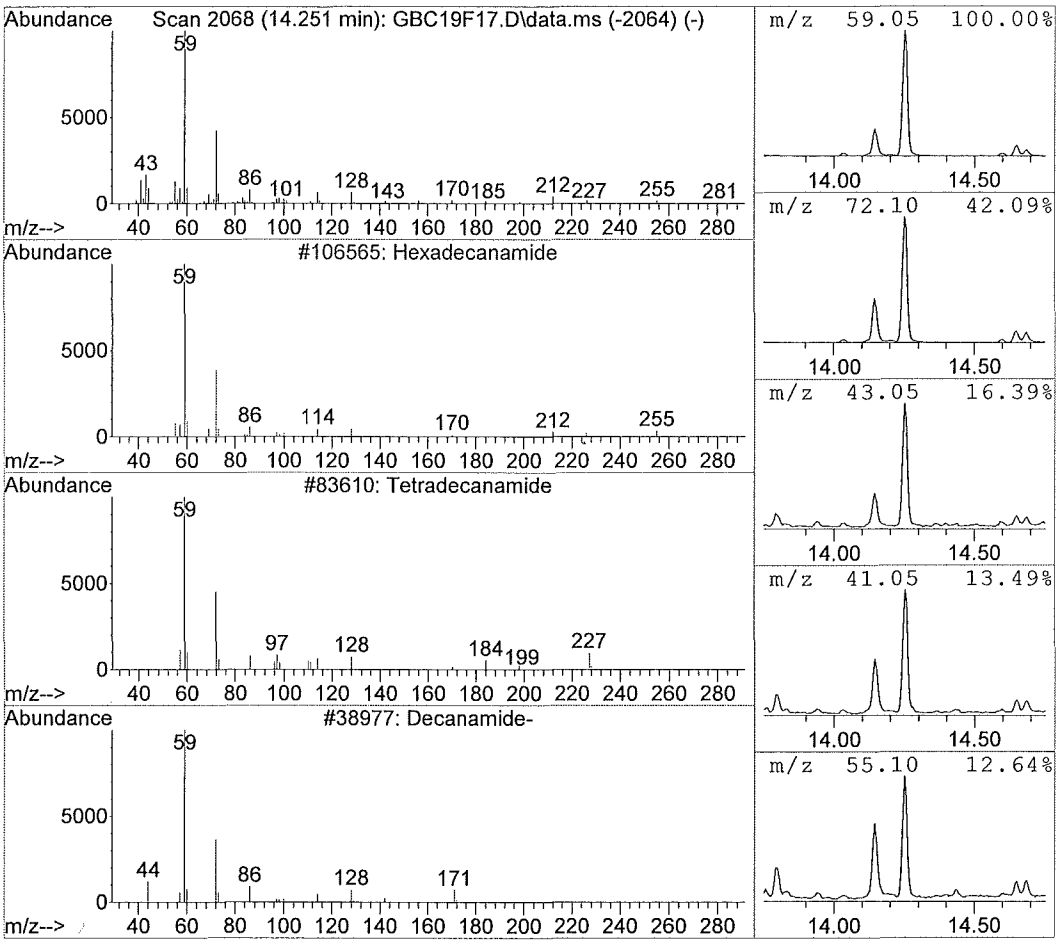


Data File : Z:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.25	4.61 ug/ml	622576	Chrysene-d12	2702390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	95.00
2	Tetradecanamide	83610	000638-58-4	87.00
3	Decanamide-	38977	002319-29-1	78.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	72.00
5	Dodecanamide	60439	001120-16-7	64.00

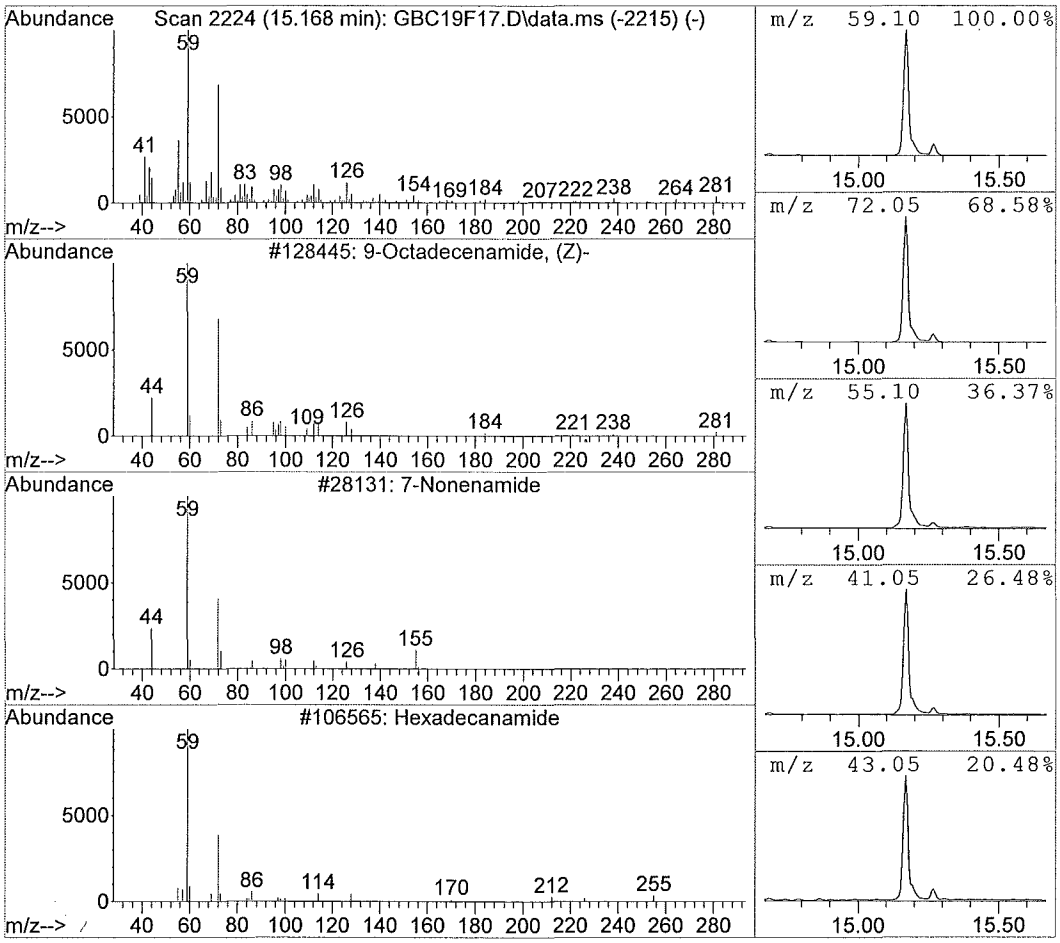


Data File : Z:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	34.28 ug/ml	4632257	Chrysene-d12	2702390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	98.00
2	7-Nonenamide	28131	090949-53-4	64.00
3	Hexadecanamide	106565	000629-54-9	53.00
4	Dodecanamide	60440	001120-16-7	53.00
5	Nonanamide	29478	001120-07-6	50.00

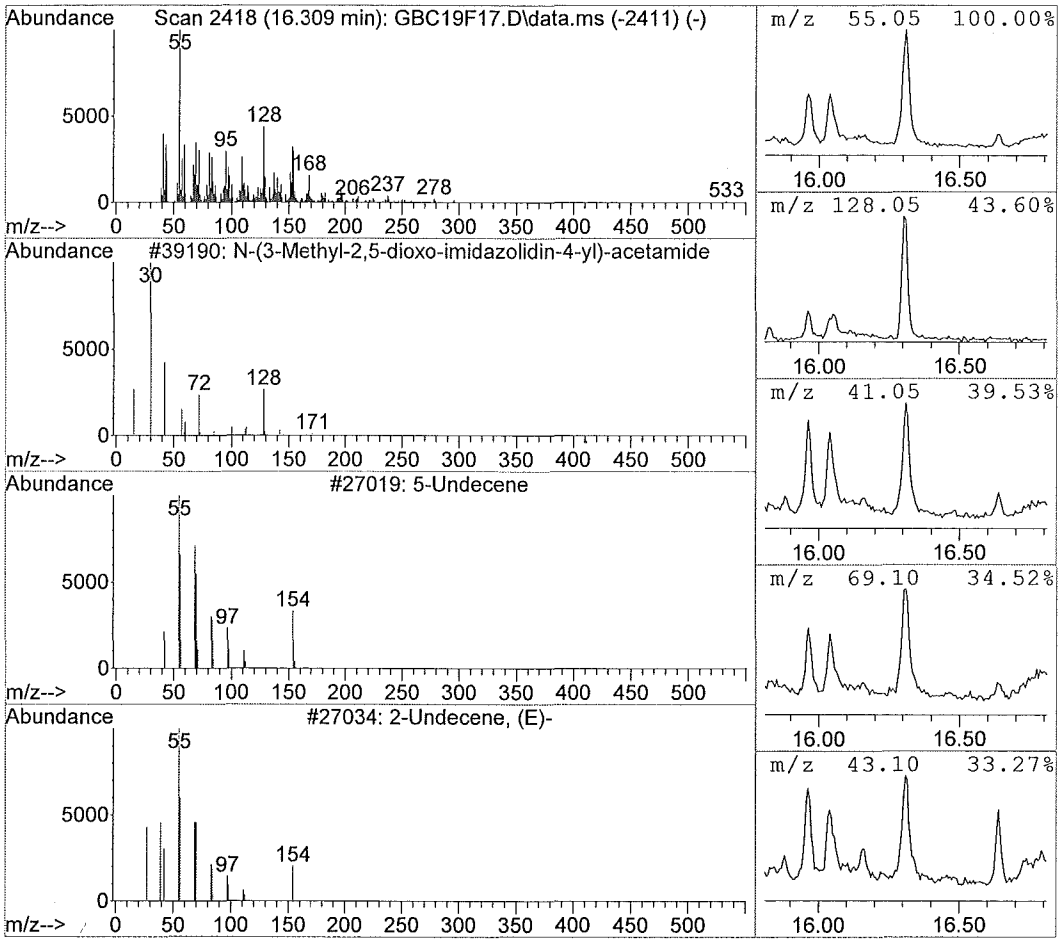


Data File : Z:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	3.07 ug/ml	415296	Chrysene-d12	2702390

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	18.00
2	5-Undecene	27019	004941-53-1	11.00
3	2-Undecene, (E)-	27034	000693-61-8	11.00
4	Cyclohexanecarboxamide	11822	001122-56-1	11.00
5	2-(3-Hydroxybutyl)cyclooctanone	59547	110288-21-6	10.00

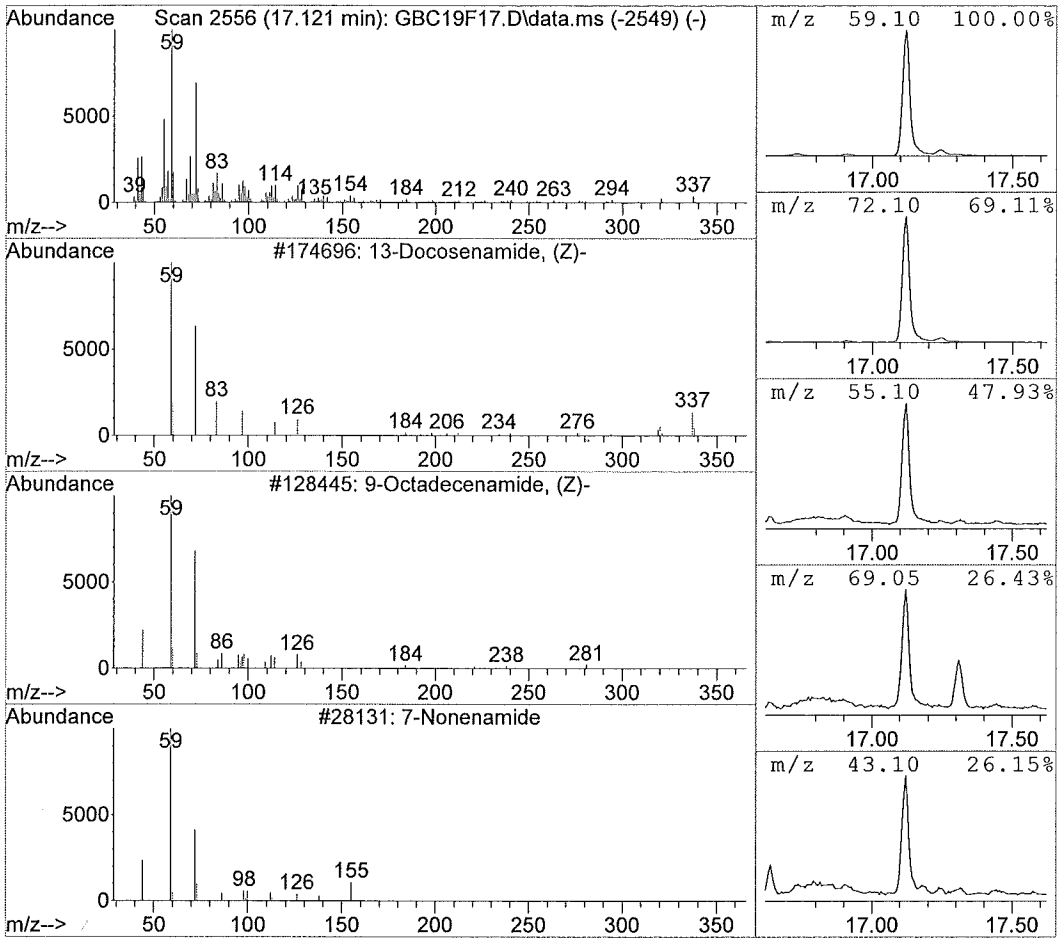


Data File : Z:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.12	6.64 ug/ml	922728	Perylene-d12	2778085

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	95.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
3	7-Nonenamide	28131	090949-53-4	64.00
4	Tetradecanamide	83610	000638-58-4	50.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	47.00

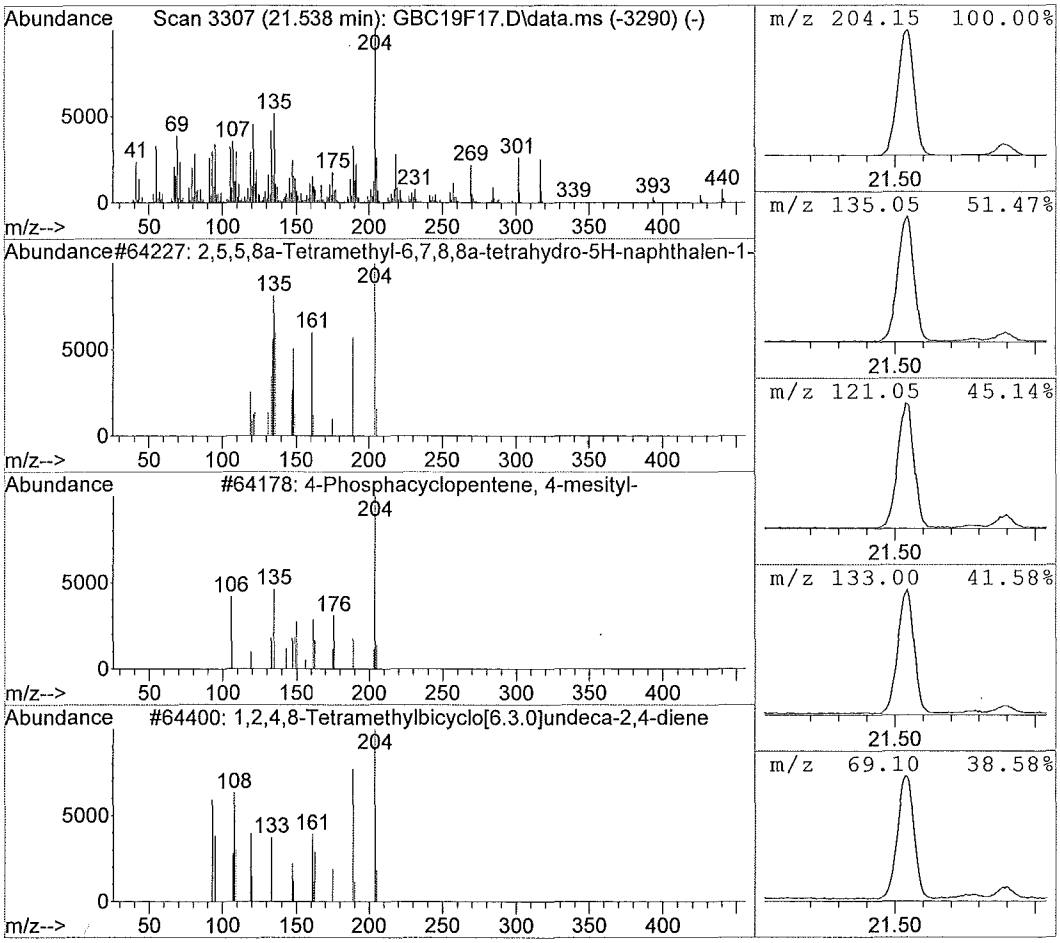


Data File : Z:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.54	43.62 ug/ml	6059678	Perylene-d12	2778085

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	45.00
2	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
3	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	41.00
4	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	41.00
5	3H-3a,7-Methanoazulene, 2,4,5,6,7,8	64520	002387-78-2	38.00

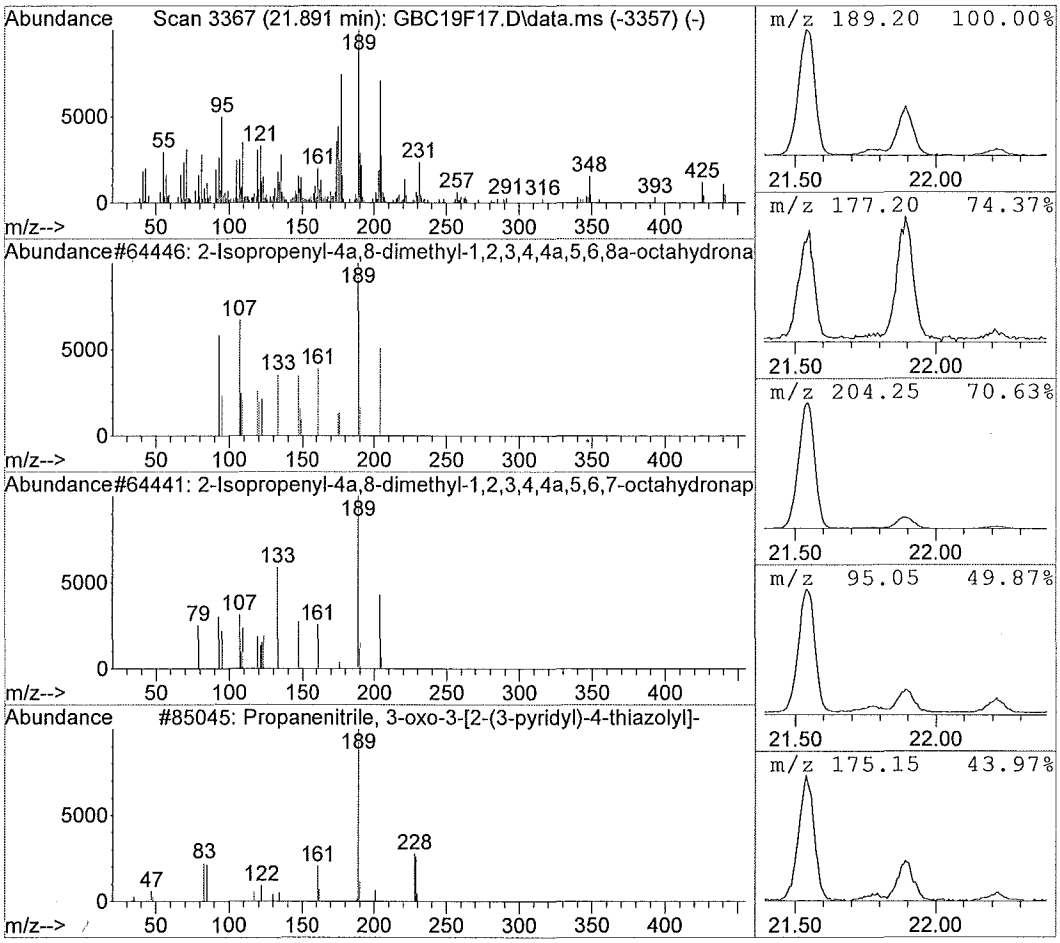


Data File : Z:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.89	5.44 ug/ml	755877	Perylene-d12	2778085

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Isopropenyl-4a,8-dimethyl-1,2,3,4	64446	1000193-57-0	49.00
2	2-Isopropenyl-4a,8-dimethyl-1,2,3,4	64441	1000192-43-5	38.00
3	Propanenitrile, 3-oxo-3-[2-(3-pyrid	85045	1000270-54-6	25.00
4	trans-.beta.-Ionone	54600	000079-77-6	25.00
5	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	25.00

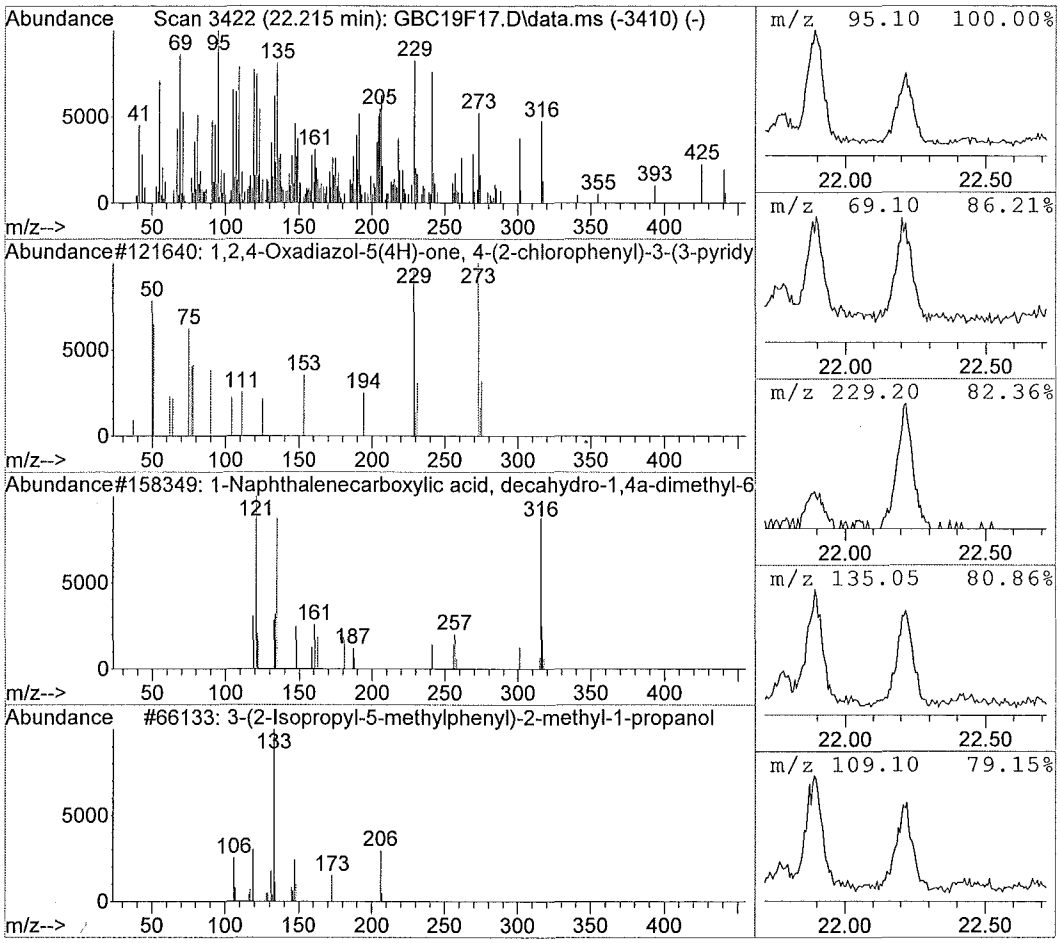


Data File : Z:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.21	3.20 ug/ml	444521	Perylene-d12	2778085

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,4-Oxadiazol-5(4H)-one, 4-(2-chl	121640	288246-55-9	56.00
2	1-Naphthalenecarboxylic acid, decah	158349	001235-39-8	49.00
3	3-(2-Isopropyl-5-methylphenyl)-2-me	66133	022291-56-1	44.00
4	Farnesyl bromide	130771	006874-67-5	41.00
5	1-Naphthalenecarboxylic acid, decah	158354	015798-13-7	27.00

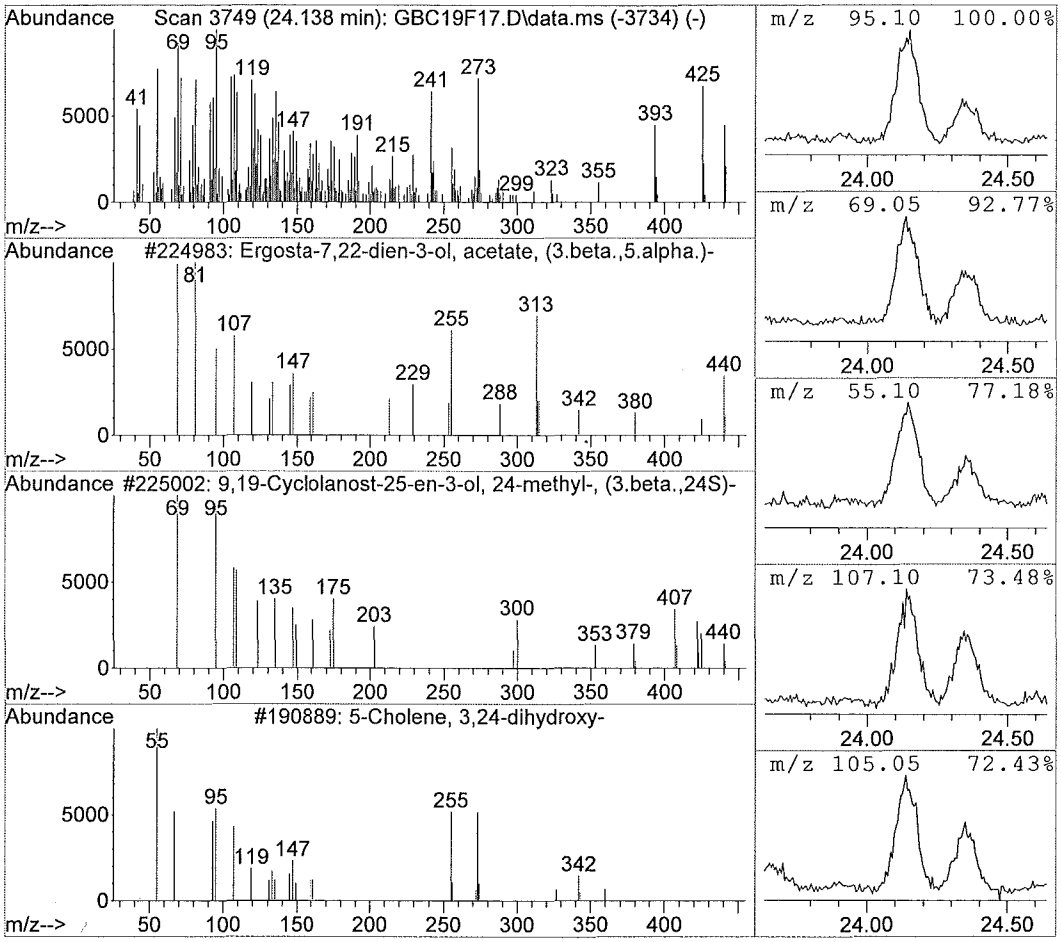


Data File : Z:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.14	5.23 ug/ml	726323	Perylene-d12	2778085

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ergosta-7,22-dien-3-ol, acetate, (3	224983	001449-60-1	38.00
2	9,19-Cyclolanost-25-en-3-ol, 24-met	225002	000511-61-5	27.00
3	5-Cholene, 3,24-dihydroxy-	190889	1000251-69-2	25.00
4	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	14.00
5	13,15-Octacosadiyne	205920	024643-46-7	12.00

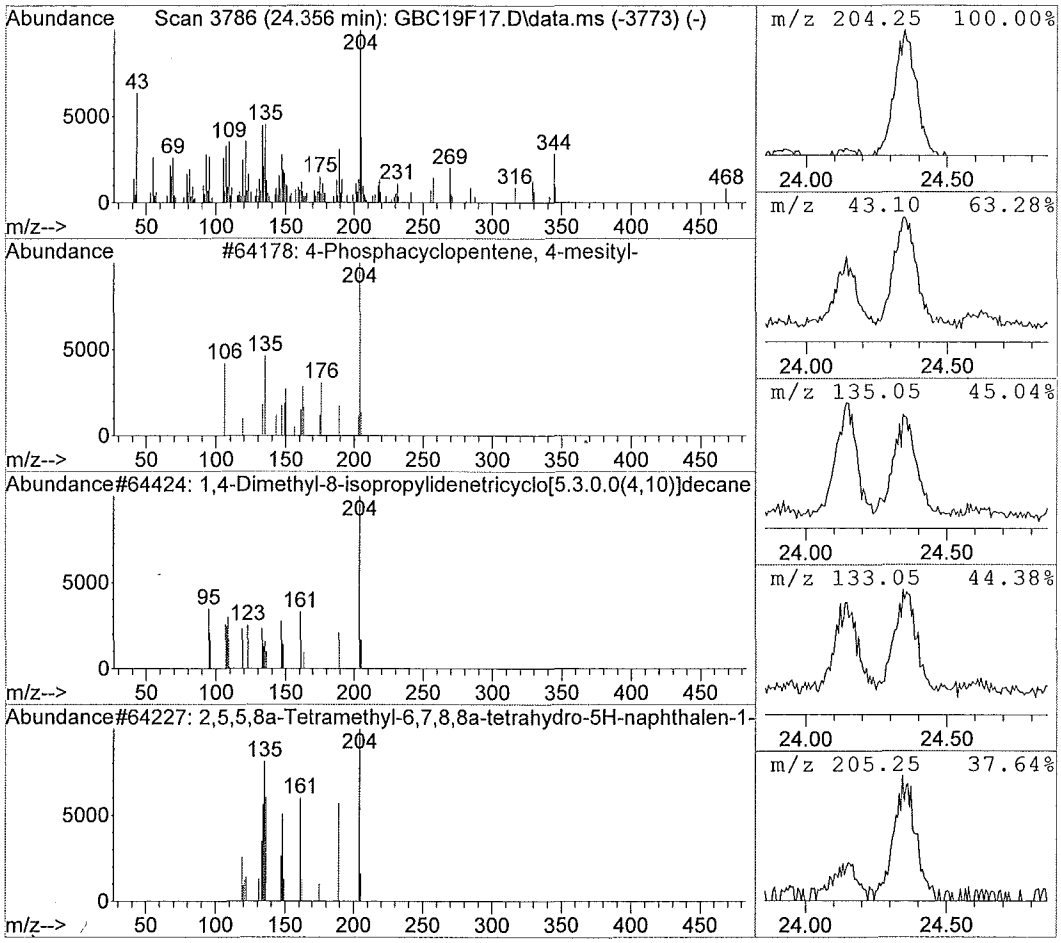


Data File : Z:\G\2015\JUN15\02JUN15\GBC19F17.D Vial: 18
Acq On : 06/02/2015 23:10 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.36	2.74 ug/ml	381258	Perylene-d12	2778085

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	46.00
2	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	45.00
3	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	43.00
4	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64574	000489-40-7	43.00
5	.alpha.-D-Glucopyranoside, methyl 2	232822	002641-79-4	43.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293018

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC23F18

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293018

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC23F18

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L73

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293018
Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC23F18
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015
GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.13	340	JB
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	190	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.60	12000	J
04		Unknown 3-Hexene-2,5-dione	4.36	470	JB
05	629-54-9	Hexadecanamide	14.25	140	JNB
06	301-02-0	9-Octadecenamide, (Z)-	15.17	1300	JNB
07		Unknown Cyclohexanecarboxamide	16.31	86.	J
08	112-84-5	13-Docosenamide, (Z)-	17.12	370	JN
09		Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydrc	21.54	1400	J
10		Unknown Thiophene, 2-ethynyl-5-[(trimethylsilyl)	21.89	140	J
11		Unknown 1-Naphthalenecarboxylic acid, decahydro-	22.21	120	J
12		Unknown Lanosterol	24.14	150	J
13		Unknown 4-Phosphacyclopentene, 4-mesityl-	24.35	120	J
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	160	J

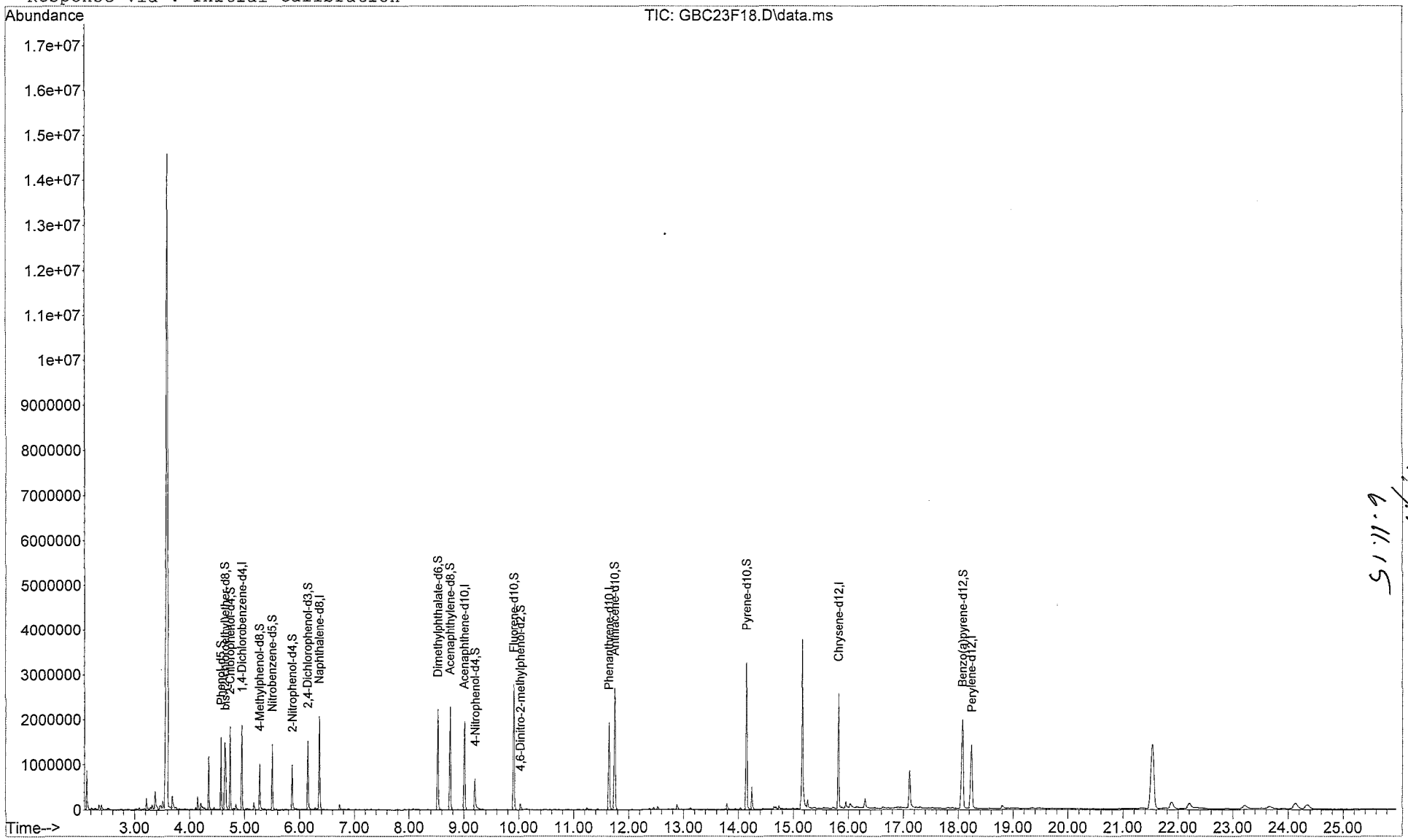
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 14:46:10 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:46:10 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	331253	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1227440	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	685170	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1130911	20.00 ug/ml
73) Chrysene-d12	15.83	240	1115257	20.00 ug/ml
81) Perylene-d12	18.25	264	1071538	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	627170	27.151ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	308958	21.844ug/mL
7) 2-Chlorophenol-d4	4.75	132	571598	25.203ug/ml
13) 4-Methylphenol-d8	5.28	113	255462	14.205ug/mL
17) Nitrobenzene-d5	5.51	128	264561	25.690ug/ml
21) 2-Nitrophenol-d4	5.87	143	258828	22.553ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	407949	24.264ug/mL
28) 4-Chloroaniline-d4	6.43	131	2899	0.159ug/mL
42) Dimethylphthalate-d6	8.53	166	1375984	33.022ug/mL
45) Acenaphthylene-d8	8.76	160	1468289	26.403ug/mL
50) 4-Nitrophenol-d4	9.21	143	238563	26.885ug/mL
57) Fluorene-d10	9.92	176	1127429	31.150ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	34439	4.636ug/mL
69) Anthracene-d10	11.75	188	1718761	30.044ug/mL
75) Pyrene-d10	14.16	212	1604060	31.637ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1494809	30.754ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:46:10 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00575

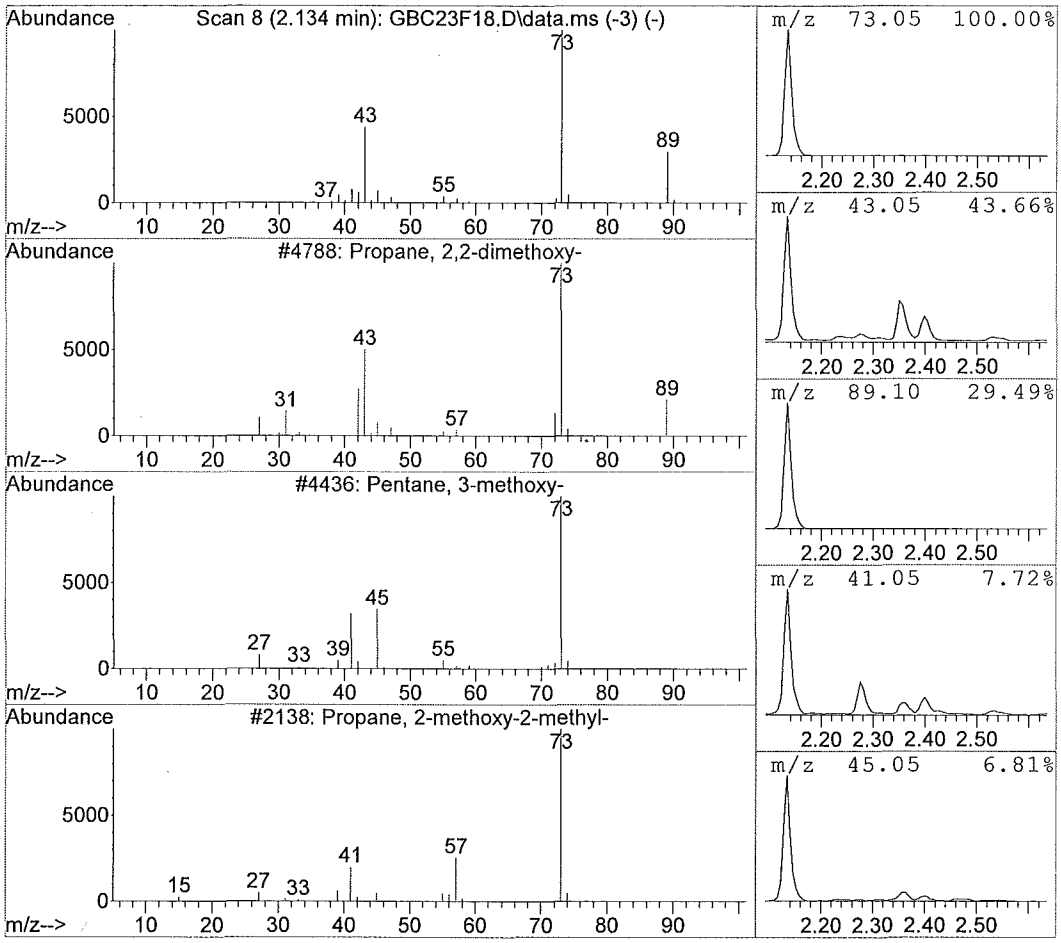
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.13	8.89 ug/ml	818469	1,4-Dichlorobenzene-d4	1841079

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	38.00
2	Pentane, 3-methoxy-	4436	036839-67-5	17.00
3	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
4	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00
5	Methane, isothiocyanato-	716	000556-61-6	7.00



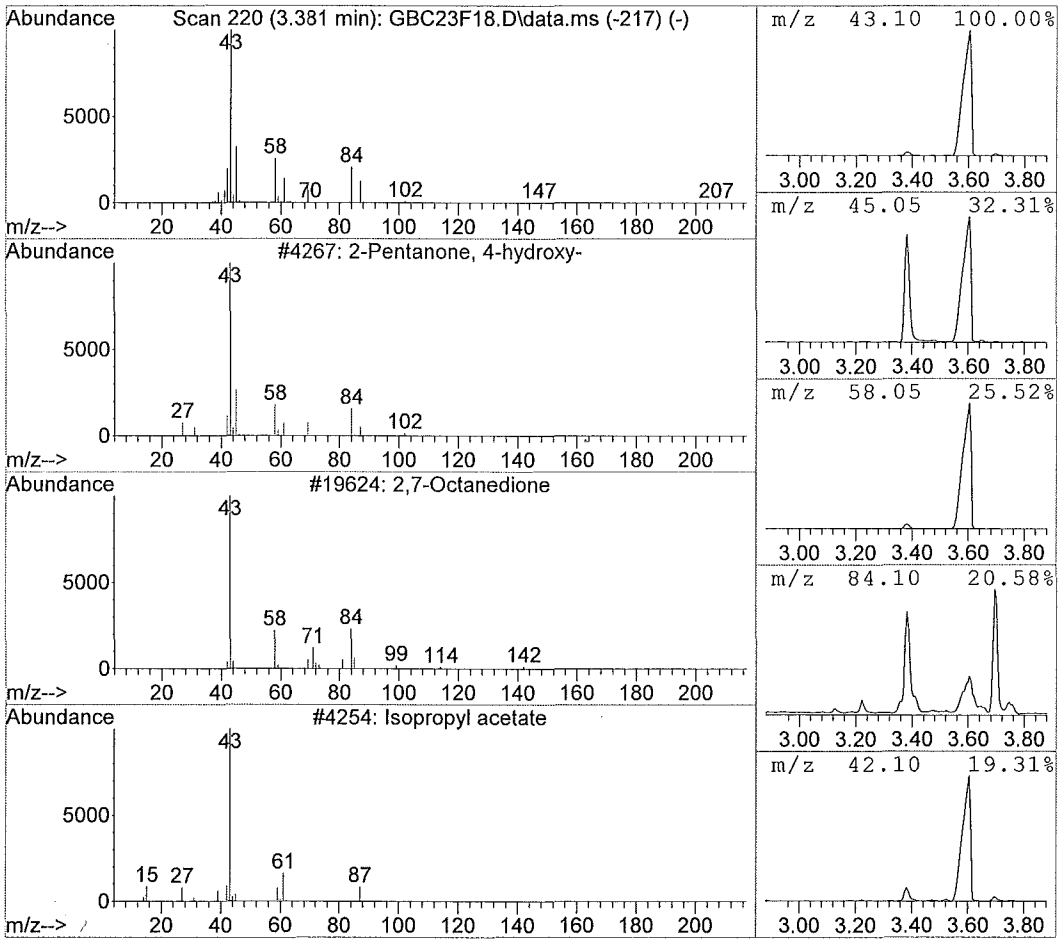
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	5.03 ug/ml	463084	1,4-Dichlorobenzene-d4	1841079

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	72.00
2	2,7-Octanedione	19624	001626-09-1	25.00
3	Isopropyl acetate	4254	000108-21-4	10.00
4	Acetone	217	000067-64-1	9.00
5	2-Butanone, 4-hydroxy-3-methyl-	4328	003393-64-4	9.00



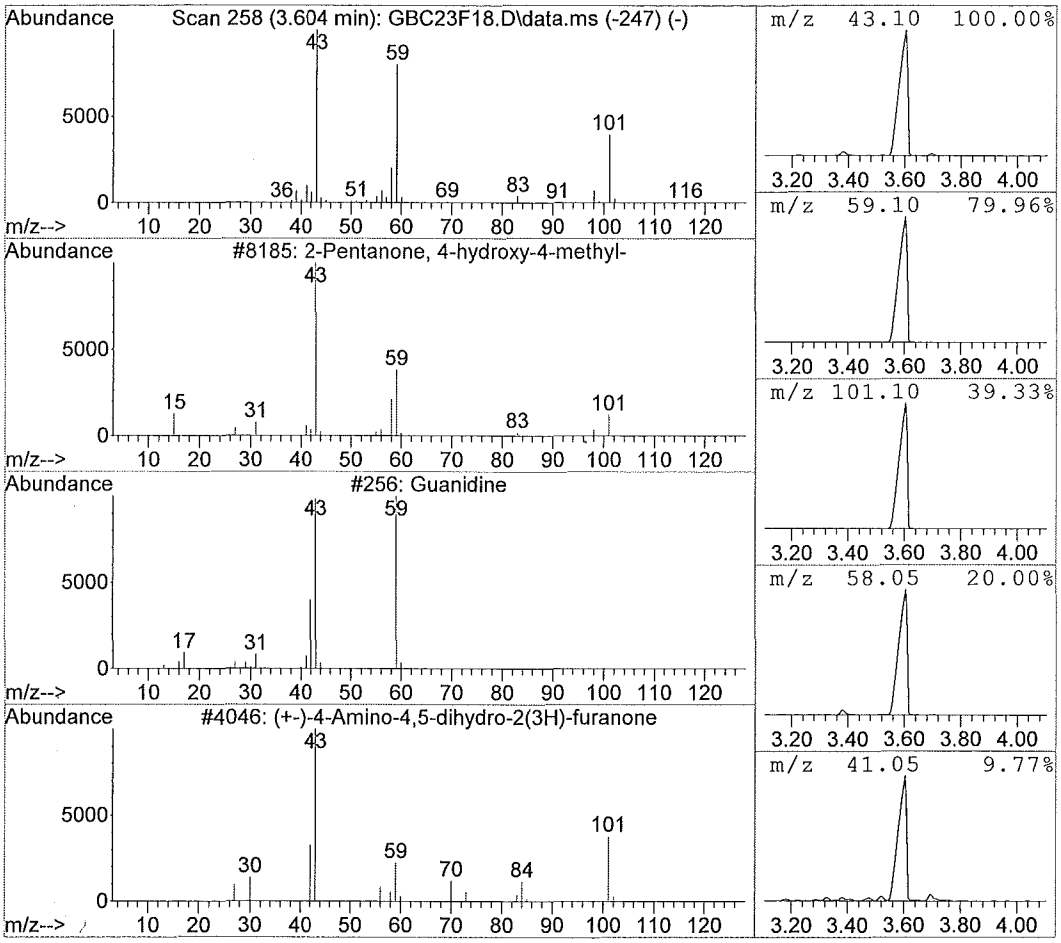
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.60	319.77 ug/ml	29435686	1,4-Dichlorobenzene-d4	1841079

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	Guanidine	256	000113-00-8	43.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	35.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	Propanamide, N-ethyl-	4082	005129-72-6	10.00



Library Search Compound Report

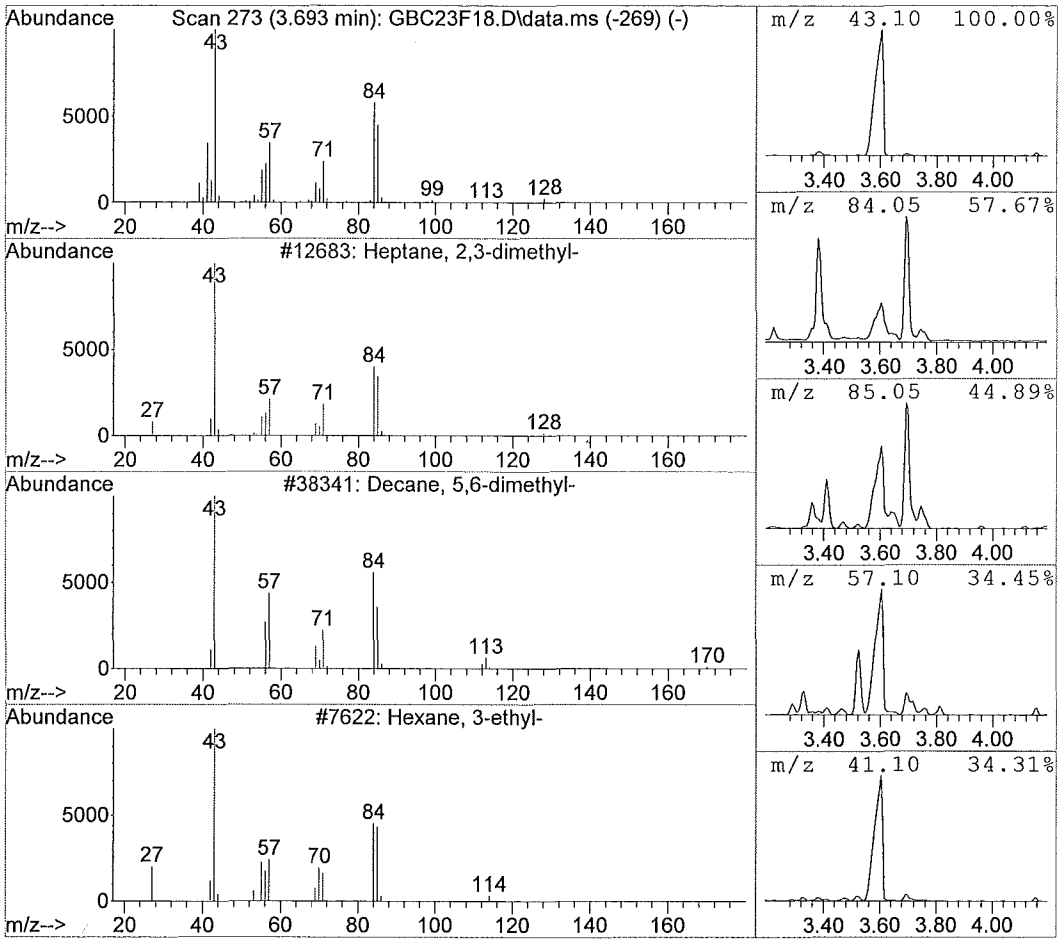
Data File : Z:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	4.20 ug/ml	386947	1,4-Dichlorobenzene-d4	1841079

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	87.00
2	Decane, 5,6-dimethyl-	38341	001636-43-7	83.00
3	Hexane, 3-ethyl-	7622	000619-99-8	74.00
4	Hexanal, 3,3-dimethyl-	12523	055320-57-5	59.00
5	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	58.00

P.A.

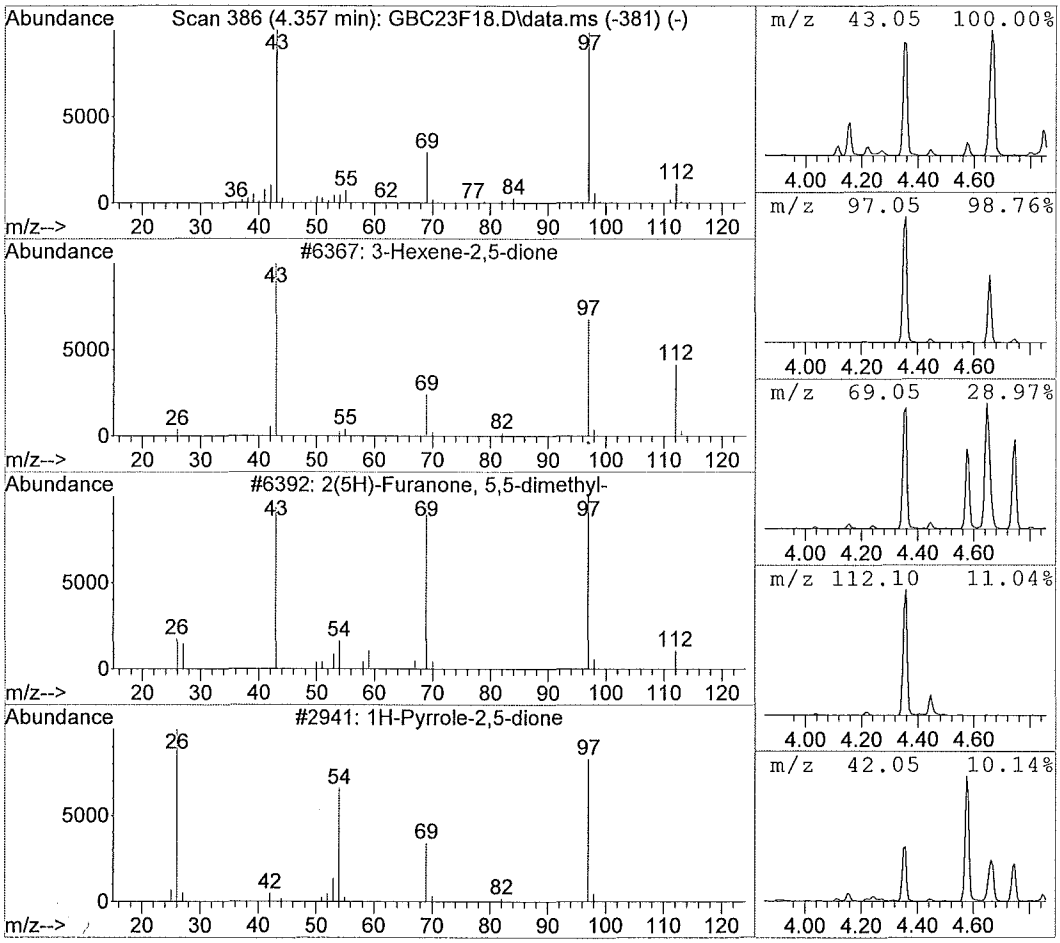


Data File : Z:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.36	12.35 ug/ml	1136927	1,4-Dichlorobenzene-d4	1841079

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	78.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	50.00
3	1H-Pyrrole-2,5-dione	2941	000541-59-3	40.00
4	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	10.00
5	1-(Trimethylsilyl)-1-propyne	6339	006224-91-5	9.00

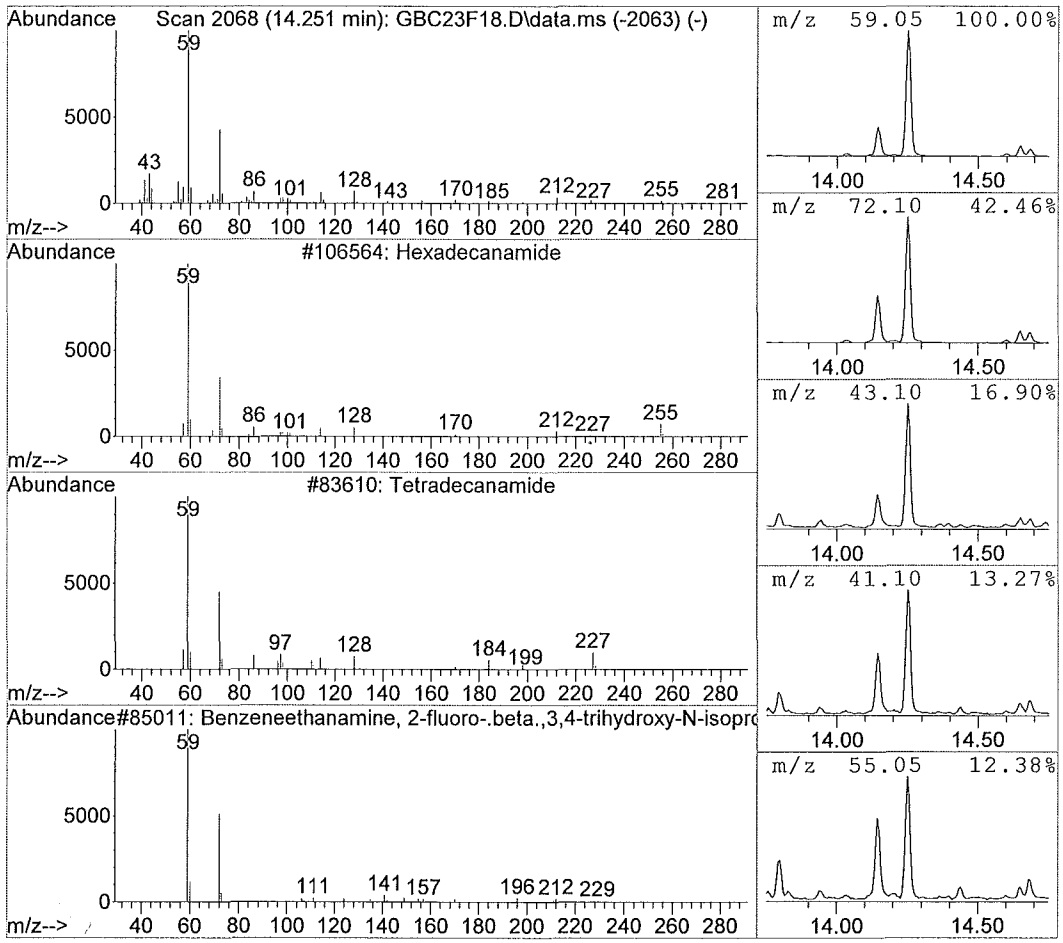


Data File : Z:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.25	3.77 ug/ml	593860	Chrysene-d12	3151692

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	96.00
2	Tetradecanamide	83610	000638-58-4	91.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	72.00
4	Octanamide	20317	000629-01-6	72.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00

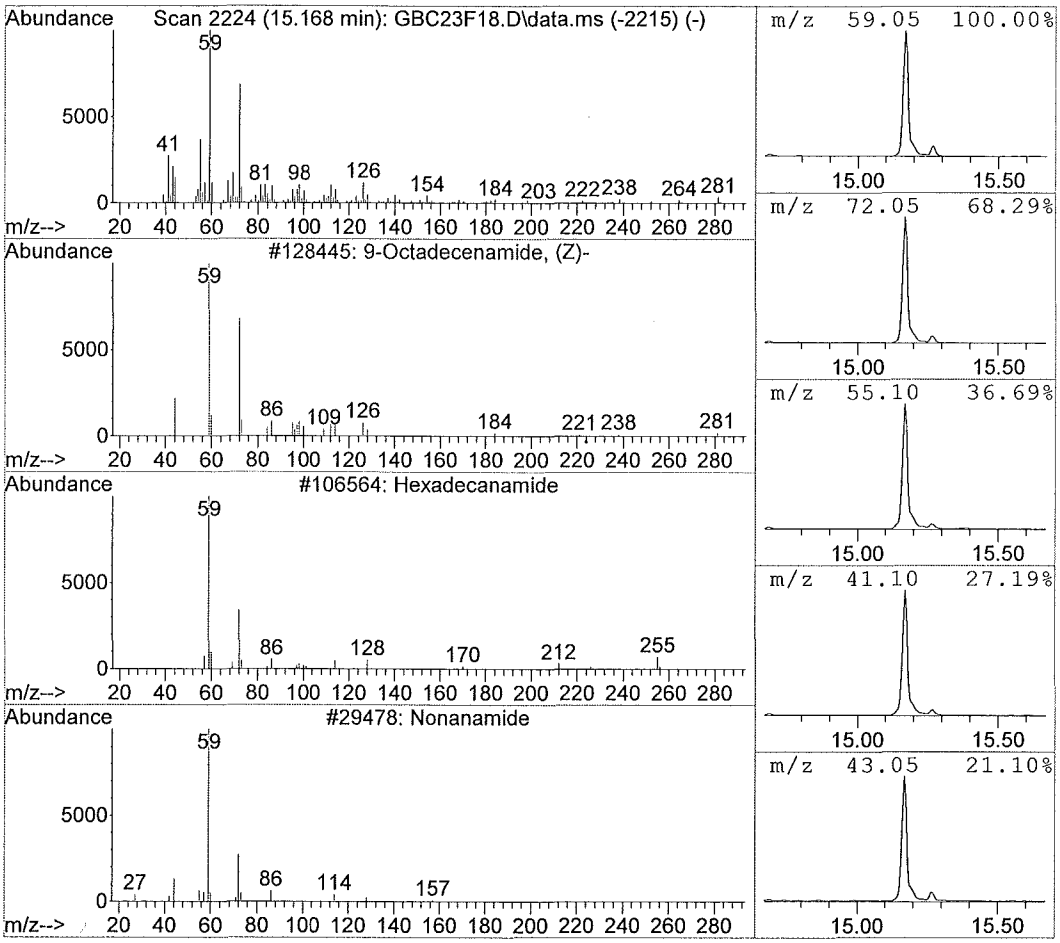


Data File : Z:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	32.87 ug/ml	5179487	Chrysene-d12	3151692

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Hexadecanamide	106564	000629-54-9	56.00
3	Nonanamide	29478	001120-07-6	53.00
4	Dodecanamide	60440	001120-16-7	53.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	45.00

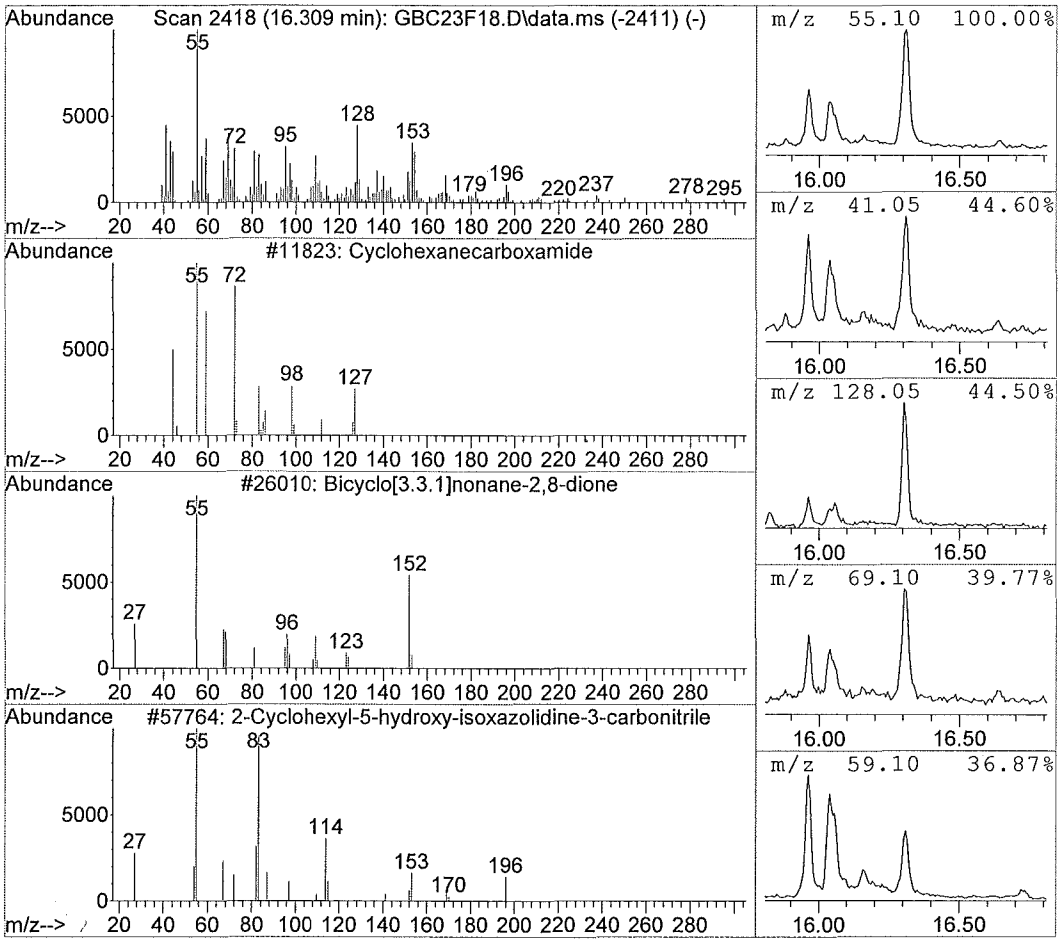


Data File : Z:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	2.26 ug/ml	355443	Chrysene-d12	3151692

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	15.00
2	Bicyclo[3.3.1]nonane-2,8-dione	26010	160651-01-4	10.00
3	2-Cyclohexyl-5-hydroxy-isoxazolidin	57764	1000187-98-4	10.00
4	2-(4-Nitrobutyryl)cyclooctanone	94695	079630-93-6	10.00
5	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	10.00

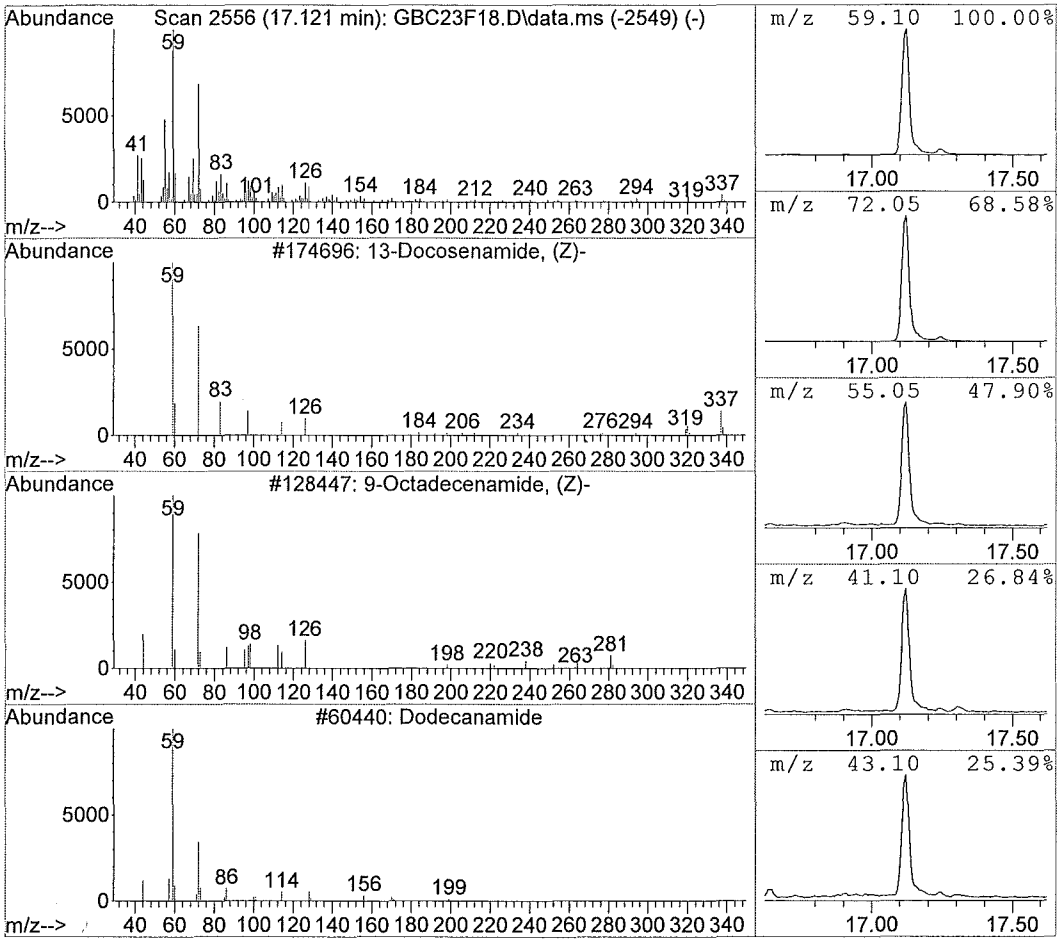


Data File : Z:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.12	9.62 ug/ml	1528155	Perylene-d12	3175644

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	95.00
2	9-Octadecenamide, (Z)-	128447	000301-02-0	93.00
3	Dodecanamide	60440	001120-16-7	50.00
4	Tetradecanamide	83608	000638-58-4	35.00
5	2-Hydroxy-2,4-dimethyl-hept-6-en-3-	29069	1000192-56-0	35.00



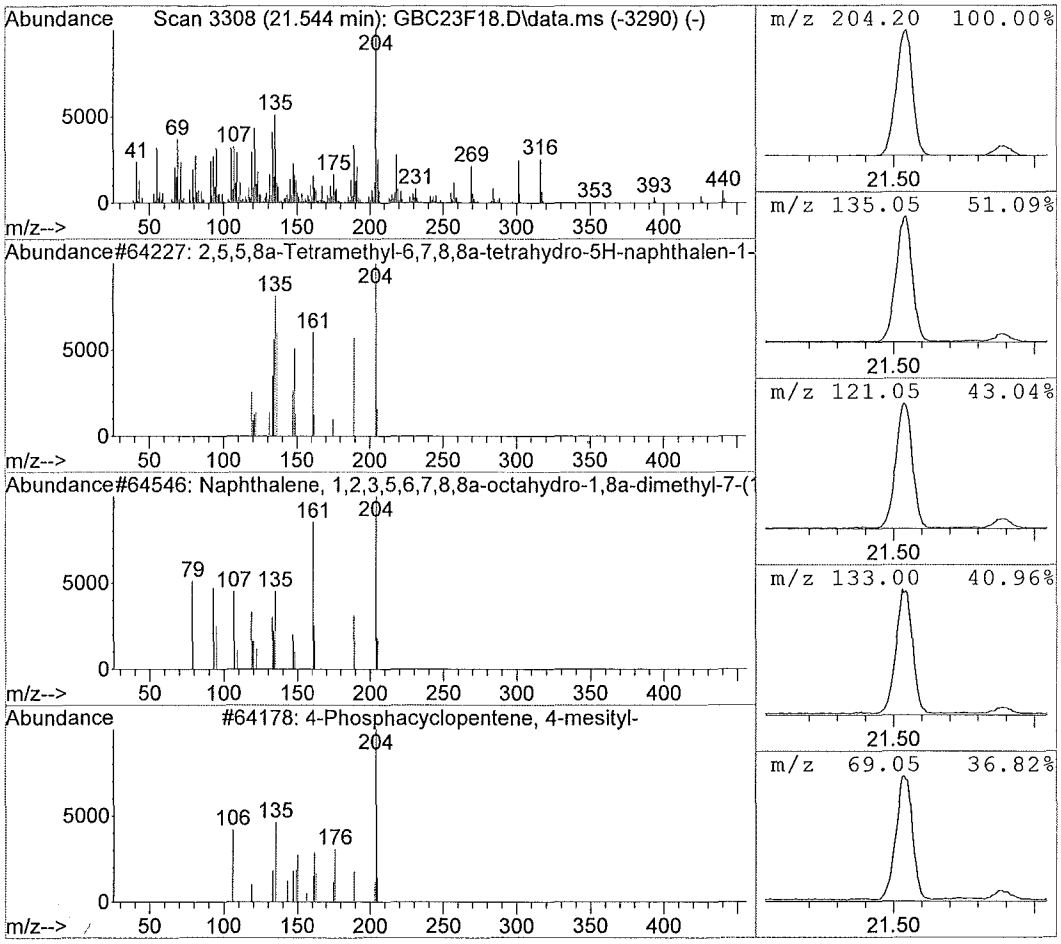
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.54	36.14 ug/ml	5737620	Perylene-d12	3175644

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	43.00
2	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	43.00
3	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
4	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	41.00
5	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	38.00

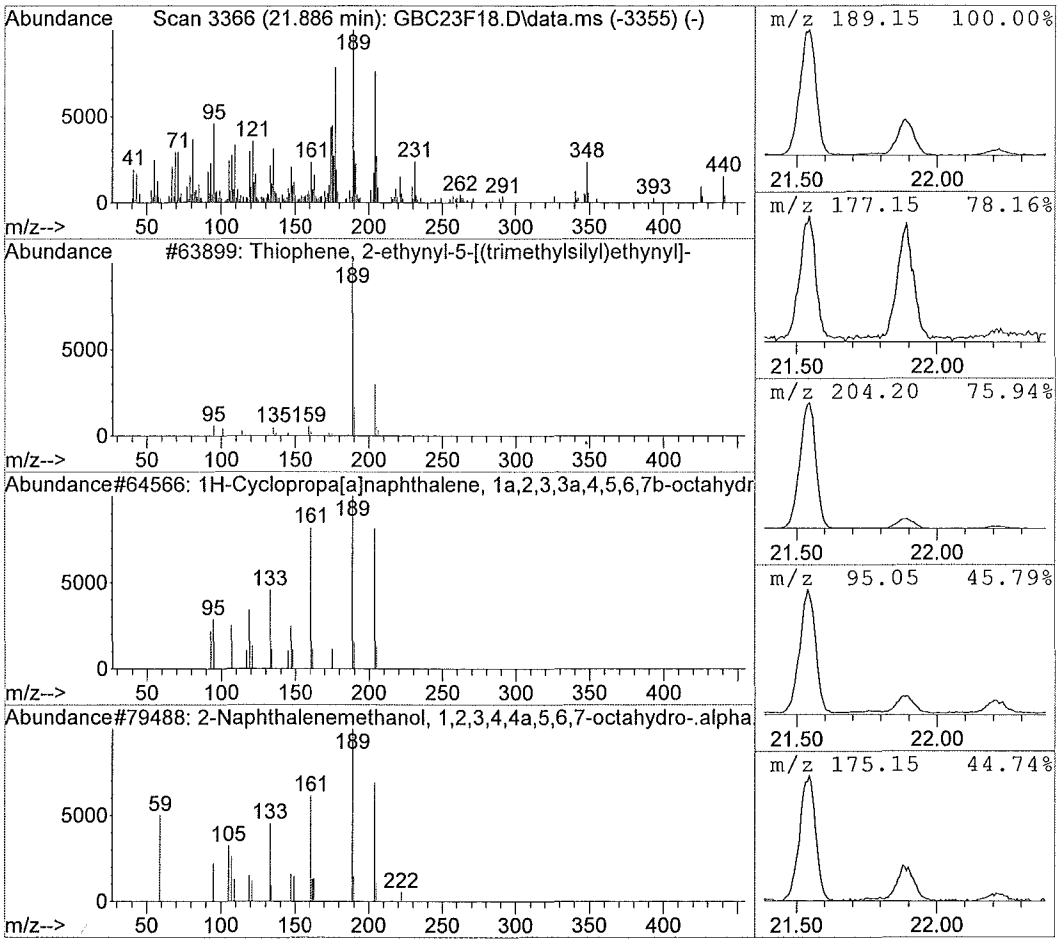


Data File : Z:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.89	3.74 ug/ml	594533	Perylene-d12	3175644

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Thiophene, 2-ethynyl-5-[(trimethyls	63899	182323-29-1	43.00
2	1H-Cyclopropa[a]naphthalene, 1a,2,3	64566	000489-29-2	41.00
3	2-Naphthalenemethanol, 1,2,3,4,4a,5	79488	001209-71-8	41.00
4	2-Isopropenyl-4a,8-dimethyl-1,2,3,4	64441	1000192-43-5	38.00
5	3H-1,2-Dithiole-3-thione, 5-tert-bu	64748	013120-76-8	30.00

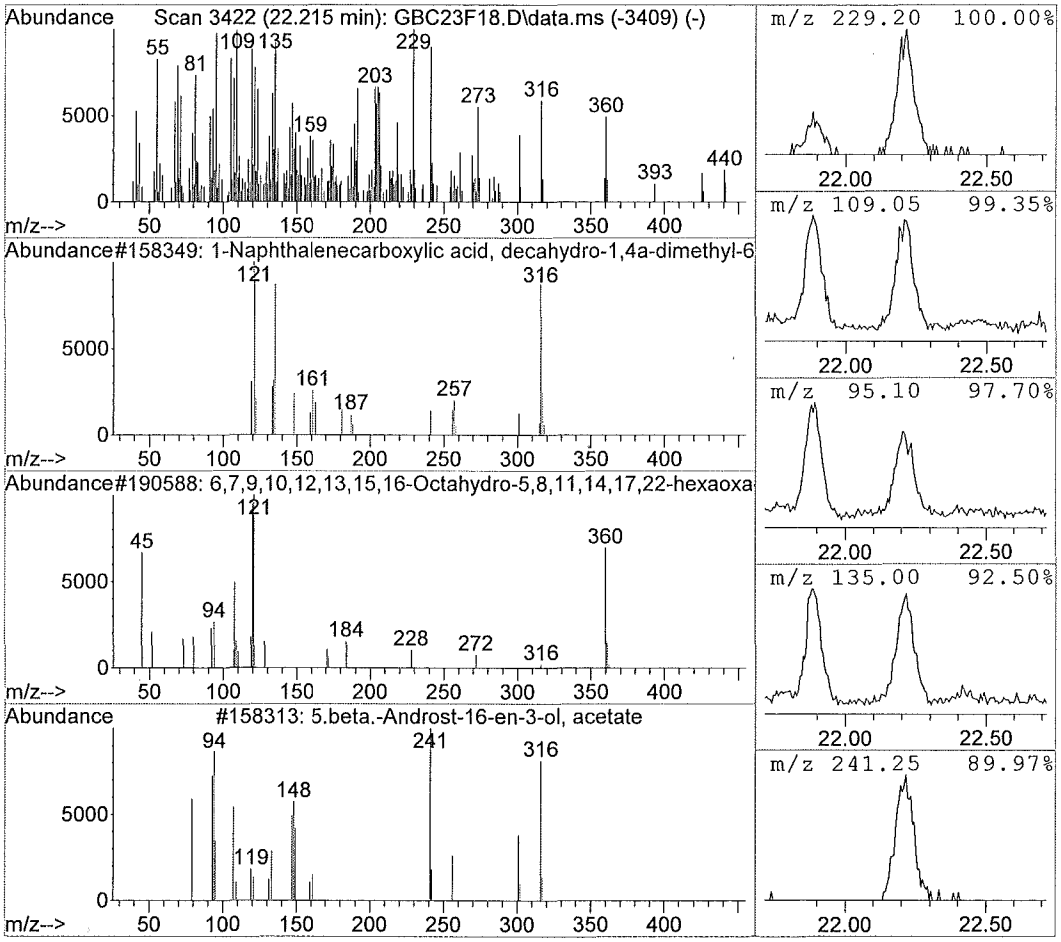


Data File : Z:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.21	3.25 ug/ml	516081	Perylene-d12	3175644

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Naphthalenecarboxylic acid, decah	158349	001235-39-8	49.00
2	6,7,9,10,12,13,15,16-Octahydro-5,8,	190588	1000317-91-4	44.00
3	5.beta.-Androst-16-en-3-ol, acetate	158313	1000196-50-8	35.00
4	1-Phenanthrenecarboxylic acid, 7-et	158363	001686-62-0	30.00
5	3-(2-Isopropyl-5-methylphenyl)-2-me	66133	022291-56-1	25.00



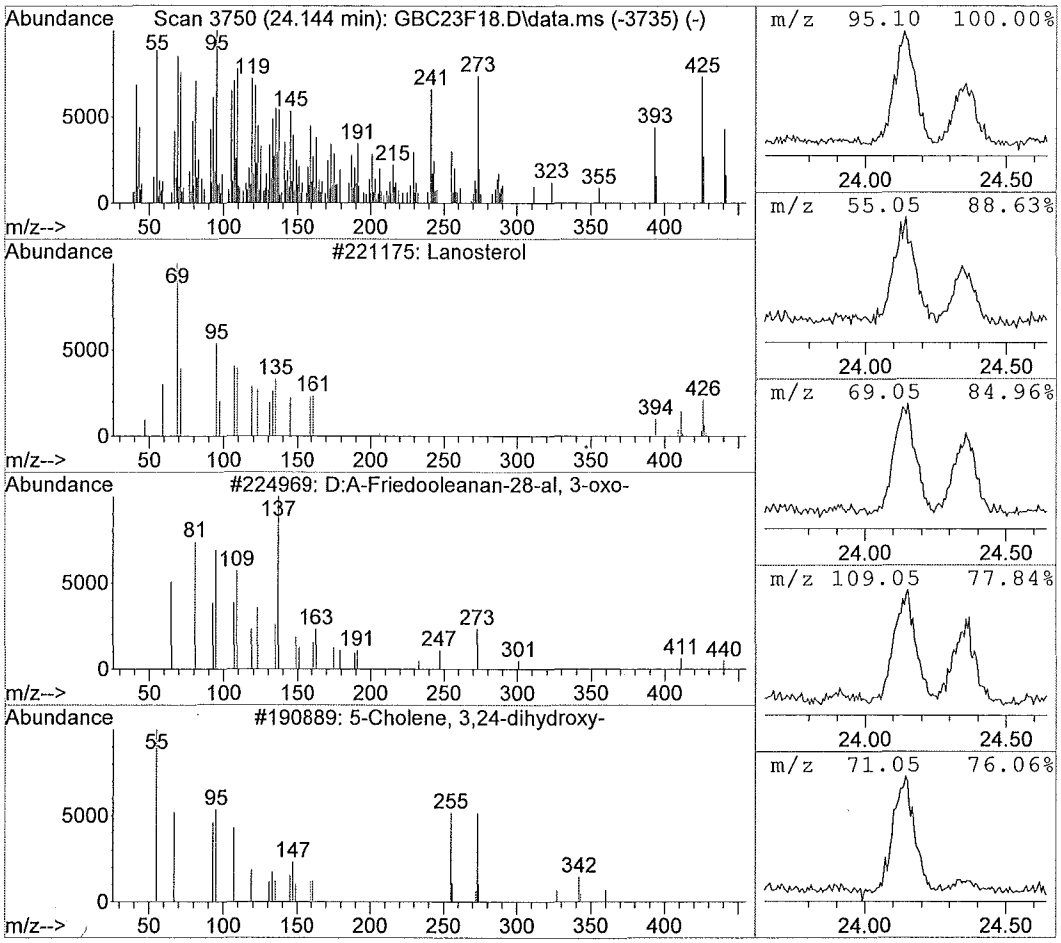
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.14	3.98 ug/ml	632676	Perylene-d12	3175644

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Lanosterol	221175	000079-63-0	59.00
2	D:A-Friedooleanan-28-al, 3-oxo-	224969	014440-40-5	30.00
3	5-Cholene, 3,24-dihydroxy-	190889	1000251-69-2	27.00
4	1,4-Bis-(2-furoyl)piperazine	122408	031350-27-3	25.00
5	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	18.00

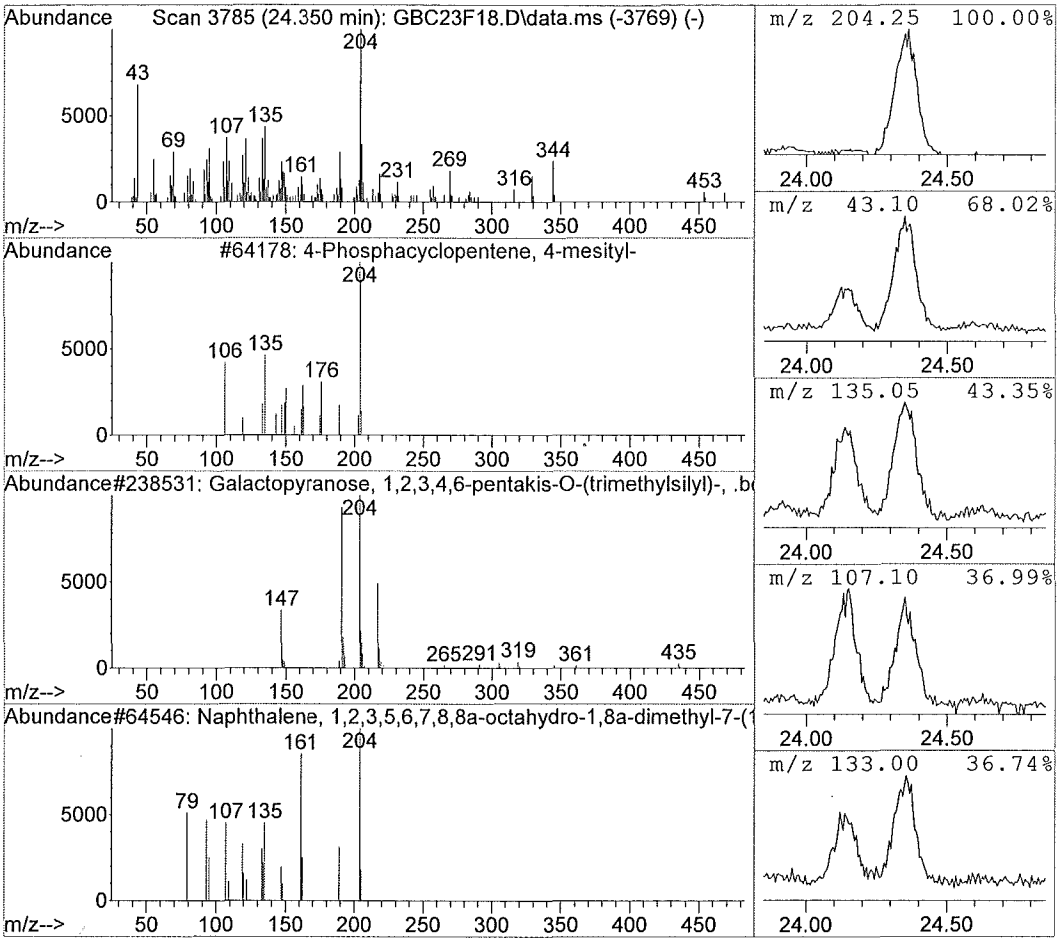


Data File : Z:\G\2015\JUN15\02JUN15\GBC23F18.D Vial: 19
Acq On : 06/03/2015 01:18 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.35	3.10 ug/ml	492335	Perylene-d12	3175644

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	58.00
2	Galactopyranose, 1,2,3,4,6-pentakis	238531	001769-00-2	53.00
3	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64546	004630-07-3	53.00
4	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	52.00
5	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	43.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L75

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293019

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC24F19

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L75

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293019

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC24F19

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L75

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293019
Sample wt/vol: 30.3 (g/mL) g Lab File ID: GBC24F19
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 13. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015
GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.12	380	JB
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	250	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.60	11000	J
04		Unknown 2-(2-Methoxyethoxy)ethyl acetate	4.16	130	J
05		Unknown 3-Hexene-2,5-dione	4.36	650	JB
06	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.46	80.	JN
07	112-39-0	Hexadecanoic acid, methyl ester	12.53	130	JN
08	638-58-4	Tetradecanamide	12.89	82.	JN
09	52380-33-3	11-Octadecenoic acid, methyl ester	13.80	120	JN
10	629-54-9	Hexadecanamide	14.25	230	JNB
11	301-02-0	9-Octadecenamide, (Z)-	15.17	1700	JNB
12		Unknown 9-Octadecenamide, (Z)-	16.04	83.	JB
13	112-84-5	13-Docosenamide, (Z)-	17.12	380	JN
14		Unknown D-Friedoolean-14-ene, 3-methoxy-, (3.bet	21.54	1600	J
15		Unknown 1,3a-Ethano-3aH-indene, 1,2,3,6,7,7a-hex	21.90	350	J
16		Unknown 1-Phenanthrenecarboxylic acid, 7-ethenyl	22.21	110	J
17		Unknown 1,6-Dihydropyridazine-3-carboxylic acid,	24.14	97.	J
18		Unknown 1,4-Dimethyl-8-isopropylidenetricyclo[5.	24.35	90.	J
19	1058-61-3	Stigmast-4-en-3-one	24.62	130	JN
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	540	J

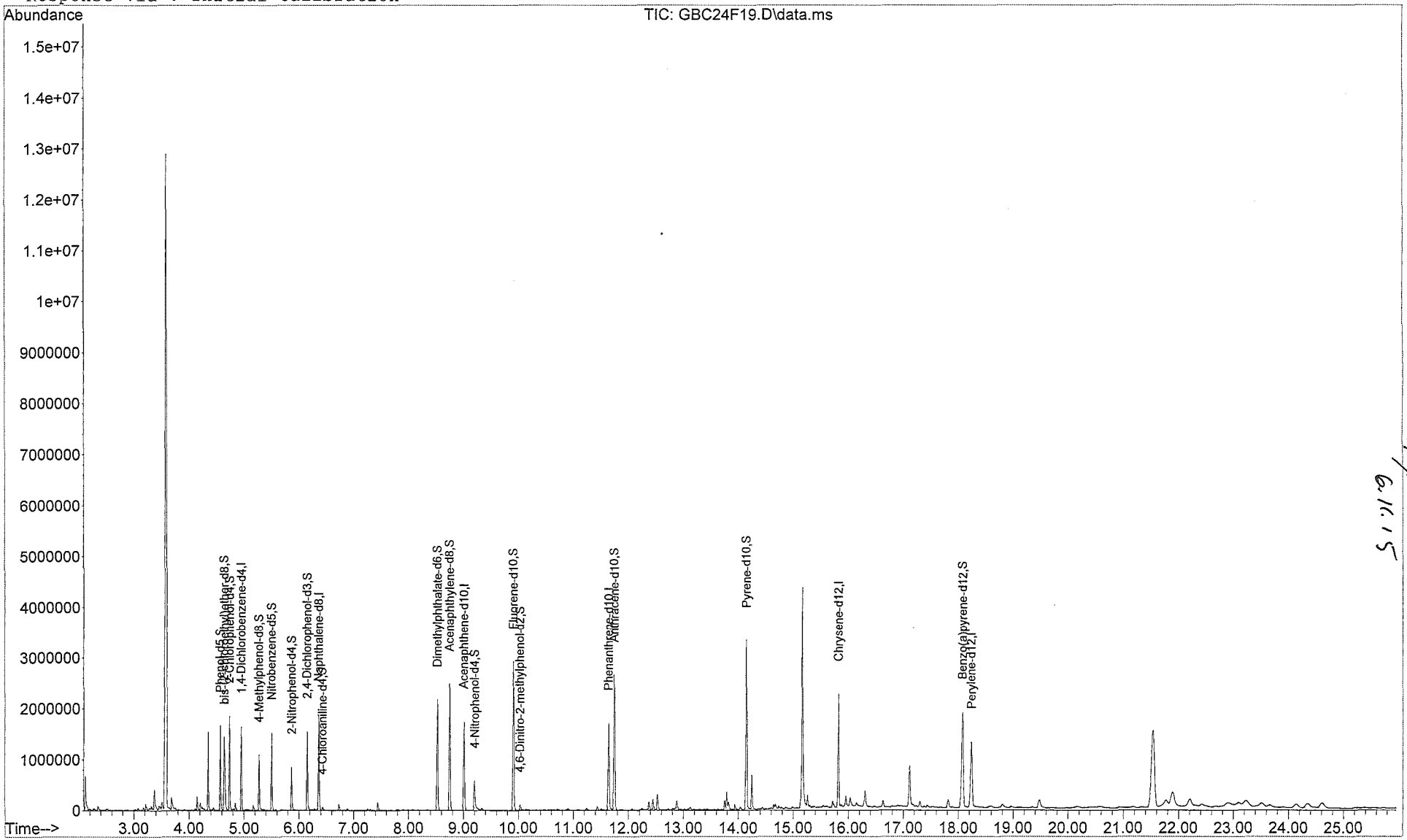
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 14:46:55 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:46:55 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	289869	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1083368	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	618008	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1016948	20.00 ug/ml
73) Chrysene-d12	15.83	240	982652	20.00 ug/ml
81) Perylene-d12	18.24	264	957185	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	618785	30.612ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	312947	25.285ug/mL
7) 2-Chlorophenol-d4	4.75	132	581251	29.287ug/ml
13) 4-Methylphenol-d8	5.28	113	272546	17.318ug/mL
17) Nitrobenzene-d5	5.51	128	280201	30.827ug/ml
21) 2-Nitrophenol-d4	5.87	143	224594	22.172ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	410676	27.675ug/mL
28) 4-Chloroaniline-d4	6.43	131	28863	1.793ug/mL
42) Dimethylphthalate-d6	8.53	166	1384030	36.824ug/mL
45) Acenaphthylene-d8	8.76	160	1626347	32.424ug/mL
50) 4-Nitrophenol-d4	9.21	143	211021	26.366ug/mL
57) Fluorene-d10	9.92	176	1166897	35.745ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	25336	3.793ug/mL
69) Anthracene-d10	11.75	188	1727181	33.575ug/mL
75) Pyrene-d10	14.16	212	1554237	34.791ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1407279	32.413ug/mL

Target Compounds			Qvalue
3) Benzaldehyde	0.00	77	Not Detected
4) Phenol	0.00	94	Not Detected
5) Bis(2-chloroethyl)ether	0.00	93	Not Detected
8) 2-Chlorophenol	0.00	128	Not Detected
9) 2-Methylphenol	0.00	108	Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45	Not Detected
11) Acetophenone	0.00	105	Not Detected
12) 4-methylphenol	0.00	108	Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70	Not Detected
15) Hexachloroethane	0.00	117	Not Detected
18) Nitrobenzene	0.00	77	Not Detected
19) Isophorone	0.00	82	Not Detected
20) 2-Nitrophenol	0.00	139	Not Detected
22) 2,4-Dimethylphenol	0.00	107	Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93	Not Detected
24) 2,4-Dichlorophenol	0.00	162	Not Detected
26) Naphthalene	0.00	128	Not Detected
27) 4-Chloroaniline	0.00	127	Not Detected
29) Hexachlorobutadiene	0.00	225	Not Detected
30) Caprolactam	0.00	113	Not Detected
31) 4-Chloro-3-methylphenol	0.00	107	Not Detected
32) 2-Methylnaphthalene	0.00	142	Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216	Not Detected
35) Hexachlorocyclopentadiene	0.00	237	Not Detected
36) 2,4,6-Trichlorophenol	0.00	196	Not Detected
37) 2,4,5-Trichlorophenol	0.00	196	Not Detected
38) 1,1'-Biphenyl	0.00	154	Not Detected
39) 2-Chloronaphthalene	0.00	162	Not Detected
40) 2-Nitroaniline	0.00	65	Not Detected
41) Dimethylphthalate	0.00	163	Not Detected
43) 2,6-Dinitrotoluene	0.00	165	Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:46:55 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

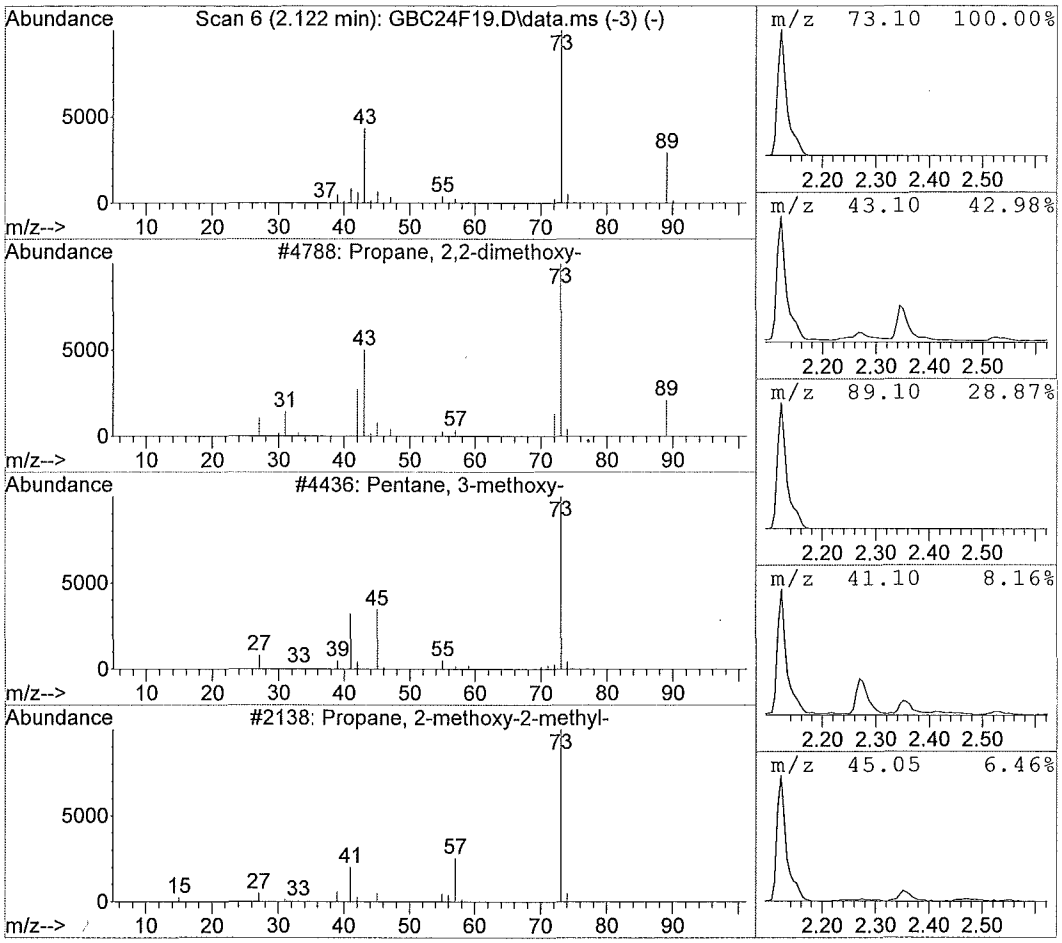
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	9.88 ug/ml	795806	1,4-Dichlorobenzene-d4	1610842

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	38.00
2	Pentane, 3-methoxy-	4436	036839-67-5	25.00
3	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
4	Methane, isothiocyanato-	716	000556-61-6	7.00
5	N-Ethylformamide	734	000627-45-2	5.00

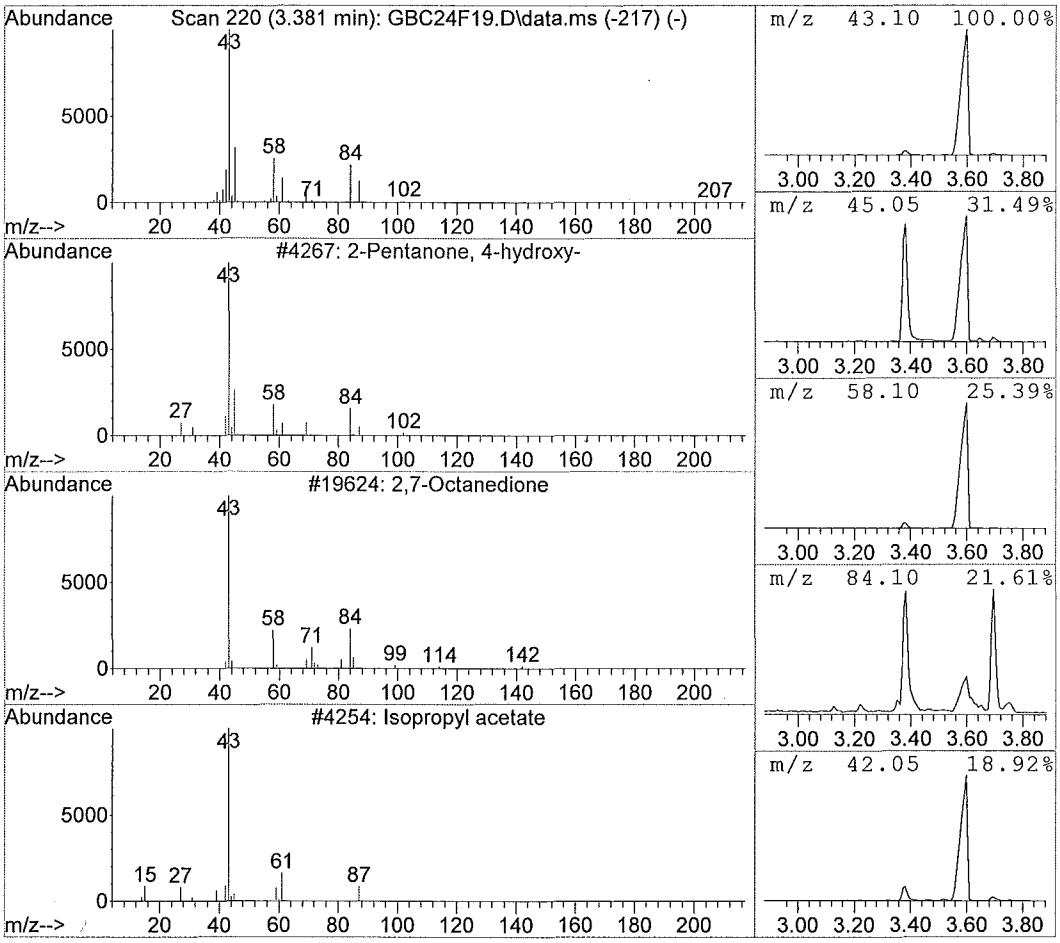


Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	6.56 ug/ml	528008	1,4-Dichlorobenzene-d4	1610842

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	64.00
2	2,7-Octanedione	19624	001626-09-1	25.00
3	Isopropyl acetate	4254	000108-21-4	12.00
4	2-Butanone, 4-hydroxy-3-methyl-	4328	003393-64-4	9.00
5	Acetone	214	000067-64-1	9.00

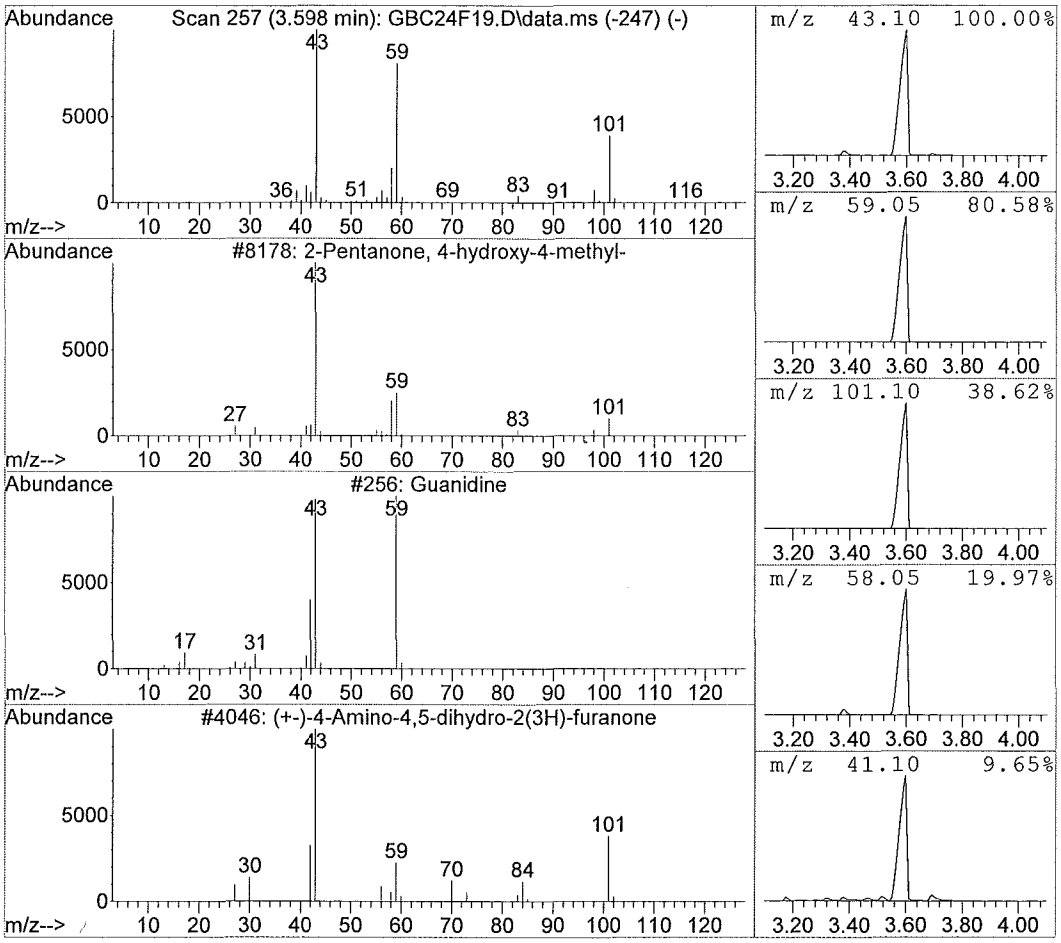


Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.60	285.61 ug/ml	23003667	1,4-Dichlorobenzene-d4	1610842

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	50.00
2	Guanidine	256	000113-00-8	43.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	35.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	Propanamide, N-ethyl-	4082	005129-72-6	10.00



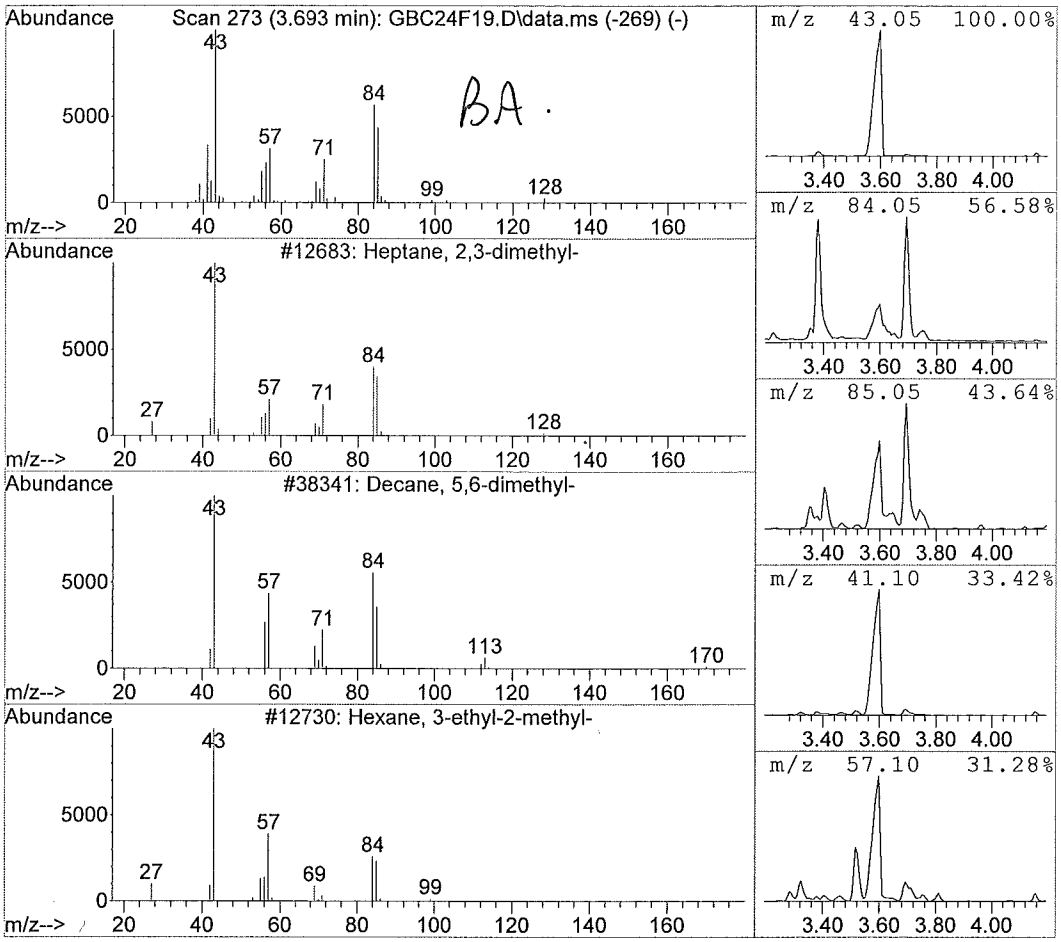
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	4.27 ug/ml	343898	1,4-Dichlorobenzene-d4	1610842

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	87.00
2	Decane, 5,6-dimethyl-	38341	001636-43-7	64.00
3	Hexane, 3-ethyl-2-methyl-	12730	016789-46-1	64.00
4	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	64.00
5	Hexane, 2,3,4-trimethyl-	12714	000921-47-1	59.00

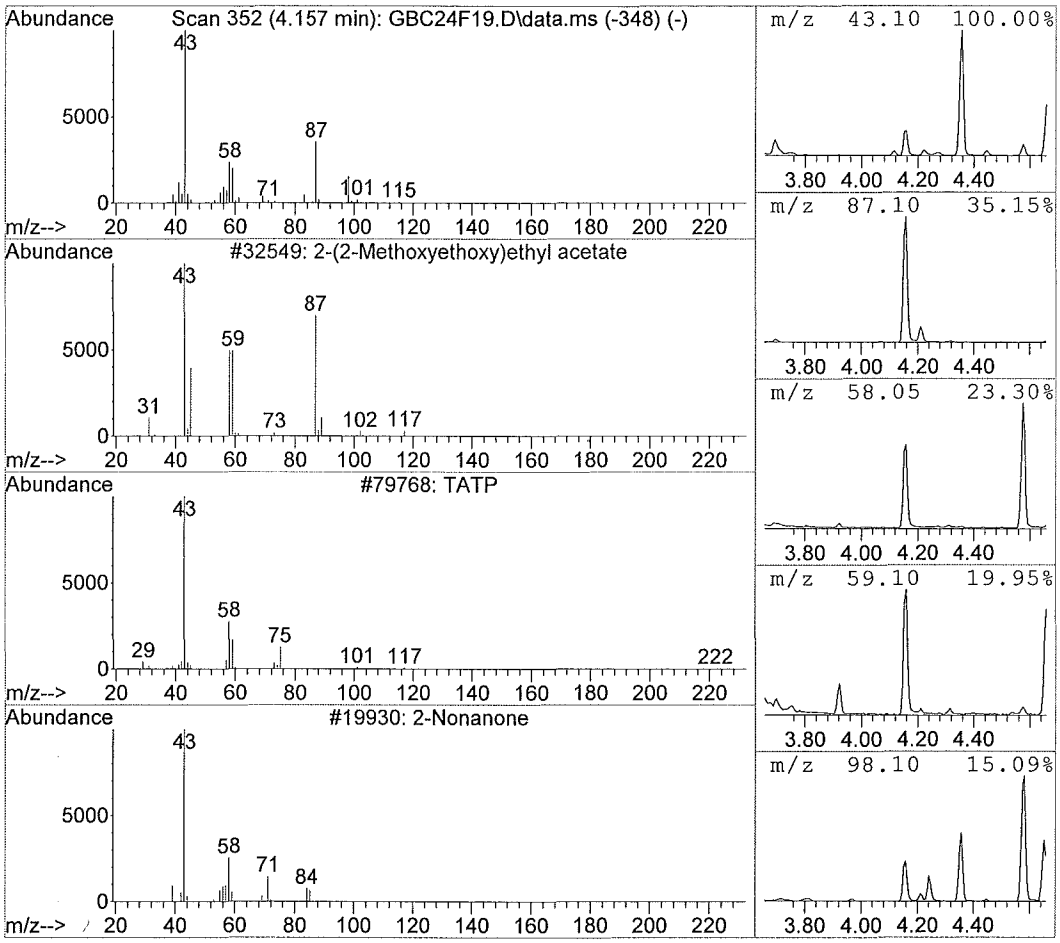


Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.16	3.38 ug/ml	272571	1,4-Dichlorobenzene-d4	1610842

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-(2-Methoxyethoxy)ethyl acetate	32549	1000351-95-4	53.00
2	TATP	79768	017088-37-8	38.00
3	2-Nonanone	19930	000821-55-6	35.00
4	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	28.00
5	2-Hexanone, 4-hydroxy-5-methyl-	13495	038836-21-4	17.00

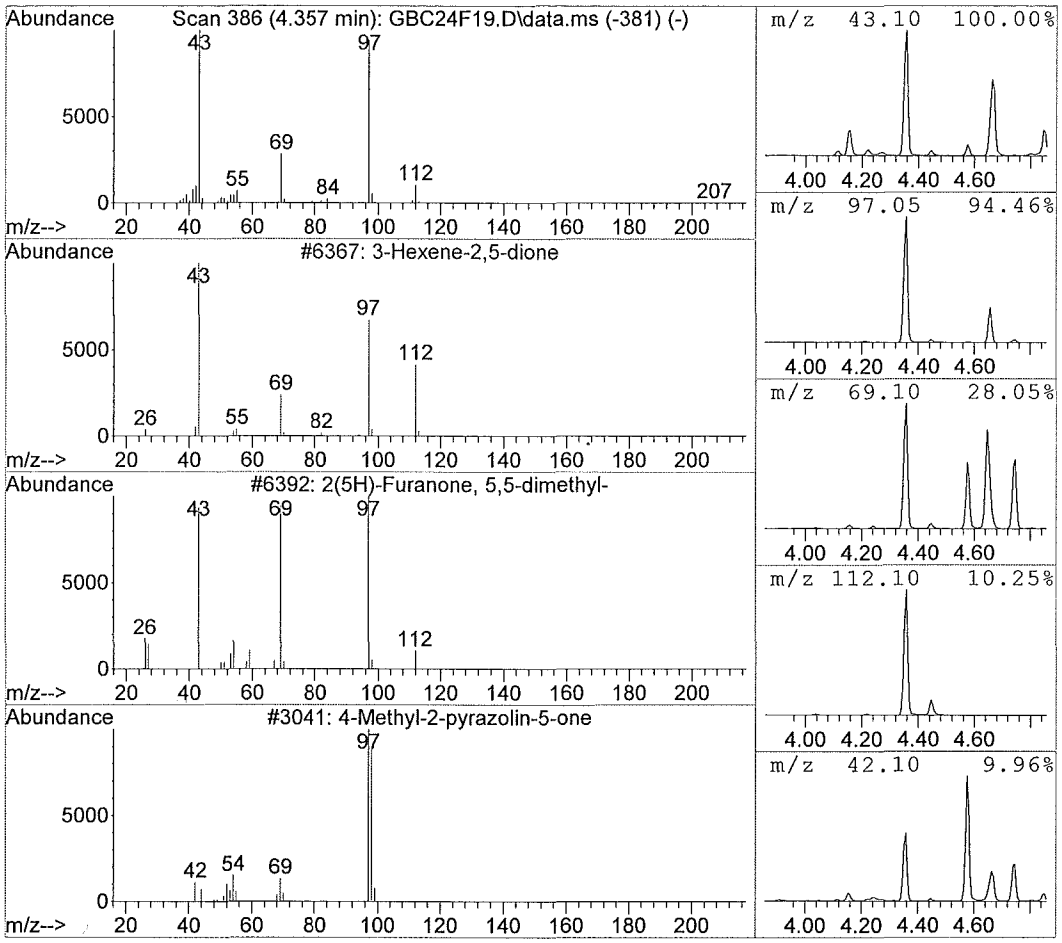


Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.36	17.14 ug/ml	1380887	1,4-Dichlorobenzene-d4	1610842

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	78.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
3	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	36.00
4	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	10.00
5	1-(Trimethylsilyl)-1-propyne	6337	006224-91-5	9.00



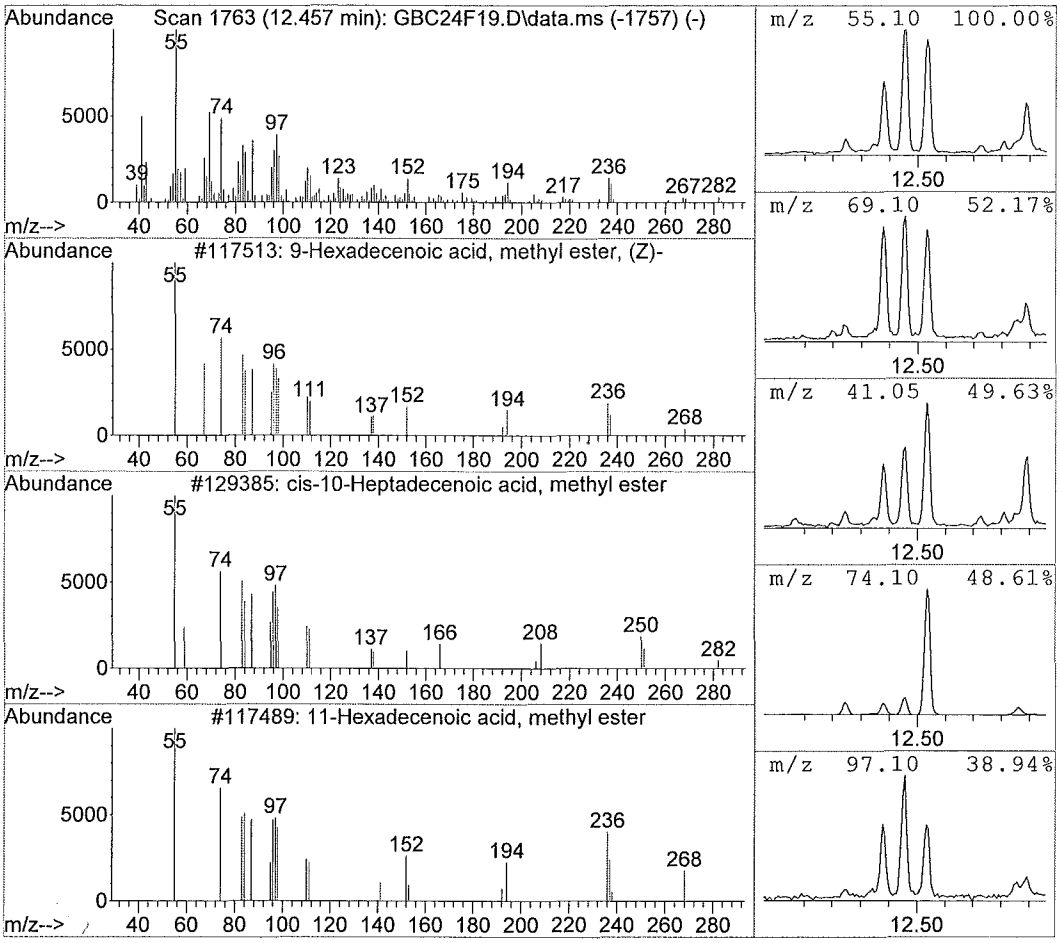
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.46	2.10 ug/ml	272774	Phenanthrene-d10	2603452

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117513	001120-25-8	99.00
2	cis-10-Heptadecenoic acid, methyl e	129385	1000333-62-1	95.00
3	11-Hexadecenoic acid, methyl ester	117489	055000-42-5	91.00
4	7-Hexadecenoic acid, methyl ester,	117506	056875-67-3	91.00
5	Methyl hexadec-9-enoate	117464	010030-74-7	90.00



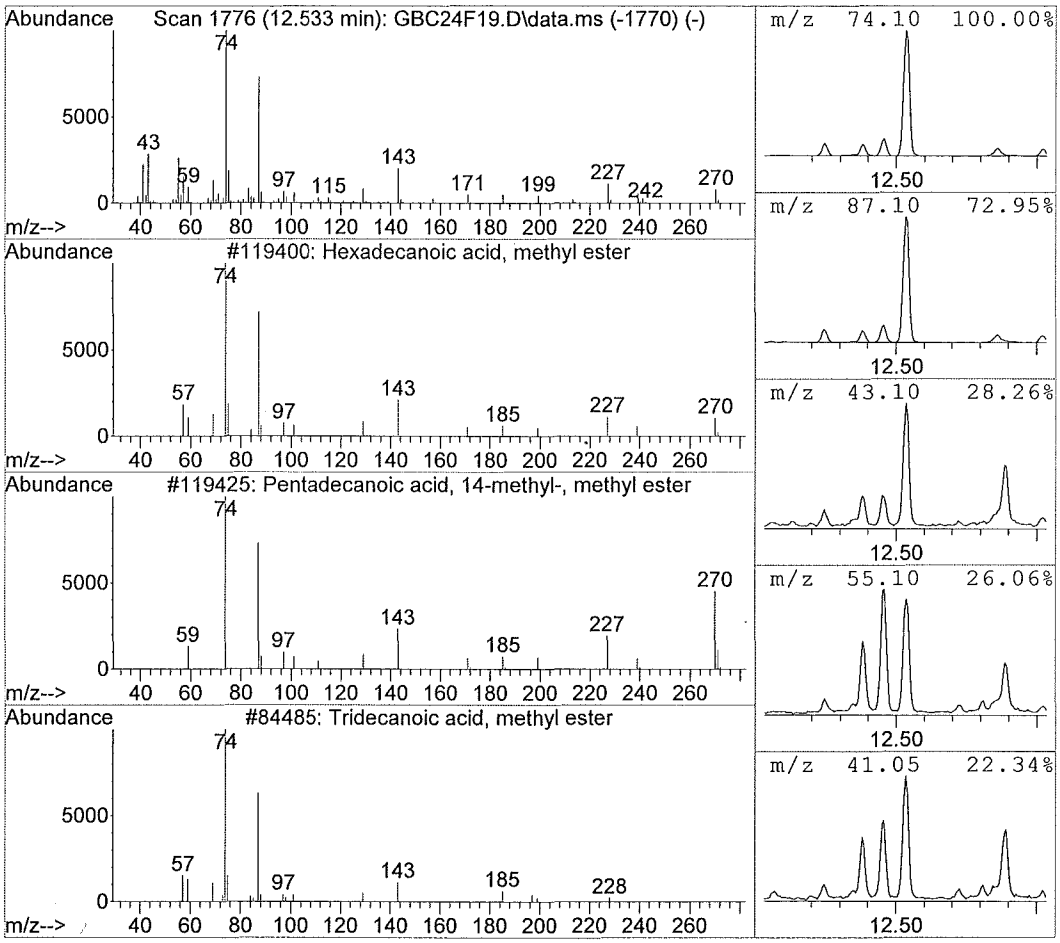
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.53	3.48 ug/ml	452630	Phenanthrene-d10	2603452

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119400	000112-39-0	99.00
2	Pentadecanoic acid, 14-methyl-, met	119425	005129-60-2	96.00
3	Tridecanoic acid, methyl ester	84485	001731-88-0	86.00
4	Pentadecanoic acid, methyl ester	107593	007132-64-1	86.00
5	Hexadecanoic acid, 2-methyl-	119390	027147-71-3	83.00



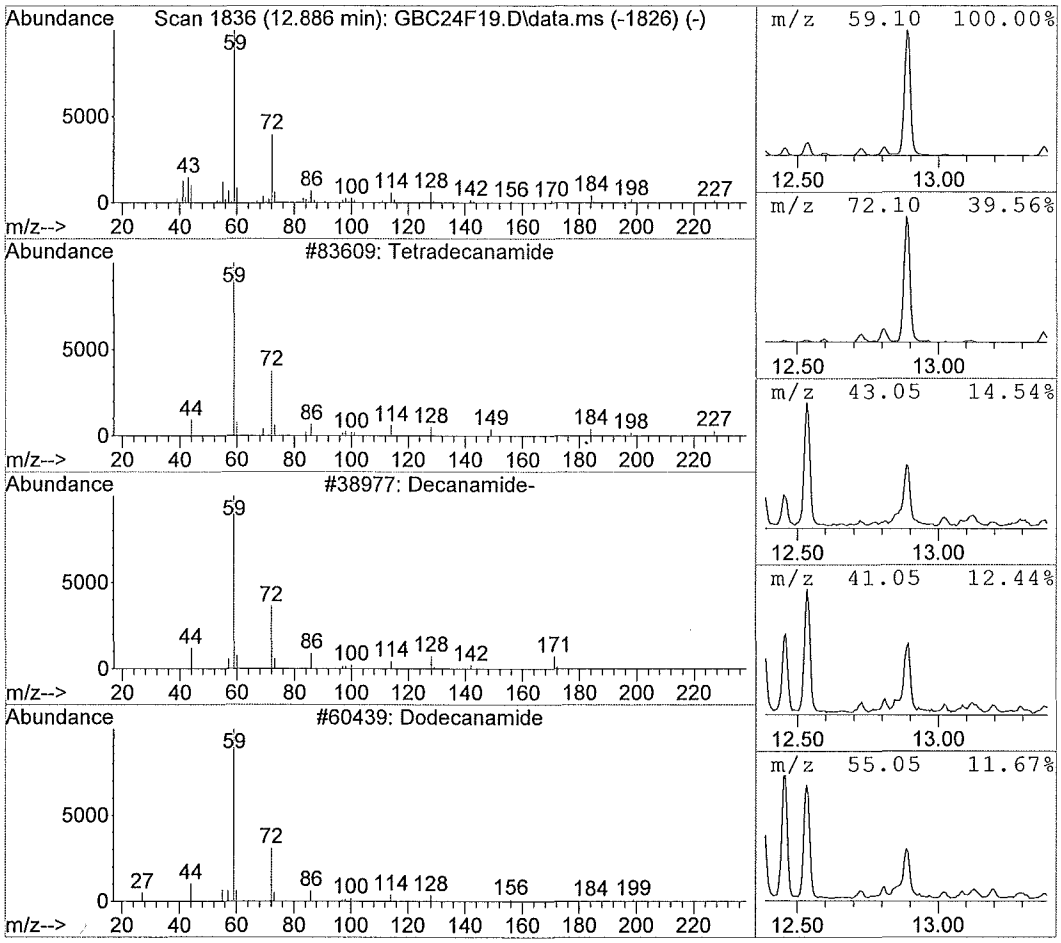
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.89	2.17 ug/ml	282582	Phenanthrene-d10	2603452

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83609	000638-58-4	94.00
2	Decanamide-	38977	002319-29-1	91.00
3	Dodecanamide	60439	001120-16-7	90.00
4	Hexadecanamide	106565	000629-54-9	87.00
5	Nonanamide	29478	001120-07-6	72.00

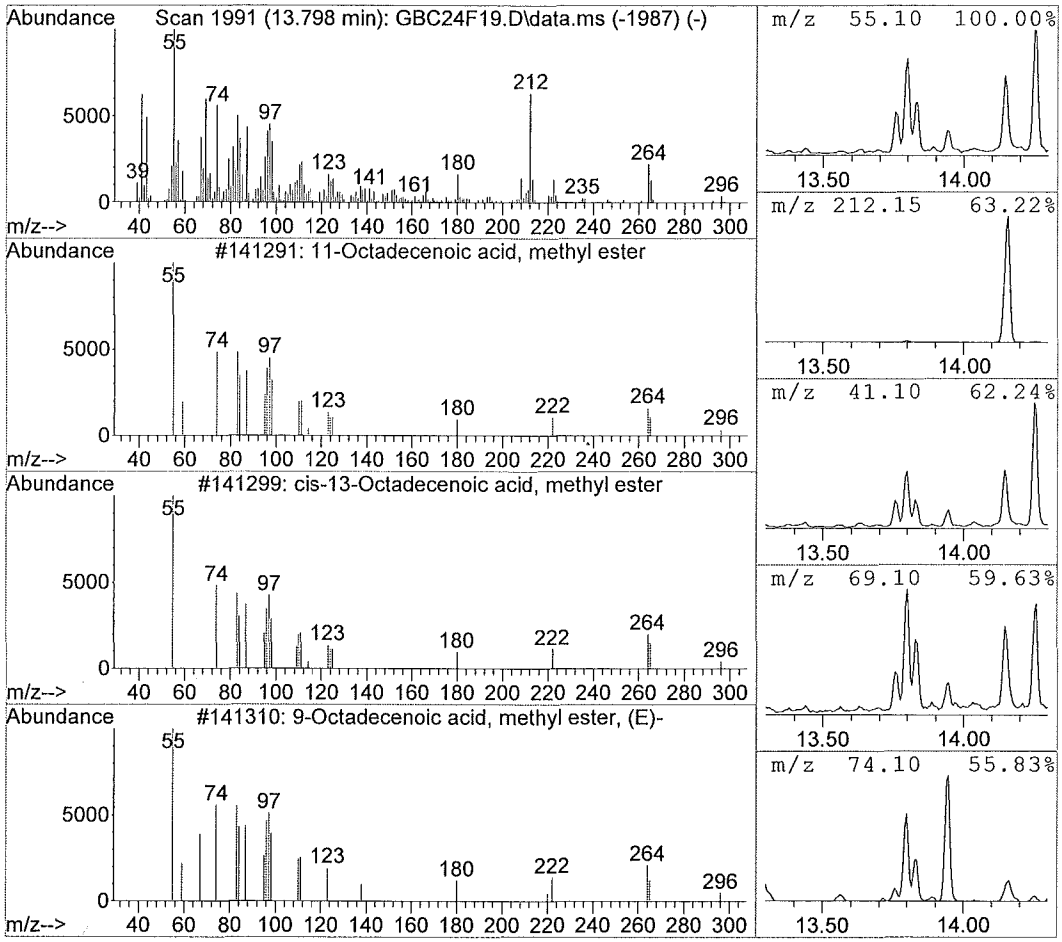


Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.80	3.19 ug/ml	445724	Chrysene-d12	2793416

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	11-Octadecenoic acid, methyl ester	141291	052380-33-3	99.00
2	cis-13-Octadecenoic acid, methyl es	141299	1000333-58-3	99.00
3	9-Octadecenoic acid, methyl ester,	141310	001937-62-8	99.00
4	9-Octadecenoic acid (Z)-, methyl es	141300	000112-62-9	99.00
5	8-Octadecenoic acid, methyl ester,	141305	026528-50-7	99.00

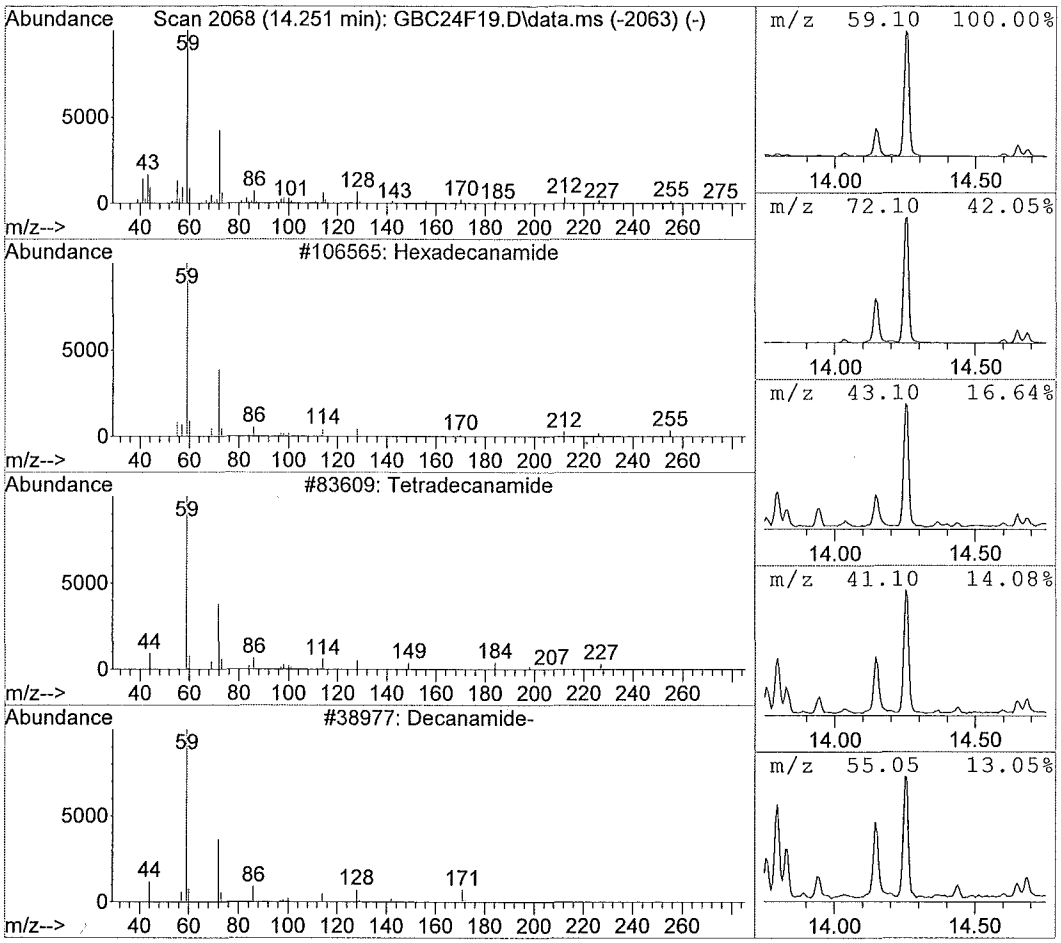


Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.25	6.01 ug/ml	838738	Chrysene-d12	2793416

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	96.00
2	Tetradecanamide	83609	000638-58-4	90.00
3	Decanamide-	38977	002319-29-1	87.00
4	Octanamide	20317	000629-01-6	72.00
5	9-Octadecenamide, (Z)-	128445	000301-02-0	64.00

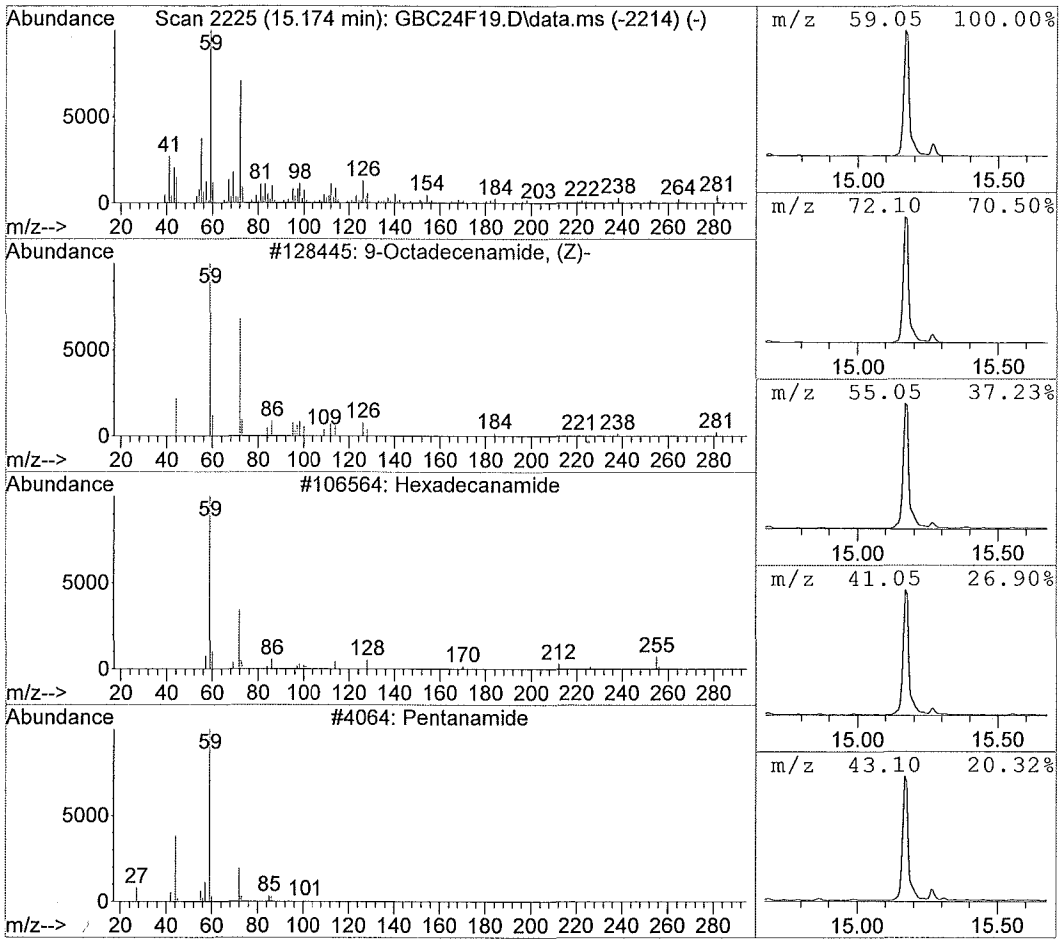


Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	44.87 ug/ml	6267173	Chrysene-d12	2793416

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	98.00
2	Hexadecanamide	106564	000629-54-9	56.00
3	Pentanamide	4064	000626-97-1	53.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	53.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	50.00



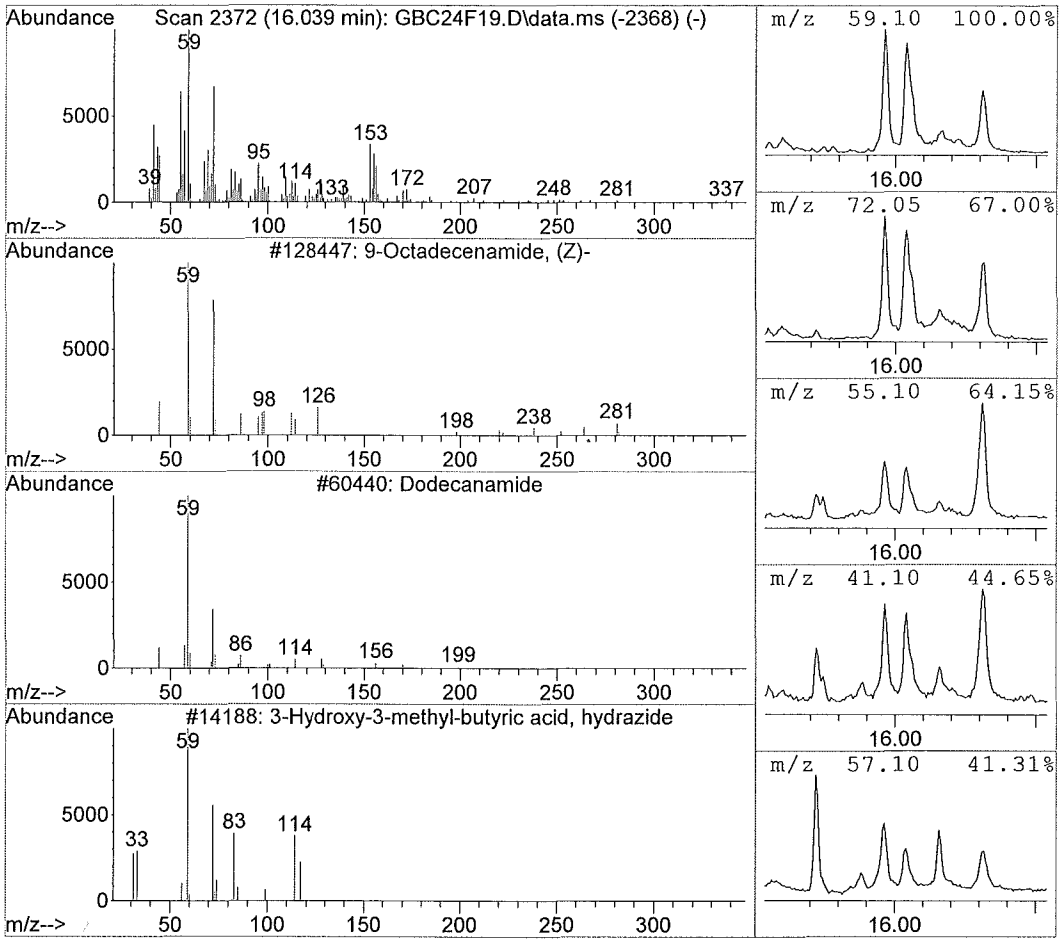
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.04	2.19 ug/ml	306434	Chrysene-d12	2793416

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128447	000301-02-0	55.00
2	Dodecanamide	60440	001120-16-7	47.00
3	3-Hydroxy-3-methyl-butyric acid, hy	14188	1000193-80-2	43.00
4	Tetradecanamide	83610	000638-58-4	43.00
5	7-Nonenamide	28131	090949-53-4	43.00



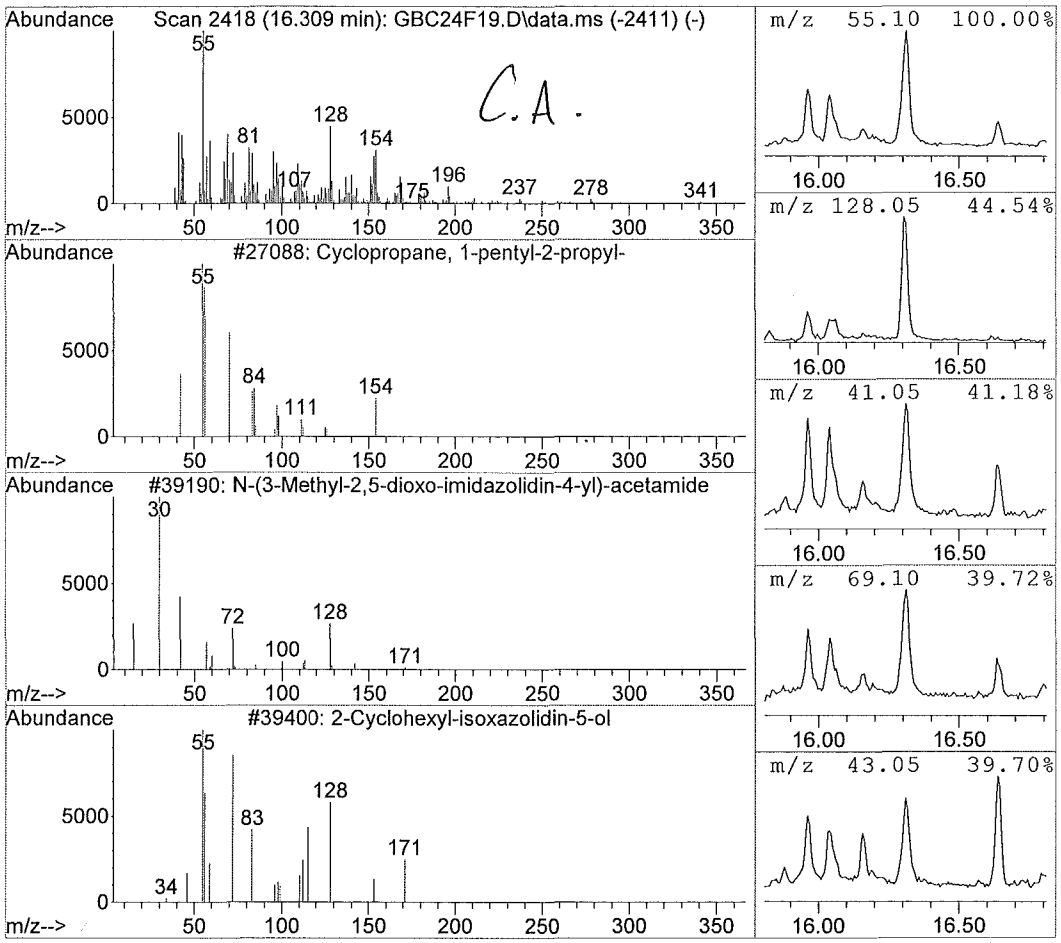
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	4.03 ug/ml	563185	Chrysene-d12	2793416

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclopropane, 1-pentyl-2-propyl-	27088	041977-33-7	25.00
2	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	18.00
3	2-Cyclohexyl-isoxazolidin-5-ol	39400	052400-49-4	12.00
4	5-Undecene	27019	004941-53-1	11.00
5	Cyclododecanone, 2-methyl-	58195	016837-94-8	11.00



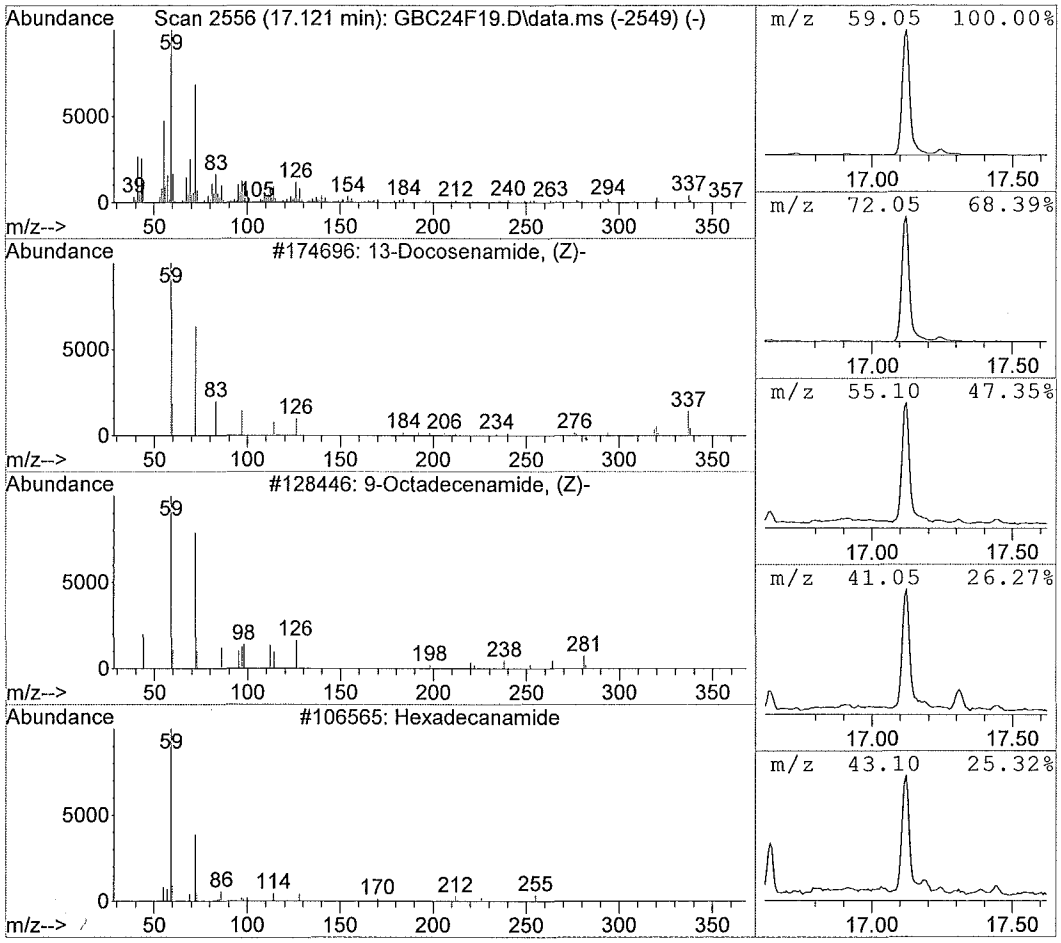
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.12	10.12 ug/ml	1447818	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128446	000301-02-0	70.00
3	Hexadecanamide	106565	000629-54-9	59.00
4	Tetradecanamide	83610	000638-58-4	53.00
5	2-Hydroxy-2,4-dimethyl-hept-6-en-3-	29069	1000192-56-0	35.00



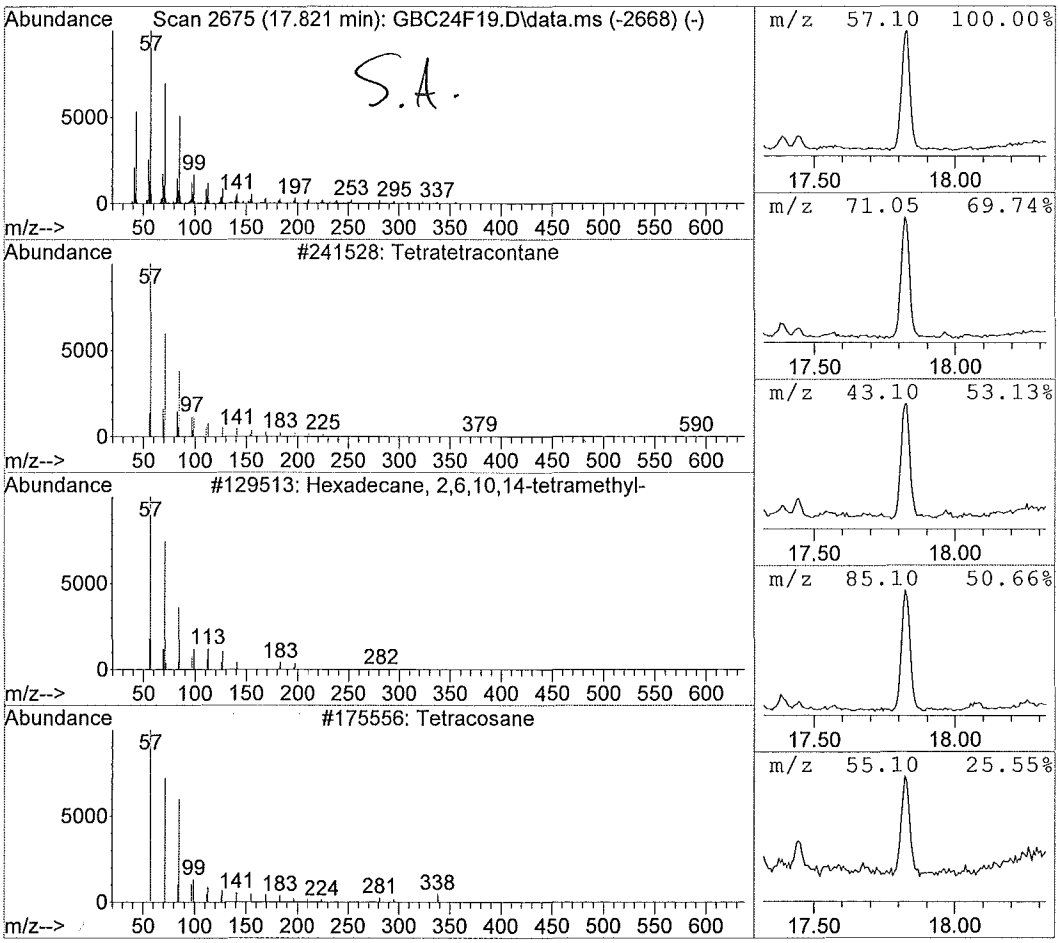
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.82	2.25 ug/ml	321983	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetratetracontane	241528	007098-22-8	93.00
2	Hexadecane, 2,6,10,14-tetramethyl-	129513	000638-36-8	92.00
3	Tetracosane	175556	000646-31-1	91.00
4	Hexacosane	194493	000630-01-3	90.00
5	2-methyloctacosane	215181	1000376-72-8	90.00



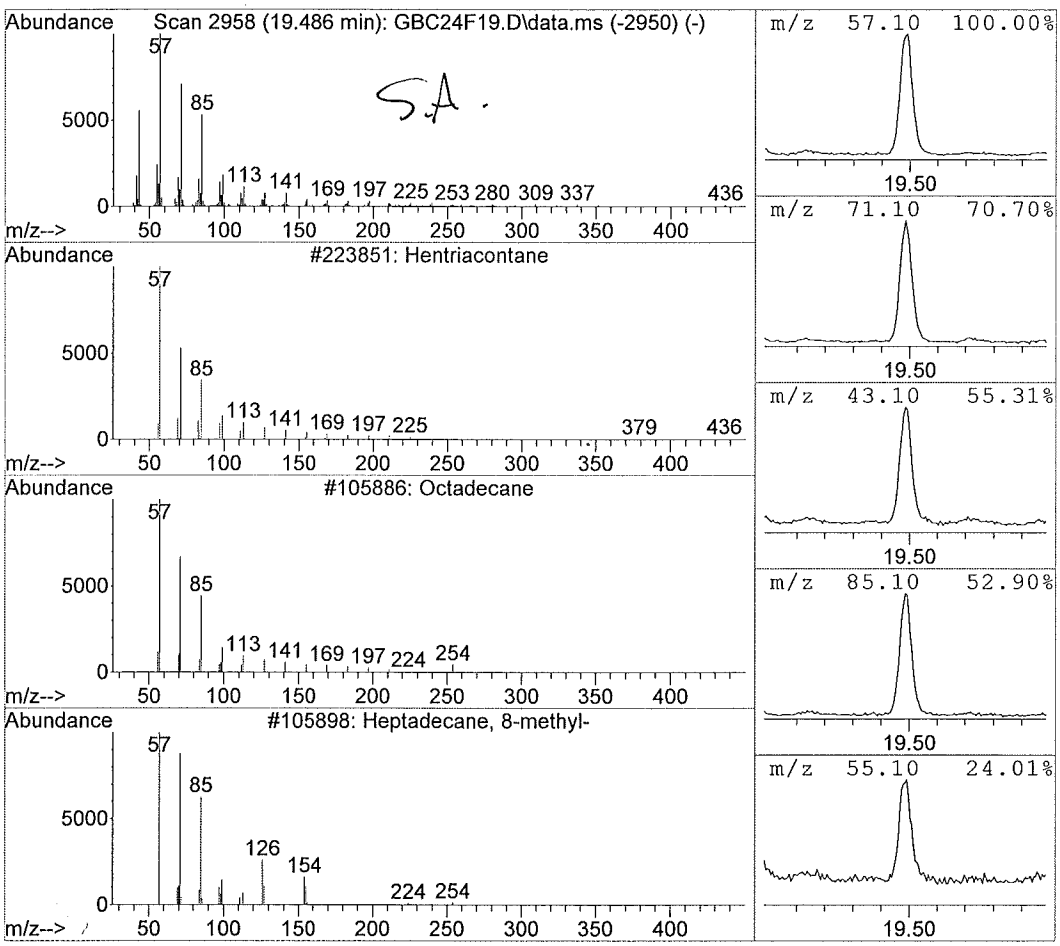
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.49	3.71 ug/ml	531179	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hentriacontane	223851	000630-04-6	98.00
2	Octadecane	105886	000593-45-3	96.00
3	Heptadecane, 8-methyl-	105898	013287-23-5	93.00
4	Tetracosane	175558	000646-31-1	91.00
5	Heptacosane	202661	000593-49-7	90.00

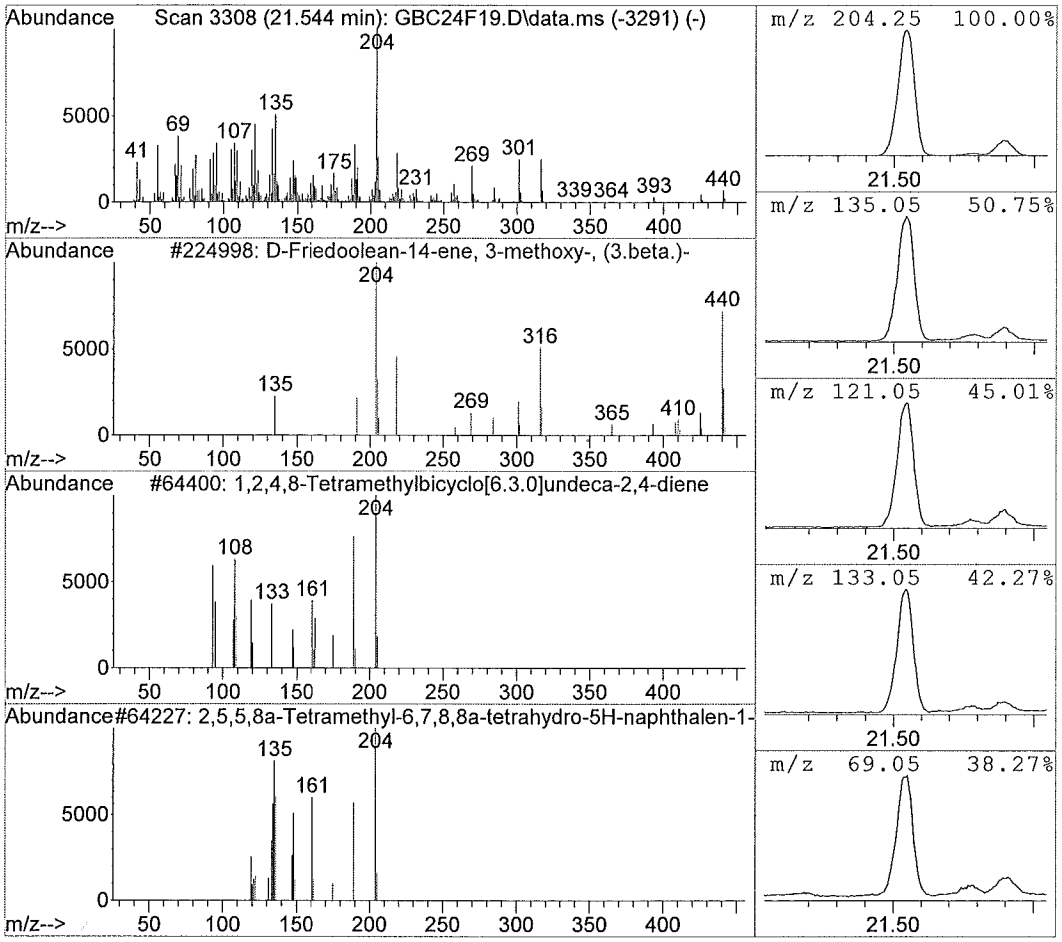


Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.54	43.03 ug/ml	6157069	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D-Friedoolean-14-ene, 3-methoxy-, (	224998	014021-23-9	66.00
2	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	46.00
3	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	45.00
4	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
5	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	41.00



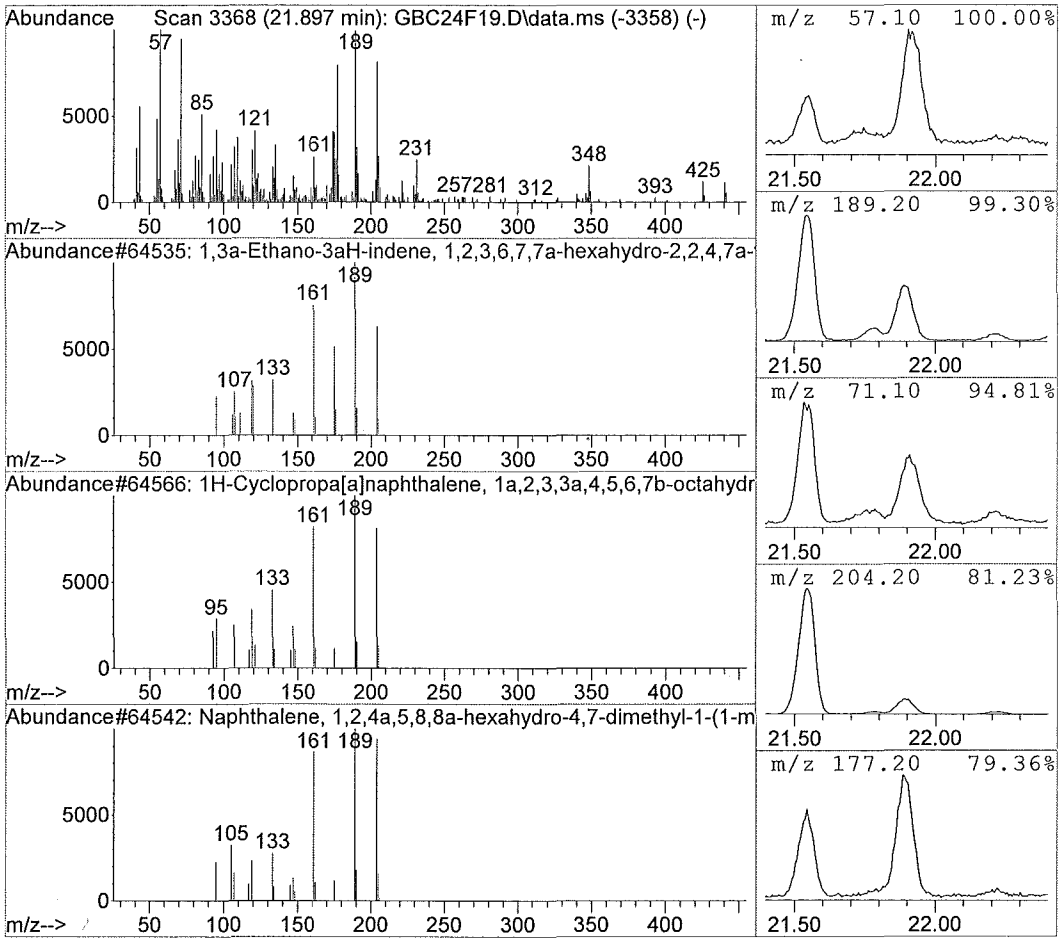
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.90	9.13 ug/ml	1306689	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3a-Ethano-3aH-indene, 1,2,3,6,7,7	64535	004545-68-0	70.00
2	1H-Cyclopropa[a]naphthalene, 1a,2,3	64566	000489-29-2	30.00
3	Naphthalene, 1,2,4a,5,8,8a-hexahydr	64542	005951-61-1	30.00
4	2-Acetyl-3,5-dimethylbenzo(b)thioph	63987	006179-05-1	25.00
5	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	25.00

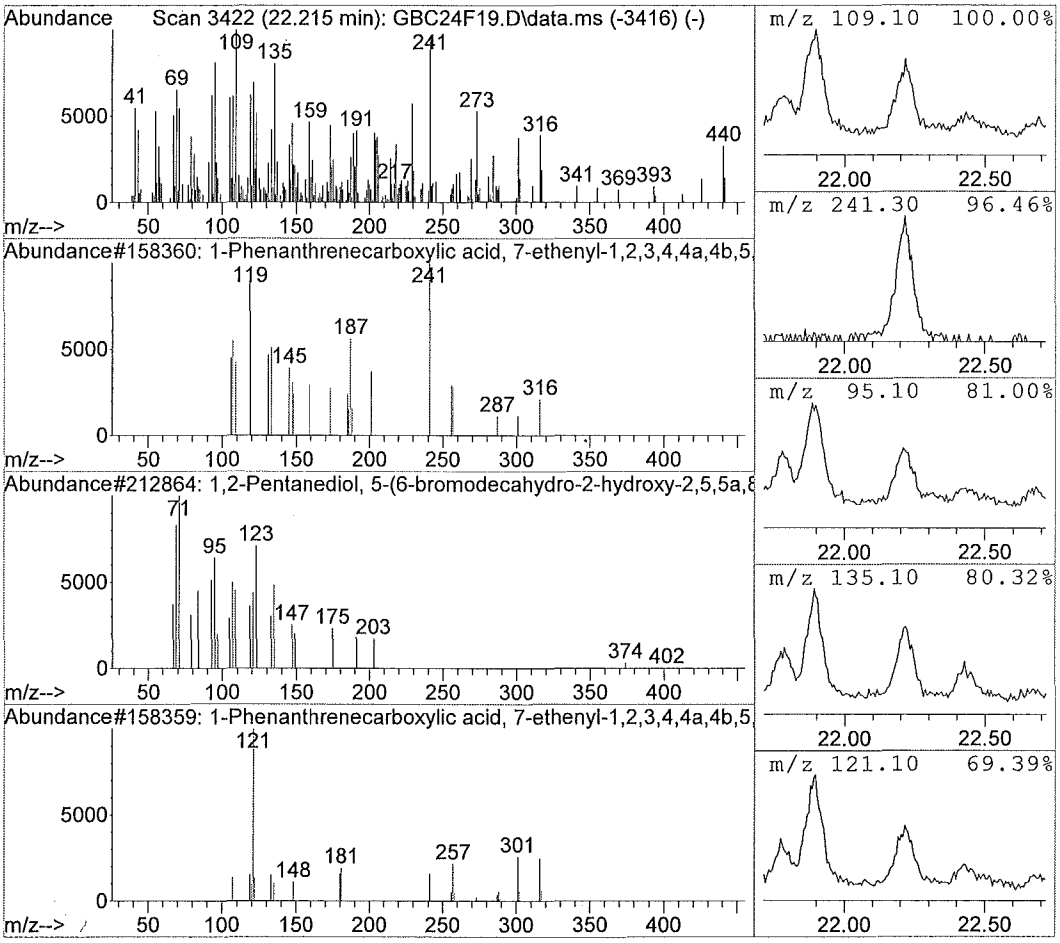


Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.21	2.94 ug/ml	421236	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Phenanthrenecarboxylic acid, 7-et	158360	001686-62-0	22.00
2	1,2-Pentanediol, 5-(6-bromodecahydr	212864	115346-29-7	16.00
3	1-Phenanthrenecarboxylic acid, 7-et	158359	001686-54-0	15.00
4	9,19-Cyclolanost-25-en-3-ol, 24-met	225002	000511-61-5	14.00
5	4-Methoxy-N-[2-(2-methyl-5-trifluor	208444	1000275-57-9	12.00

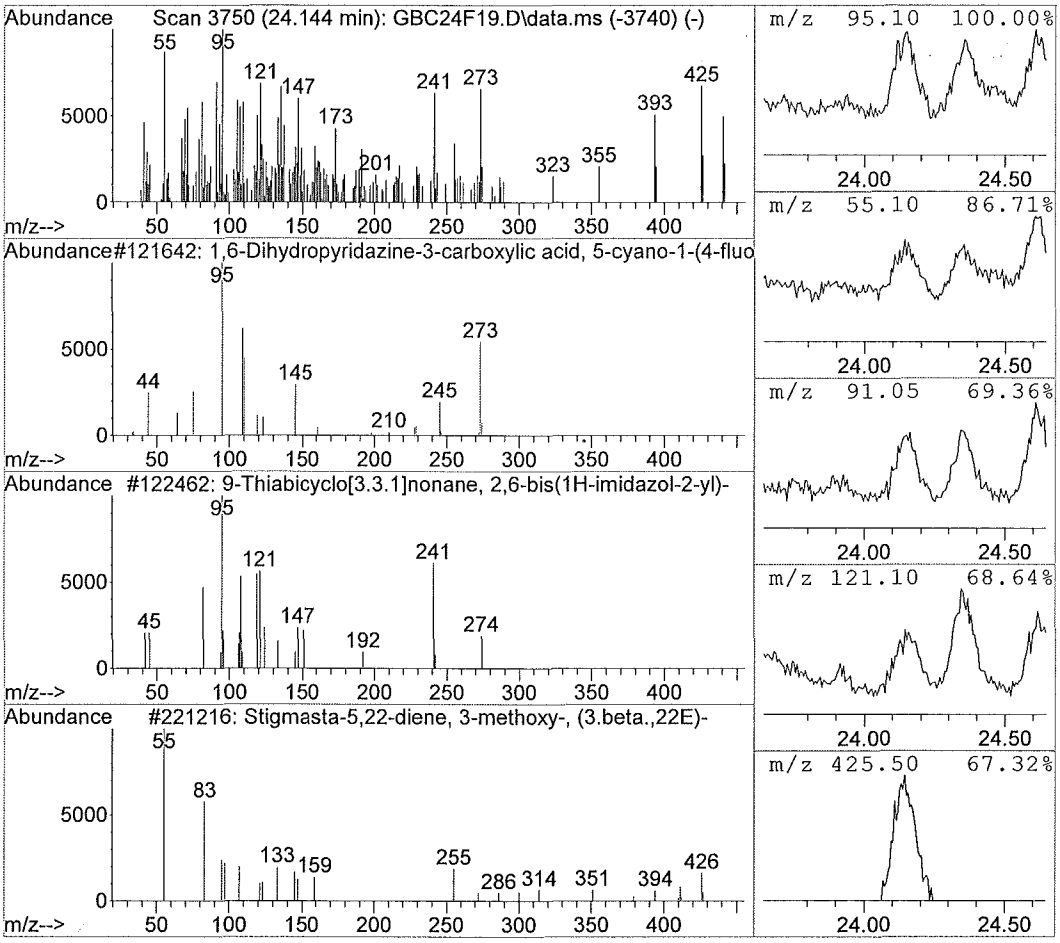


Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.14	2.57 ug/ml	367240	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,6-Dihydropyridazine-3-carboxylic	121642	1000304-05-0	22.00
2	9-Thiabicyclo[3.3.1]nonane, 2,6-bis	122462	1000141-52-1	20.00
3	Stigmasta-5,22-diene, 3-methoxy-, (	221216	010453-25-5	15.00
4	Lanost-9(11)-en-12-one	221197	052474-76-7	11.00
5	Pentatriaconta-2-one, 26,27-bis(thi	241037	1000111-39-6	10.00

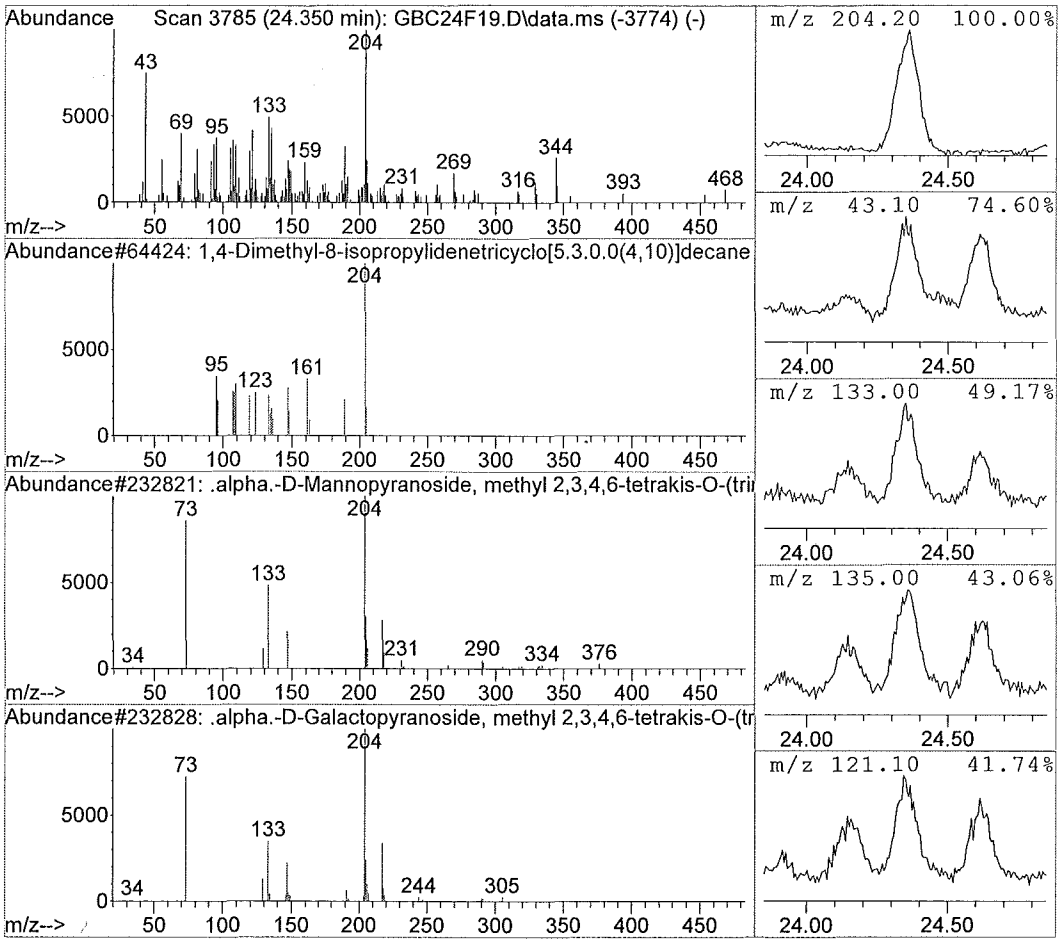


Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.35	2.37 ug/ml	339565	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	49.00
2	.alpha.-D-Mannopyranoside, methyl 2	232821	001769-06-8	47.00
3	.alpha.-D-Galactopyranoside, methyl	232828	004133-45-3	47.00
4	.alpha.-D-Glucopyranoside, methyl 2	232822	002641-79-4	47.00
5	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	46.00

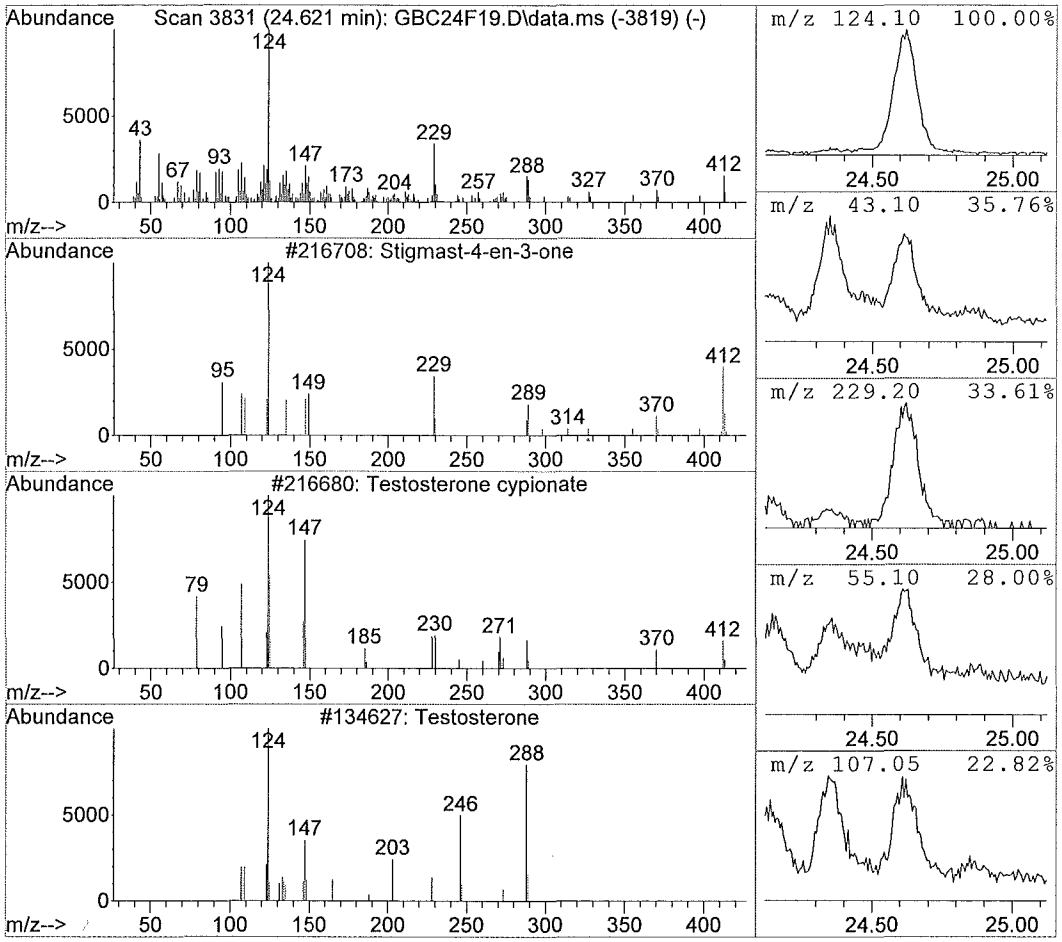


Data File : Z:\G\2015\JUN15\02JUN15\GBC24F19.D Vial: 20
Acq On : 06/03/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.62	3.41 ug/ml	488550	Perylene-d12	2861670

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	91.00
2	Testosterone cypionate	216680	000058-20-8	49.00
3	Testosterone	134627	000058-22-0	43.00
4	1,3-Benzenediol, 5-pentyl-	45423	000500-66-3	38.00
5	Phenol, 2,6-diamino-	10332	022440-82-0	38.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293020

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC25F20

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293020

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC25F20

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L77

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293020
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC25F20
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015
GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.12	540	JB
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	310	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.60	10000	J
04		Unknown 2-(2-Methoxyethoxy)ethyl acetate	4.16	150	J
05		Unknown 3-Hexene-2,5-dione	4.36	460	JB
06	638-58-4	Tetradecanamide	14.25	240	JN
07	301-02-0	9-Octadecenamide, (Z)-	15.17	2000	JNB
08		Unknown Tetradecanamide	15.27	81.	J
09		Unknown 9-Octadecenamide, (Z)-	15.96	84.	JB
10		Unknown 9-Octadecenamide, (Z)-	16.04	77.	JB
11		Unknown 2-Cyclohexyl-isoxazolidin-5-ol	16.31	160	J
12	112-84-5	13-Docosenamide, (Z)-	17.12	510	JN
13		Unknown 2H-Cyclopentacyclooctene, 4,5,6,7,8,9-he	21.56	3400	J
14		Unknown 1,3a-Ethano-3aH-indene, 1,2,3,6,7,7a-hex	21.89	260	J
15		Unknown Farnesyl bromide	22.21	310	J
16		Unknown Imidazole, 4-methyl-5-[3,3,3-trifluoropr	23.23	220	J
17		Unknown Ergosta-7,22-dien-3-ol, acetate, (3.beta	24.14	210	J
18		Unknown Naphthalene, decahydro-4a-methyl-1-methy	24.36	190	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	160	J

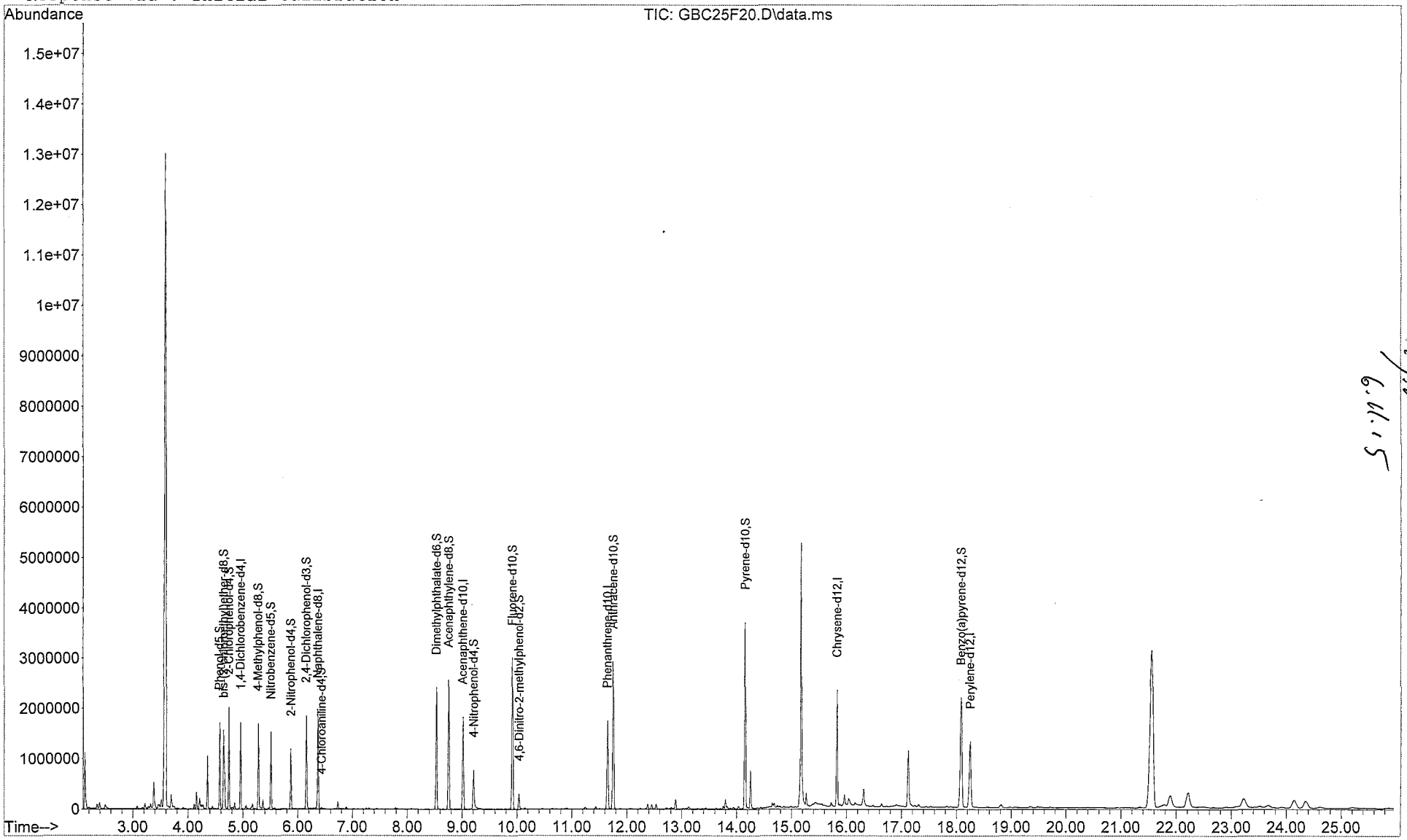
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 14:47:32 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



GBC25F20.D

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:47:32 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	300493	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1123955	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	635600	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1044270	20.00 ug/ml
73) Chrysene-d12	15.83	240	1013417	20.00 ug/ml
81) Perylene-d12	18.25	264	972138	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	671440	32.043ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	333756	26.013ug/mL
7) 2-Chlorophenol-d4	4.75	132	649561	31.572ug/ml
13) 4-Methylphenol-d8	5.28	113	417177	25.571ug/mL
17) Nitrobenzene-d5	5.51	128	293528	31.127ug/ml
21) 2-Nitrophenol-d4	5.87	143	316349	30.102ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	498698	32.393ug/mL
28) 4-Chloroaniline-d4	6.43	131	15762	0.944ug/mL
42) Dimethylphthalate-d6	8.53	166	1491551	38.587ug/mL
45) Acenaphthylene-d8	8.76	160	1706963	33.089ug/mL
50) 4-Nitrophenol-d4	9.21	143	273420	33.217ug/mL
57) Fluorene-d10	9.92	176	1225245	36.493ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	75873	11.061ug/mL
69) Anthracene-d10	11.75	188	1924179	36.426ug/mL
75) Pyrene-d10	14.16	212	1727985	37.506ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1625628	36.866ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:47:32 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

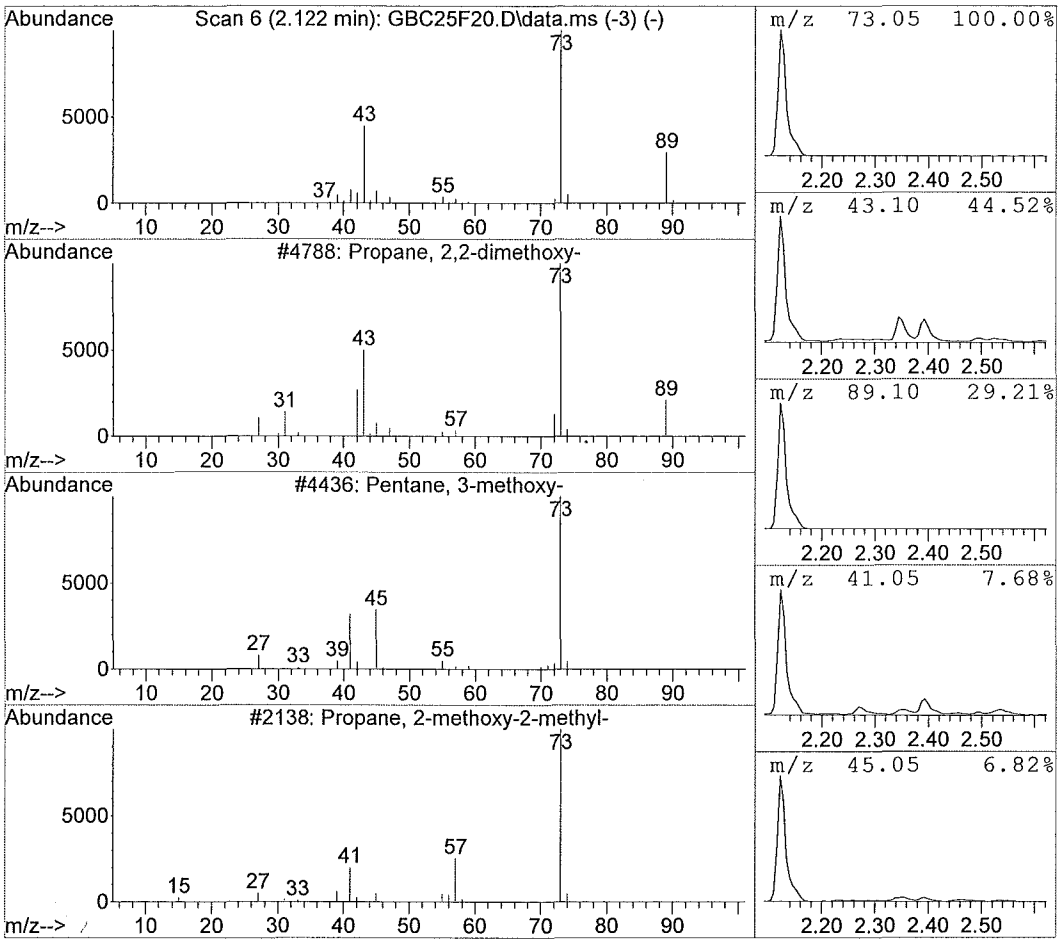
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	14.40 ug/ml	1206122	1,4-Dichlorobenzene-d4	1674883

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4788	000077-76-9	38.00
2	Pentane, 3-methoxy-	4436	036839-67-5	17.00
3	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
4	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00
5	Methane, isothiocyanato-	716	000556-61-6	7.00

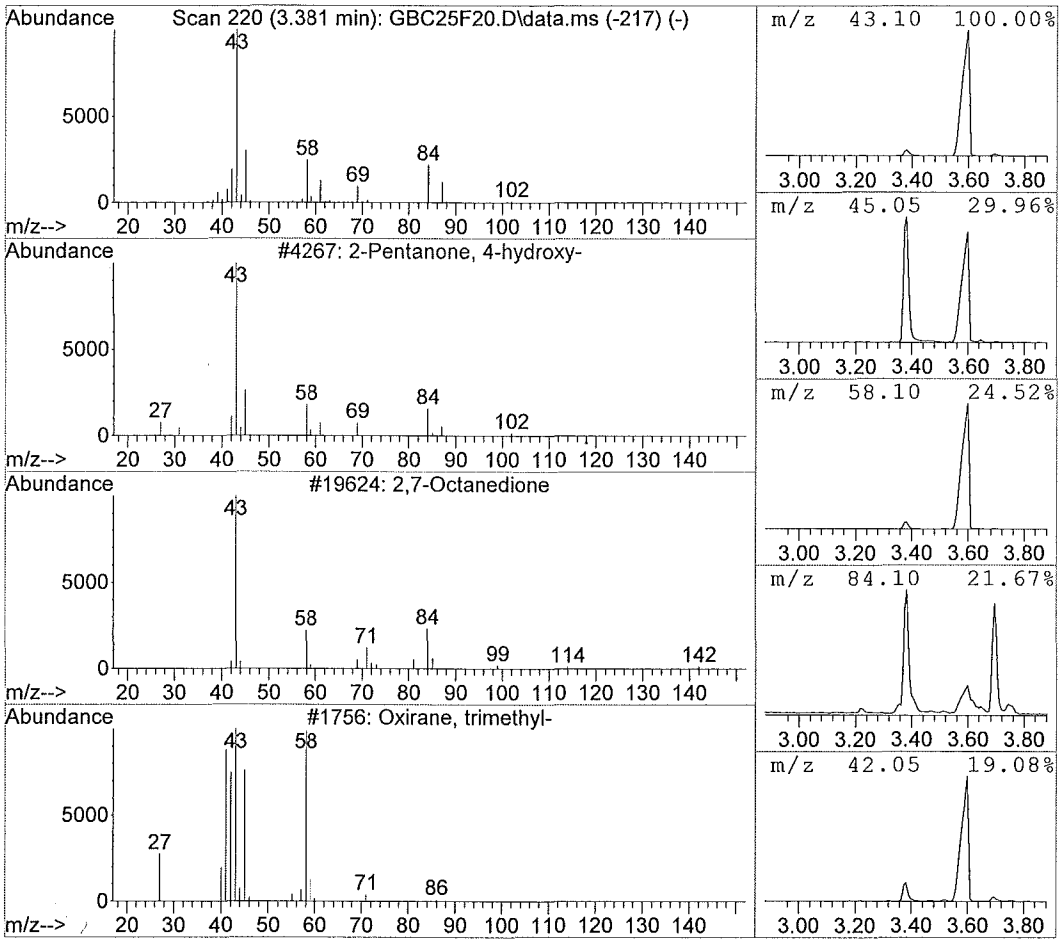


Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	8.27 ug/ml	692300	1,4-Dichlorobenzene-d4	1674883

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	56.00
2	2,7-Octanedione	19624	001626-09-1	25.00
3	Oxirane, trimethyl-	1756	005076-19-7	12.00
4	Isopropyl acetate	4254	000108-21-4	10.00
5	Propane, 1-(1-methylethoxy)-	4493	000627-08-7	9.00

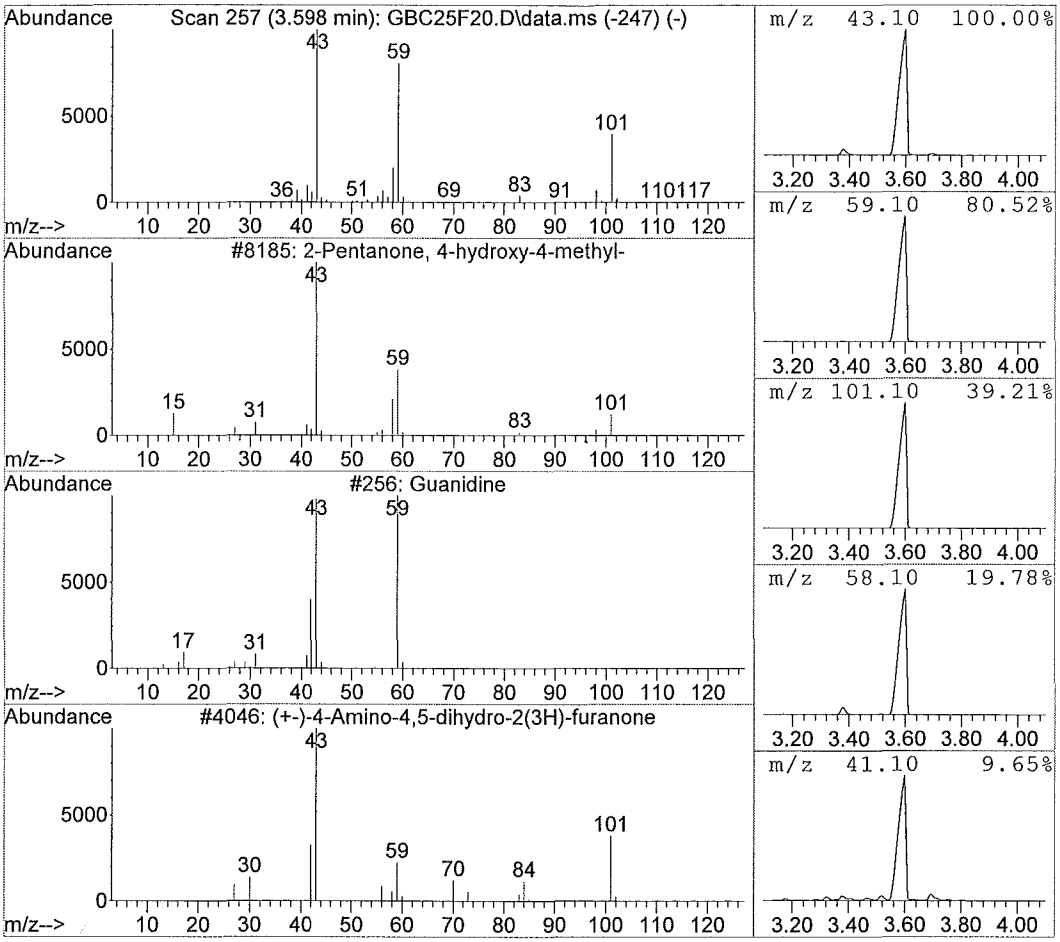


Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.60	281.47 ug/ml	23571142	1,4-Dichlorobenzene-d4	1674883

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	Guanidine	256	000113-00-8	43.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	35.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	Propanamide, N-ethyl-	4082	005129-72-6	10.00



Library Search Compound Report

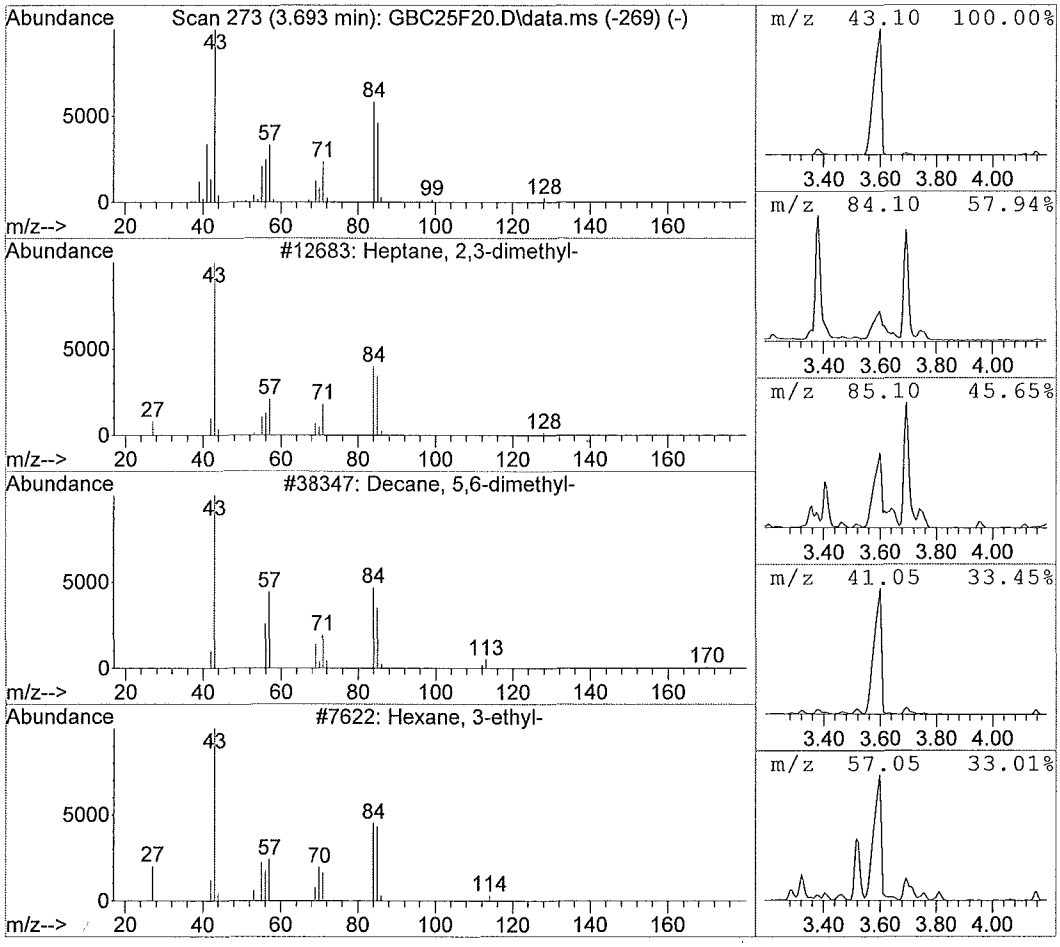
Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	4.43 ug/ml	370607	1,4-Dichlorobenzene-d4	1674883

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	87.00
2	Decane, 5,6-dimethyl-	38347	001636-43-7	78.00
3	Hexane, 3-ethyl-	7622	000619-99-8	72.00
4	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	64.00
5	Hexanal, 3,3-dimethyl-	12523	055320-57-5	59.00

B.A.



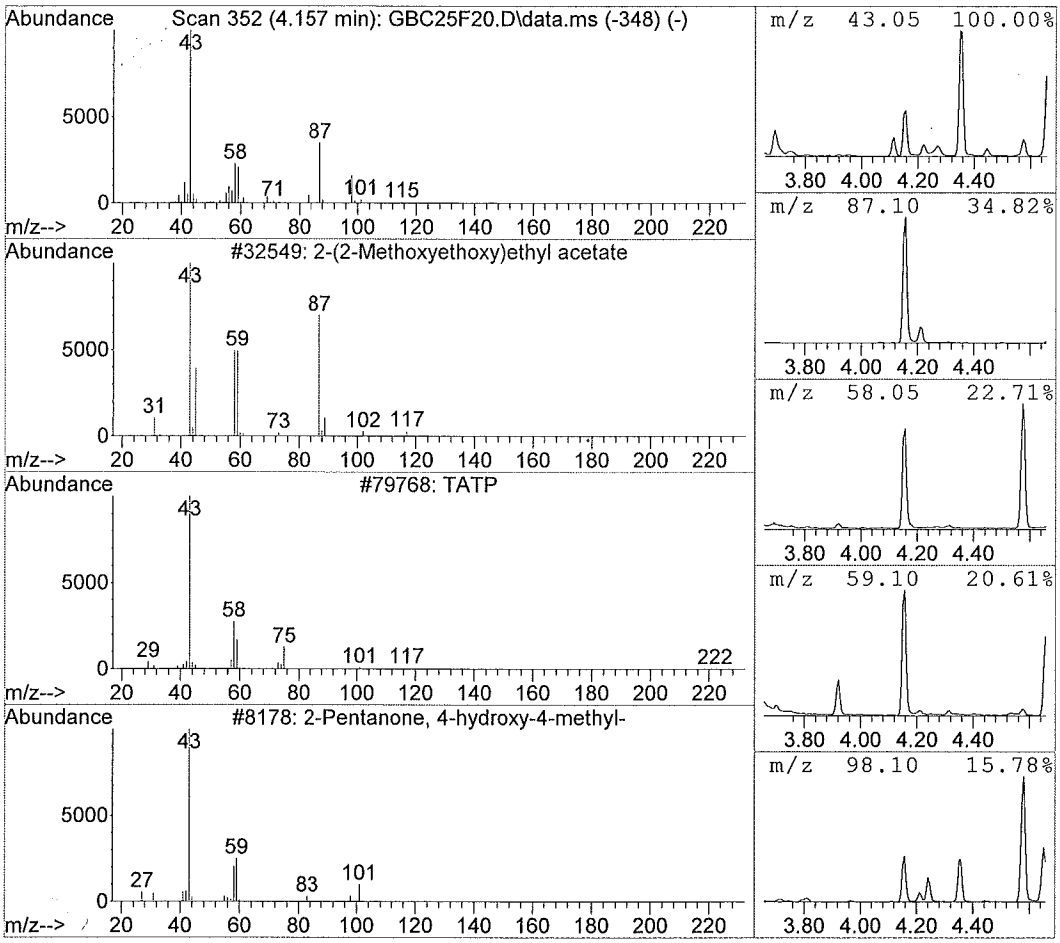
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.16	3.95 ug/ml	330498	1,4-Dichlorobenzene-d4	1674883

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-(2-Methoxyethoxy)ethyl acetate	32549	1000351-95-4	53.00
2	TATP	79768	017088-37-8	38.00
3	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	28.00
4	2-Nonanone	19930	000821-55-6	25.00
5	Propanoic acid, 2-methyl-, methyl e	4346	000547-63-7	17.00



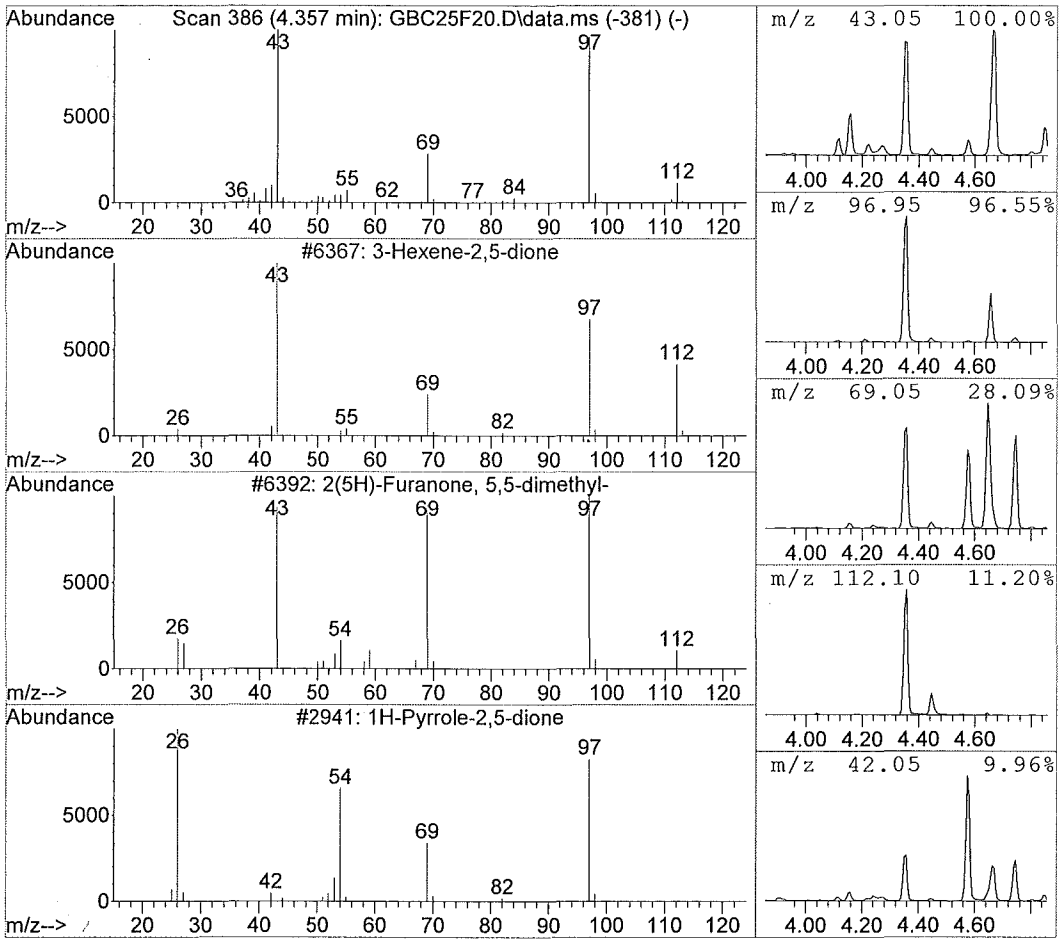
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.36	12.27 ug/ml	1027668	1,4-Dichlorobenzene-d4	1674883

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	78.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
3	1H-Pyrrole-2,5-dione	2941	000541-59-3	40.00
4	5-Hexen-2-one, 5-methyl-	6529	003240-09-3	10.00
5	2-Pyrazoline, 1,4,5-trimethyl-	6304	007423-11-2	10.00

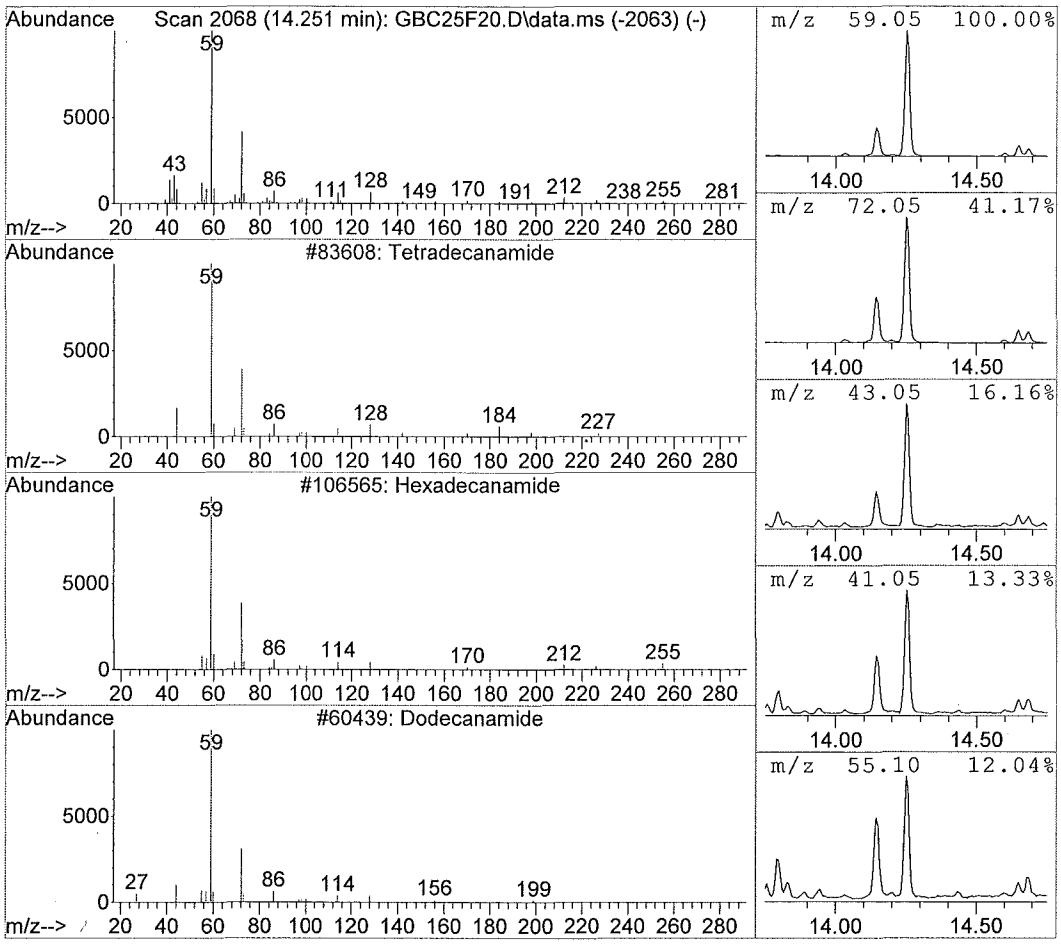


Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.25	6.40 ug/ml	910134	Chrysene-d12	2844742

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	90.00
2	Hexadecanamide	106565	000629-54-9	86.00
3	Dodecanamide	60439	001120-16-7	64.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	56.00



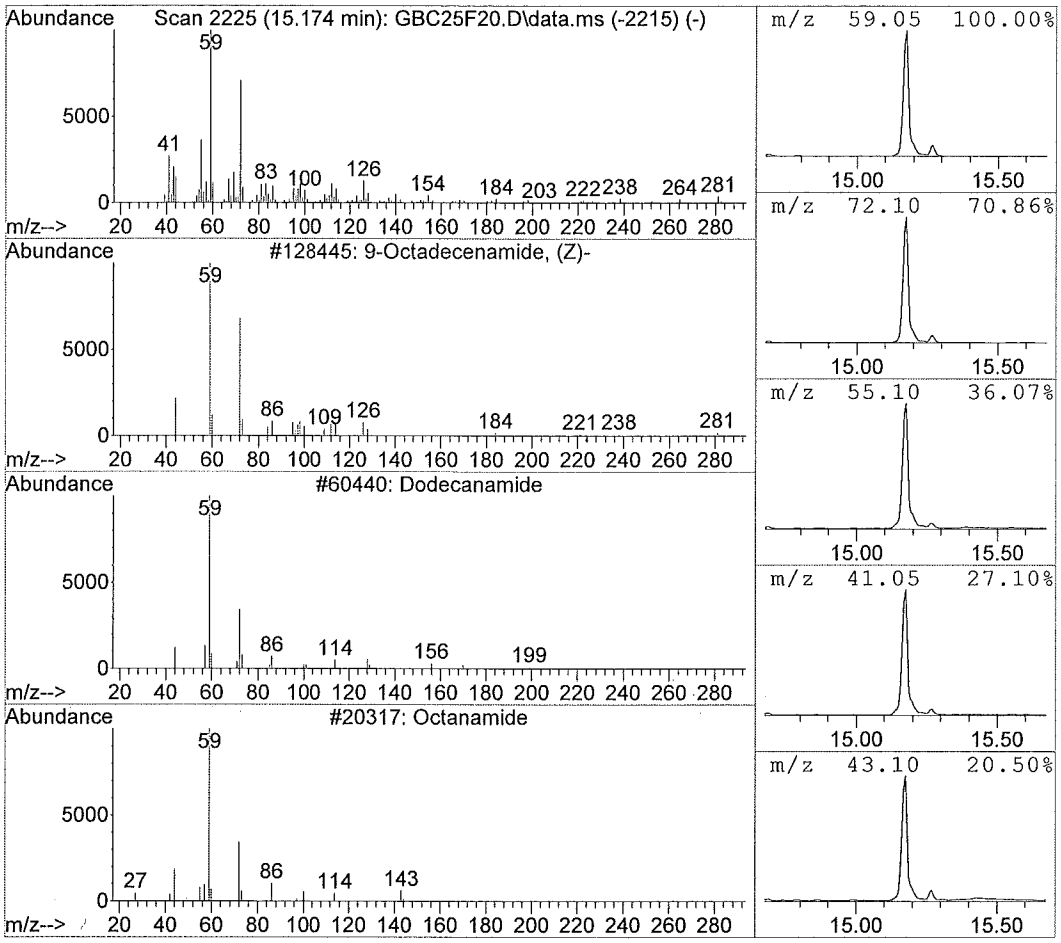
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	52.60 ug/ml	7481166	Chrysene-d12	2844742

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Dodecanamide	60440	001120-16-7	53.00
3	Octanamide	20317	000629-01-6	53.00
4	Decanamide-	38977	002319-29-1	53.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	50.00

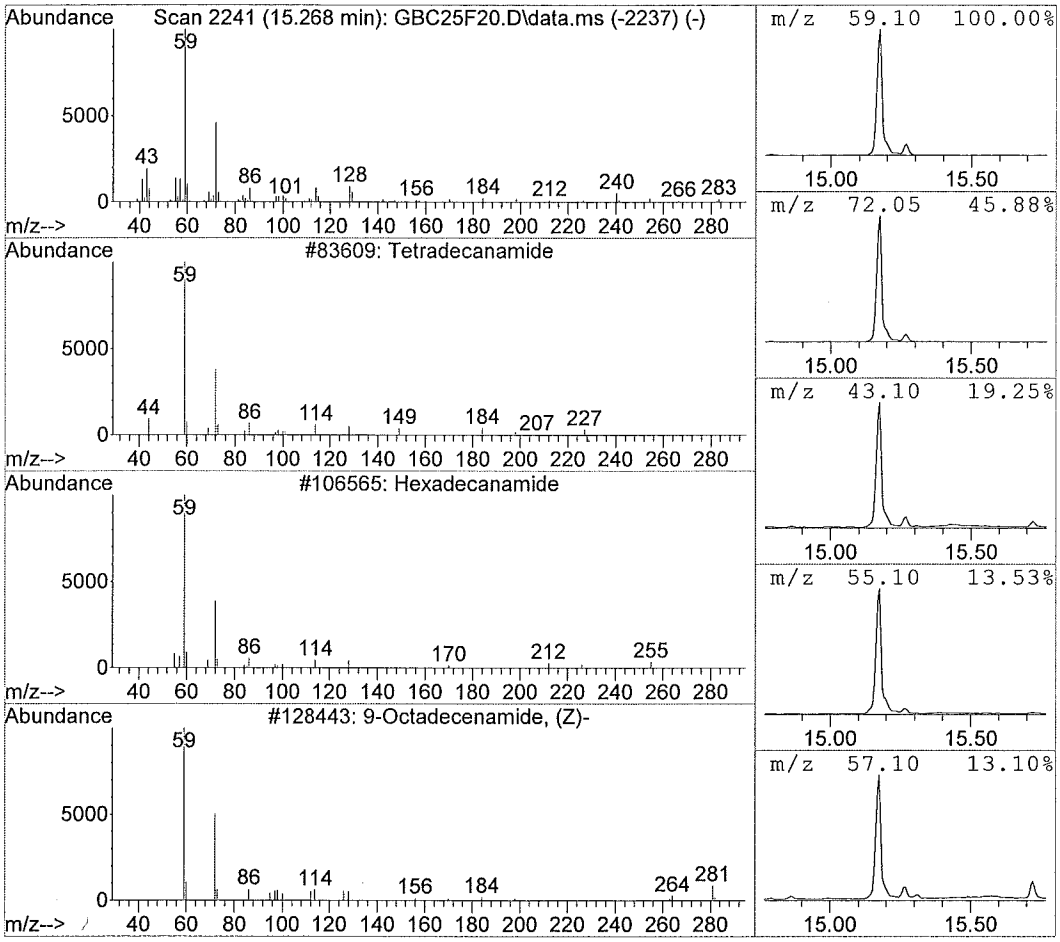


Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.27	2.17 ug/ml	308363	Chrysene-d12	2844742

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83609	000638-58-4	80.00
2	Hexadecanamide	106565	000629-54-9	80.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	64.00
4	Octanamide	20317	000629-01-6	56.00
5	Dodecanamide	60439	001120-16-7	56.00

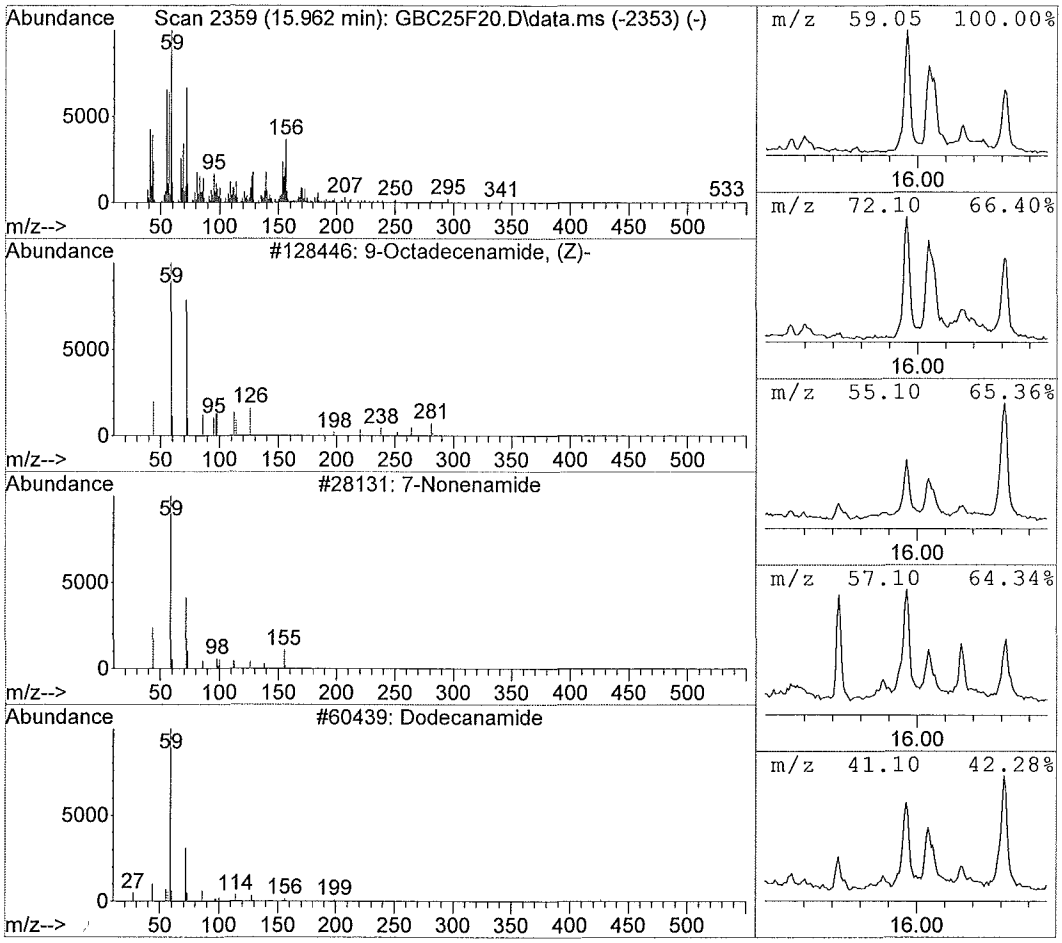


Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.96	2.24 ug/ml	319187	Chrysene-d12	2844742

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128446	000301-02-0	60.00
2	7-Nonenamide	28131	090949-53-4	58.00
3	Dodecanamide	60439	001120-16-7	47.00
4	Cyclohexane, (ethoxymethoxy)-	30241	054699-29-5	25.00
5	Butanamide, 3-methyl-	4085	000541-46-8	22.00



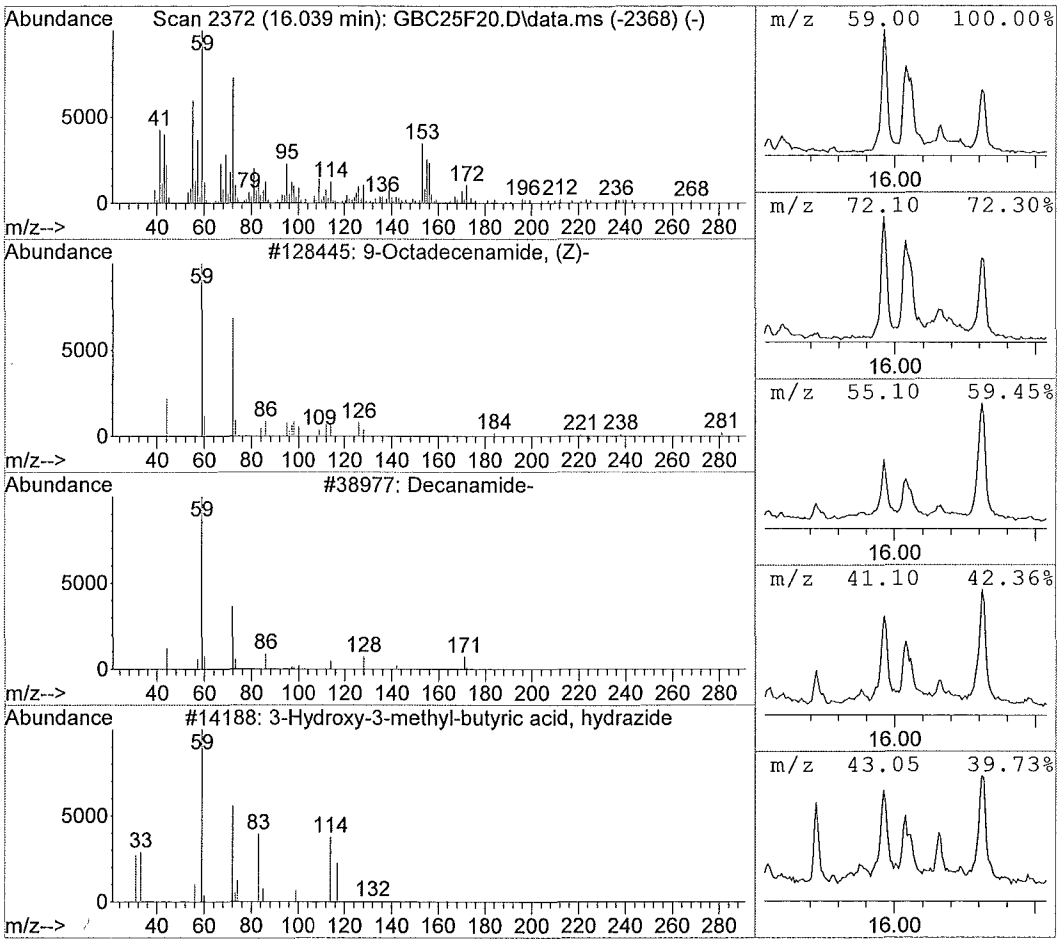
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.04	2.07 ug/ml	294468	Chrysene-d12	2844742

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	49.00
2	Decanamide-	38977	002319-29-1	47.00
3	3-Hydroxy-3-methyl-butyric acid, hy	14188	1000193-80-2	43.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	38.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	38.00

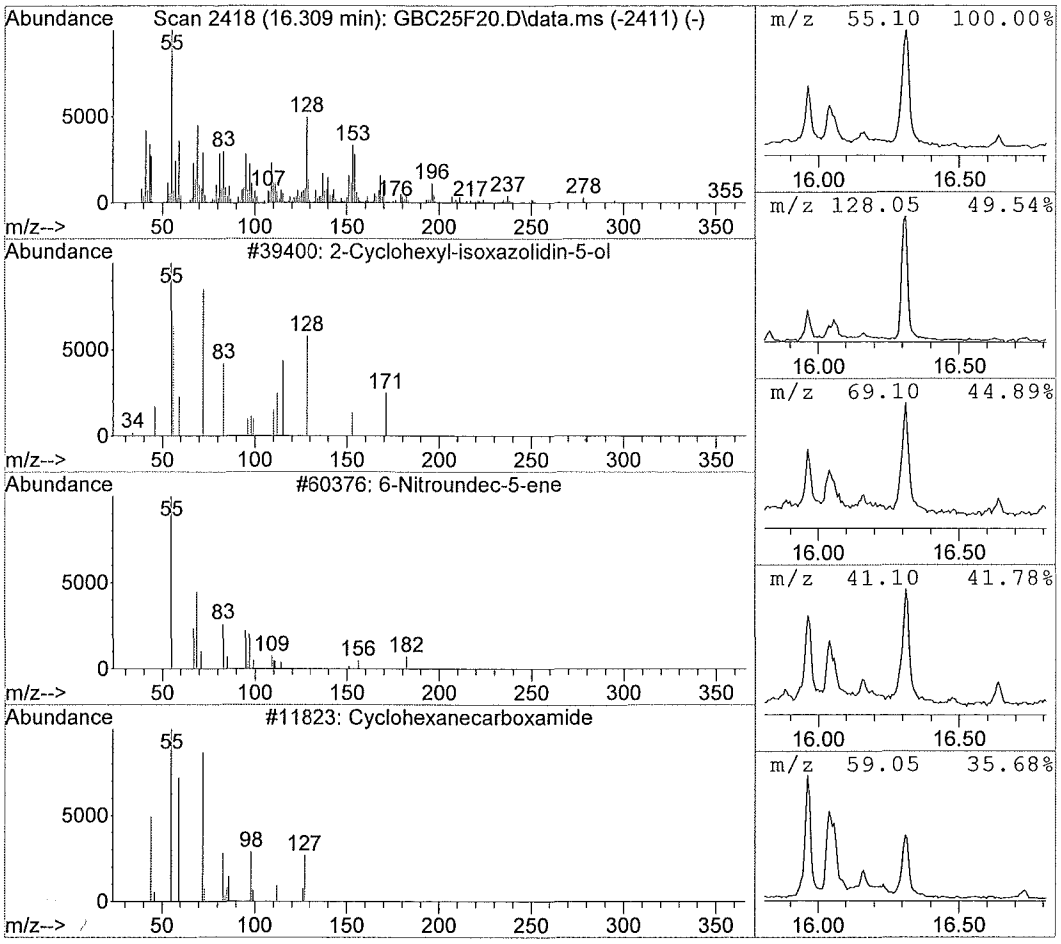


Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	4.18 ug/ml	595089	Chrysene-d12	2844742

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Cyclohexyl-isoxazolidin-5-ol	39400	052400-49-4	12.00
2	6-Nitroundec-5-ene	60376	1000192-40-3	10.00
3	Cyclohexanecarboxamide	11823	001122-56-1	10.00
4	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	10.00
5	Bicyclo(3.3.1)nonane-2,6-dione	26015	016473-11-3	9.00

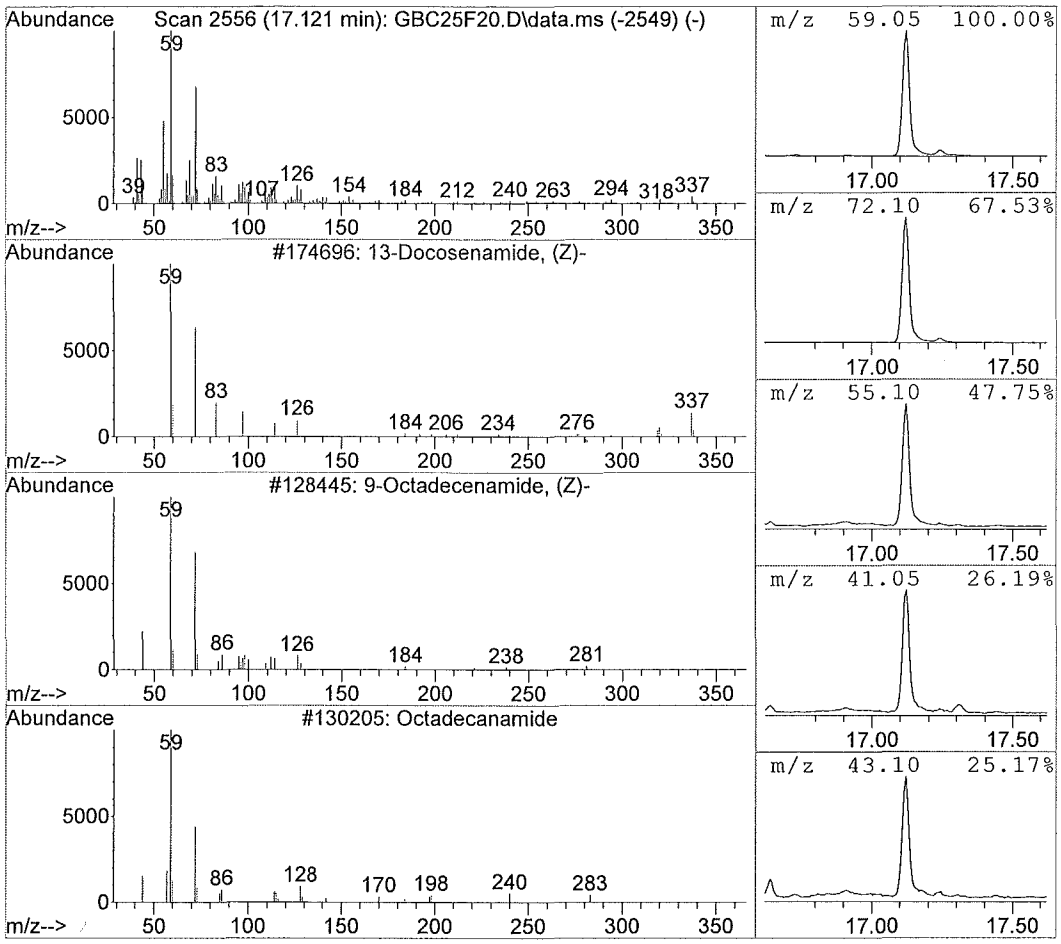


Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.12	13.76 ug/ml	1962078	Perylene-d12	2851683

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	94.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
3	Octadecanamide	130205	000124-26-5	62.00
4	Tetradecanamide	83610	000638-58-4	50.00
5	2-Octanol, 2-methyl-6-methylene-	28320	018479-59-9	49.00

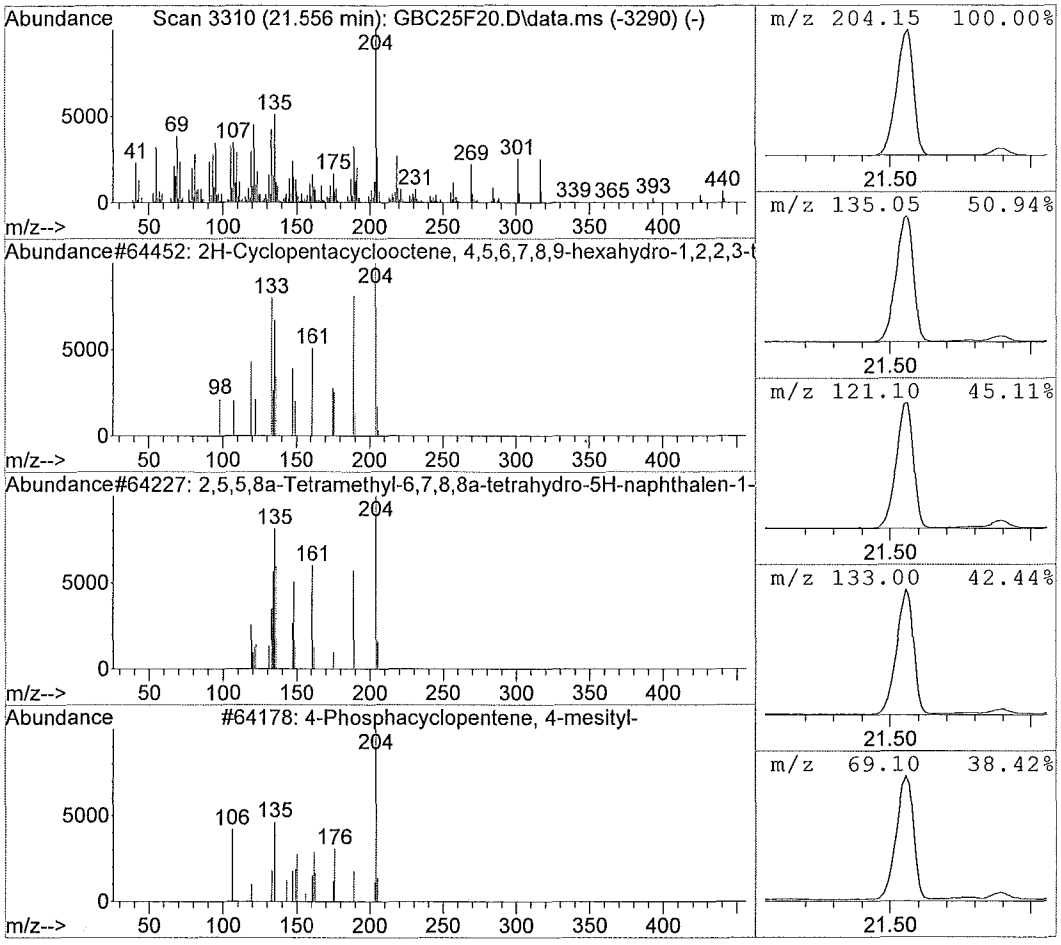


Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.56	91.10 ug/ml	12989444	Perylene-d12	2851683

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	60.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	46.00
3	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
4	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	41.00
5	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64574	000489-40-7	38.00

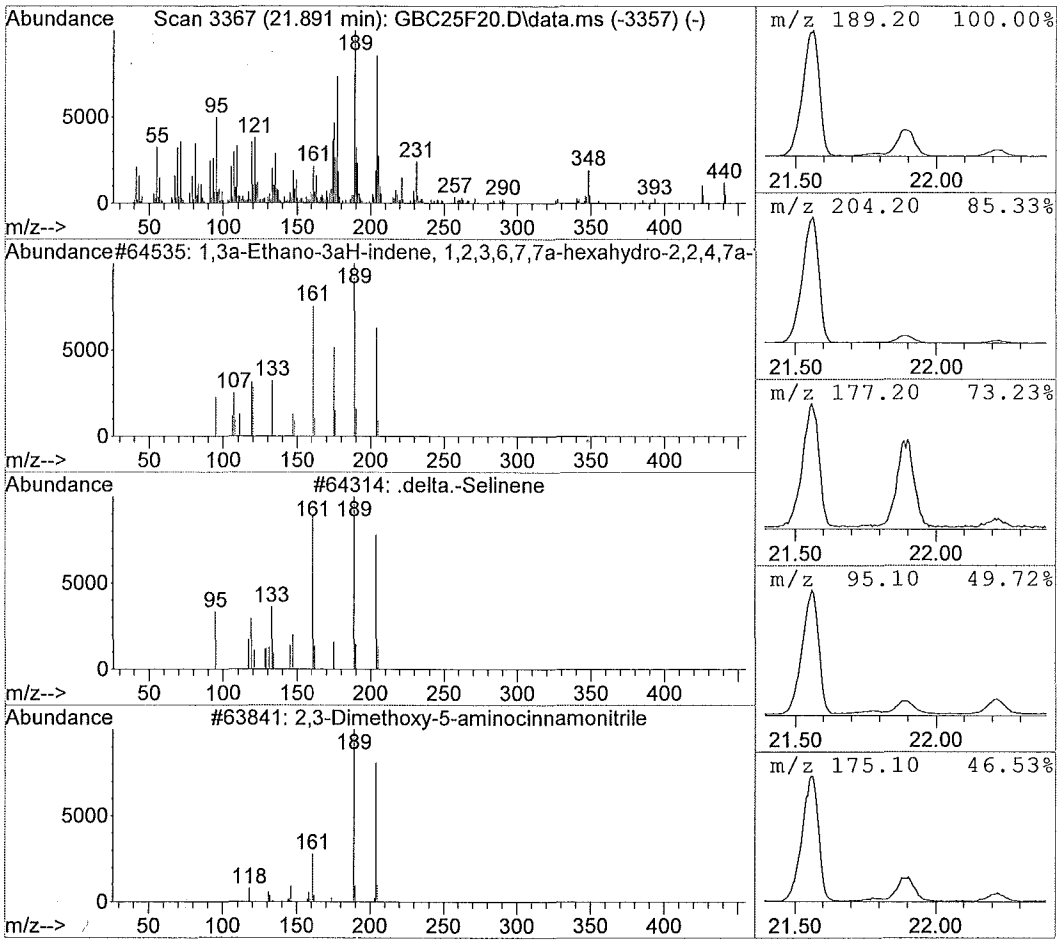


Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.89	6.86 ug/ml	977658	Perylene-d12	2851683

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3a-Ethano-3aH-indene, 1,2,3,6,7,7	64535	004545-68-0	53.00
2	.delta.-Selinene	64314	028624-23-9	43.00
3	2,3-Dimethoxy-5-aminocinnamonitrile	63841	1000214-46-5	27.00
4	Coumarin, 3,4-dihydro-4,4,6,8-tetra	64132	249629-60-5	27.00
5	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64575	000489-40-7	25.00

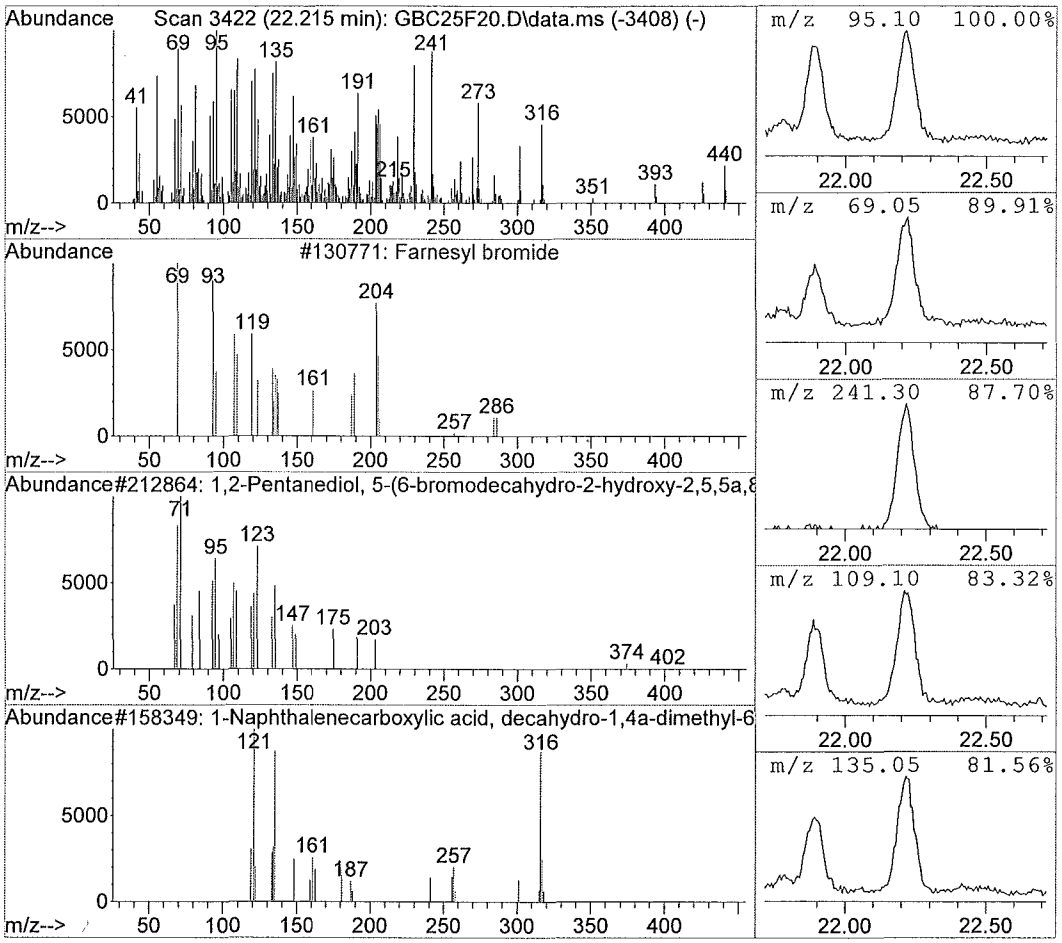


Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.21	8.35 ug/ml	1190046	Perylene-d12	2851683

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Farnesyl bromide	130771	006874-67-5	41.00
2	1,2-Pentanediol, 5-(6-bromodecahydr	212864	115346-29-7	35.00
3	1-Naphthalenecarboxylic acid, decah	158349	001235-39-8	30.00
4	.alpha.-Bulnesene	64321	1000374-19-9	20.00
5	Benzofuran, 2,4,5,6,7,7a-hexahydro-	77632	069296-94-2	18.00

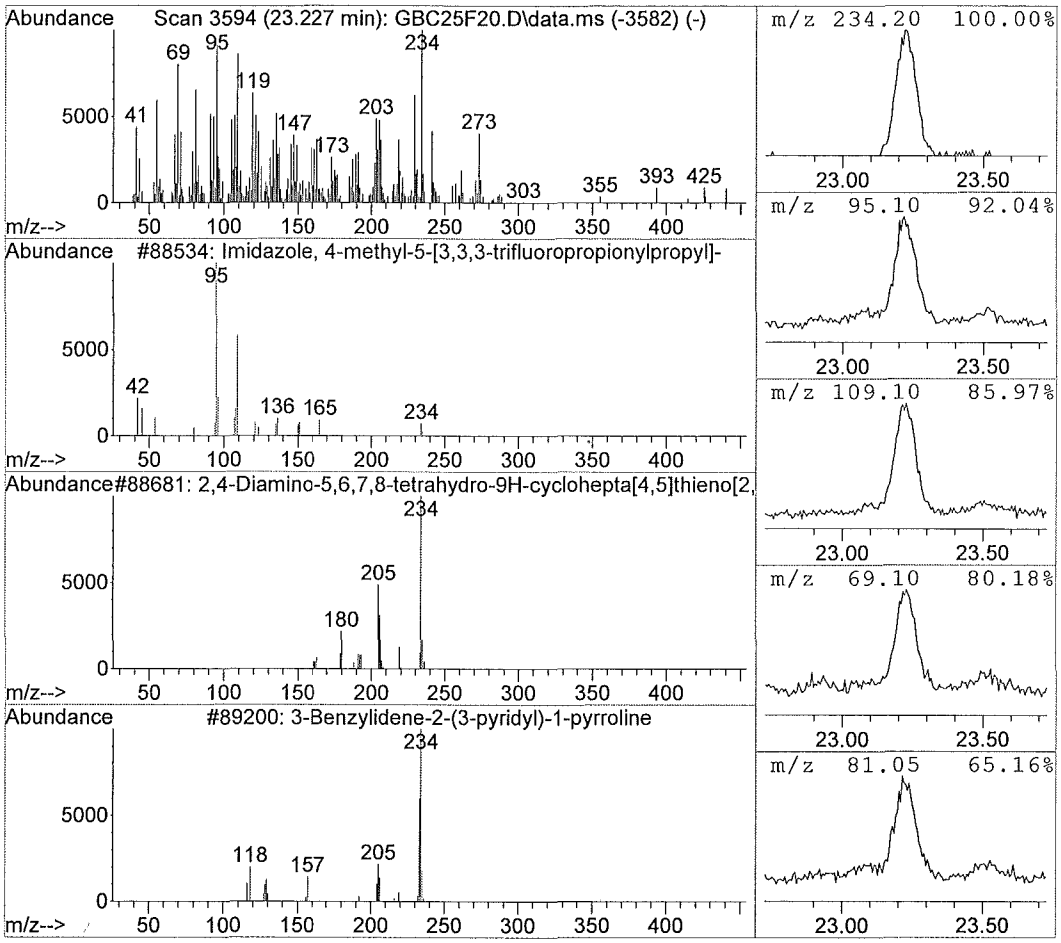


Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.23	5.96 ug/ml	849682	Perylene-d12	2851683

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Imidazole, 4-methyl-5-[3,3,3-triflu	88534	1000129-15-8	46.00
2	2,4-Diamino-5,6,7,8-tetrahydro-9H-c	88681	042159-81-9	44.00
3	3-Benzylidene-2-(3-pyridyl)-1-pyrro	89200	093013-30-0	41.00
4	Friedelan-3-one	221187	000559-74-0	38.00
5	1H-3a,7-Methanoazulen-5-ol, octahyd	77611	028231-03-0	25.00

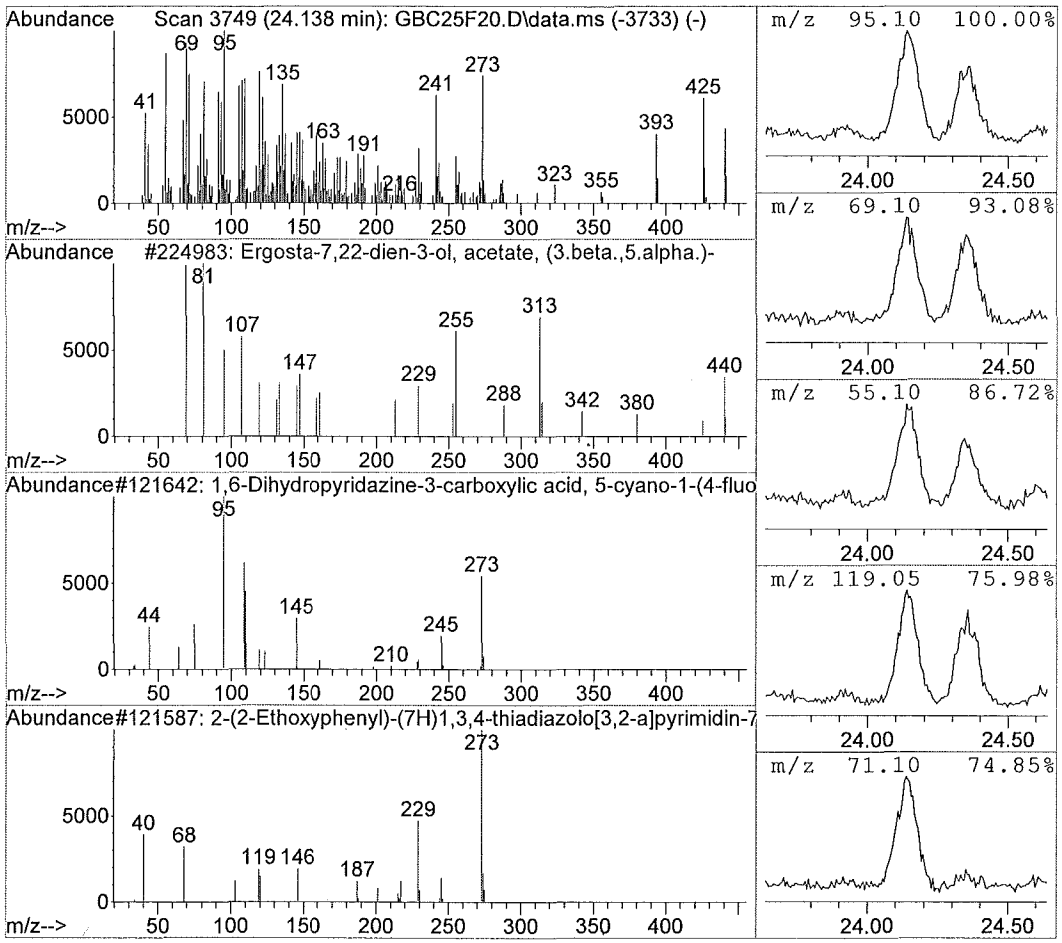


Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.14	5.51 ug/ml	785887	Perylene-d12	2851683

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ergosta-7,22-dien-3-ol, acetate, (3	224983	001449-60-1	42.00
2	1,6-Dihydropyridazine-3-carboxylic	121642	1000304-05-0	25.00
3	2-(2-Ethoxyphenyl)-(7H)1,3,4-thiadi	121587	1000103-48-8	25.00
4	Lanosterol	221175	000079-63-0	22.00
5	Tolcapone	121656	134308-13-7	22.00

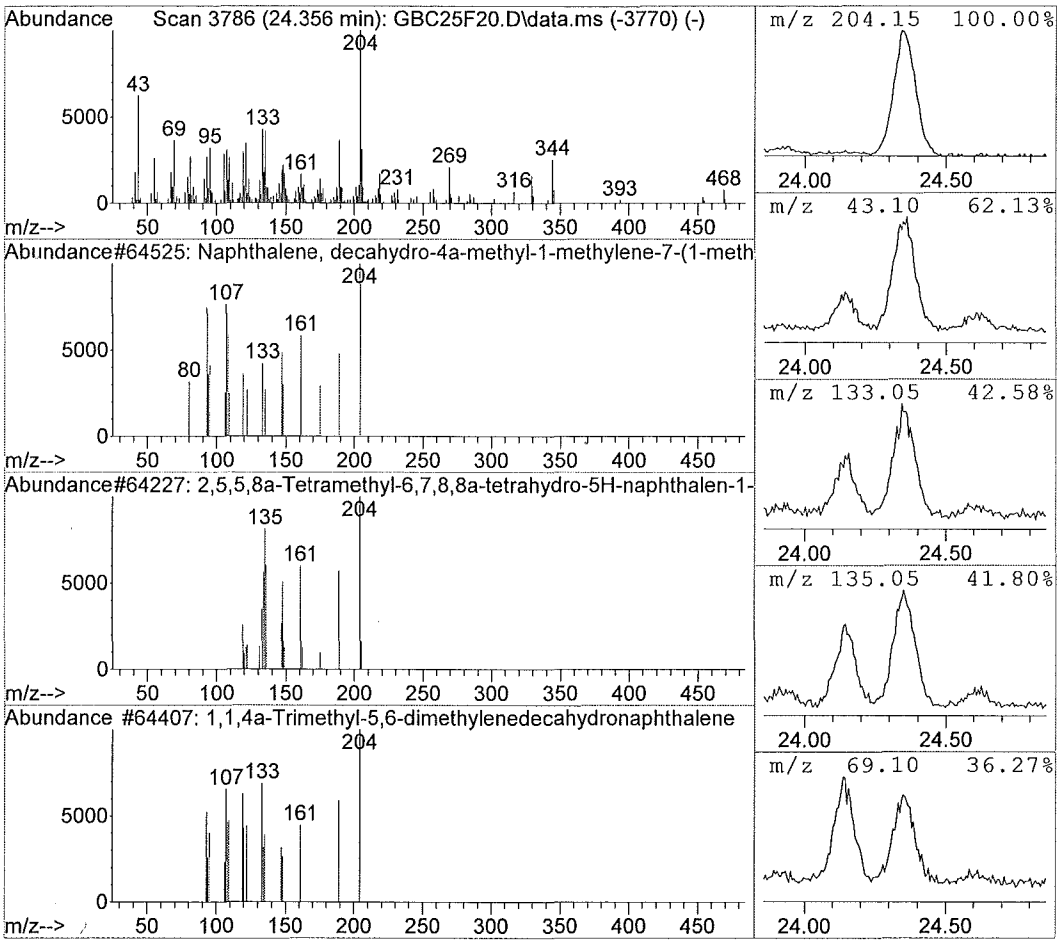


Data File : Z:\G\2015\JUN15\02JUN15\GBC25F20.D Vial: 21
Acq On : 06/03/2015 02:23 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.36	4.97 ug/ml	708955	Perylene-d12	2851683

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, decahydro-4a-methyl-1-	64525	017066-67-0	60.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	49.00
3	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	45.00
4	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	45.00
5	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293021

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC26F21

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293021

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC26F21

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine[1]	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	20.	J
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L78

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293021
Sample wt/vol: 30.2 (g/mL) g Lab File ID: GBC26F21
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015
GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Pentane, 3-methoxy-	2.13	160	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.38	180	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.59	6100	J
04		Unknown 2-(2-Methoxyethoxy)ethyl acetate	4.16	95.	J
05		Unknown 3-Hexene-2,5-dione	4.36	480	JB
06	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.46	78.	JN
07	112-39-0	Hexadecanoic acid, methyl ester	12.53	130	JN
08	112-62-9	9-Octadecenoic acid (Z)-, methyl ester	13.80	90.	JN
09	629-54-9	Hexadecanamide	14.26	190	JNB
10	301-02-0	9-Octadecenamide, (Z)-	15.17	1600	JNB
11		Unknown 1,3-Dimethylimidazole-2(3H)-thione	16.31	130	J
12	301-02-0	9-Octadecenamide, (Z)-	17.12	230	JN
13		Unknown 1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-	21.55	1300	J
14	1000362-82-6	Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 1-ethy	22.22	130	JN
15		Unknown 9,11-Epoxytestosterone acetate	24.36	180	J
16	1058-61-3	Stigmast-4-en-3-one	24.62	130	JN
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	550	J

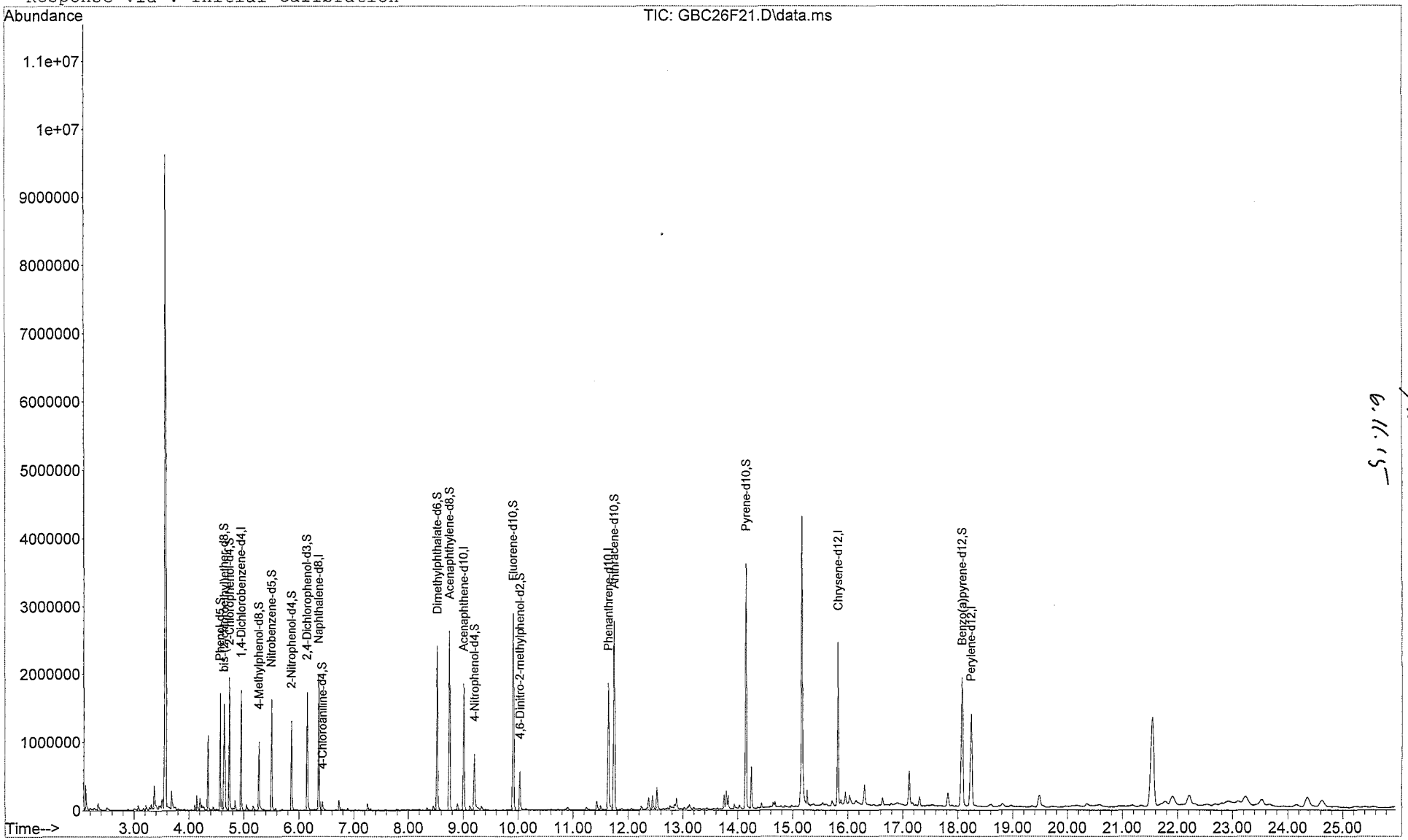
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 14:47:54 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:47:54 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	308981	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1156314	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	650171	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1081936	20.00 ug/ml
73) Chrysene-d12	15.83	240	1053656	20.00 ug/ml
81) Perylene-d12	18.25	264	1021731	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	650723	30.201ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	335340	25.418ug/mL
7) 2-Chlorophenol-d4	4.75	132	611430	28.902ug/ml
13) 4-Methylphenol-d8	5.28	113	261588	15.594ug/mL
17) Nitrobenzene-d5	5.51	128	300568	30.981ug/ml
21) 2-Nitrophenol-d4	5.87	143	344390	31.854ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	465861	29.413ug/mL
28) 4-Chloroaniline-d4	6.43	131	58688	3.416ug/mL
42) Dimethylphthalate-d6	8.53	166	1491283	37.715ug/mL
45) Acenaphthylene-d8	8.76	160	1718642	32.569ug/mL
50) 4-Nitrophenol-d4	9.21	143	279979	33.251ug/mL
57) Fluorene-d10	9.92	176	1205080	35.088ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	138609	19.504ug/mL
69) Anthracene-d10	11.76	188	1839911	33.618ug/mL
75) Pyrene-d10	14.16	212	1639126	34.218ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1404520	30.305ug/mL

Target Compounds			Qvalue
3) Benzaldehyde	0.00	77	Not Detected
4) Phenol	0.00	94	Not Detected
5) Bis(2-chloroethyl)ether	0.00	93	Not Detected
8) 2-Chlorophenol	0.00	128	Not Detected
9) 2-Methylphenol	0.00	108	Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45	Not Detected
11) Acetophenone	0.00	105	Not Detected
12) 4-methylphenol	0.00	108	Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70	Not Detected
15) Hexachloroethane	0.00	117	Not Detected
18) Nitrobenzene	0.00	77	Not Detected
19) Isophorone	0.00	82	Not Detected
20) 2-Nitrophenol	0.00	139	Not Detected
22) 2,4-Dimethylphenol	0.00	107	Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93	Not Detected
24) 2,4-Dichlorophenol	0.00	162	Not Detected
26) Naphthalene	0.00	128	Not Detected
27) 4-Chloroaniline	0.00	127	Not Detected
29) Hexachlorobutadiene	0.00	225	Not Detected
30) Caprolactam	0.00	113	Not Detected
31) 4-Chloro-3-methylphenol	0.00	107	Not Detected
32) 2-Methylnaphthalene	0.00	142	Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216	Not Detected
35) Hexachlorocyclopentadiene	0.00	237	Not Detected
36) 2,4,6-Trichlorophenol	0.00	196	Not Detected
37) 2,4,5-Trichlorophenol	0.00	196	Not Detected
38) 1,1'-Biphenyl	0.00	154	Not Detected
39) 2-Chloronaphthalene	0.00	162	Not Detected
40) 2-Nitroaniline	0.00	65	Not Detected
41) Dimethylphthalate	0.00	163	Not Detected
43) 2,6-Dinitrotoluene	0.00	165	Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

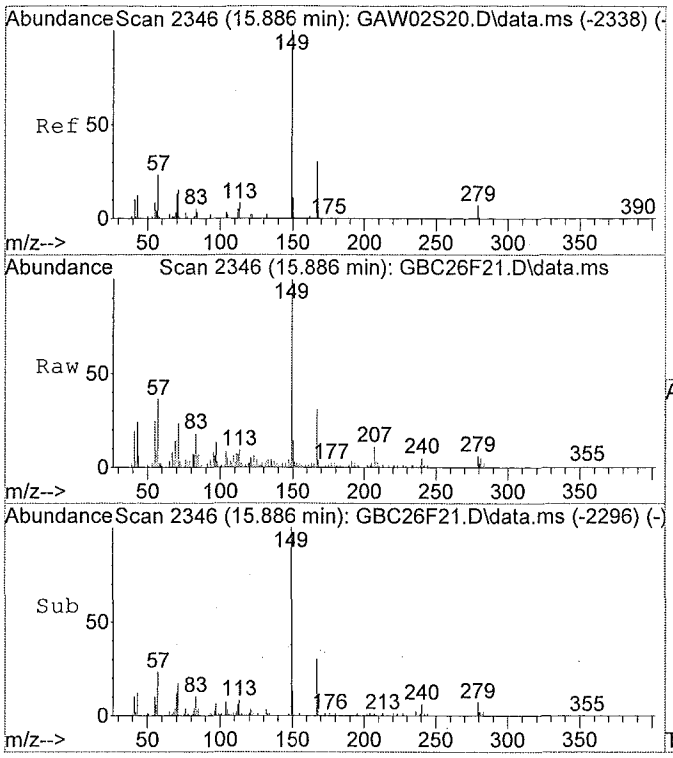
Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:47:54 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	15.89	149	26757	0.526ug/ml	99
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

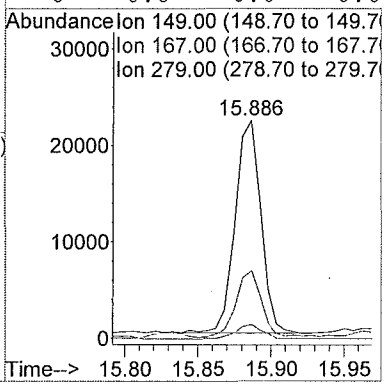
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.53 ug/ml
RT: 15.89 min Scan# 2346
Delta R.T. -0.01 min
Lab File: GBC26F21.D
Acq: 06/03/2015 02:55

Tgt Ion:149 Resp: 26757

Ion	Ratio	Lower	Upper
149	100		
167	32.0	22.0	40.8
279	6.4	5.0	9.2
0	0.0	0.0	0.0



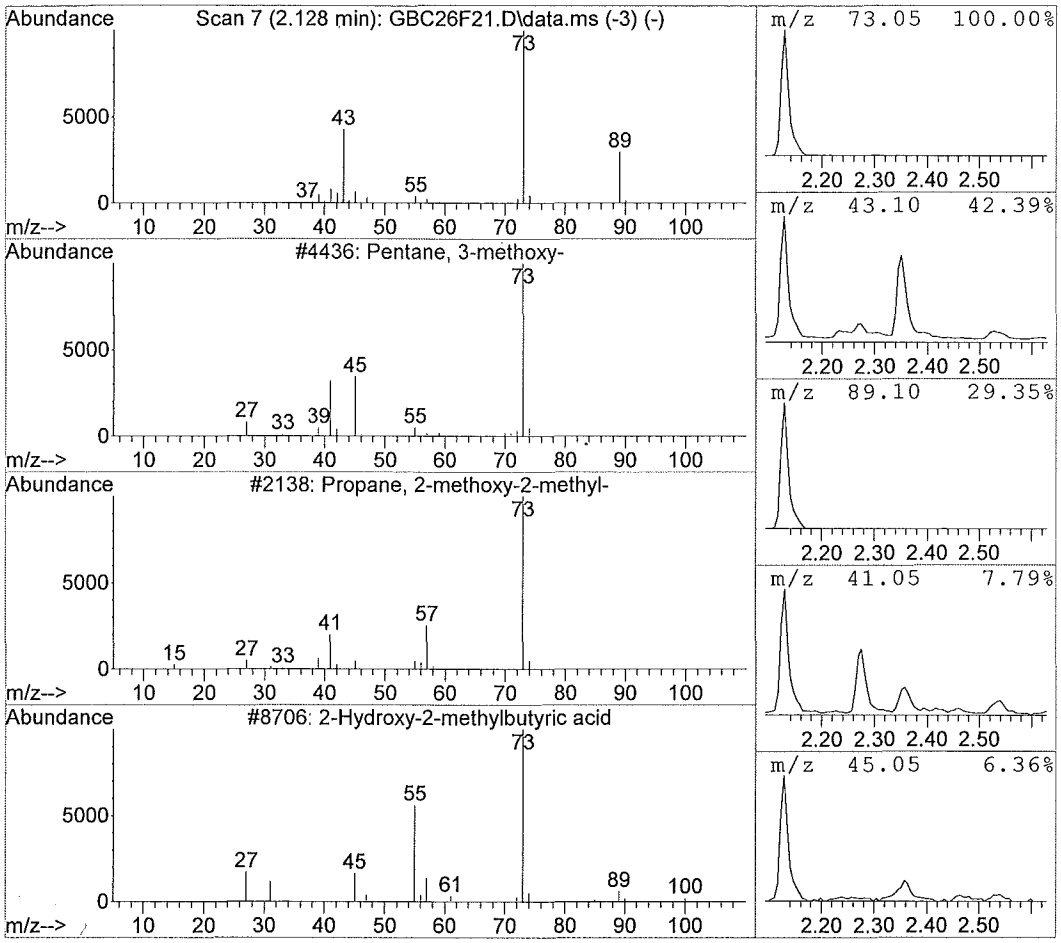
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.13	4.29 ug/ml	370365	1,4-Dichlorobenzene-d4	1727437

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 3-methoxy-	4436	036839-67-5	25.00
2	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
3	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00
4	1-(2-Methoxyethoxy)-2-methyl-2-prop	32662	1000364-24-4	9.00
5	Propane, 2,2-dimethoxy-	4788	000077-76-9	9.00



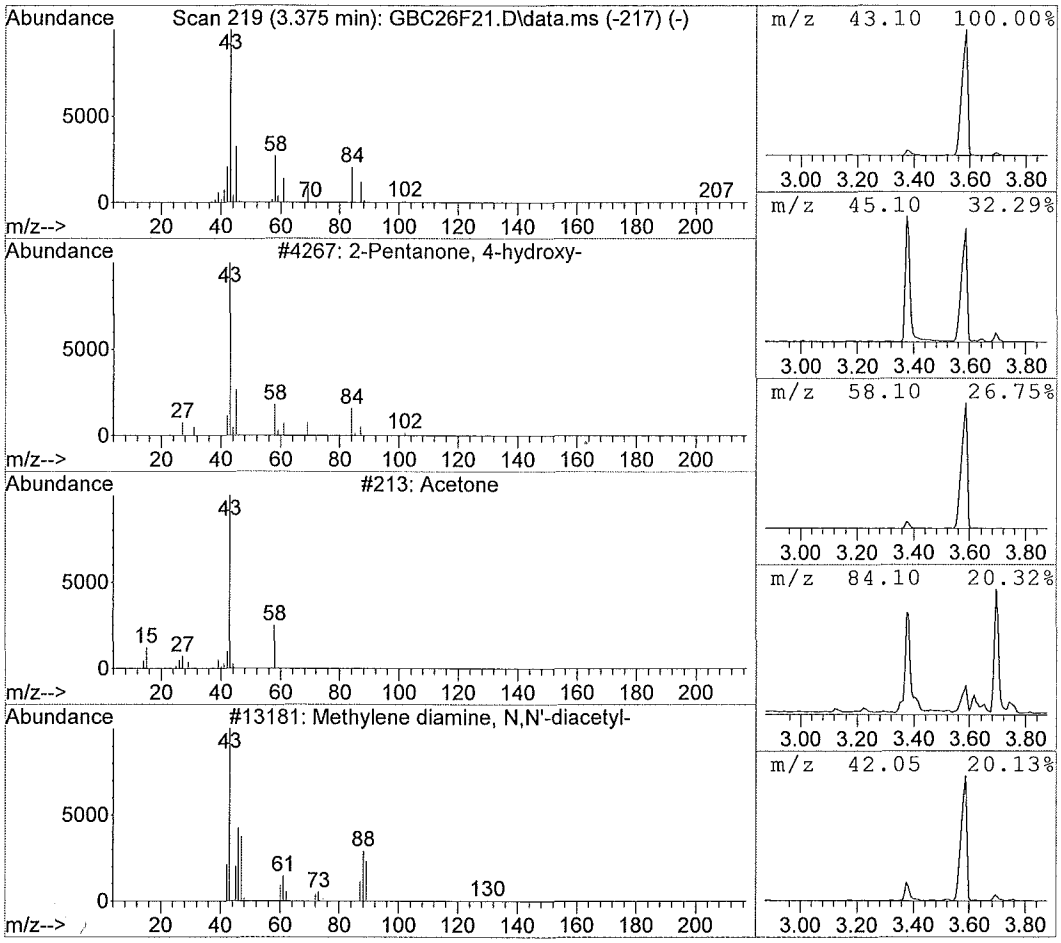
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.37	4.58 ug/ml	395490	1,4-Dichlorobenzene-d4	1727437

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	64.00
2	Acetone	213	000067-64-1	9.00
3	Methylene diamine, N,N'-diacetyl-	13181	003852-14-0	9.00
4	2-Methyoxirane-2-carboxylic acid, m	8057	1000306-64-8	9.00
5	Isopropyl acetate	4253	000108-21-4	9.00

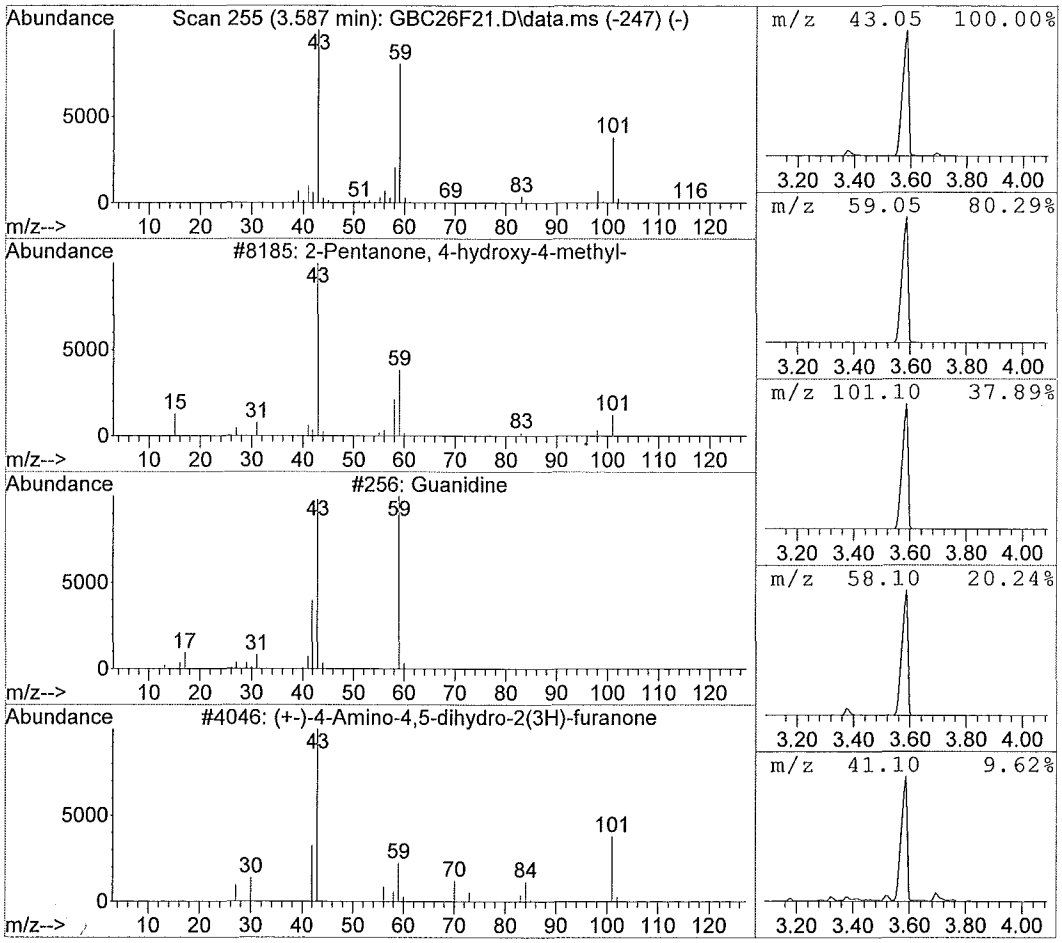


Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.59	158.05 ug/ml	13650780	1,4-Dichlorobenzene-d4	1727437

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	Guanidine	256	000113-00-8	47.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	5-Hexen-2-one	3158	000109-49-9	9.00



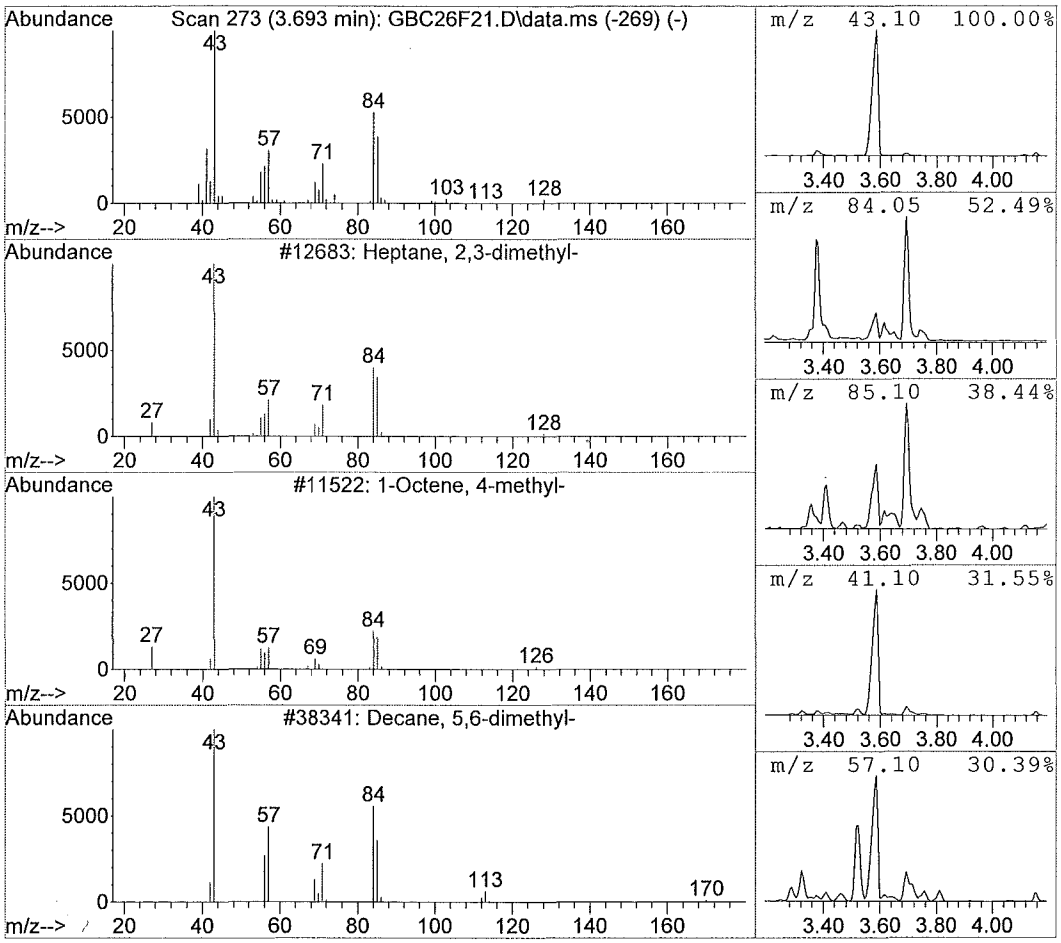
Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	4.13 ug/ml	357024	1,4-Dichlorobenzene-d4	1727437

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	90.00
2	1-Octene, 4-methyl-	11522	013151-12-7	64.00
3	Decane, 5,6-dimethyl-	38341	001636-43-7	64.00
4	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	58.00
5	Hexyl octyl ether	72867	017071-54-4	53.00

B.A.

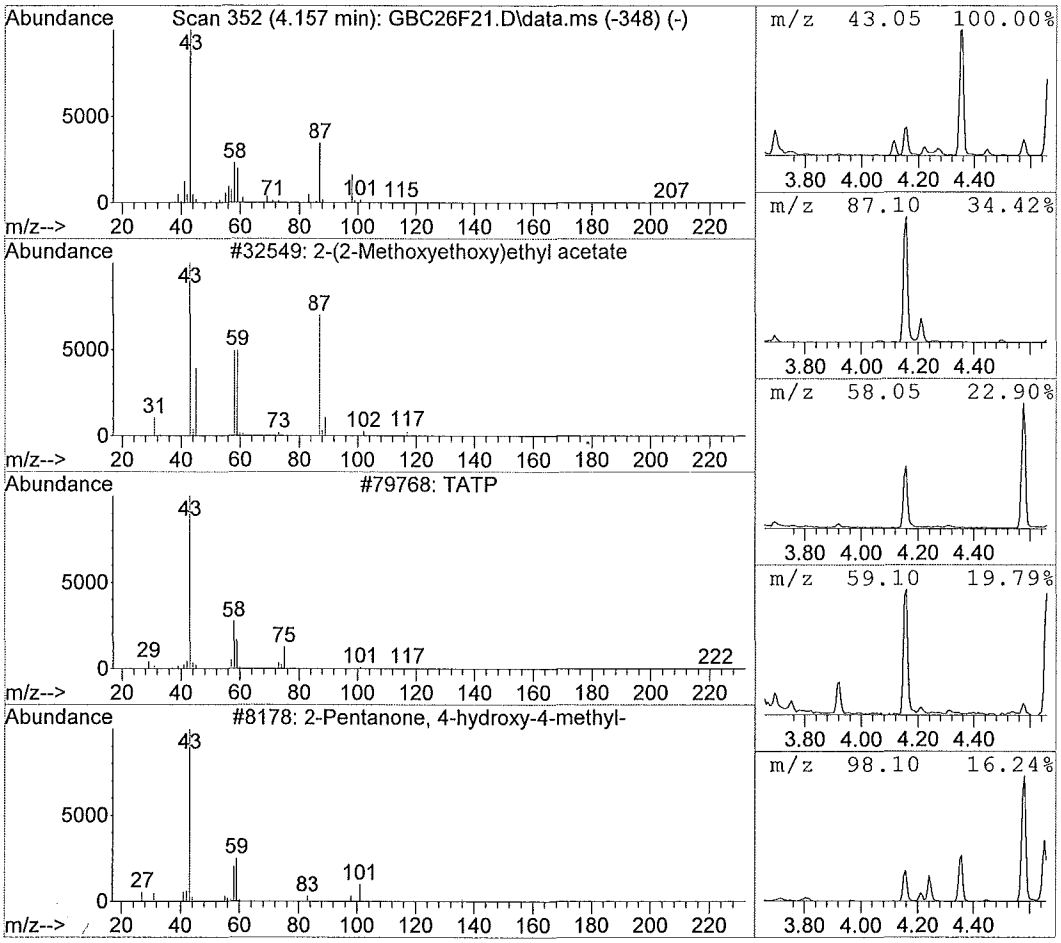


Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.16	2.46 ug/ml	212873	1,4-Dichlorobenzene-d4	1727437

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-(2-Methoxyethoxy)ethyl acetate	32549	1000351-95-4	53.00
2	TATP	79768	017088-37-8	38.00
3	2-Pentanone, 4-hydroxy-4-methyl-	8178	000123-42-2	28.00
4	2-Hexanone, 5-methyl-	7495	000110-12-3	17.00
5	2-Nonanone	19930	000821-55-6	17.00

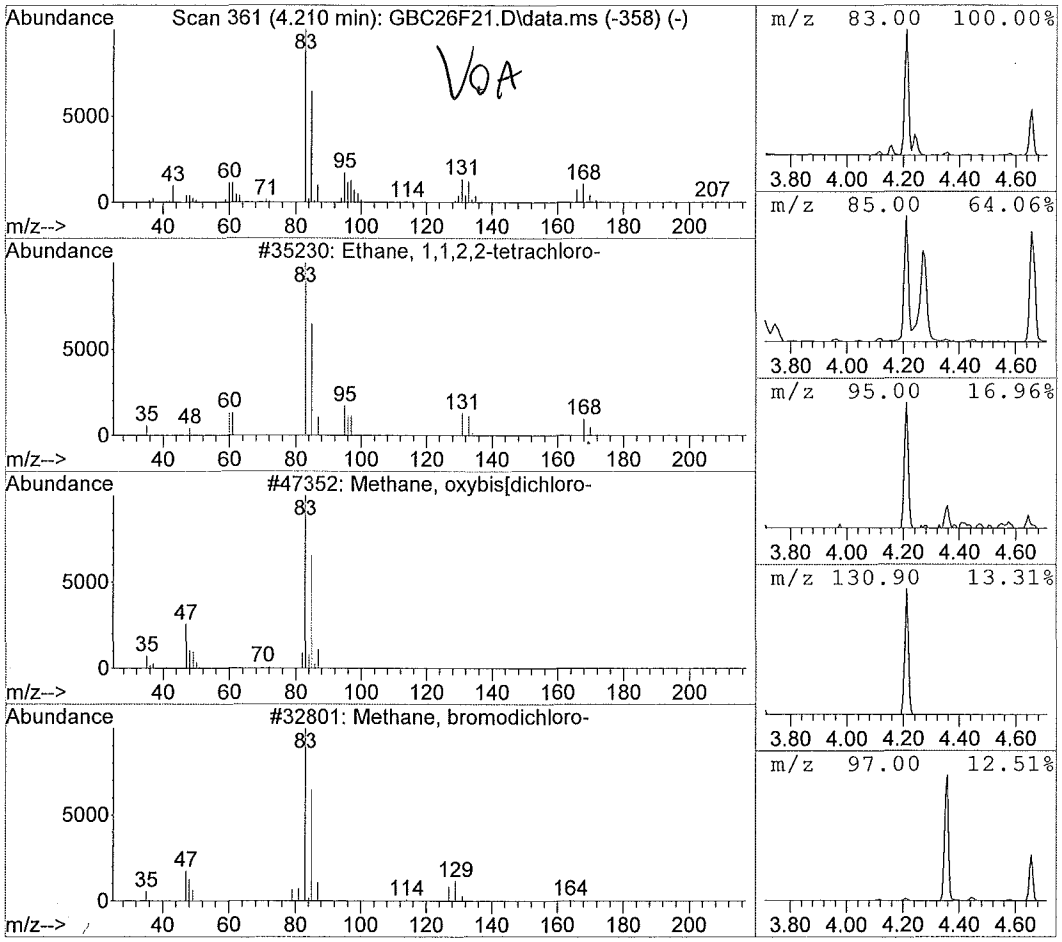


Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	2.08 ug/ml	179815	1,4-Dichlorobenzene-d4	1727437

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro-	35230	000079-34-5	97.00
2	Methane, oxybis[dichloro-	47352	020524-86-1	50.00
3	Methane, bromodichloro-	32801	000075-27-4	50.00
4	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	40.00
5	Ethane, 1,2,2-trichloro-1,1-difluor	36914	000354-21-2	38.00

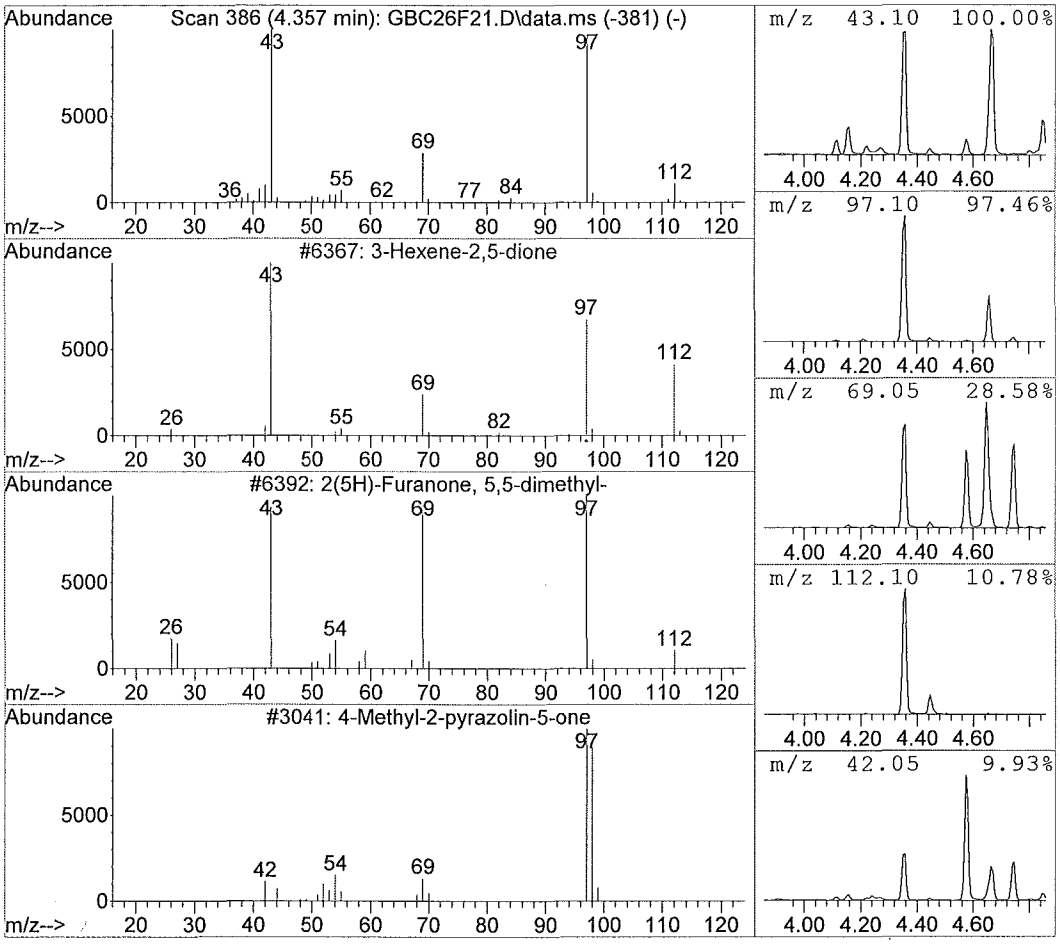


Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.36	12.38 ug/ml	1069442	1,4-Dichlorobenzene-d4	1727437

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	78.00
2	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
3	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	36.00
4	3-Hexen-2-one, 5-methyl-	6518	005166-53-0	9.00
5	1-(Trimethylsilyl)-1-propyne	6339	006224-91-5	9.00



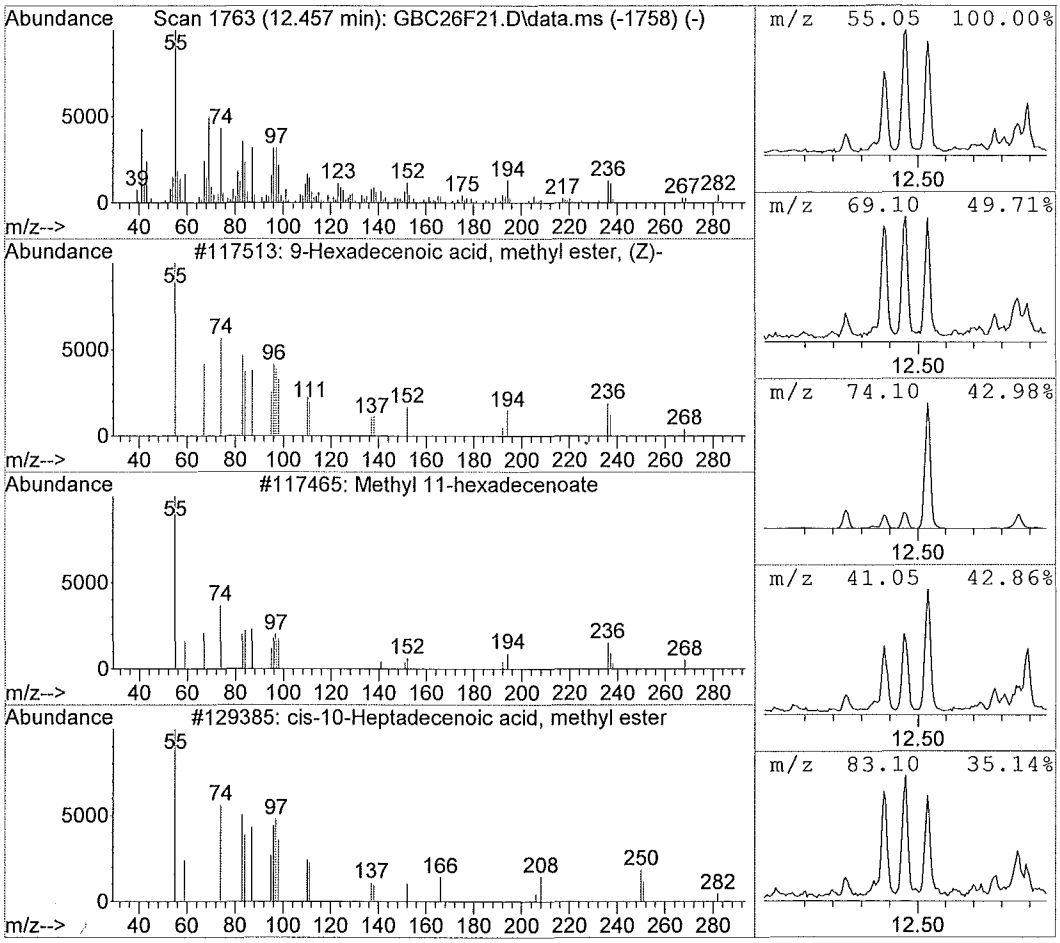
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.46	2.04 ug/ml	277762	Phenanthrene-d10	2717645

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117513	001120-25-8	99.00
2	Methyl 11-hexadecenoate	117465	1000336-35-5	98.00
3	cis-10-Heptadecenoic acid, methyl e	129385	1000333-62-1	95.00
4	Methyl hexadec-9-enoate	117464	010030-74-7	91.00
5	Methyl myristoleate	94118	056219-06-8	81.00

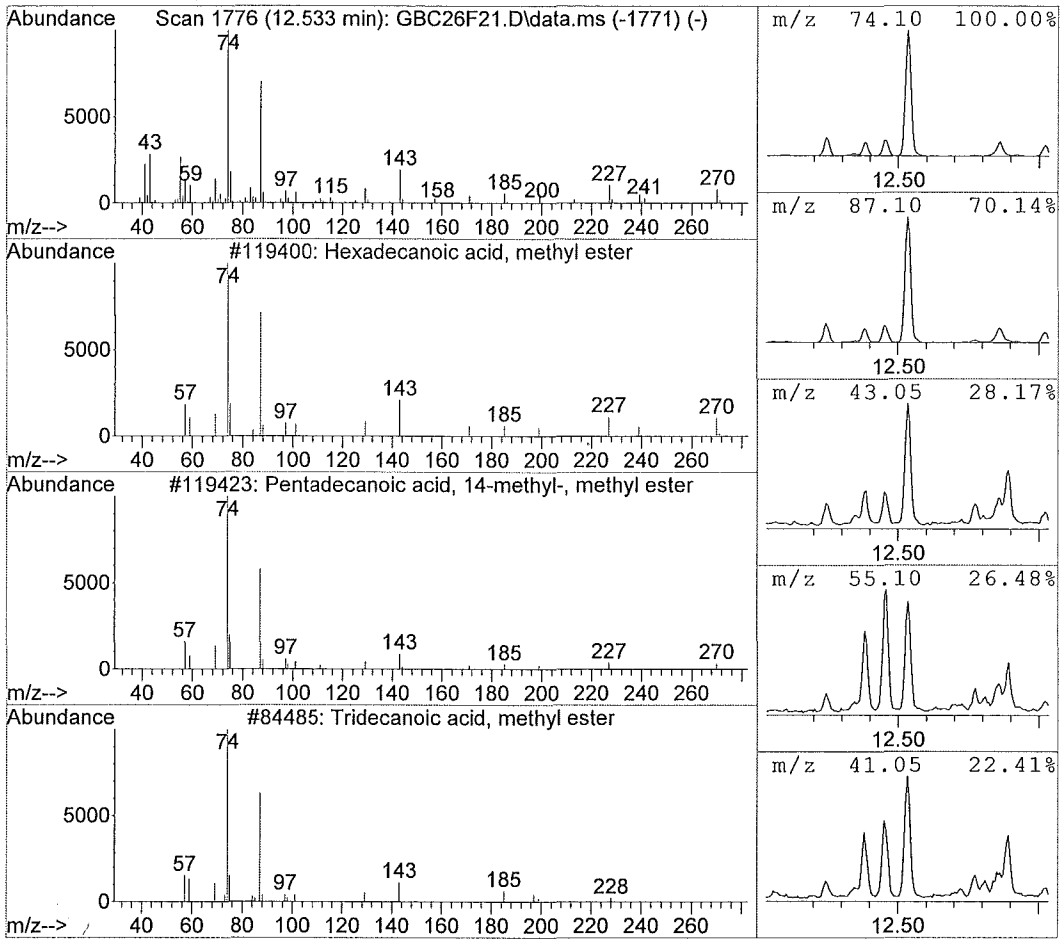


Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.53	3.26 ug/ml	443245	Phenanthrene-d10	2717645

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119400	000112-39-0	99.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	97.00
3	Tridecanoic acid, methyl ester	84485	001731-88-0	90.00
4	Methyl tetradecanoate	95860	000124-10-7	90.00
5	Pentadecanoic acid, methyl ester	107593	007132-64-1	80.00



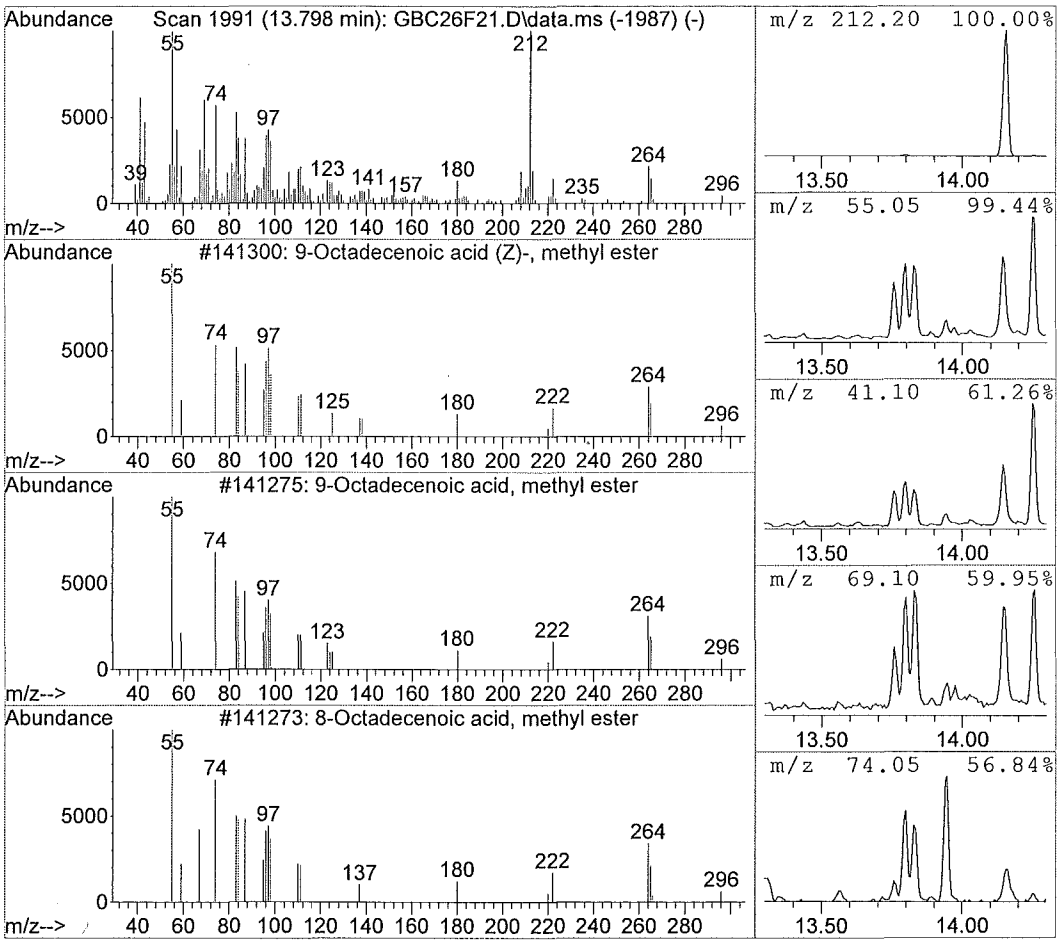
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.80	2.34 ug/ml	351559	Chrysene-d12	3005387

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenoic acid (Z)-, methyl es	141300	000112-62-9	99.00
2	9-Octadecenoic acid, methyl ester	141275	002462-84-2	99.00
3	8-Octadecenoic acid, methyl ester	141273	002345-29-1	99.00
4	9-Octadecenoic acid, methyl ester,	141306	001937-62-8	99.00
5	11-Octadecenoic acid, methyl ester	141291	052380-33-3	98.00



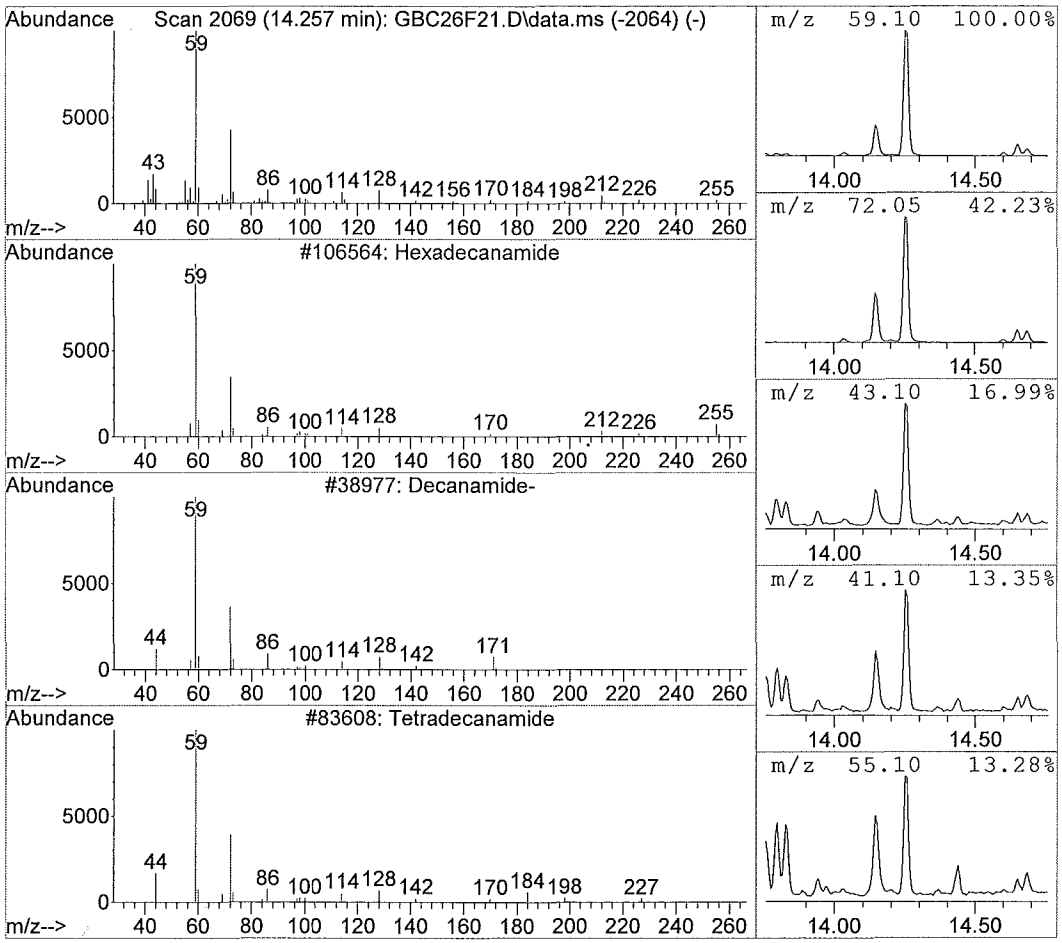
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	4.99 ug/ml	749391	Chrysene-d12	3005387

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	94.00
2	Decanamide-	38977	002319-29-1	90.00
3	Tetradecanamide	83608	000638-58-4	86.00
4	Dodecanamide	60439	001120-16-7	78.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00



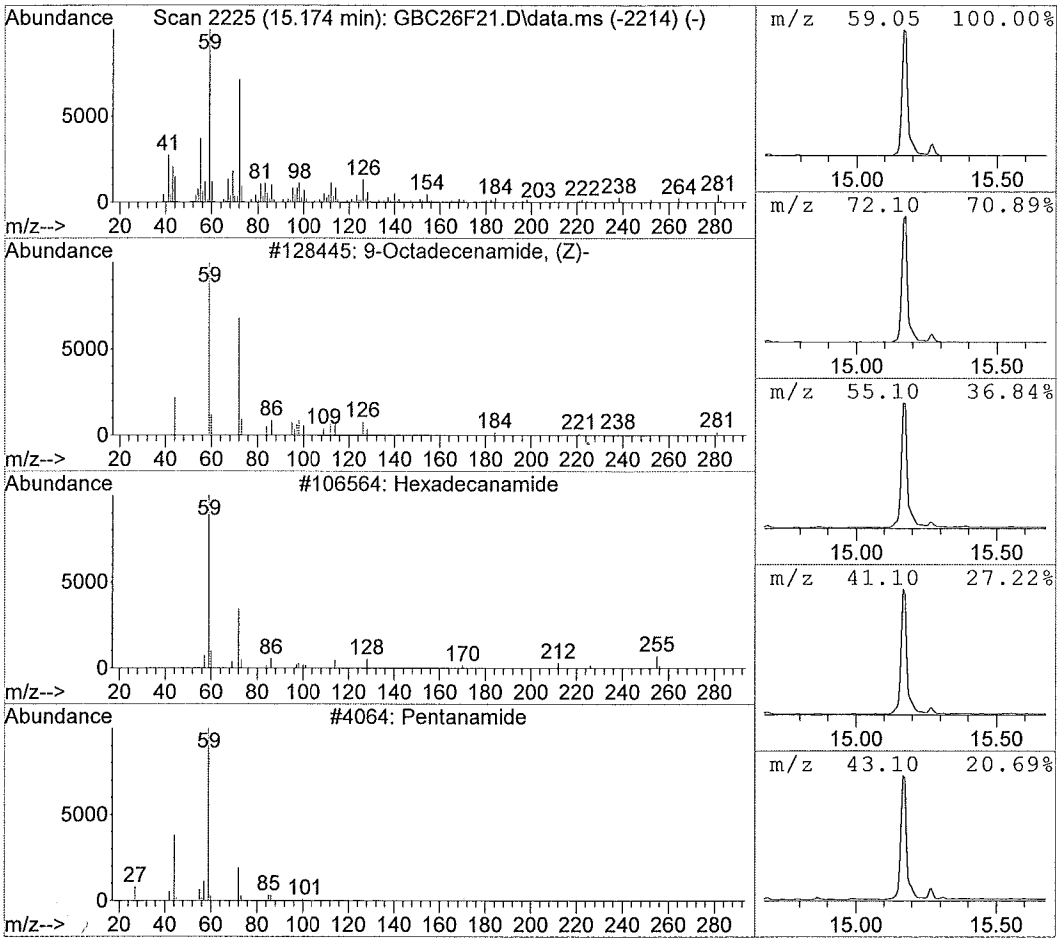
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	42.30 ug/ml	6356702	Chrysene-d12	3005387

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Hexadecanamide	106564	000629-54-9	56.00
3	Pentanamide	4064	000626-97-1	53.00
4	Decanamide-	38977	002319-29-1	53.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	53.00

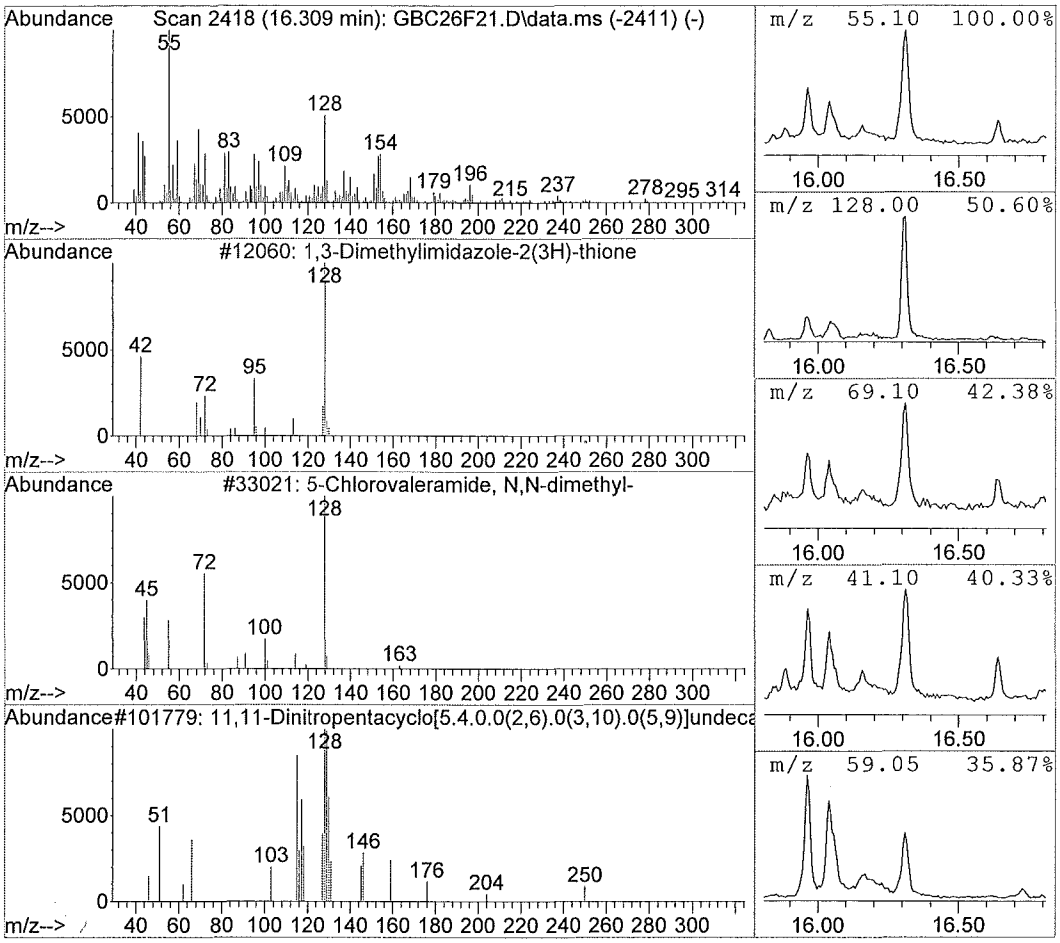


Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	3.51 ug/ml	528161	Chrysene-d12	3005387

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dimethylimidazole-2(3H)-thione	12060	006596-81-2	22.00
2	5-Chlorovaleramide, N,N-dimethyl-	33021	1000339-95-2	18.00
3	11,11-Dinitropentacyclo[5.4.0.0(2,6	101779	1000326-22-0	15.00
4	N-Methyl-9-aza-tricyclo[6.2.2.0(2,7	49531	013131-19-6	11.00
5	Cyclohexanecarboxamide	11823	001122-56-1	11.00

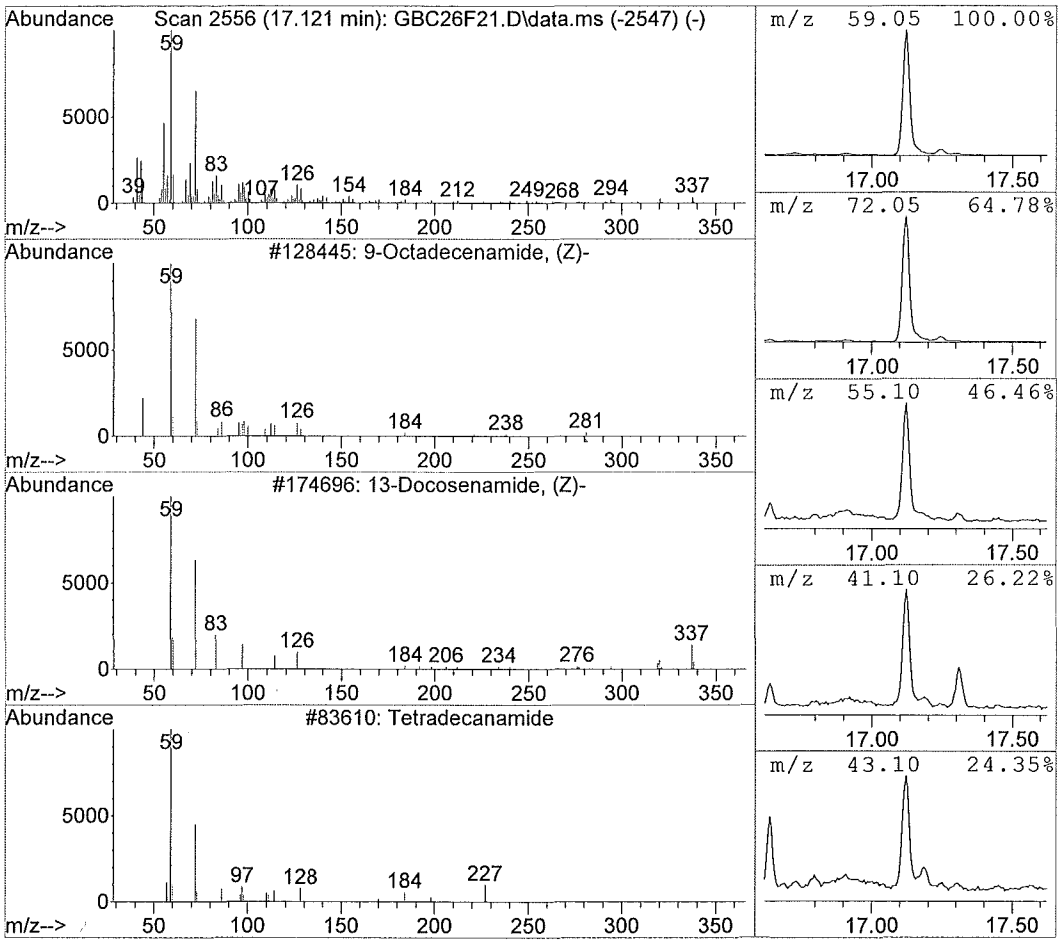


Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.12	6.03 ug/ml	911674	Perylene-d12	3024154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
2	13-Docosenamide, (Z)-	174696	000112-84-5	90.00
3	Tetradecanamide	83610	000638-58-4	72.00
4	Octadecanamide	130204	000124-26-5	64.00
5	Dodecanamide	60440	001120-16-7	47.00



Library Search Compound Report

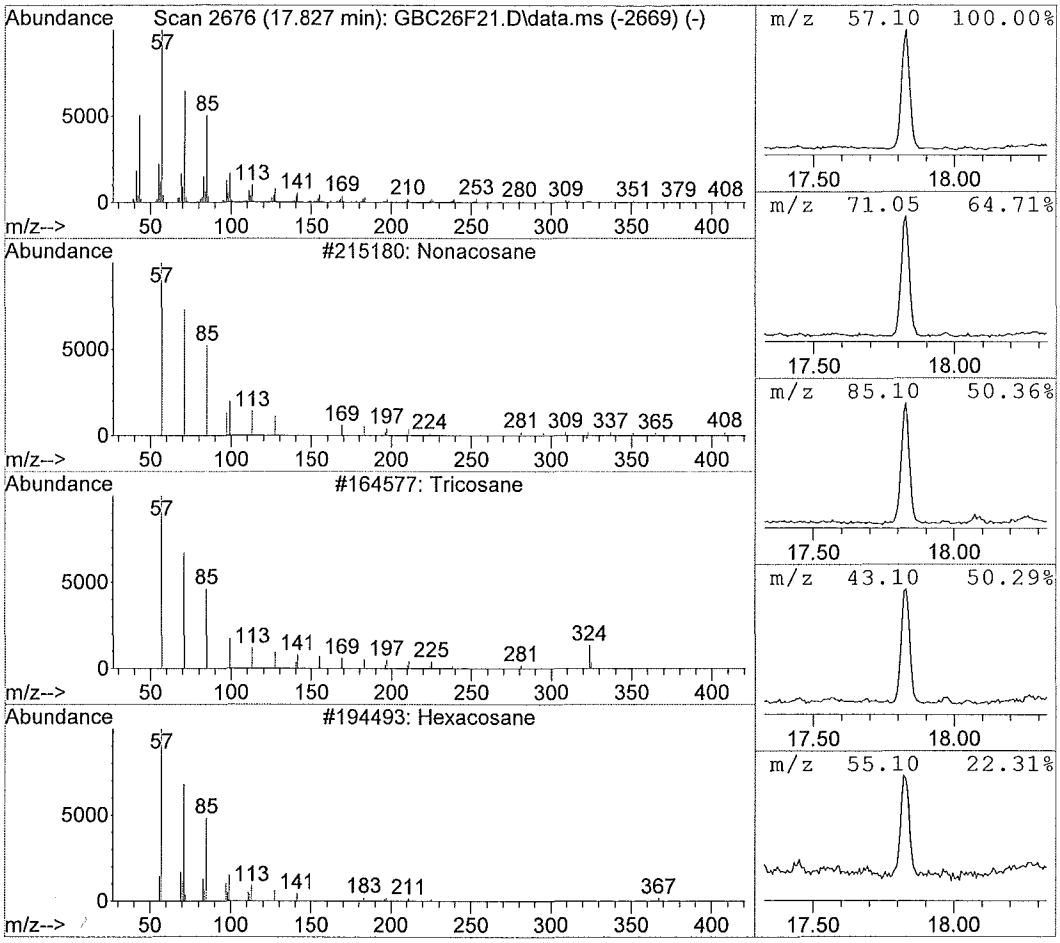
Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.83	2.48 ug/ml	375136	Perylene-d12	3024154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonacosane	215180	000630-03-5	94.00
2	Tricosane	164577	000638-67-5	93.00
3	Hexacosane	194493	000630-01-3	93.00
4	Tetratetracontane	241528	007098-22-8	91.00
5	Hentriacontane	223851	000630-04-6	91.00

SA



Library Search Compound Report

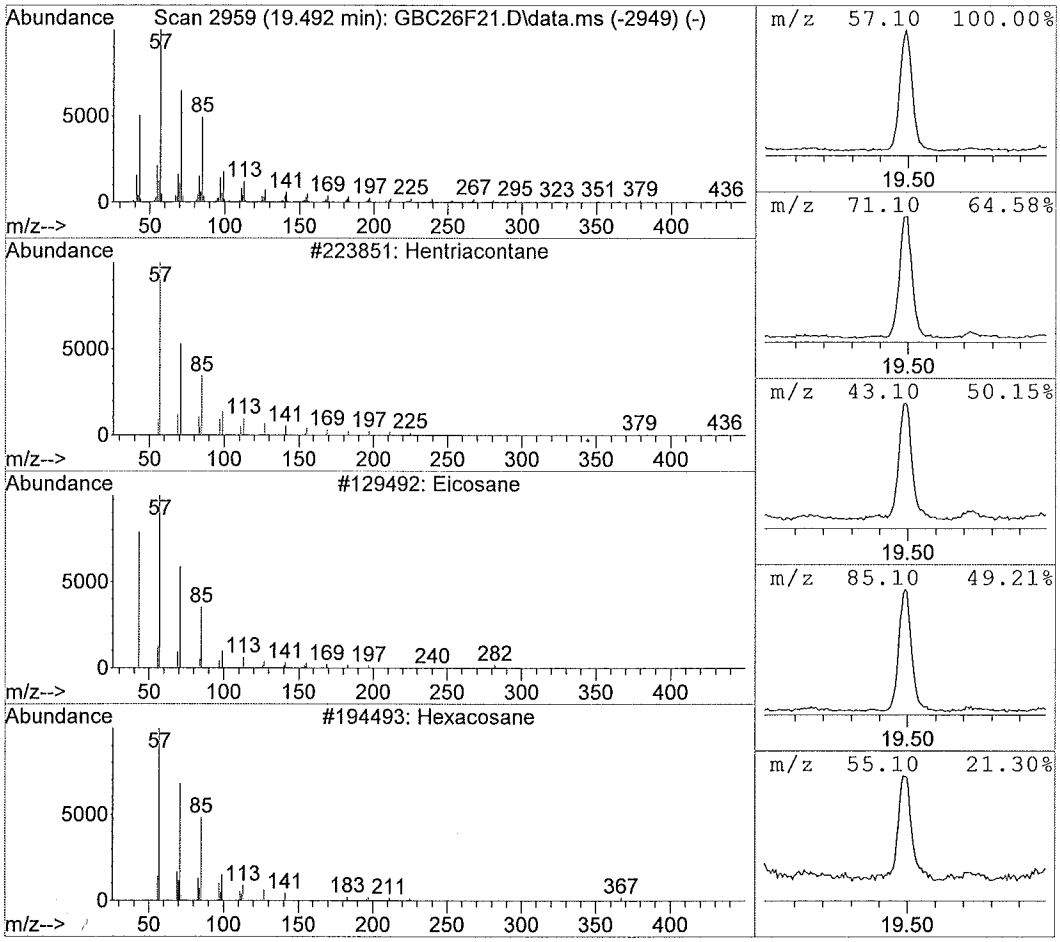
Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.49	3.53 ug/ml	533830	Perylene-d12	3024154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hentriacontane	223851	000630-04-6	99.00
2	Eicosane	129492	000112-95-8	97.00
3	Hexacosane	194493	000630-01-3	93.00
4	Octacosane	209565	000630-02-4	91.00
5	Tetracosane	175558	000646-31-1	91.00

SA

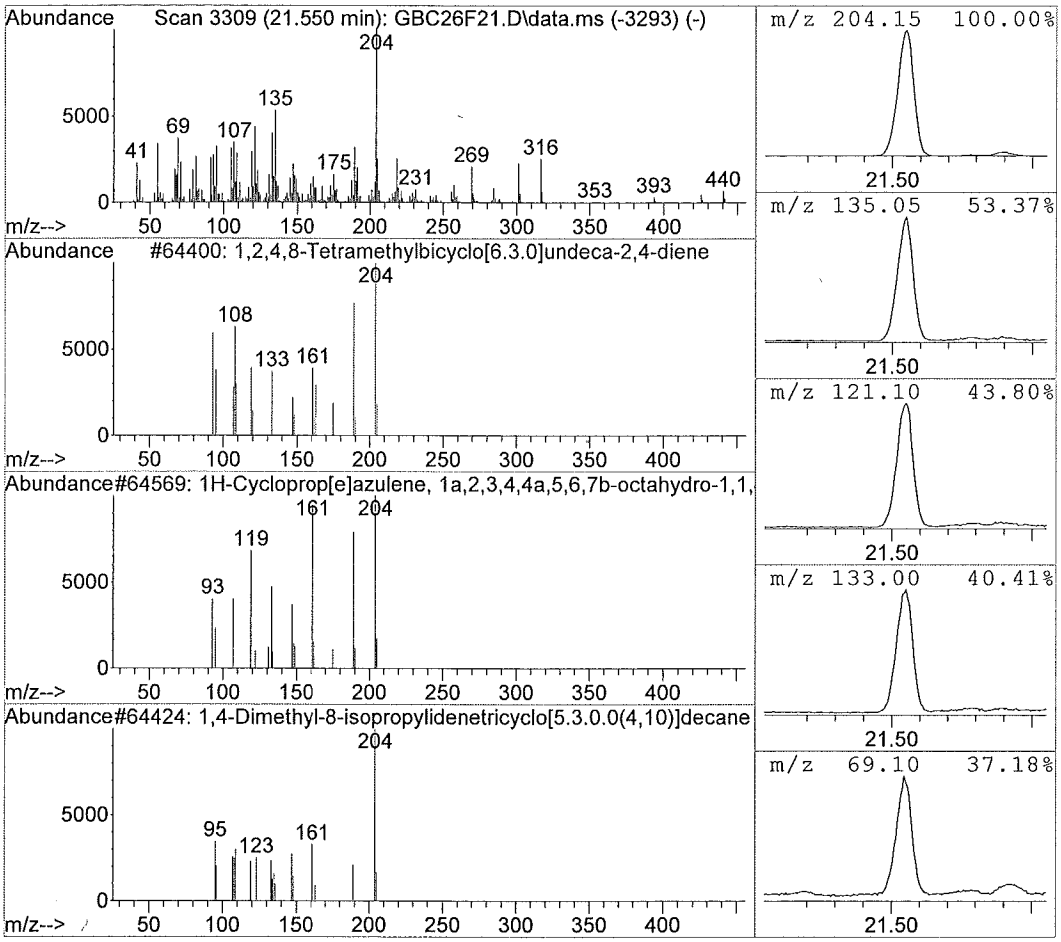


Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.55	34.05 ug/ml	5148495	Perylene-d12	3024154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0]un	64400	137235-51-9	56.00
2	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	46.00
3	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	46.00
4	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	45.00
5	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00



Library Search Compound Report

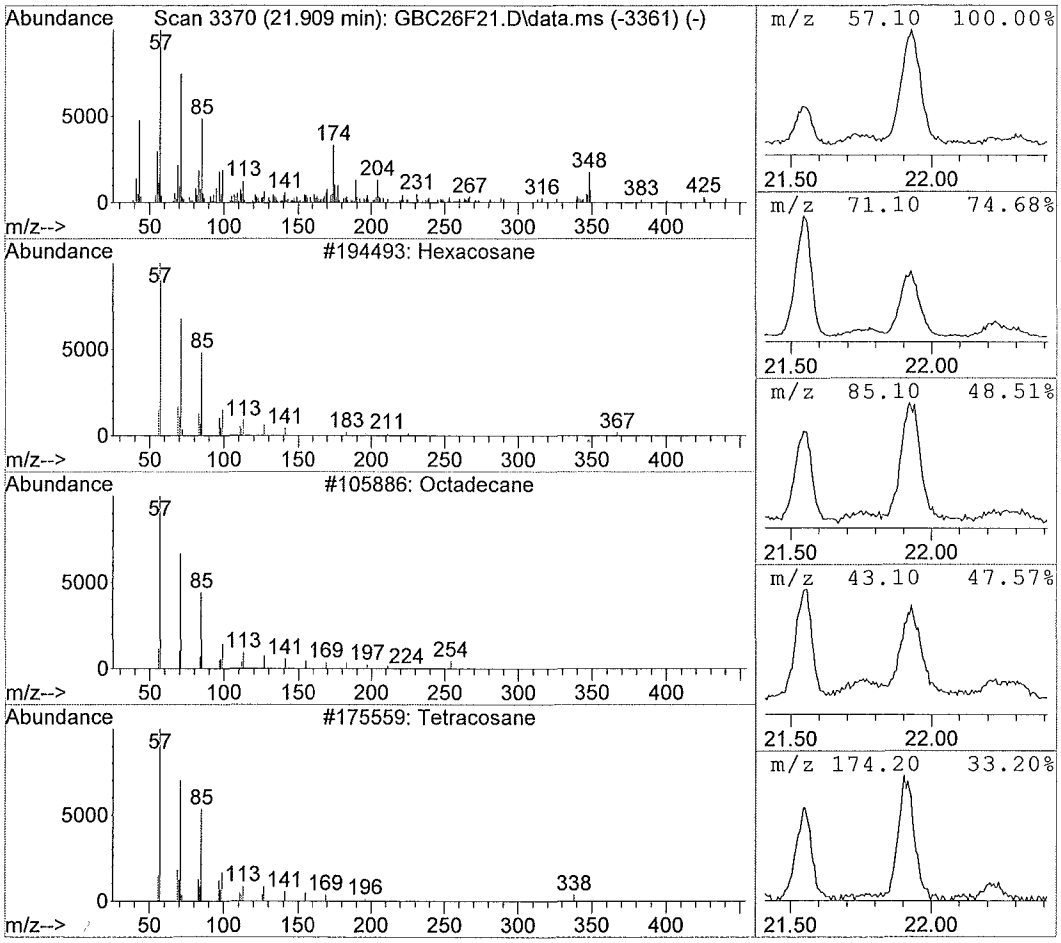
Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.91	4.08 ug/ml	616864	Perylene-d12	3024154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexacosane	194493	000630-01-3	70.00
2	Octadecane	105886	000593-45-3	70.00
3	Tetracosane	175559	000646-31-1	70.00
4	Heneicosane	141424	000629-94-7	62.00
5	Tetracosane, 11-decyl-	232379	055429-84-0	62.00

SA



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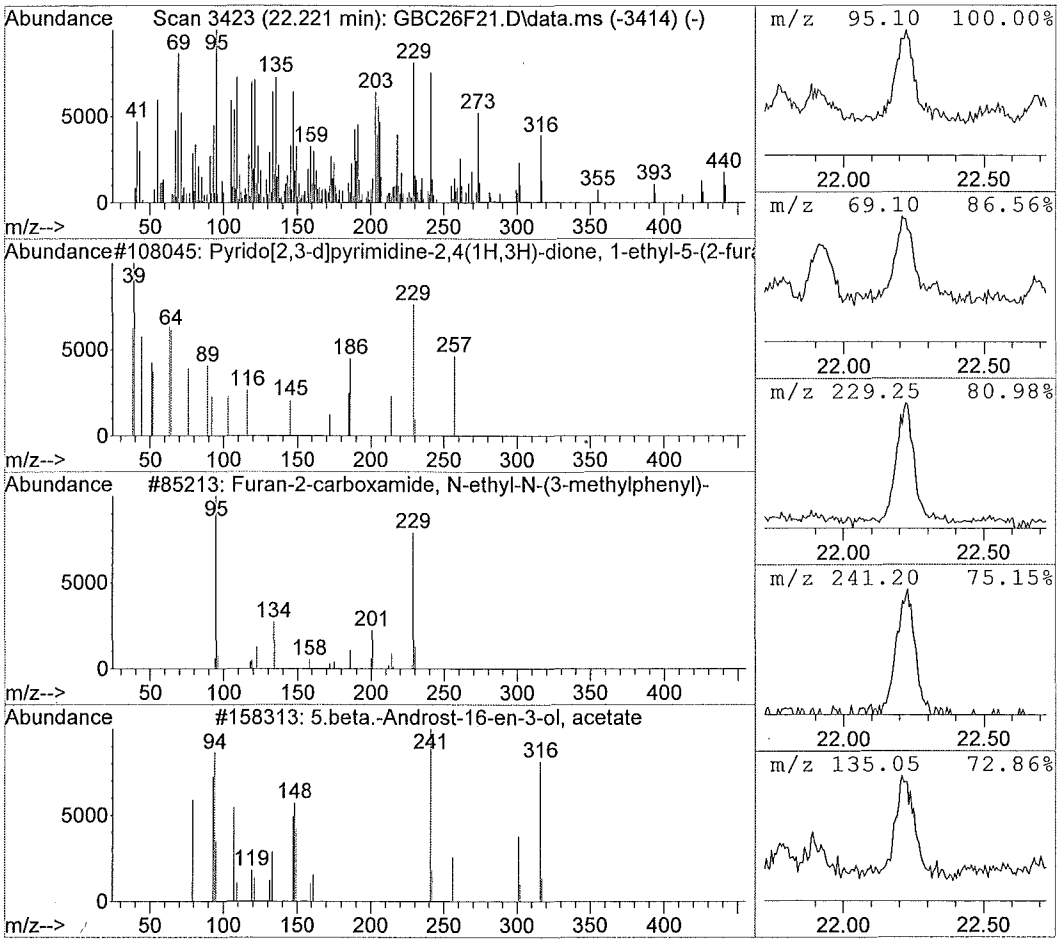
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.22	3.34 ug/ml	505164	Perylene-d12	3024154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-	108045	1000362-82-6	90.00
2	Furan-2-carboxamide, N-ethyl-N-(3-m	85213	1000308-20-3	42.00
3	5.beta.-Androst-16-en-3-ol, acetate	158313	1000196-50-8	38.00
4	Adamantane, 1-(4-methylphenylamino)	95017	019984-39-5	25.00
5	8H-[1,2,4]Triazino[4,3-b][1,2,4]tri	94679	1000319-79-0	25.00

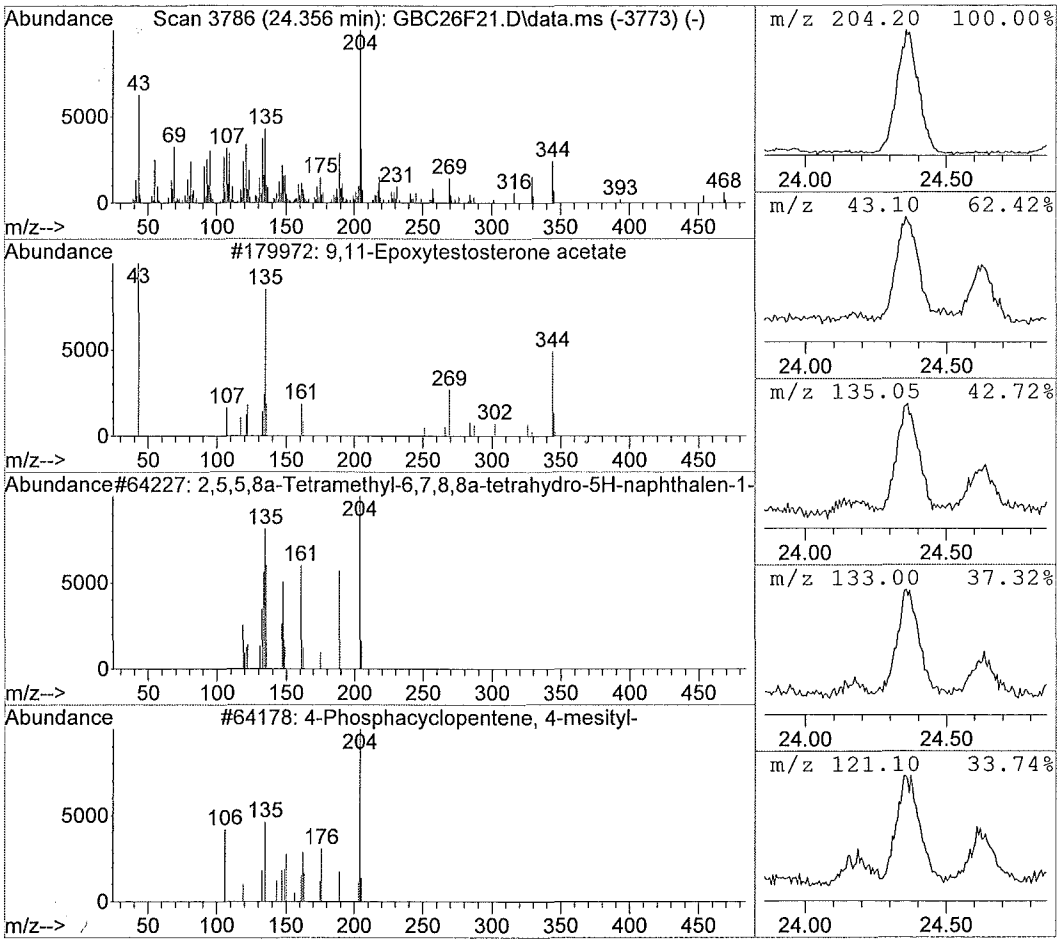


Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.36	4.73 ug/ml	715155	Perylene-d12	3024154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9,11-Epoxytestosterone acetate	179972	1000128-13-7	53.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	52.00
3	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	52.00
4	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	49.00
5	Coumarin, 3,4-dihydro-4,4,6,8-tetra	64132	249629-60-5	46.00

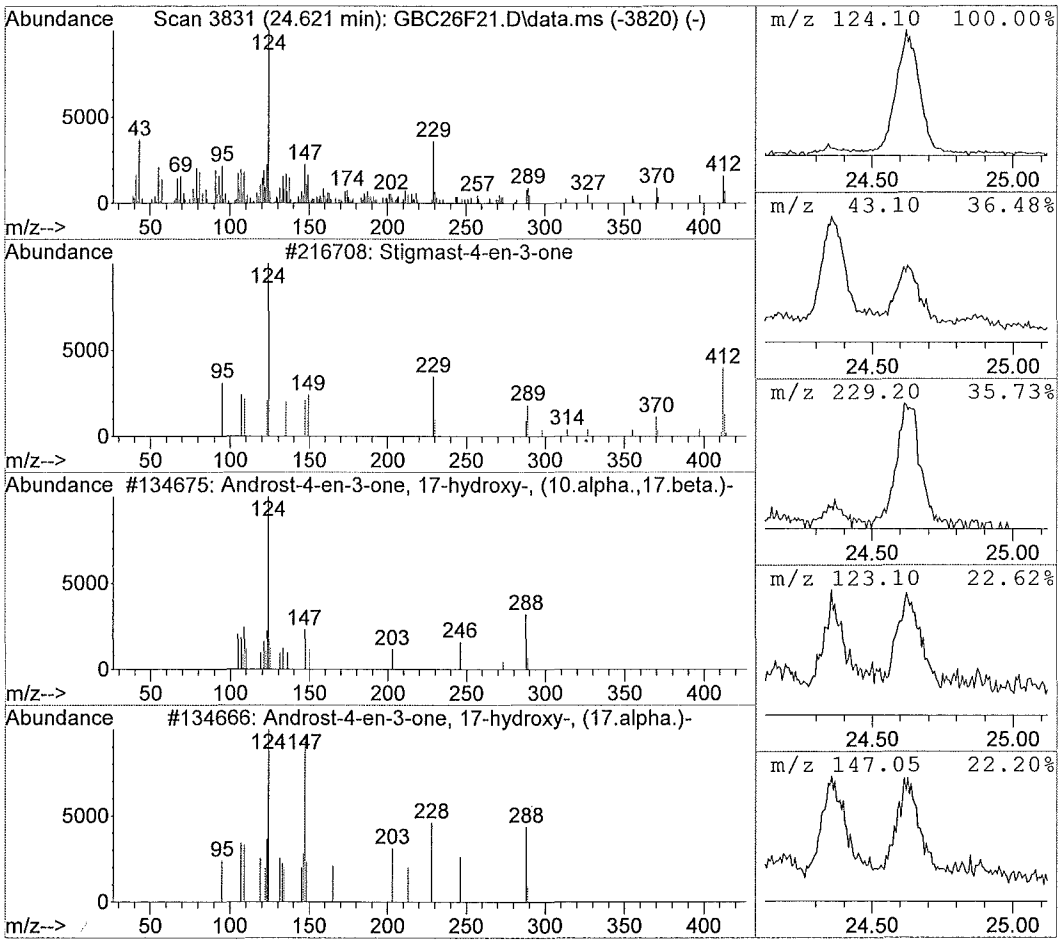


Data File : Z:\G\2015\JUN15\02JUN15\GBC26F21.D Vial: 22
Acq On : 06/03/2015 02:55 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.62	3.47 ug/ml	524970	Perylene-d12	3024154

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	87.00
2	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	78.00
3	Androst-4-en-3-one, 17-hydroxy-, (1	134666	000481-30-1	50.00
4	Pyrazine, 2-methoxy-3-methyl-	10348	002847-30-5	49.00
5	Testosterone	134628	000058-22-0	46.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L79

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293022

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBC27F22

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L79

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293022

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBC27F22

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine[1]	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	21.	J
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	190	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F9L79

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293022
Sample wt/vol: 30.1 (g/mL) g Lab File ID: GBC27F22
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/03/2015
GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.14	590	JB
02	625-86-5	Furan, 2,5-dimethyl-	2.50	580	JN
03		Unknown 2-Pentanone, 4-hydroxy-	3.39	310	J
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.61	14000	J
05		Unknown 2(5H)-Furanone, 5,5-dimethyl-	4.35	320	J
06		Unknown 2-Chloro-5-hydroxy-2,4,6-cycloheptatrien	7.26	120	J
07	638-58-4	Tetradecanamide	12.89	92.	JN
08	629-54-9	Hexadecanamide	14.25	270	JNB
09	301-02-0	9-Octadecenamide, (Z)-	15.17	1900	JNB
10	629-54-9	Hexadecanamide	15.27	94.	JN
11		Unknown 9-Octadecenamide, (Z)-	15.96	130	JB
12		Unknown 9-Octadecenamide, (Z)-	16.04	110	JB
13		Unknown 2,6-Decadienoic acid, 3-methyl-, ethyl e	16.31	220	J
14	112-84-5	13-Docosenamide, (Z)-	17.12	420	JN
15		Unknown 2H-Cyclopentacyclooctene, 4,5,6,7,8,9-he	21.54	1500	J
16		Unknown 2,3-2H-Quinolin-2-one, 3,3,4,6-tetrameth	21.90	110	J
17		Unknown Spiro[4.5]dec-7-ene, 1,8-dimethyl-4-(1-m	22.22	150	J
18		Unknown (1S,6R,9S,10S)-5,5,9,10-Tetramethyltricy	23.22	130	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	170	J

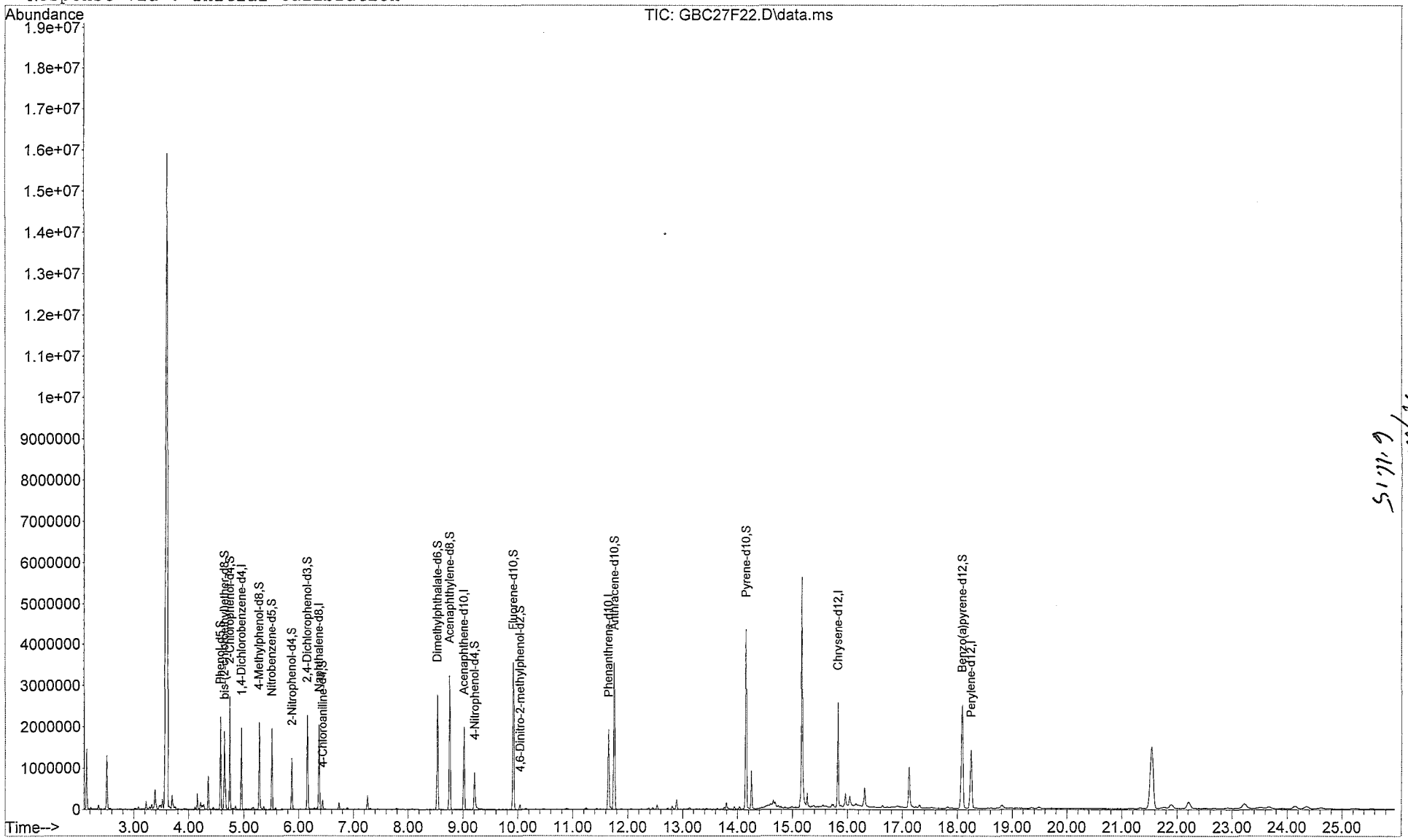
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 14:48:22 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:48:22 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	330634	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1247750	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	695642	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1132568	20.00 ug/ml
73) Chrysene-d12	15.83	240	1083754	20.00 ug/ml
81) Perylene-d12	18.25	264	1051770	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	863610	37.456ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	421490	29.856ug/mL
7) 2-Chlorophenol-d4	4.75	132	834410	36.860ug/ml
13) 4-Methylphenol-d8	5.28	113	528383	29.435ug/mL
17) Nitrobenzene-d5	5.51	128	375200	35.840ug/ml
21) 2-Nitrophenol-d4	5.87	143	318962	27.340ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	615291	36.001ug/mL
28) 4-Chloroaniline-d4	6.43	131	91582	4.940ug/mL
42) Dimethylphthalate-d6	8.53	166	1833290	43.334ug/mL
45) Acenaphthylene-d8	8.76	160	2178153	38.578ug/mL
50) 4-Nitrophenol-d4	9.21	143	310546	34.471ug/mL
57) Fluorene-d10	9.92	176	1536173	41.805ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	28067	3.773ug/mL
69) Anthracene-d10	11.76	188	2373823	41.434ug/mL
75) Pyrene-d10	14.16	212	2048075	41.568ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1912819	40.094ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

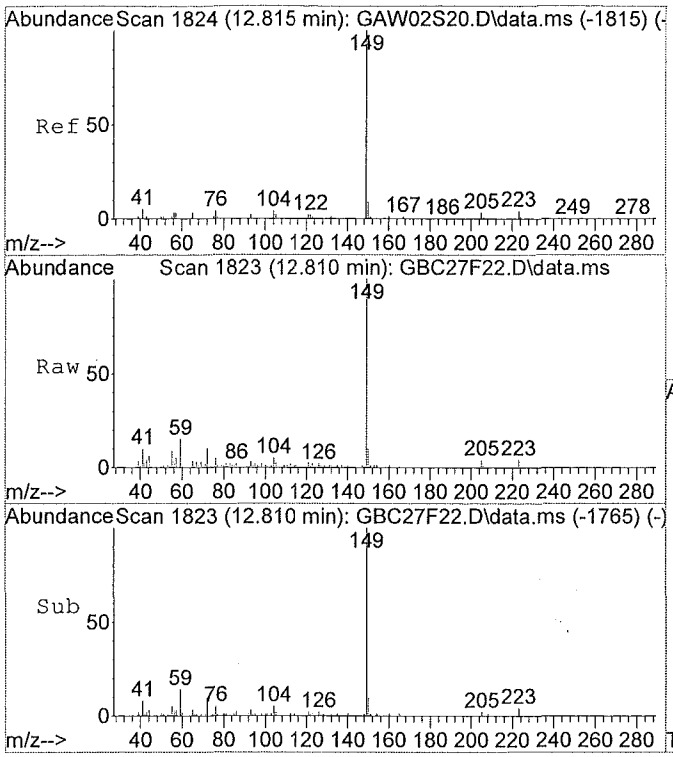
Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:48:22 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	12.81	149	43270	0.554ug/ml	98
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

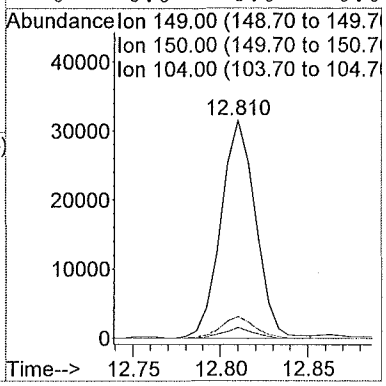
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#71
Di-n-butylphthalate
Concen: 0.55 ug/ml
RT: 12.81 min Scan# 1823
Delta R.T. -0.01 min
Lab File: GBC27F22.D
Acq: 06/03/2015 03:28

Tgt Ion:149 Resp: 43270

Ion	Ratio	Lower	Upper
149	100		
150	9.6	6.4	11.8
104	4.2	3.6	6.6
0	0.0	0.0	0.0



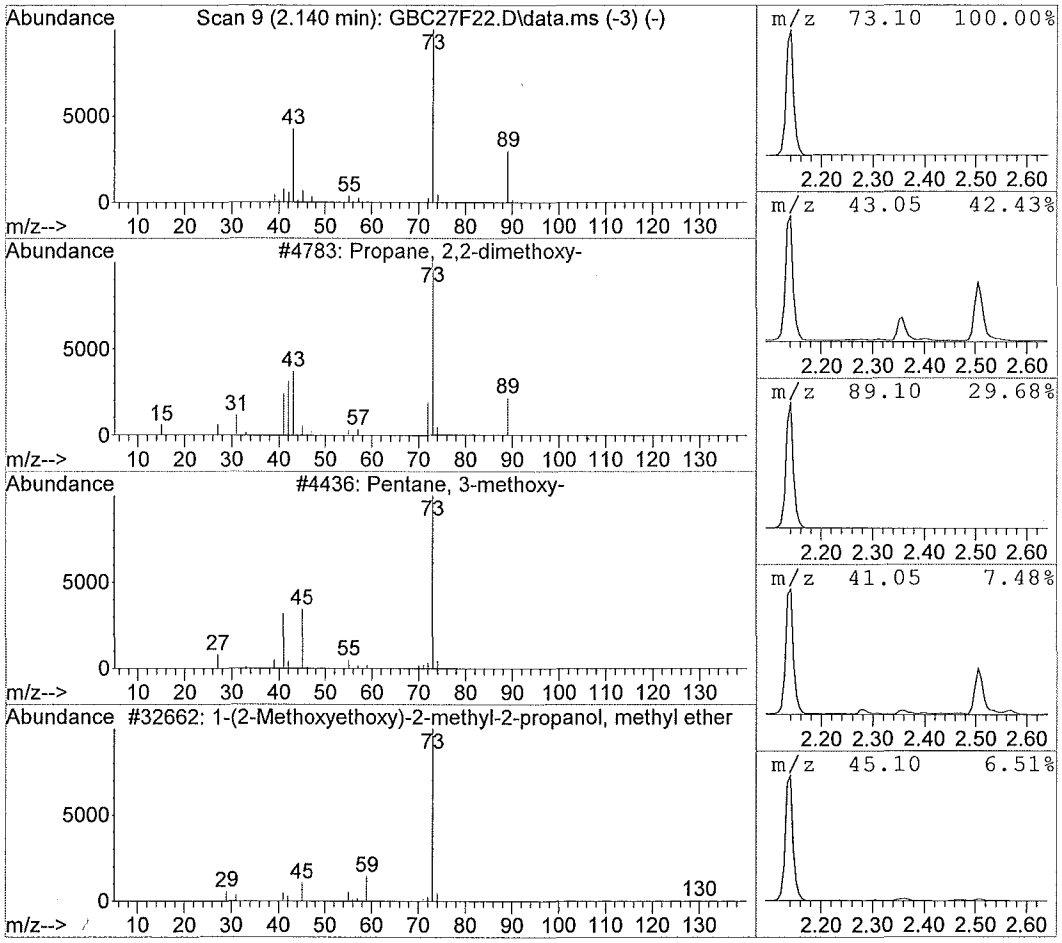
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.14	15.60 ug/ml	1445793	1,4-Dichlorobenzene-d4	1853445

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4783	000077-76-9	56.00
2	Pentane, 3-methoxy-	4436	036839-67-5	9.00
3	1-(2-Methoxyethoxy)-2-methyl-2-prop	32662	1000364-24-4	9.00
4	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
5	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00

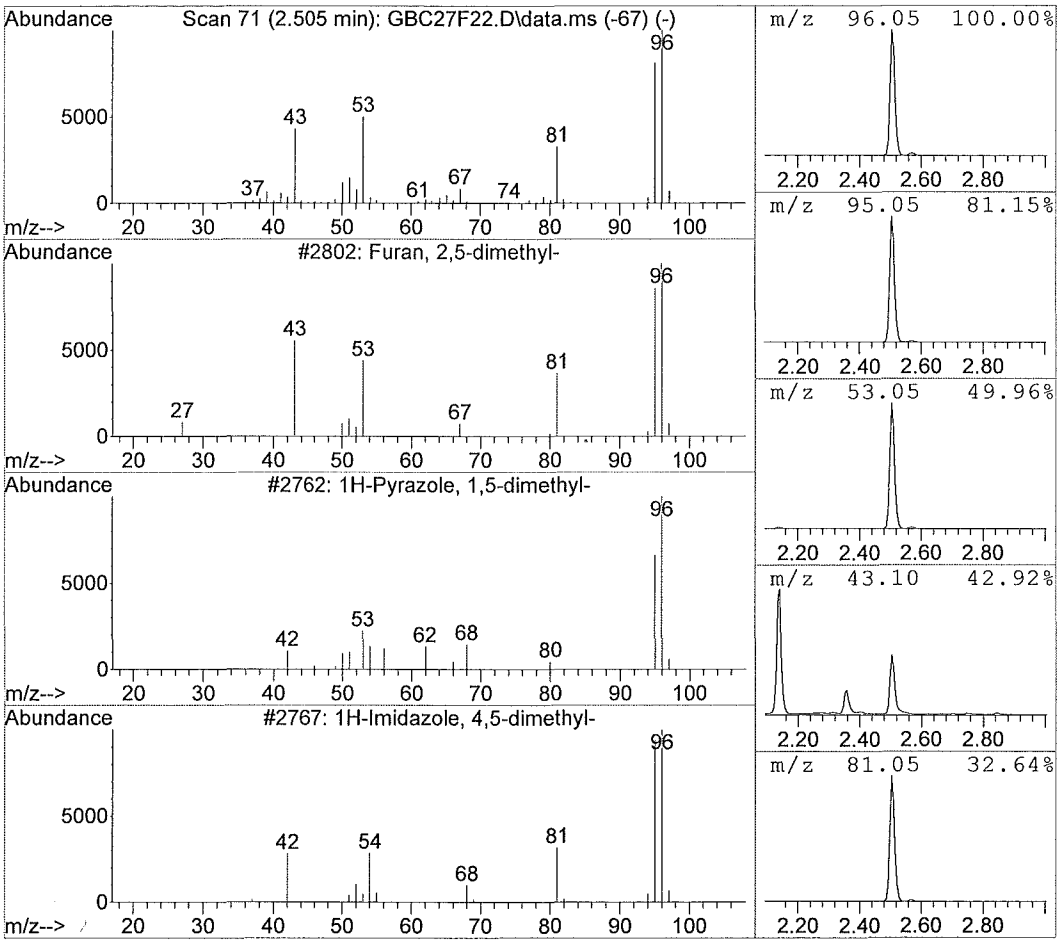


Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.50	15.31 ug/ml	1418948	1,4-Dichlorobenzene-d4	1853445

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2802	000625-86-5	95.00
2	1H-Pyrazole, 1,5-dimethyl-	2762	000694-31-5	43.00
3	1H-Imidazole, 4,5-dimethyl-	2767	002302-39-8	38.00
4	3,5-Dimethylpyrazole	2749	000067-51-6	38.00
5	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	38.00

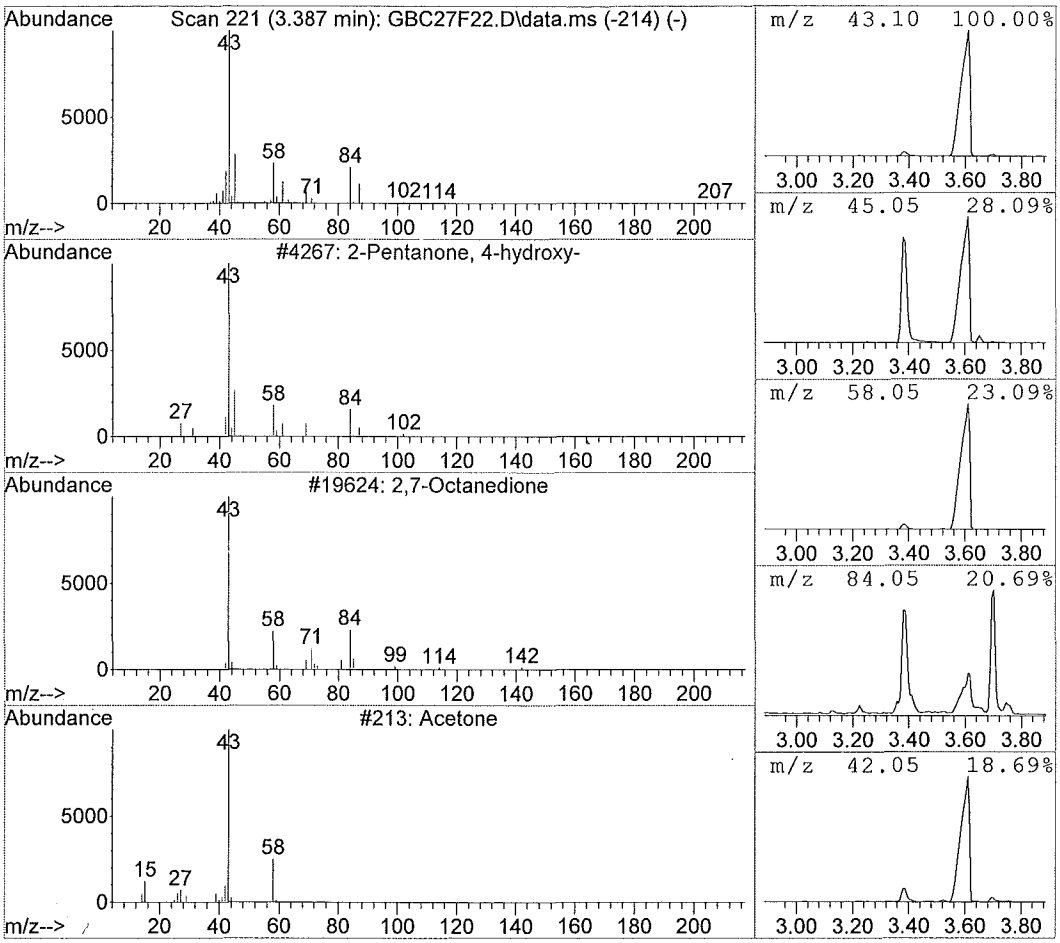


Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.39	8.13 ug/ml	753459	1,4-Dichlorobenzene-d4	1853445

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	74.00
2	2,7-Octanedione	19624	001626-09-1	25.00
3	Acetone	213	000067-64-1	16.00
4	Isopropyl acetate	4253	000108-21-4	12.00
5	Ethanol, 2-methoxy-, acetate	8703	000110-49-6	12.00

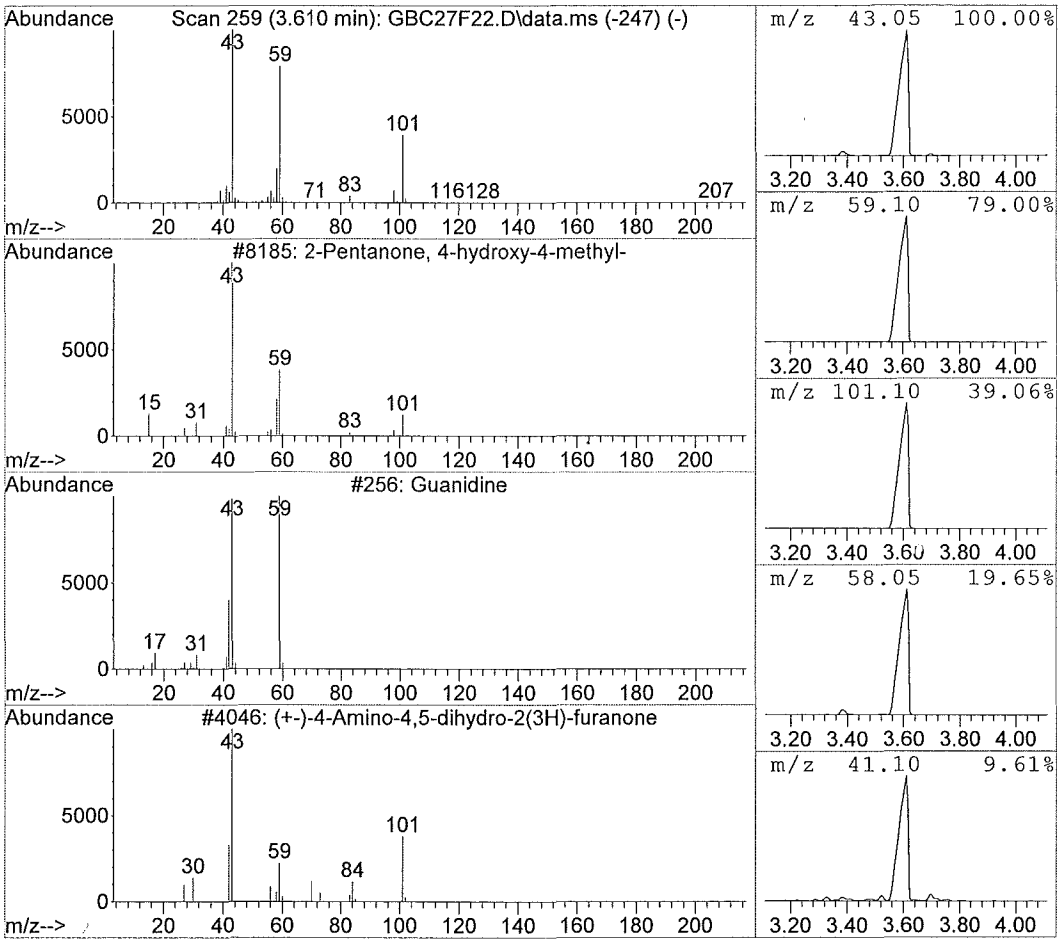


Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.61	377.04 ug/ml	34941550	1,4-Dichlorobenzene-d4	1853445

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	Guanidine	256	000113-00-8	43.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	35.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	Propanamide, N-ethyl-	4082	005129-72-6	10.00

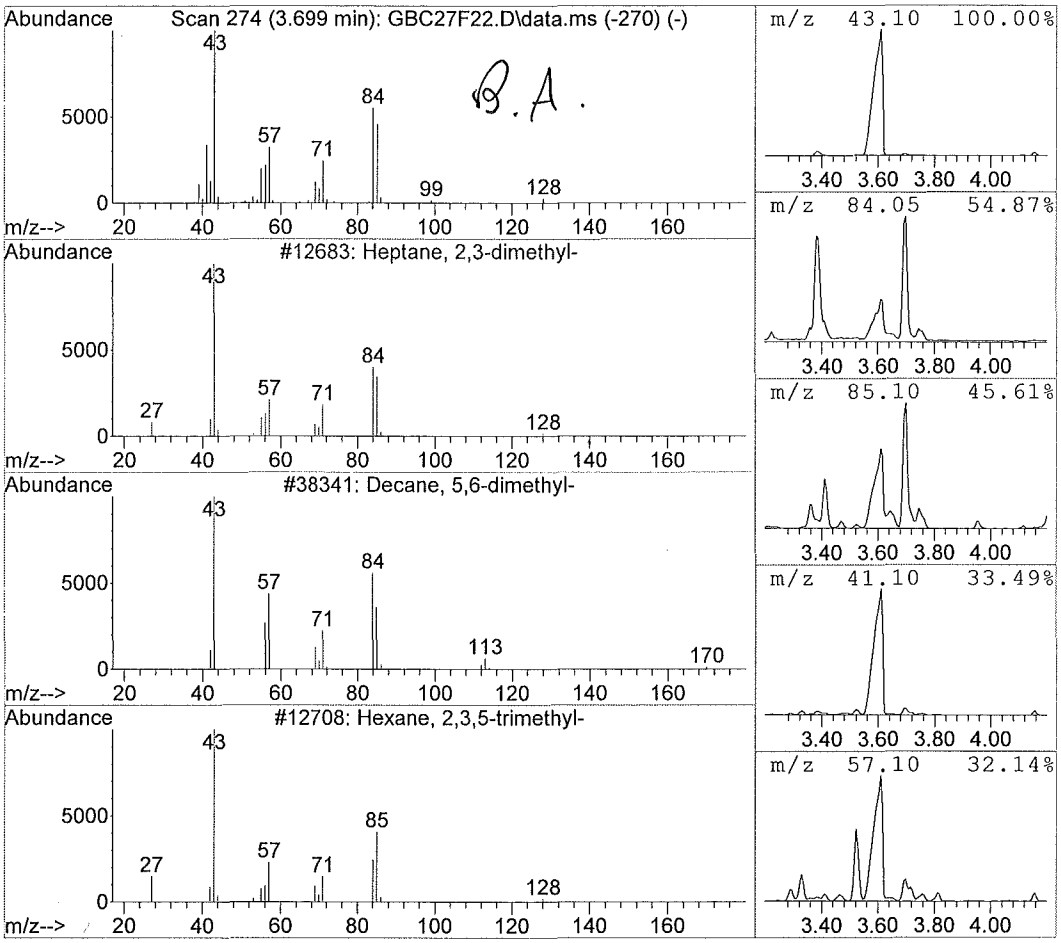


Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.70	4.62 ug/ml	428133	1,4-Dichlorobenzene-d4	1853445

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl-	12683	003074-71-3	87.00
2	Decane, 5,6-dimethyl-	38341	001636-43-7	72.00
3	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	64.00
4	Hexane, 3-ethyl-	7621	000619-99-8	53.00
5	Nonane, 4-ethyl-5-methyl-	38351	001632-71-9	53.00



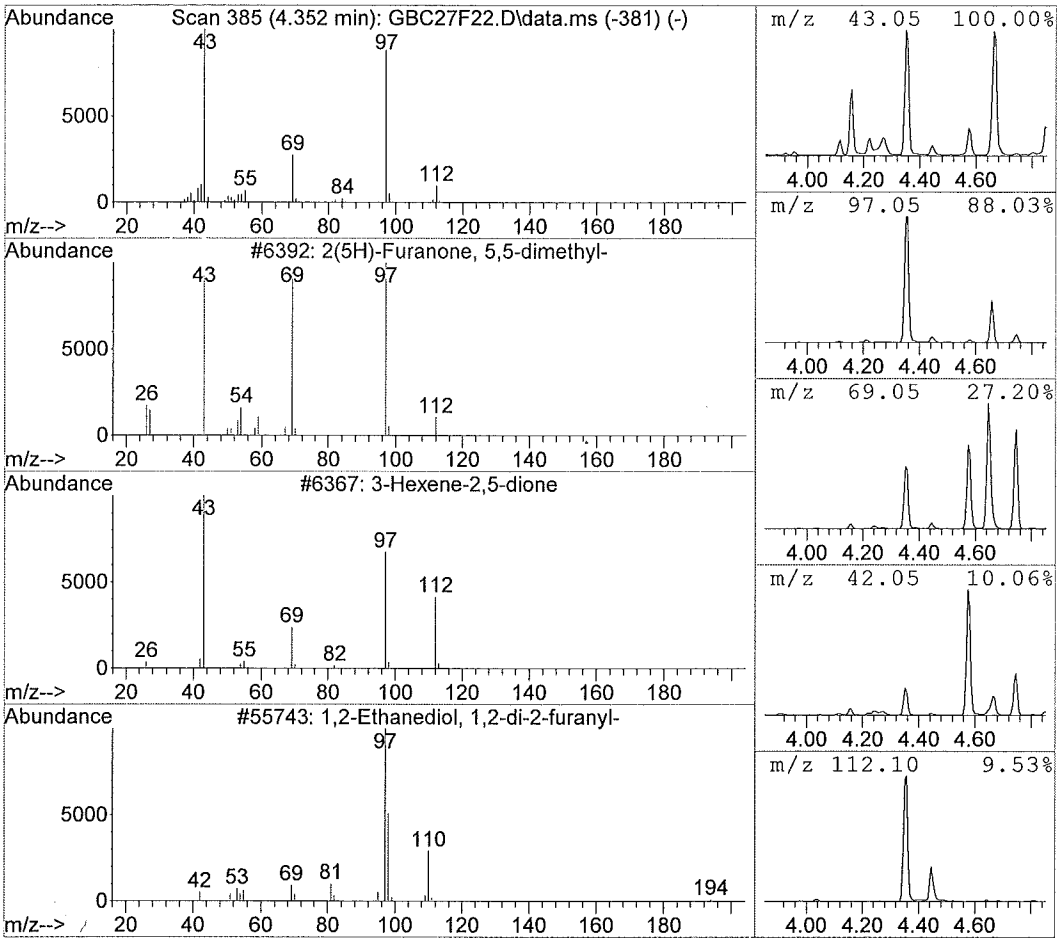
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	8.55 ug/ml	792470	1,4-Dichlorobenzene-d4	1853445

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	64.00
2	3-Hexene-2,5-dione	6367	004436-75-3	64.00
3	1,2-Ethanediol, 1,2-di-2-furanyl-	55743	004464-77-1	33.00
4	5-Hexen-2-one	3159	000109-49-9	9.00
5	Cyclohexane, 1,3-dimethyl-, cis-	6801	000638-04-0	9.00

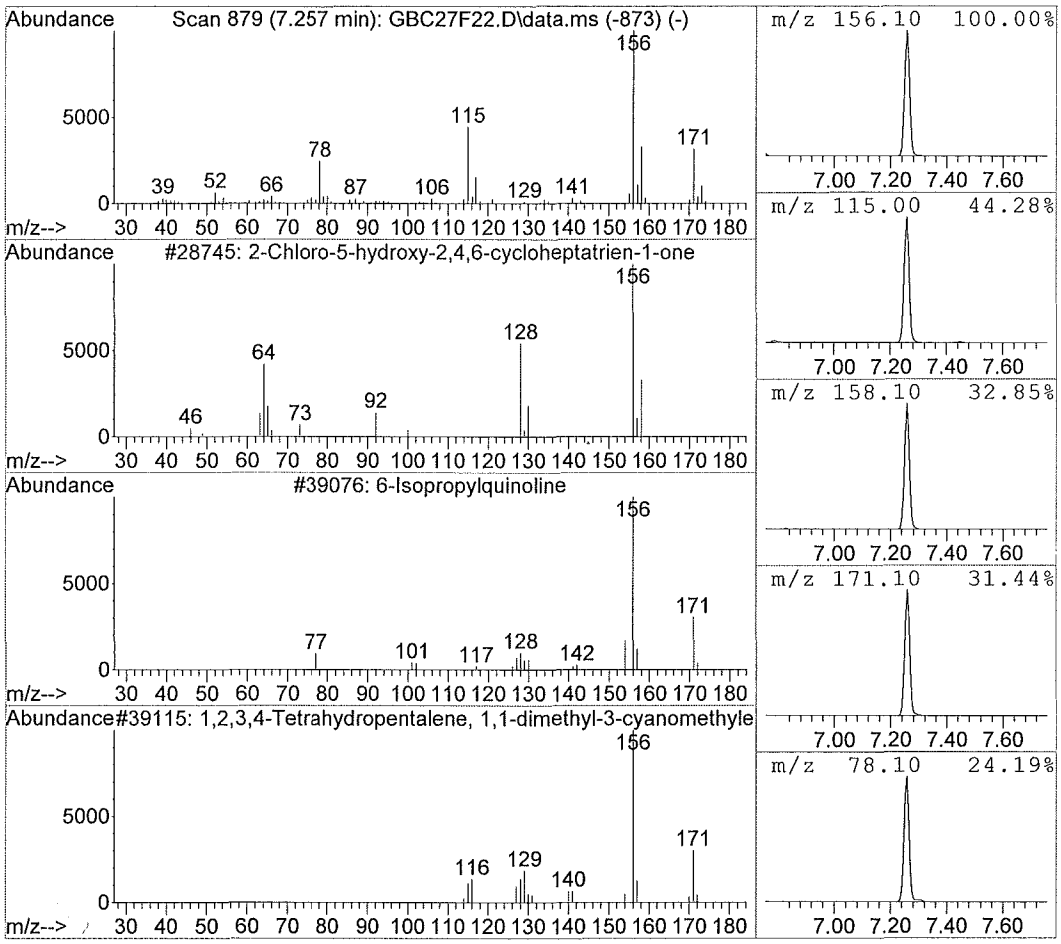


Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.26	3.30 ug/ml	400374	Naphthalene-d8	2429273

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Chloro-5-hydroxy-2,4,6-cyclohepta	28745	007009-16-7	43.00
2	6-Isopropylquinoline	39076	000135-79-5	38.00
3	1,2,3,4-Tetrahydropentalene, 1,1-di	39115	1000217-18-6	37.00
4	Benzene, 2,5-cyclohexadien-1-yl-	28511	004794-05-2	28.00
5	Tebuthiuron	84860	034014-18-1	25.00

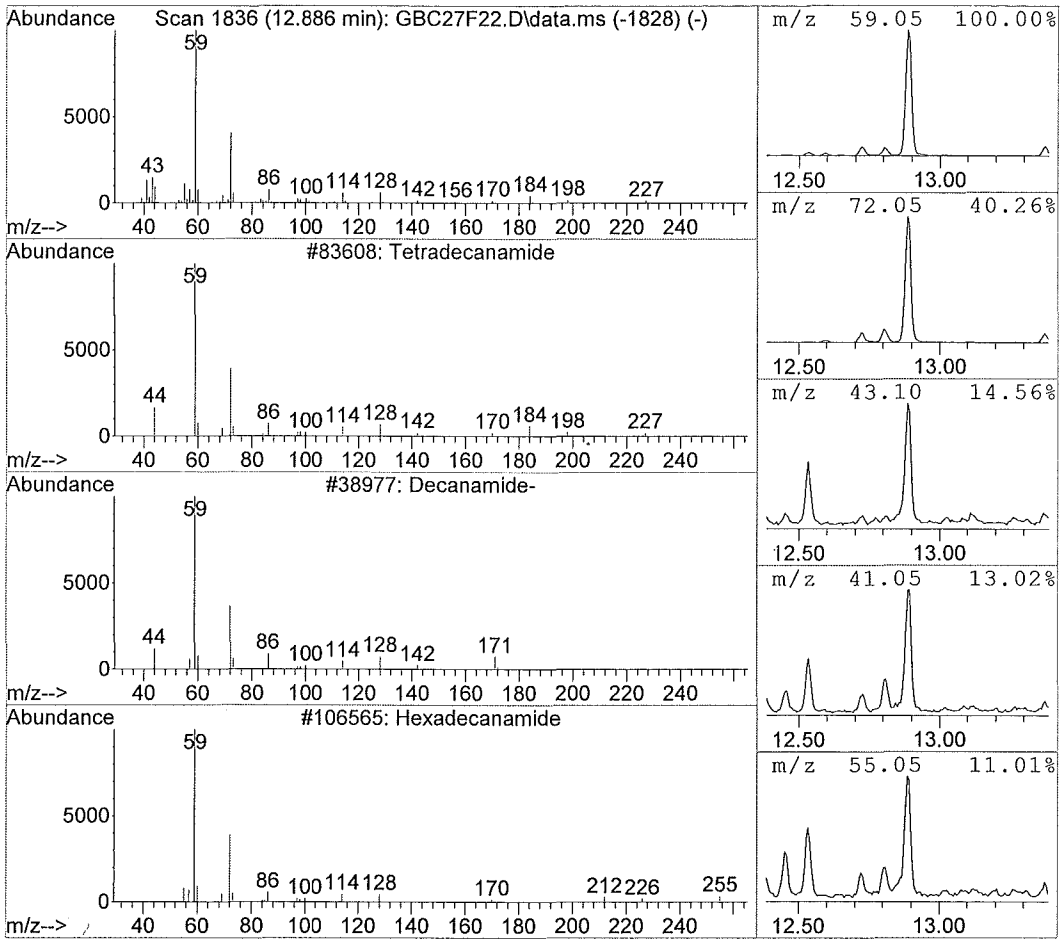


Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.89	2.44 ug/ml	350130	Phenanthrene-d10	2865934

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	95.00
2	Decanamide-	38977	002319-29-1	90.00
3	Hexadecanamide	106565	000629-54-9	90.00
4	Dodecanamide	60439	001120-16-7	86.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	64.00

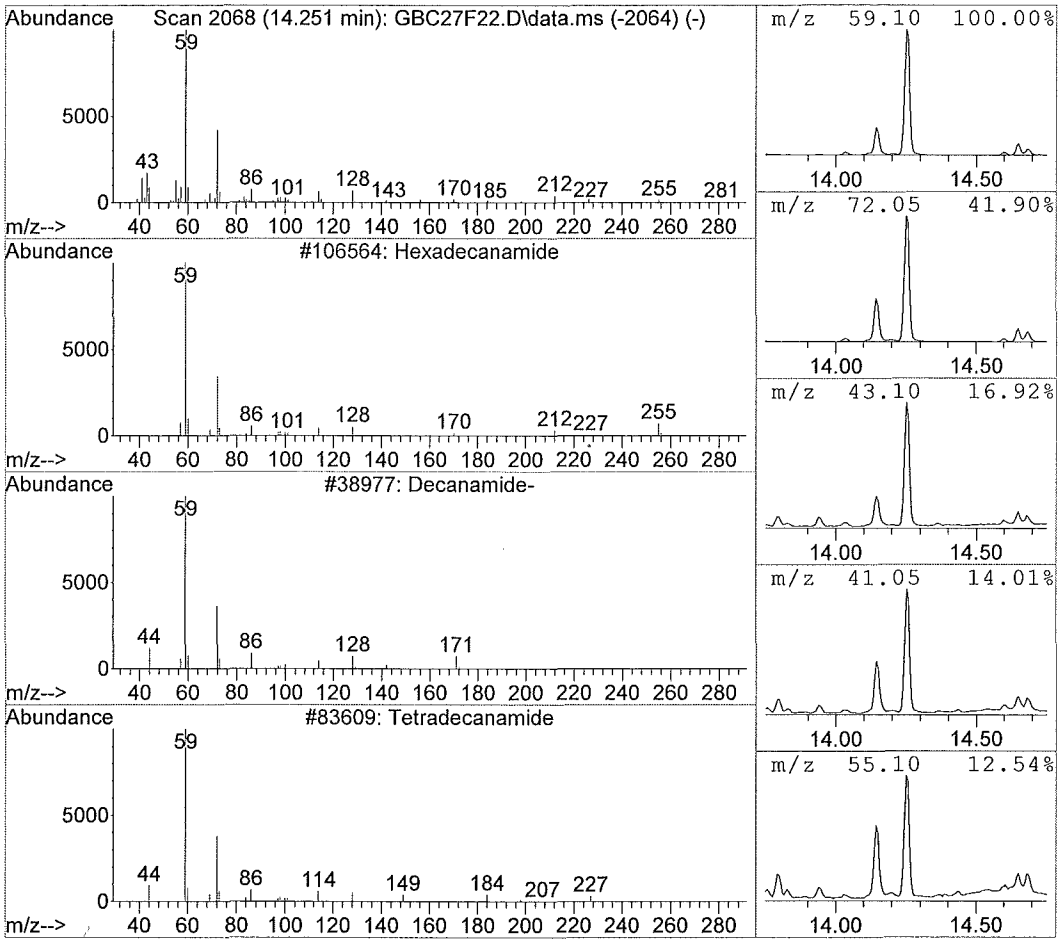


Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.25	7.14 ug/ml	1093449	Chrysene-d12	3064773

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	94.00
2	Decanamide-	38977	002319-29-1	90.00
3	Tetradecanamide	83609	000638-58-4	86.00
4	Dodecanamide	60439	001120-16-7	59.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00

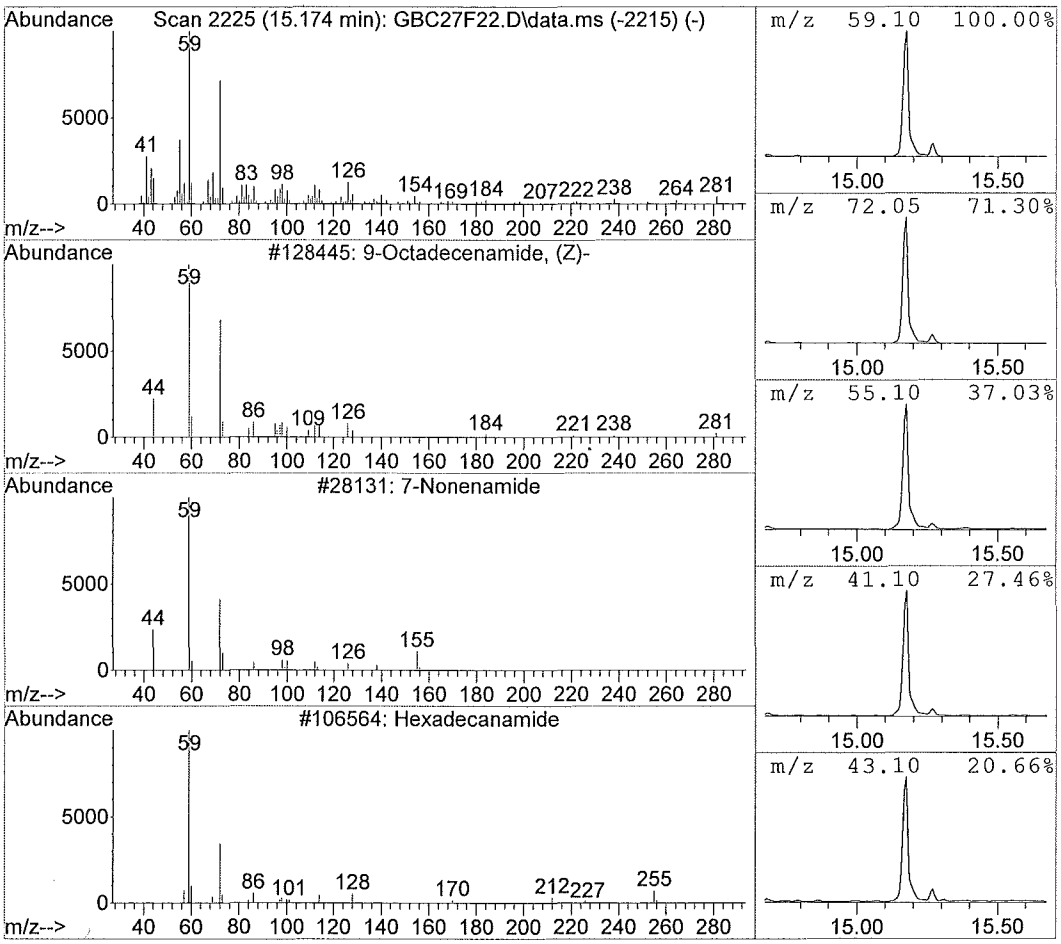


Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	50.47 ug/ml	7733991	Chrysene-d12	3064773

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	7-Nonenamide	28131	090949-53-4	72.00
3	Hexadecanamide	106564	000629-54-9	56.00
4	Dodecanamide	60440	001120-16-7	53.00
5	Pentanamide	4064	000626-97-1	53.00

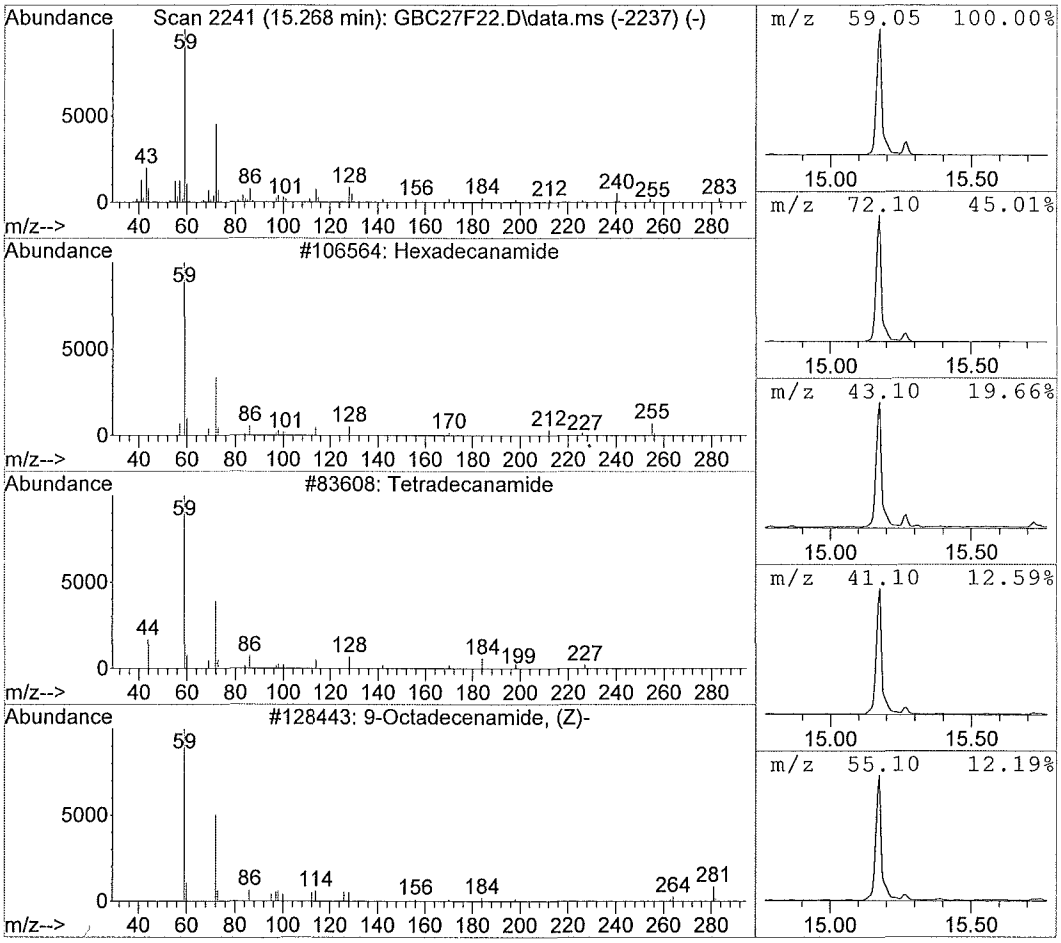


Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.27	2.49 ug/ml	381404	Chrysene-d12	3064773

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	86.00
2	Tetradecanamide	83608	000638-58-4	86.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	78.00
4	Decanamide-	38977	002319-29-1	72.00
5	Dodecanamide	60439	001120-16-7	59.00



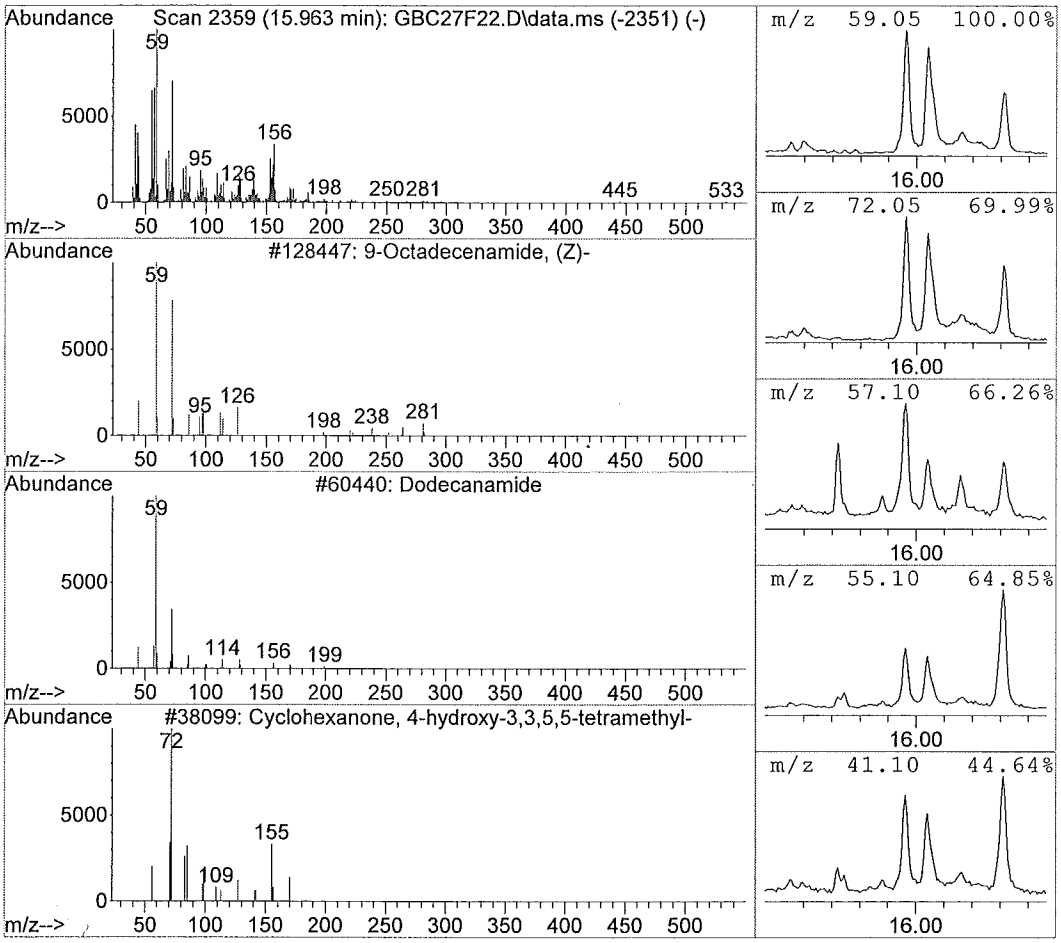
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.96	3.50 ug/ml	537038	Chrysene-d12	3064773

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128447	000301-02-0	60.00
2	Dodecanamide	60440	001120-16-7	38.00
3	Cyclohexanone, 4-hydroxy-3,3,5,5-te	38099	017429-06-0	35.00
4	Butanal, 3-methyl-, oxime	4097	000626-90-4	27.00
5	.alpha.-D-Xylo-Hex-5-enofuranose, 5	50811	007284-07-3	27.00



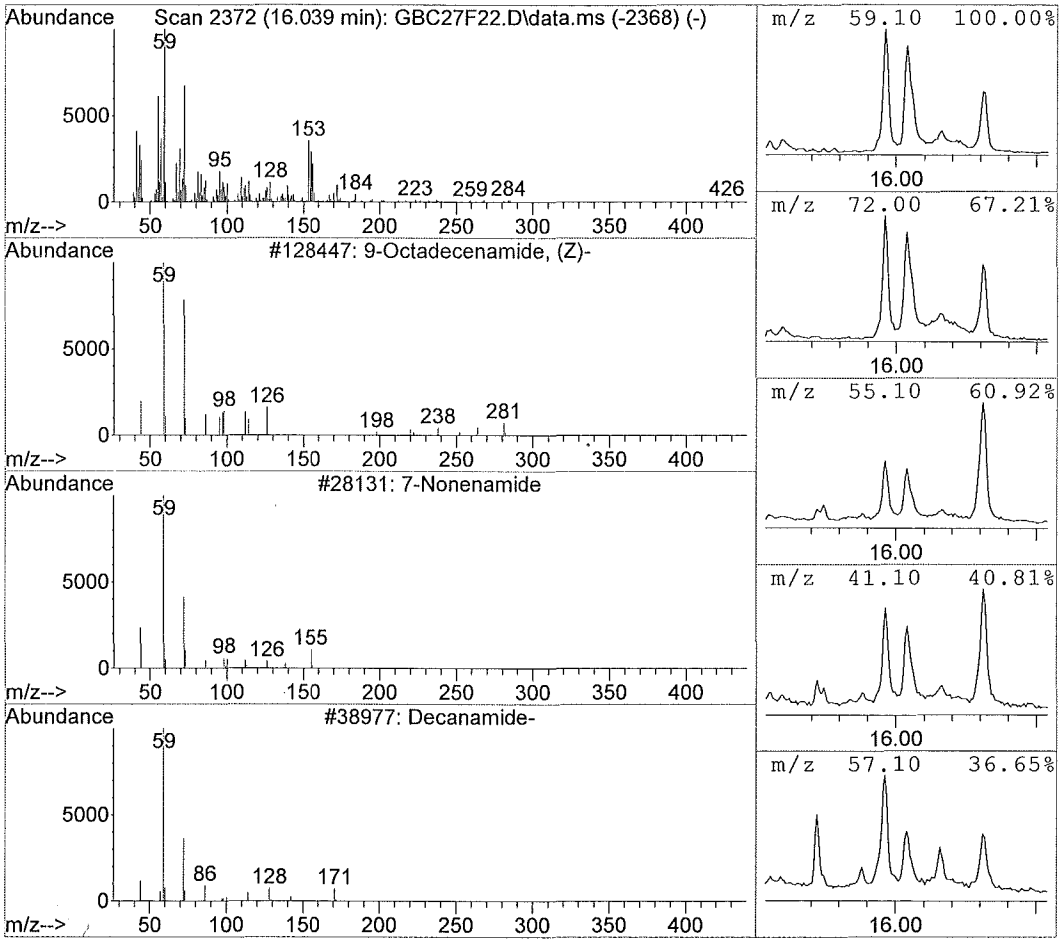
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.04	2.83 ug/ml	433491	Chrysene-d12	3064773

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128447	000301-02-0	70.00
2	7-Nonenamide	28131	090949-53-4	58.00
3	Decanamide-	38977	002319-29-1	47.00
4	Tetradecanamide	83609	000638-58-4	47.00
5	Nonanamide	29478	001120-07-6	38.00

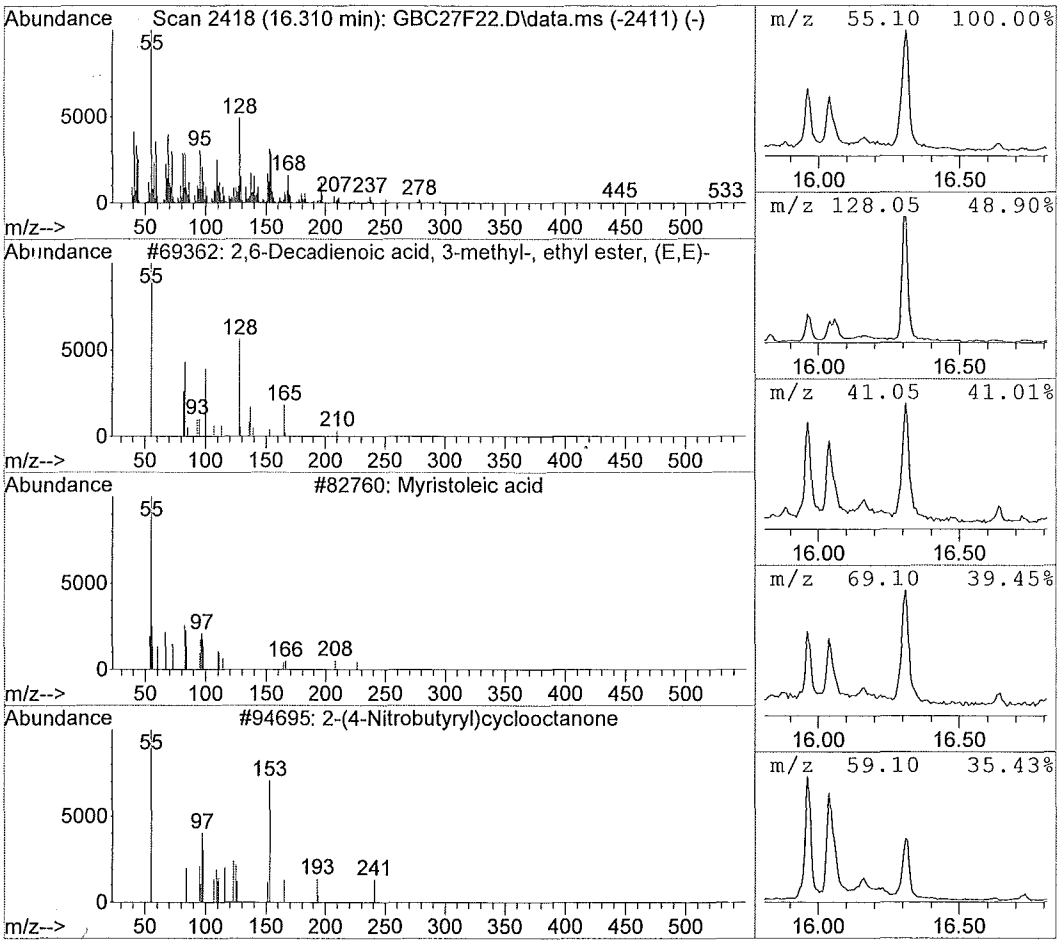


Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.31	5.71 ug/ml	874428	Chrysene-d12	3064773

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,6-Decadienoic acid, 3-methyl-, et	69362	055283-33-5	11.00
2	Myristoleic acid	82760	000544-64-9	10.00
3	2-(4-Nitrobutyryl)cyclooctanone	94695	079630-93-6	10.00
4	5-Allyldihydro-1,3,5-dioxazine	12864	016574-19-9	10.00
5	Cyclohexanecarboxamide	11823	001122-56-1	10.00

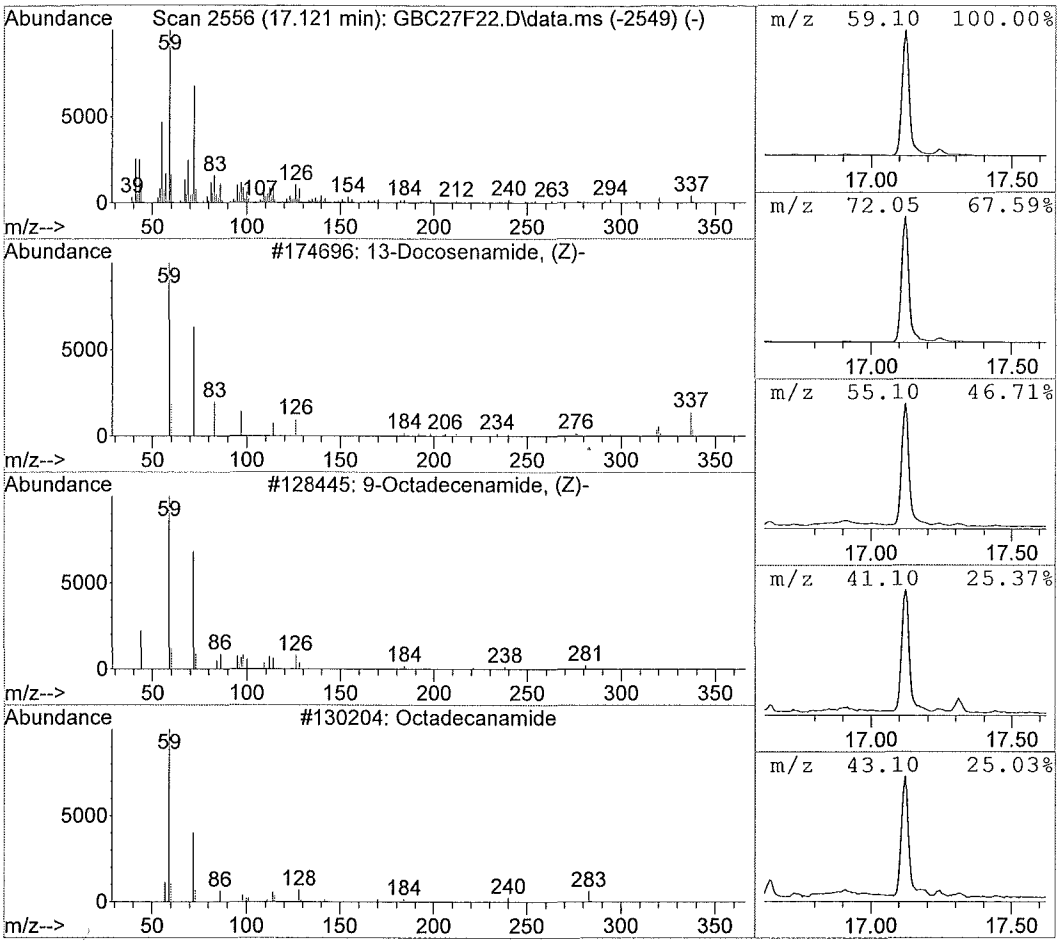


Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.12	11.24 ug/ml	1749756	Perylene-d12	3112735

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	13-Docosenamide, (Z)-	174696	000112-84-5	93.00
2	9-Octadecenamide, (Z)-	128445	000301-02-0	91.00
3	Octadecanamide	130204	000124-26-5	53.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	53.00
5	Dodecanamide	60440	001120-16-7	50.00

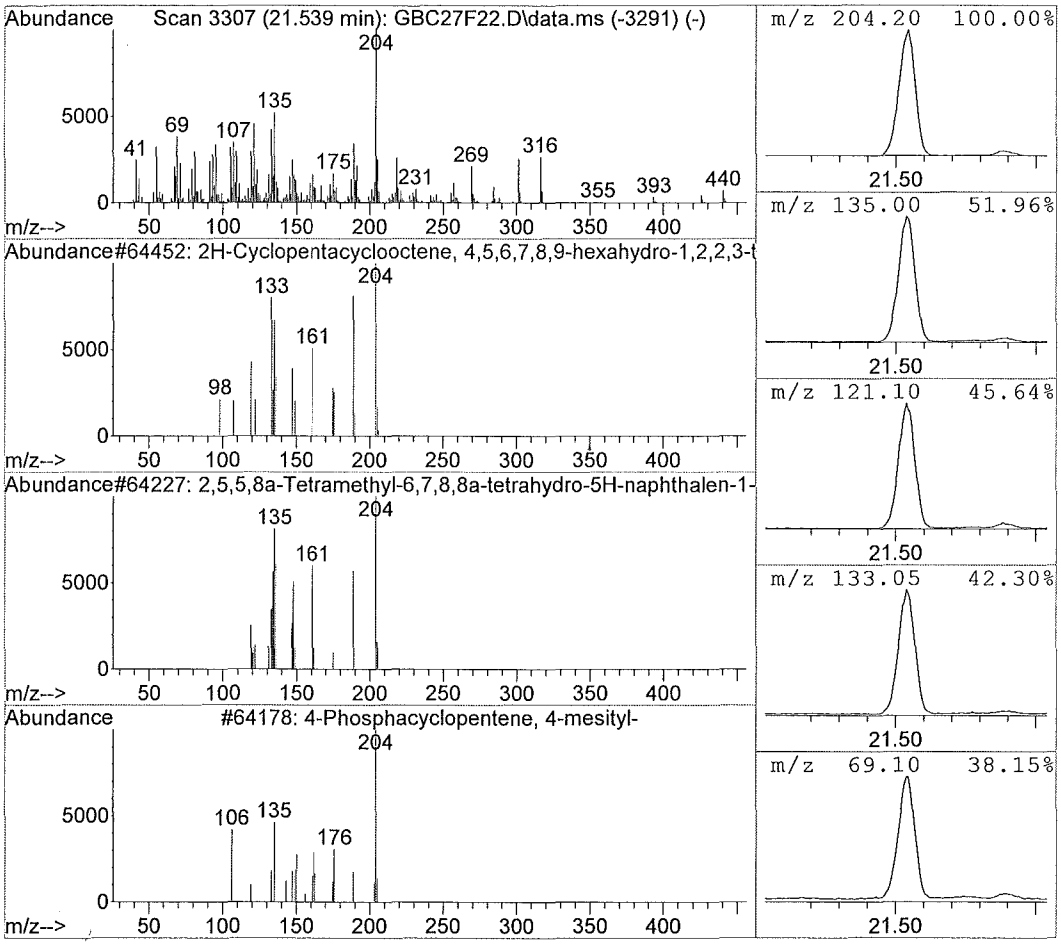


Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.54	38.51 ug/ml	5993421	Perylene-d12	3112735

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	55.00
2	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	46.00
3	4-Phosphacyclopentene, 4-mesityl-	64178	214605-01-3	43.00
4	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64569	000489-40-7	38.00
5	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	38.00



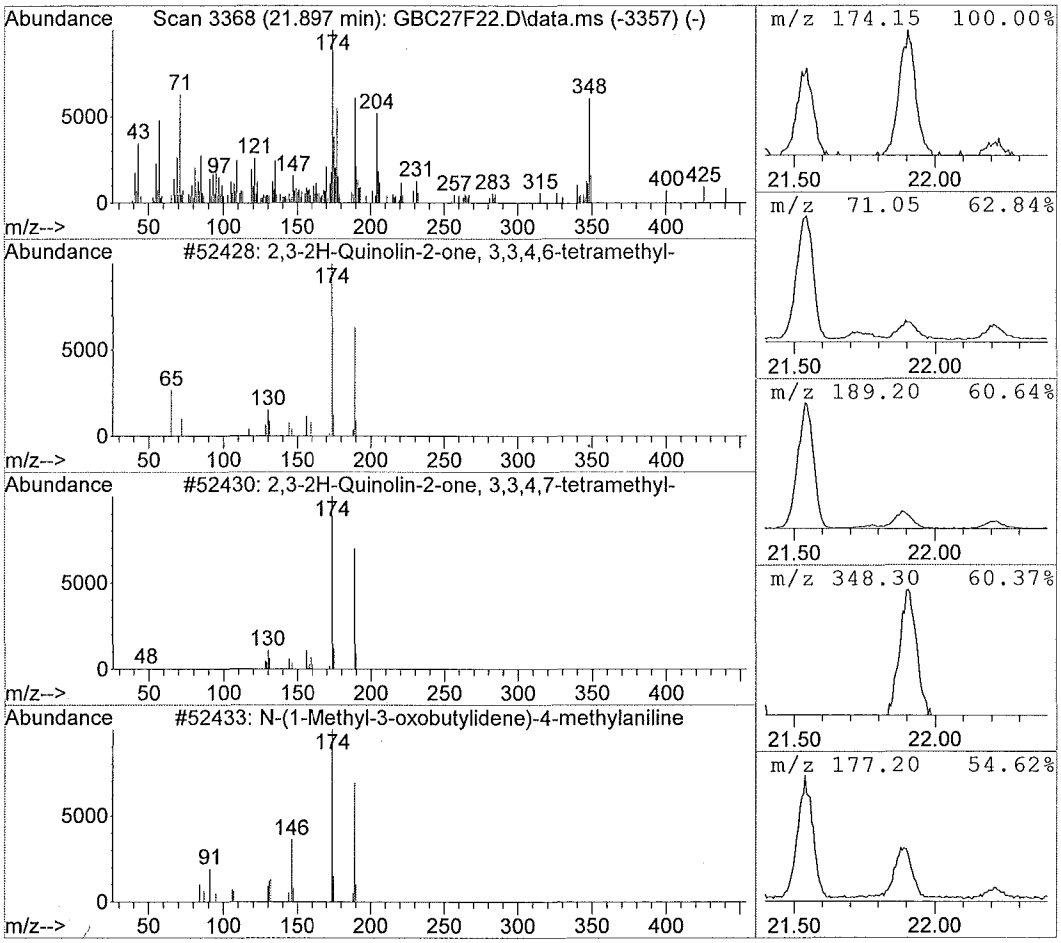
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.90	2.87 ug/ml	446782	Perylene-d12	3112735

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,3-2H-Quinolin-2-one, 3,3,4,6-tetr	52428	1000129-70-9	30.00
2	2,3-2H-Quinolin-2-one, 3,3,4,7-tetr	52430	1000129-70-4	30.00
3	N-(1-Methyl-3-oxobutylidene)-4-meth	52433	003145-83-3	30.00
4	5,6-Dihydro-2-(3,4-methylenedioxybe	182613	023344-09-4	25.00
5	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	64575	000489-40-7	15.00

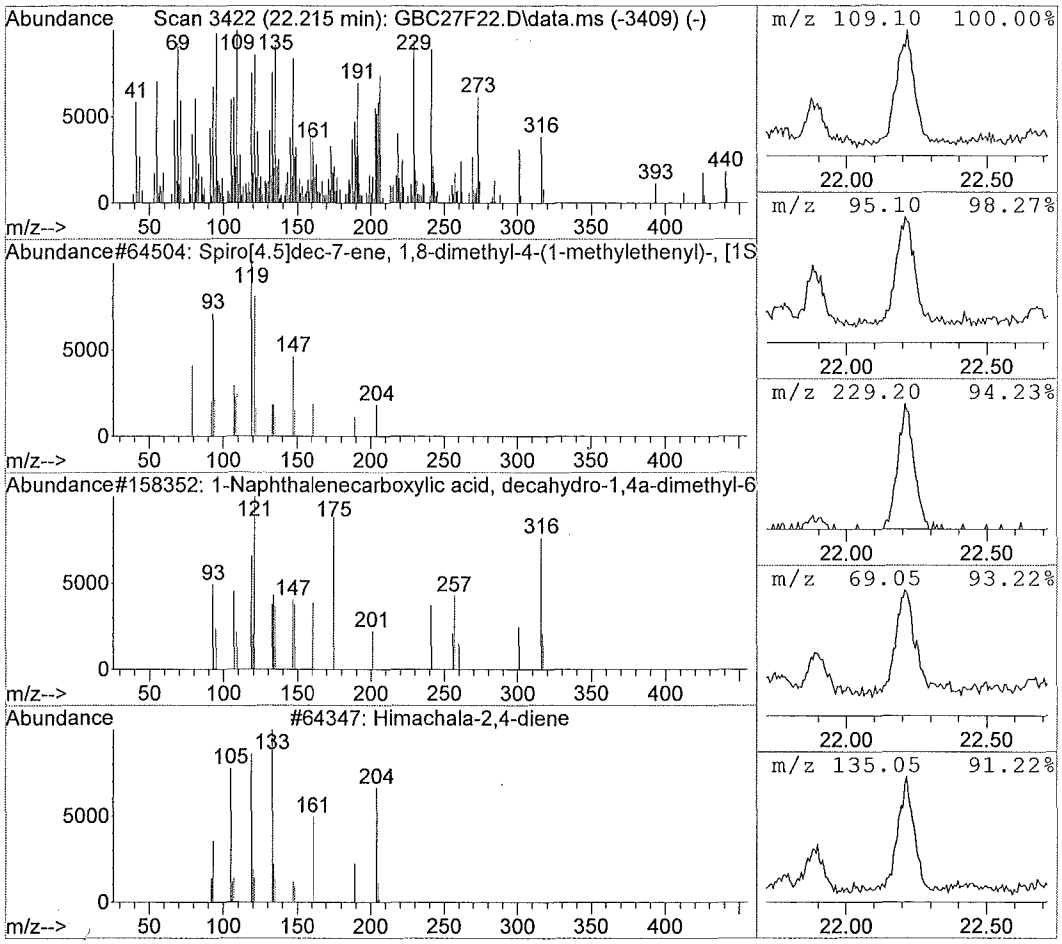


Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.22	3.93 ug/ml	611065	Perylene-d12	3112735

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Spiro[4.5]dec-7-ene, 1,8-dimethyl-4	64504	024048-44-0	35.00
2	1-Naphthalenecarboxylic acid, decah	158352	015798-13-7	30.00
3	Himachala-2,4-diene	64347	060909-27-5	25.00
4	Azulene, 1,2,3,5,6,7,8,8a-octahydro	64531	003691-11-0	18.00
5	Ethanone, 1-(2,4,6-trimethylphenyl)	32170	001667-01-2	15.00

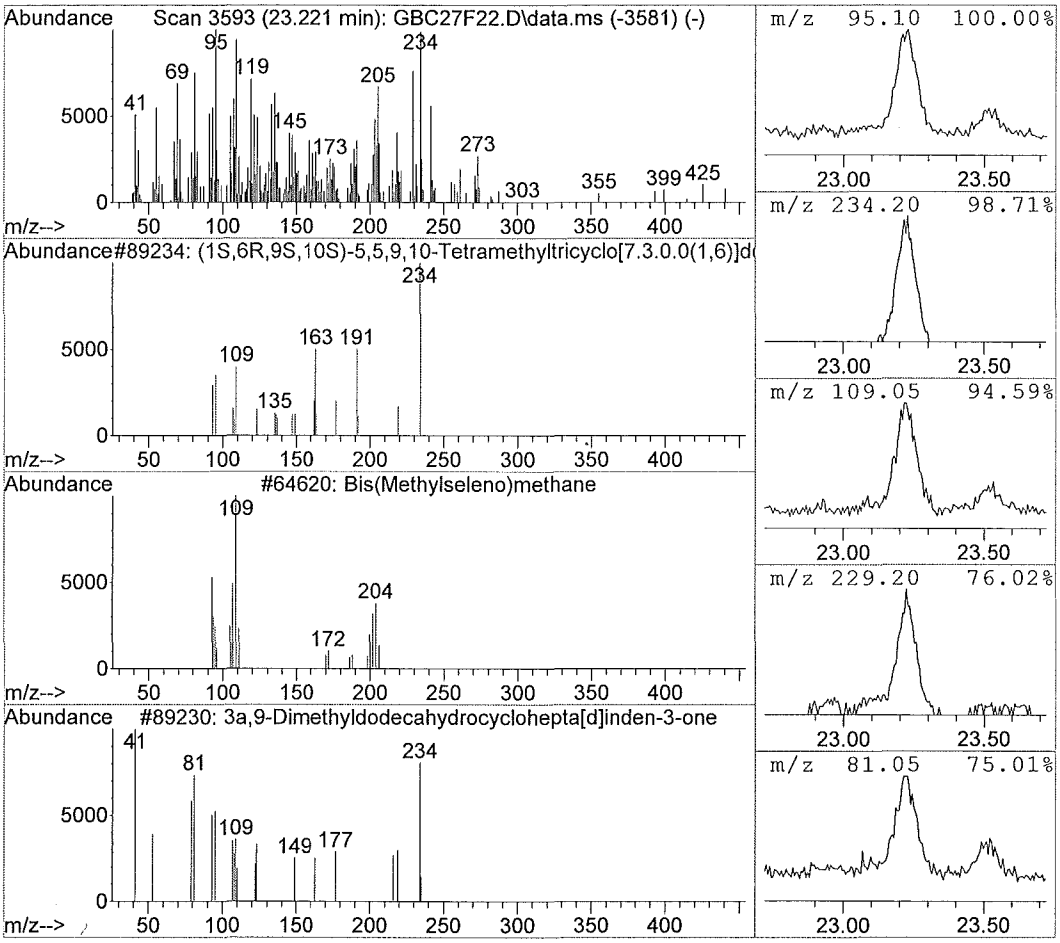


Data File : Z:\G\2015\JUN15\02JUN15\GBC27F22.D Vial: 23
Acq On : 06/03/2015 03:28 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.22	3.58 ug/ml	557413	Perylene-d12	3112735

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	(1S,6R,9S,10S)-5,5,9,10-Tetramethyl	89234	1000298-98-1	45.00
2	Bis(Methylseleno)methane	64620	056051-03-7	44.00
3	3a,9-Dimethyldodecahydrocyclohepta[	89230	1000189-38-7	35.00
4	(-)-Isolongifolol, methyl ether	90905	1000333-80-8	30.00
5	Anthra(2,3-b)thiophene	89177	022108-55-0	25.00



6E - FORM VI SV-1
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date(s): 05/27/2015 05/27/2015

Calibration Time(s): 15:49 19:02

LAB FILE ID: RRF 5.0 = GAX02S05 RRF 10 = GAX03S10
RRF 20 = GAX01S20 RRF 40 = GAX06S40 RRF 80 = GAX07S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Benzaldehyde	0.927	0.886	0.774	0.886	0.712	0.837	10.8
Phenol	1.355	1.454	1.461	1.395	1.389	1.411	3.2
Bis(2-chloroethyl)ether	1.163	1.129	1.199	1.172	1.220	1.177	3.0
2-Chlorophenol	1.244	1.341	1.351	1.293	1.276	1.301	3.4
2-Methylphenol	1.165	1.104	1.084	1.075	1.032	1.092	4.5
2,2'-Oxybis(1-chloropropane)	1.425	1.351	1.350	1.298	1.222	1.329	5.6
Acetophenone	1.659	1.588	1.569	1.534	1.481	1.566	4.2
4-Methylphenol	1.211	1.142	1.134	1.140	1.101	1.146	3.5
N-Nitroso-di-n-propylamine	0.727	0.695	0.686	0.676	0.653	0.687	3.9
Hexachloroethane	0.640	0.600	0.579	0.583	0.571	0.595	4.6
Nitrobenzene	0.333	0.313	0.300	0.304	0.294	0.309	4.9
Isophorone	0.568	0.540	0.522	0.530	0.516	0.535	3.8
2-Nitrophenol	0.191	0.203	0.203	0.196	0.195	0.197	2.8
2,4-Dimethylphenol	0.293	0.314	0.317	0.304	0.307	0.307	3.0
Bis(2-chloroethoxy)methane	0.365	0.359	0.354	0.354	0.340	0.354	2.6
2,4-Dichlorophenol	0.256	0.277	0.284	0.274	0.270	0.272	3.9
Naphthalene	1.087	1.037	0.984	0.983	0.956	1.009	5.2
4-Chloroaniline	0.405	0.397	0.352	0.279	0.235	0.334	22.2
Hexachlorobutadiene	0.185	0.176	0.169	0.172	0.163	0.173	4.8
Caprolactam	0.099	0.096	0.096	0.099	0.098	0.098	1.5
4-Chloro-3-methylphenol	0.247	0.269	0.274	0.270	0.273	0.266	4.1
2-Methylnaphthalene	0.683	0.670	0.657	0.591	0.620	0.645	5.9
Hexachlorocyclopentadiene	0.340	0.358	0.357	0.363	0.342	0.352	3.0
2,4,6-Trichlorophenol	0.330	0.354	0.368	0.354	0.350	0.351	3.9
2,4,5-Trichlorophenol	0.380	0.387	0.378	0.380	0.362	0.377	2.5
1,1'-Biphenyl	1.499	1.442	1.406	1.348	1.272	1.393	6.3
2-Chloronaphthalene	1.174	1.117	1.064	1.054	0.994	1.081	6.3
2-Nitroaniline		0.294	0.293	0.264	0.283	0.284	4.9
Dimethylphthalate	1.287	1.268	1.250	1.246	1.186	1.247	3.0
2,6-Dinitrotoluene	0.296	0.289	0.285	0.289	0.280	0.288	2.1
Acenaphthylene	1.957	1.901	1.799	1.783	1.701	1.828	5.5
3-Nitroaniline		0.314	0.218	0.157	0.135	0.206	39.0
Acenaphthene	1.211	1.169	1.102	1.093	1.053	1.126	5.6
2,4-Dinitrophenol		0.144	0.176	0.188	0.198	0.176	13.5
4-Nitrophenol		0.148	0.156	0.155	0.154	0.153	2.1
Dibenzofuran	1.575	1.563	1.519	1.353	1.381	1.478	7.0

6F - FORM VI SV-2
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date(s): 05/27/2015 05/27/2015

Calibration Time(s): 15:49 19:02

LAB FILE ID: RRF 5.0 = GAX02S05 RRF 10 = GAX03S10
RRF 20 = GAX01S20 RRF 40 = GAX06S40 RRF 80 = GAX07S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
2,4-Dinitrotoluene	0.406	0.393	0.386	0.391	0.367	0.388	3.7
Diethylphthalate	1.316	1.297	1.307	1.305	1.224	1.290	2.9
Fluorene	1.328	1.281	1.214	1.187	1.121	1.226	6.6
4-Chlorophenyl-phenylether	0.616	0.600	0.588	0.576	0.529	0.582	5.7
4-Nitroaniline		0.294	0.252	0.226	0.180	0.238	20.1
4,6-Dinitro-2-methylphenol		0.138	0.153	0.150	0.154	0.149	4.9
N-Nitrosodiphenylamine[1]	0.554	0.545	0.533	0.507	0.476	0.523	6.1
1,2,4,5-Tetrachlorobenzene	0.528	0.517	0.516	0.451	0.462	0.495	7.1
4-Bromophenyl-phenylether	0.212	0.204	0.206	0.201	0.194	0.203	3.2
Hexachlorobenzene	0.243	0.232	0.222	0.214	0.208	0.224	6.2
Atrazine	0.210	0.208	0.197	0.180	0.161	0.191	11.0
Pentachlorophenol		0.135	0.145	0.140	0.146	0.141	3.8
Phenanthrene	1.186	1.137	1.083	1.048	1.014	1.094	6.3
Anthracene	1.215	1.170	1.107	1.060	1.028	1.116	6.9
Carbazole	0.999	0.894	0.603	0.504	0.375	0.675	39.0
Di-n-butylphthalate	1.407	1.393	1.414	1.375	1.310	1.380	3.0
Fluoranthene	1.217	1.187	1.126	1.076	1.033	1.128	6.8
Pyrene	1.346	1.285	1.214	1.184	1.164	1.238	6.1
Butylbenzylphthalate	0.643	0.652	0.667	0.665	0.652	0.656	1.6
3,3'-Dichlorobenzidine	0.371	0.345	0.315	0.289	0.296	0.323	10.6
Benzo(a)anthracene	1.200	1.164	1.126	1.093	1.100	1.137	4.0
Chrysene	1.097	1.078	1.036	0.993	0.956	1.032	5.7
Bis(2-ethylhexyl)phthalate	0.956	0.971	0.997	0.978	0.924	0.965	2.8
Di-n-octylphthalate	1.664	1.696	1.750	1.715	1.615	1.688	3.0
Benzo(b)fluoranthene	1.202	1.188	1.132	1.152	1.139	1.163	2.7
Benzo(k)fluoranthene	1.186	1.198	1.135	1.067	1.050	1.127	6.0
Benzo(a)pyrene	1.185	1.162	1.110	1.080	1.070	1.121	4.5
Indeno(1,2,3-cd)pyrene	1.066	1.101	1.071	1.102	1.156	1.099	3.3
Dibenzo(a,h)anthracene	1.139	1.137	1.124	1.118	1.121	1.128	0.9
Benzo(g,h,i)perylene	1.128	1.124	1.101	1.107	1.107	1.113	1.1
2,3,4,6-Tetrachlorophenol	0.257	0.282	0.301	0.293	0.288	0.284	5.9

[1] Cannot be separated from Diphenylamine

6G - FORM VI SV-3
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date(s): 05/27/2015 05/27/2015

Calibration Time(s): 15:49 19:02

LAB FILE ID: RRF 5.0 = GAX02S05 RRF 10 = GAX03S10
RRF 20 = GAX01S20 RRF 40 = GAX06S40 RRF 80 = GAX07S80

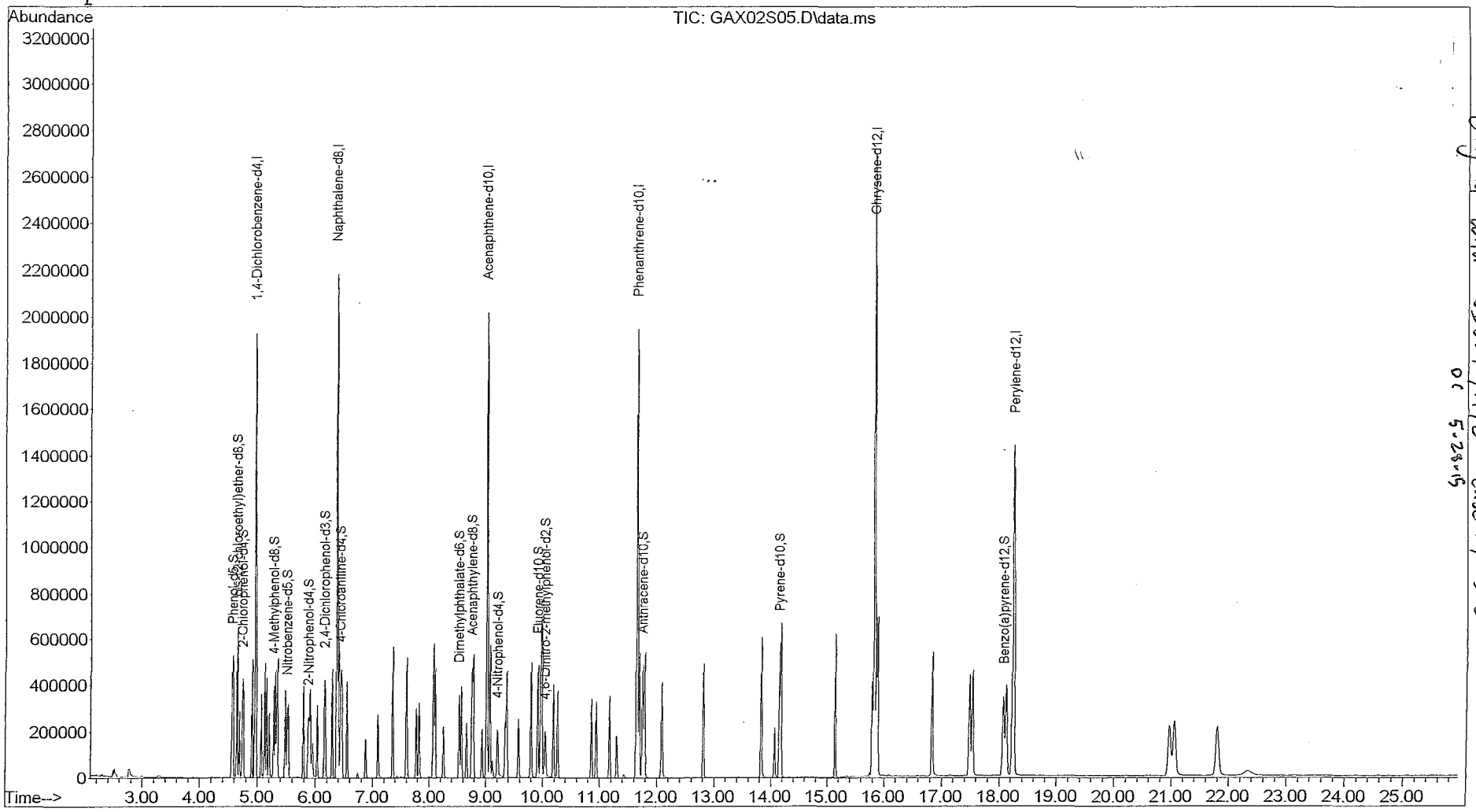
COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Phenol-d5	1.477	1.403	1.423	1.351	1.319	1.395	4.4
Bis(2-chloroethyl)ether-d8	0.902	0.865	0.870	0.817	0.817	0.854	4.3
2-Chlorophenol-d4	1.451	1.374	1.397	1.335	1.290	1.369	4.4
4-Methylphenol-d8	1.128	1.096	1.102	1.056	1.046	1.086	3.1
Nitrobenzene-d5	0.176	0.167	0.170	0.164	0.162	0.168	3.3
2-Nitrophenol-d4	0.197	0.185	0.188	0.184	0.181	0.187	3.3
2,4-Dichlorophenol-d3	0.286	0.277	0.278	0.270	0.259	0.274	3.7
4-Chloroaniline-d4	0.374	0.360	0.307	0.250	0.194	0.297	25.5
Dimethylphthalate-d6	1.270	1.234	1.235	1.195	1.148	1.216	3.8
Acenaphthylene-d8	1.707	1.655	1.663	1.585	1.506	1.623	4.9
4-Nitrophenol-d4		0.255	0.265	0.261	0.255	0.259	2.0
Fluorene-d10	1.108	1.077	1.079	1.032	0.986	1.056	4.5
4,6-Dinitro-2-methylphenol-d2		0.123	0.135	0.133	0.135	0.131	4.4
Anthracene-d10	1.075	1.047	1.039	0.962	0.936	1.012	5.9
Pyrene-d10	0.946	0.922	0.928	0.885	0.866	0.909	3.6
Benzo(a)pyrene-d12	0.930	0.926	0.934	0.882	0.864	0.907	3.5

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX02S05.D Vial: 2
Acq On : 05/27/2015 16:21 Operator: DJC
Sample : SSTD005GX 28167 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 10:03:36 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration



Original with SDG: F9498 case: 45316 01 5-28-15

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX02S05.D Vial: 2
Acq On : 05/27/2015 16:21 Operator: DJC
Sample : SSTD005GX 28167 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 10:03:36 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	351338	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1304988	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	717570	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1160895	20.00 ug/ml
73) Chrysene-d12	15.83	240	1127146	20.00 ug/ml
81) Perylene-d12	18.24	264	1096790	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	129756	5.190ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	79252	5.188ug/mL
7) 2-Chlorophenol-d4	4.74	132	127424	5.193ug/ml
13) 4-Methylphenol-d8	5.28	113	99100	5.117ug/mL
17) Nitrobenzene-d5	5.51	128	57567	5.201ug/ml
21) 2-Nitrophenol-d4	5.87	143	64348	5.246ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	93257	5.150ug/mL
28) 4-Chloroaniline-d4	6.43	131	122144	6.091ug/mL
42) Dimethylphthalate-d6	8.53	166	227747	5.139ug/mL
45) Acenaphthylene-d8	8.76	160	306302	5.134ug/mL
50) 4-Nitrophenol-d4	9.20	143	43515	4.577ug/mL
57) Fluorene-d10	9.92	176	198682	5.133ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	31740	4.055ug/mL
69) Anthracene-d10	11.75	188	312030	5.176ug/mL
75) Pyrene-d10	14.15	212	266460	5.097ug/mL
86) Benzo(a)pyrene-d12	18.07	264	255085	4.979ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	81404	5.986ug/ml 97
4) Phenol	4.58	94	119004	4.637ug/ml 97
5) Bis(2-chloroethyl)ether	4.69	93	102194	4.851ug/ml 94
8) 2-Chlorophenol	4.75	128	109297	4.607ug/ml 94
9) 2-Methylphenol	5.16	108	102365	5.376ug/ml 98
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	125151	5.277ug/ml 100
11) Acetophenone	5.34	105	145723	5.287ug/ml 98
12) 4-methylphenol	5.30	108	106343	5.337ug/ml 96
14) N-Nitroso-di-n-propylamine	5.33	70	63813	5.297ug/ml 98
15) Hexachloroethane	5.47	117	56210	5.522ug/ml 99
18) Nitrobenzene	5.53	77	108576	5.538ug/ml 98
19) Isophorone	5.79	82	185226	5.438ug/ml 98
20) 2-Nitrophenol	5.89	139	62226	4.694ug/ml 97
22) 2,4-Dimethylphenol	5.91	107	95679	4.625ug/ml 93
23) Bis(2-chloroethoxy)methane	6.03	93	118962	5.154ug/ml 100
24) 2,4-Dichlorophenol	6.17	162	83468	4.498ug/ml 97
26) Naphthalene	6.40	128	354475	5.521ug/ml 99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00706

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX02S05.D Vial: 2
Acq On : 05/27/2015 16:21 Operator: DJC
Sample : SSTD005GX 28167 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 10:03:36 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.45	127	132115	5.753ug/ml	95
29)	Hexachlorobutadiene	6.55	225	60385	5.477ug/ml	99
30)	Caprolactam	6.88	113	32425	5.150ug/ml	76
31)	4-Chloro-3-methylphenol	7.09	107	80588	4.512ug/ml	96
32)	2-Methylnaphthalene	7.36	142	222843	5.194ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.60	216	94631	5.114ug/mL	99
35)	Hexachlorocyclopentadiene	7.59	237	60993	4.755ug/ml	99
36)	2,4,6-Trichlorophenol	7.77	196	59223	4.486ug/ml	98
37)	2,4,5-Trichlorophenol	7.82	196	68244	5.027ug/ml	97
38)	1,1'-Biphenyl	8.07	154	268913	5.332ug/ml	98
39)	2-Chloronaphthalene	8.10	162	210637	5.520ug/ml	97
40)	2-Nitroaniline	8.25	65	52195	4.961ug/ml	88
41)	Dimethylphthalate	8.57	163	230832	5.147ug/ml	98
43)	2,6-Dinitrotoluene	8.66	165	53060	5.197ug/ml	89
44)	Acenaphthylene	8.78	152	351012	5.439ug/ml	99
46)	3-Nitroaniline	8.93	138	57015	7.296ug/ml	94
47)	Acenaphthene	9.07	153	217332	5.495ug/ml	94
48)	2,4-Dinitrophenol	9.12	184	17983	2.852ug/ml	100
49)	4-Nitrophenol	9.22	109	23827	4.270ug/ml	95
51)	Dibenzofuran	9.37	168	282478	5.184ug/ml	99
52)	2,4-Dinitrotoluene	9.35	165	72818	5.264ug/ml	93
53)	2,3,4,6-Tetrachlorophenol	9.57	232	46068	4.267ug/mL	98
54)	Diethylphthalate	9.80	149	236055	5.033ug/ml	98
55)	4-Chlorophenyl-phenylether	9.98	204	110468	5.234ug/ml	99
56)	Fluorene	9.97	166	238309	5.471ug/ml	98
58)	4-Nitroaniline	9.99	138	53716	5.940ug/ml	76
60)	4,6-Dinitro-2-methylphenol	10.05	198	33622	3.789ug/ml	95
62)	N-Nitrosodiphenylamine	10.19	169	160853	5.203ug/ml	100
63)	4-Bromophenyl-phenyl ether	10.86	248	61503	5.152ug/ml	99
64)	Hexachlorobenzene	10.95	284	70426	5.471ug/ml	87
65)	Atrazine	11.17	200	61076	5.333ug/ml	96
66)	Pentachlorophenol	11.30	266	32352	3.833ug/ml	99
67)	Phenanthrene	11.69	178	344119	5.472ug/ml	99
68)	Anthracene	11.79	178	352716	5.487ug/ml	100
70)	Carbazole	12.09	167	289933	8.281ug/mL	99
71)	Di-n-butylphthalate	12.81	149	408335	4.974ug/ml	99
72)	Fluoranthene	13.83	202	353302	5.404ug/ml	97
74)	Pyrene	14.17	202	379379	5.547ug/ml	97
76)	Butylbenzylphthalate	15.14	149	181096	4.814ug/ml	92
77)	3,3'-Dichlorobenzidine	15.79	252	104439	5.890ug/ml	97
78)	Benzo(a)anthracene	15.82	228	338178	5.331ug/ml	100
79)	Chrysene	15.86	228	309146	5.297ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	269512	4.797ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX02S05.D Vial: 2
Acq On : 05/27/2015 16:21 Operator: DJC
Sample : SSTD005GX 28167 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 10:03:36 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.83	149	456292	4.755ug/ml	99
83) Benzo(b)fluoranthene	17.49	252	329646	5.312ug/ml	99
84) Benzo(k)fluoranthene	17.53	252	325177	5.226ug/ml	98
85) Benzo(a)pyrene	18.12	252	324893	5.340ug/ml	98
87) Indeno(1,2,3-c,d)pyrene	20.97	276	292396	4.978ug/ml	94
88) Dibenzo(a,h)anthracene	21.06	278	312230	5.066ug/ml	97
89) Benzo(g,h,i)perylene	21.80	276	309390	5.124ug/ml	96

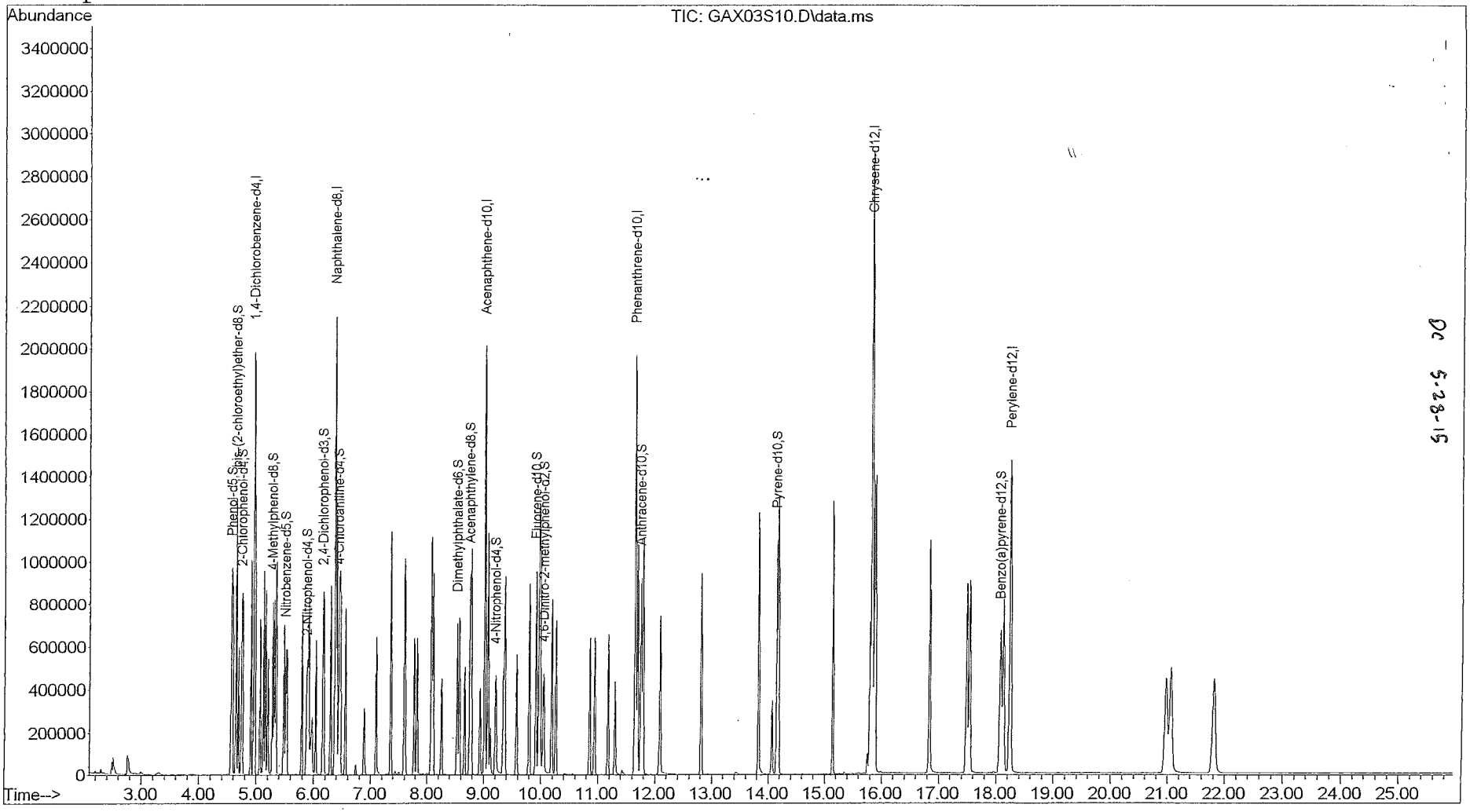
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX03S10.D Vial: 3
Acq On : 05/27/2015 16:54 Operator: DJC
Sample : SSTD010GX 28168 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 27 17:20:14 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX03S10.D Vial: 3
Acq On : 05/27/2015 16:54 Operator: DJC
Sample : SSTD010GX 28168 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 17:20:14 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	355748	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1310552	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	716547	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1172306	20.00 ug/ml
73) Chrysene-d12	15.83	240	1133114	20.00 ug/ml
81) Perylene-d12	18.24	264	1101435	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	249576	10.025ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	153785	10.036ug/mL
7) 2-Chlorophenol-d4	4.74	132	244322	10.016ug/ml
13) 4-Methylphenol-d8	5.28	113	195025	10.091ug/mL
17) Nitrobenzene-d5	5.51	128	109241	9.910ug/ml
21) 2-Nitrophenol-d4	5.87	143	121091	9.785ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	181745	10.097ug/mL
28) 4-Chloroaniline-d4	6.43	131	236113	12.463ug/mL
42) Dimethylphthalate-d6	8.53	166	442051	10.190ug/mL
45) Acenaphthylene-d8	8.76	160	592979	10.294ug/mL
50) 4-Nitrophenol-d4	9.20	143	91183	9.937ug/mL
57) Fluorene-d10	9.92	176	385999	10.231ug/mL
61) 4,6-Dinitro-2-methylphenol	10.04	200	72036	9.380ug/mL
69) Anthracene-d10	11.75	188	613487	10.404ug/mL
75) Pyrene-d10	14.15	212	522506	10.269ug/mL
86) Benzo(a)pyrene-d12	18.07	264	509737	10.323ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	157634	9.898ug/ml 97
4) Phenol	4.58	94	258689	10.630ug/ml 98
5) Bis(2-chloroethyl)ether	4.69	93	200740	9.556ug/ml 94
8) 2-Chlorophenol	4.76	128	238503	10.613ug/ml 93
9) 2-Methylphenol	5.16	108	196341	10.141ug/ml 97
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	240354	10.185ug/ml 100
11) Acetophenone	5.35	105	282433	10.232ug/ml 98
12) 4-methylphenol	5.31	108	203061	9.967ug/ml 94
14) N-Nitroso-di-n-propylamine	5.33	70	123618	10.339ug/ml 97
15) Hexachloroethane	5.47	117	106639	9.922ug/ml 98
18) Nitrobenzene	5.53	77	205210	9.982ug/ml 97
19) Isophorone	5.79	82	353716	9.941ug/ml 98
20) 2-Nitrophenol	5.89	139	132956	10.593ug/ml 98
22) 2,4-Dimethylphenol	5.91	107	205967	10.466ug/ml 94
23) Bis(2-chloroethoxy)methane	6.03	93	235013	10.349ug/ml 99
24) 2,4-Dichlorophenol	6.17	162	181558	10.420ug/ml 99
26) Naphthalene	6.40	128	679545	10.370ug/ml 99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX03S10.D Vial: 3
Acq On : 05/27/2015 16:54 Operator: DJC
Sample : SSTD010GX 28168 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 17:20:14 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.45	127	260068	12.085ug/ml	96
29)	Hexachlorobutadiene	6.55	225	115632	10.107ug/ml	99
30)	Caprolactam	6.89	113	62954	9.902ug/ml	78
31)	4-Chloro-3-methylphenol	7.10	107	175987	10.452ug/ml	95
32)	2-Methylnaphthalene	7.36	142	439314	10.380ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.60	216	185248	10.750ug/mL	99
35)	Hexachlorocyclopentadiene	7.59	237	128297	9.792ug/ml	99
36)	2,4,6-Trichlorophenol	7.77	196	126962	10.505ug/ml	99
37)	2,4,5-Trichlorophenol	7.82	196	138482	10.233ug/ml	99
38)	1,1'-Biphenyl	8.07	154	516532	10.399ug/ml	98
39)	2-Chloronaphthalene	8.10	162	400214	10.219ug/ml	97
40)	2-Nitroaniline	8.26	65	105484	10.363ug/ml	89
41)	Dimethylphthalate	8.57	163	454227	10.512ug/ml	99
43)	2,6-Dinitrotoluene	8.66	165	103384	10.031ug/ml	89
44)	Acenaphthylene	8.78	152	681014	10.588ug/ml	99
46)	3-Nitroaniline	8.93	138	112627	15.015ug/ml	92
47)	Acenaphthene	9.07	153	418960	10.533ug/ml	94
48)	2,4-Dinitrophenol	9.12	184	51429	8.295ug/ml	100
49)	4-Nitrophenol	9.22	109	53189	10.178ug/ml	93
51)	Dibenzofuran	9.37	168	559856	10.586ug/ml	100
52)	2,4-Dinitrotoluene	9.35	165	140848	10.160ug/ml	93
53)	2,3,4,6-Tetrachlorophenol	9.57	232	101139	10.262ug/mL	97
54)	Diethylphthalate	9.80	149	464578	10.393ug/ml	97
55)	4-Chlorophenyl-phenylether	9.99	204	215041	10.663ug/ml	98
56)	Fluorene	9.97	166	458788	10.657ug/ml	98
58)	4-Nitroaniline	9.99	138	105465	12.300ug/ml	73
60)	4,6-Dinitro-2-methylphenol	10.05	198	80806	9.540ug/ml	96
62)	N-Nitrosodiphenylamine	10.19	169	319677	10.715ug/ml	100
63)	4-Bromophenyl-phenyl ether	10.86	248	119585	10.271ug/ml	99
64)	Hexachlorobenzene	10.95	284	135754	10.316ug/ml	87
65)	Atrazine	11.18	200	122008	10.981ug/ml	97
66)	Pentachlorophenol	11.30	266	78889	9.983ug/ml	99
67)	Phenanthrene	11.69	178	666492	10.716ug/ml	100
68)	Anthracene	11.79	178	685821	10.696ug/ml	100
70)	Carbazole	12.09	167	523995	13.103ug/mL	98
71)	Di-n-butylphthalate	12.81	149	816796	10.328ug/ml	99
72)	Fluoranthene	13.83	202	695764	10.733ug/ml	96
74)	Pyrene	14.18	202	727911	10.705ug/ml	97
76)	Butylbenzylphthalate	15.14	149	369545	10.275ug/ml	91
77)	3,3'-Dichlorobenzidine	15.79	252	195190	10.683ug/ml	99
78)	Benzo(a)anthracene	15.82	228	659738	10.548ug/ml	100
79)	Chrysene	15.86	228	610480	10.722ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	550385	10.297ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00711

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX03S10.D Vial: 3
Acq On : 05/27/2015 16:54 Operator: DJC
Sample : SSTD010GX 28168 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 17:20:14 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.83	149	934198	10.363ug/ml	99
83) Benzo(b)fluoranthene	17.49	252	653984	10.428ug/ml	98
84) Benzo(k)fluoranthene	17.54	252	659985	10.976ug/ml	98
85) Benzo(a)pyrene	18.12	252	640124	10.609ug/ml	98
87) Indeno(1,2,3-c,d)pyrene	20.97	276	606590	10.184ug/ml	92
88) Dibenzo(a,h)anthracene	21.06	278	626411	10.221ug/ml	97
89) Benzo(g,h,i)perylene	21.81	276	618779	10.244ug/ml	96

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

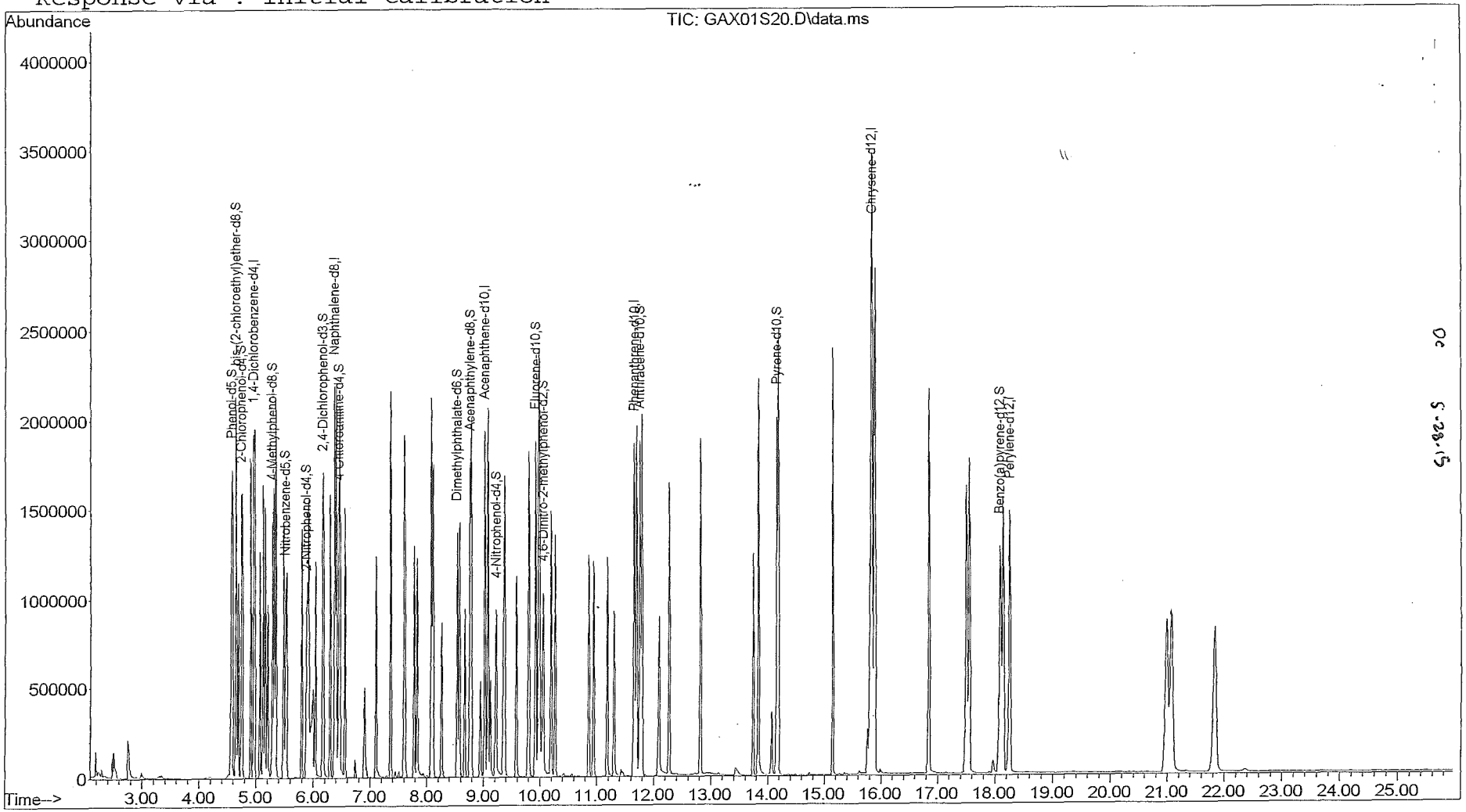
00712

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX01S20.D Vial: 1
Acq On : 05/27/2015 15:49 Operator: DJC
Sample : SSTD020GX 28165 DFTPPGX Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 27 16:15:53 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX01S20.D Vial: 1
Acq On : 05/27/2015 15:49 Operator: DJC
Sample : SSTD020GX 28165 DFTPPGX Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 16:15:53 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	339445	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1263698	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	695180	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1134114	20.00 ug/ml
73) Chrysene-d12	15.84	240	1090547	20.00 ug/ml
81) Perylene-d12	18.26	264	1082942	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	483117	20.338ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	295189	20.190ug/mL
7) 2-Chlorophenol-d4	4.75	132	474152	20.371ug/ml
13) 4-Methylphenol-d8	5.29	113	374219	20.292ug/mL
17) Nitrobenzene-d5	5.52	128	214365	20.168ug/ml
21) 2-Nitrophenol-d4	5.88	143	237577	19.909ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	350732	20.208ug/mL
28) 4-Chloroaniline-d4	6.45	131	388346	21.258ug/mL
42) Dimethylphthalate-d6	8.54	166	858724	20.403ug/mL
45) Acenaphthylene-d8	8.76	160	1156050	20.687ug/mL
50) 4-Nitrophenol-d4	9.22	143	184202	20.690ug/mL
57) Fluorene-d10	9.92	176	749979	20.489ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	152923	20.582ug/mL
69) Anthracene-d10	11.76	188	1177918	20.648ug/mL
75) Pyrene-d10	14.16	212	1011585	20.658ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1011724	20.838ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	262783	17.293ug/ml 93
4) Phenol	4.59	94	495889	21.355ug/ml 98
5) Bis(2-chloroethyl)ether	4.69	93	407057	20.309ug/ml 89
8) 2-Chlorophenol	4.76	128	458467	21.380ug/ml 94
9) 2-Methylphenol	5.16	108	367930	19.917ug/ml 96
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	458241	20.350ug/ml 100
11) Acetophenone	5.35	105	532547	20.220ug/ml 98
12) 4-methylphenol	5.31	108	385051	19.808ug/ml 96
14) N-Nitroso-di-n-propylamine	5.34	70	232783	20.404ug/ml 98
15) Hexachloroethane	5.48	117	196696	19.181ug/ml 97
18) Nitrobenzene	5.53	77	379695	19.153ug/ml 96
19) Isophorone	5.80	82	659650	19.226ug/ml 98
20) 2-Nitrophenol	5.89	139	256727	21.213ug/ml 99
22) 2,4-Dimethylphenol	5.92	107	400664	21.114ug/ml 96
23) Bis(2-chloroethoxy)methane	6.04	93	447007	20.413ug/ml 99
24) 2,4-Dichlorophenol	6.17	162	359394	21.392ug/ml 99
26) Naphthalene	6.40	128	1243481	19.680ug/ml 99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX01S20.D Vial: 1
Acq On : 05/27/2015 15:49 Operator: DJC
Sample : SSTD020GX 28165 DFTPPGX Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 16:15:53 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.46	127	444785	21.434ug/ml	96
29)	Hexachlorobutadiene	6.56	225	213543	19.356ug/ml	99
30)	Caprolactam	6.90	113	121928	19.889ug/ml	77
31)	4-Chloro-3-methylphenol	7.10	107	345939	21.307ug/ml	96
32)	2-Methylnaphthalene	7.36	142	830875	20.361ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.61	216	358547	21.446ug/mL	99
35)	Hexachlorocyclopentadiene	7.60	237	248515	19.551ug/ml	99
36)	2,4,6-Trichlorophenol	7.77	196	255807	21.816ug/ml	100
37)	2,4,5-Trichlorophenol	7.83	196	263035	20.035ug/ml	99
38)	1,1'-Biphenyl	8.08	154	977208	20.278ug/ml	98
39)	2-Chloronaphthalene	8.11	162	739340	19.459ug/ml	98
40)	2-Nitroaniline	8.26	65	203870	20.645ug/ml	87
41)	Dimethylphthalate	8.58	163	868989	20.729ug/ml	99
43)	2,6-Dinitrotoluene	8.67	165	197806	19.782ug/ml	89
44)	Acenaphthylene	8.79	152	1250435	20.039ug/ml	99
46)	3-Nitroaniline	8.95	138	151423	20.808ug/ml	93
47)	Acenaphthene	9.08	153	766271	19.858ug/ml	94
48)	2,4-Dinitrophenol	9.12	184	122157	20.309ug/ml	100
49)	4-Nitrophenol	9.23	109	108118	21.324ug/ml	91
51)	Dibenzofuran	9.37	168	1055793	20.576ug/ml	99
52)	2,4-Dinitrotoluene	9.35	165	268016	19.927ug/ml	93
53)	2,3,4,6-Tetrachlorophenol	9.59	232	209171	21.875ug/mL	97
54)	Diethylphthalate	9.80	149	908689	20.952ug/ml	98
55)	4-Chlorophenyl-phenylether	9.99	204	408974	20.902ug/ml	98
56)	Fluorene	9.97	166	843999	20.207ug/ml	98
58)	4-Nitroaniline	10.00	138	175210	21.061ug/ml	66
60)	4,6-Dinitro-2-methylphenol	10.06	198	173394	21.159ug/ml	92
62)	N-Nitrosodiphenylamine	10.20	169	604002	20.927ug/ml	99
63)	4-Bromophenyl-phenyl ether	10.86	248	233264	20.709ug/ml	100
64)	Hexachlorobenzene	10.95	284	251528	19.756ug/ml	87
65)	Atrazine	11.19	200	223784	20.820ug/ml	97
66)	Pentachlorophenol	11.31	266	164904	21.571ug/ml	99
67)	Phenanthrene	11.70	178	1228639	20.419ug/ml	99
68)	Anthracene	11.79	178	1255885	20.247ug/ml	100
70)	Carbazole	12.09	167	684105	17.683ug/mL	98
71)	Di-n-butylphthalate	12.82	149	1604143	20.967ug/ml	99
72)	Fluoranthene	13.83	202	1277344	20.369ug/ml	97
74)	Pyrene	14.19	202	1323437	20.223ug/ml	97
76)	Butylbenzylphthalate	15.14	149	727929	21.031ug/ml	92
77)	3,3'-Dichlorobenzidine	15.80	252	343104	19.511ug/ml	99
78)	Benzo(a)anthracene	15.82	228	1227605	20.394ug/ml	100
79)	Chrysene	15.87	228	1129363	20.610ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1087258	21.136ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX01S20.D Vial: 1
Acq On : 05/27/2015 15:49 Operator: DJC
Sample : SSTD020GX 28165 DFTPPGX Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 27 16:15:53 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	1894953	21.380ug/ml	100
83) Benzo(b)fluoranthene	17.50	252	1225511	19.875ug/ml	98
84) Benzo(k)fluoranthene	17.55	252	1228835	20.785ug/ml	98
85) Benzo(a)pyrene	18.14	252	1201527	20.254ug/ml	98
87) Indeno(1,2,3-c,d)pyrene	21.00	276	1159910	19.806ug/ml	92
88) Dibenzo(a,h)anthracene	21.08	278	1217054	20.197ug/ml	97
89) Benzo(g,h,i)perylene	21.84	276	1192283	20.075ug/ml	96

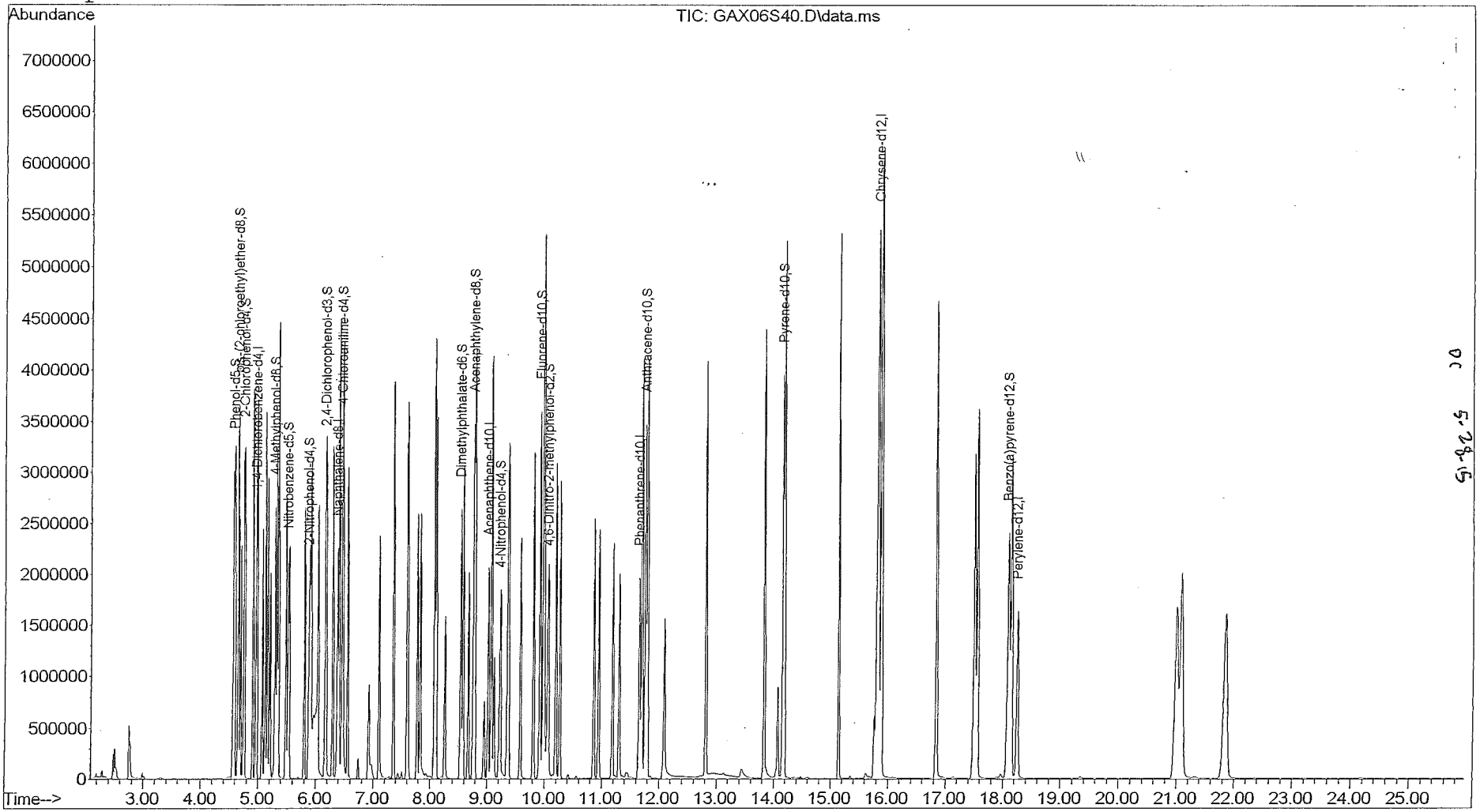
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX06S40.D Vial: 4
Acq On : 05/27/2015 18:30 Operator: DJC
Sample : SSTD040GX 28170 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 11:13:25 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX06S40.D Vial: 4
Acq On : 05/27/2015 18:30 Operator: DJC
Sample : SSTD040GX 28170 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:13:25 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	356855	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1321883	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	742931	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1245463	20.00 ug/ml
73) Chrysene-d12	15.83	240	1172449	20.00 ug/ml
81) Perylene-d12	18.25	264	1190170	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	963937	37.659ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	582884	37.172ug/mL
7) 2-Chlorophenol-d4	4.75	132	953158	37.966ug/ml
13) 4-Methylphenol-d8	5.29	113	753888	38.098ug/mL
17) Nitrobenzene-d5	5.52	128	434096	38.424ug/ml
21) 2-Nitrophenol-d4	5.88	143	486359	38.727ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	714738	38.587ug/mL
28) 4-Chloroaniline-d4	6.45	131	660458	28.769ug/mL
42) Dimethylphthalate-d6	8.54	166	1776092	38.367ug/mL
45) Acenaphthylene-d8	8.76	160	2354402	37.836ug/mL
50) 4-Nitrophenol-d4	9.22	143	388511	40.267ug/mL
57) Fluorene-d10	9.92	176	1533842	37.955ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	331171	41.267ug/mL
69) Anthracene-d10	11.76	188	2397355	36.544ug/mL
75) Pyrene-d10	14.16	212	2074679	37.980ug/mL
86) Benzo(a)pyrene-d12	18.09	264	2098592	37.918ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	632003	41.073ug/ml 95
4) Phenol	4.59	94	995640	39.204ug/ml 98
5) Bis(2-chloroethyl)ether	4.69	93	836652	40.293ug/ml 90
8) 2-Chlorophenol	4.76	128	922966	39.428ug/ml 94
9) 2-Methylphenol	5.16	108	767472	38.483ug/ml 97
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	926148	37.740ug/ml 100
11) Acetophenone	5.35	105	1095078	38.233ug/ml 98
12) 4-methylphenol	5.32	108	813941	39.250ug/ml 96
14) N-Nitroso-di-n-propylamine	5.35	70	482462	38.495ug/ml 96
15) Hexachloroethane	5.48	117	416258	38.477ug/ml 97
18) Nitrobenzene	5.53	77	803948	38.556ug/ml 97
19) Isophorone	5.80	82	1401913	39.049ug/ml 98
20) 2-Nitrophenol	5.89	139	517851	39.386ug/ml 100
22) 2,4-Dimethylphenol	5.92	107	804998	39.516ug/ml 96
23) Bis(2-chloroethoxy)methane	6.04	93	936581	39.471ug/ml 96
24) 2,4-Dichlorophenol	6.18	162	725691	40.302ug/ml 99
26) Naphthalene	6.40	128	2599955	37.976ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

60718

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX06S40.D Vial: 4
Acq On : 05/27/2015 18:30 Operator: DJC
Sample : SSTD040GX 28170 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:13:25 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
27)	4-Chloroaniline	6.46	127	738693	29.060ug/ml		96
29)	Hexachlorobutadiene	6.56	225	455009	38.928ug/ml		99
30)	Caprolactam	6.93	113	261604	40.673ug/ml	m	77
31)	4-Chloro-3-methylphenol	7.10	107	714560	41.090ug/ml	DE 5-29-15	95
32)	2-Methylnaphthalene	7.36	142	1563318	35.286ug/ml		96
34)	1,2,4,5-Tetrachlorobenzene	7.61	216	670536	34.706ug/mL		99
35)	Hexachlorocyclopentadiene	7.60	237	539352	41.265ug/ml		99
36)	2,4,6-Trichlorophenol	7.77	196	526132	40.373ug/ml		100
37)	2,4,5-Trichlorophenol	7.83	196	565168	39.853ug/ml		99
38)	1,1'-Biphenyl	8.08	154	2003146	37.220ug/ml		96
39)	2-Chloronaphthalene	8.11	162	1566218	37.705ug/ml		98
40)	2-Nitroaniline	8.26	65	392894	35.995ug/ml		86
41)	Dimethylphthalate	8.58	163	1851827	39.309ug/ml		99
43)	2,6-Dinitrotoluene	8.67	165	429694	39.940ug/ml		89
44)	Acenaphthylene	8.79	152	2649191	37.826ug/ml		99
46)	3-Nitroaniline	8.95	138	233104	23.583ug/ml		93
47)	Acenaphthene	9.08	153	1624548	37.667ug/ml		94
48)	2,4-Dinitrophenol	9.12	184	279037	47.057ug/ml		100
49)	4-Nitrophenol	9.23	109	230717	40.864ug/ml		91
51)	Dibenzofuran	9.37	168	2010801	34.878ug/ml		98
52)	2,4-Dinitrotoluene	9.36	165	580416	39.571ug/ml		96
53)	2,3,4,6-Tetrachlorophenol	9.58	232	434768	41.801ug/mL		97
54)	Diethylphthalate	9.81	149	1939039	39.952ug/ml		98
55)	4-Chlorophenyl-phenylether	9.99	204	856426	38.334ug/ml		98
56)	Fluorene	9.97	166	1763393	37.251ug/ml		98
58)	4-Nitroaniline	10.00	138	335731	33.082ug/ml		65
60)	4,6-Dinitro-2-methylphenol	10.07	198	374489	41.367ug/ml		93
62)	N-Nitrosodiphenylamine	10.20	169	1263821	37.302ug/ml		99
63)	4-Bromophenyl-phenyl ether	10.86	248	500886	38.819ug/ml		99
64)	Hexachlorobenzene	10.95	284	533136	36.899ug/ml		88
65)	Atrazine	11.19	200	447963	35.038ug/ml		97
66)	Pentachlorophenol	11.30	266	347848	39.900ug/ml		99
67)	Phenanthrene	11.70	178	2611675	36.939ug/ml		100
68)	Anthracene	11.79	178	2640326	36.418ug/ml		99
70)	Carbazole	12.09	167	1255940	24.239ug/mL		98
71)	Di-n-butylphthalate	12.82	149	3425149	39.148ug/ml		99
72)	Fluoranthene	13.83	202	2679398	36.560ug/ml		97
74)	Pyrene	14.19	202	2776024	36.950ug/ml		97
76)	Butylbenzylphthalate	15.14	149	1559120	40.658ug/ml		91
77)	3,3'-Dichlorobenzidine	15.79	252	677779	33.683ug/ml		99
78)	Benzo(a)anthracene	15.82	228	2562358	37.570ug/ml		100
79)	Chrysene	15.87	228	2328231	37.115ug/ml		99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	2292896	40.117ug/ml		98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00719

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX06S40.D Vial: 4
Acq On : 05/27/2015 18:30 Operator: DJC
Sample : SSTD040GX 28170 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:13:25 2015 Results File: GSOM01D4.RES

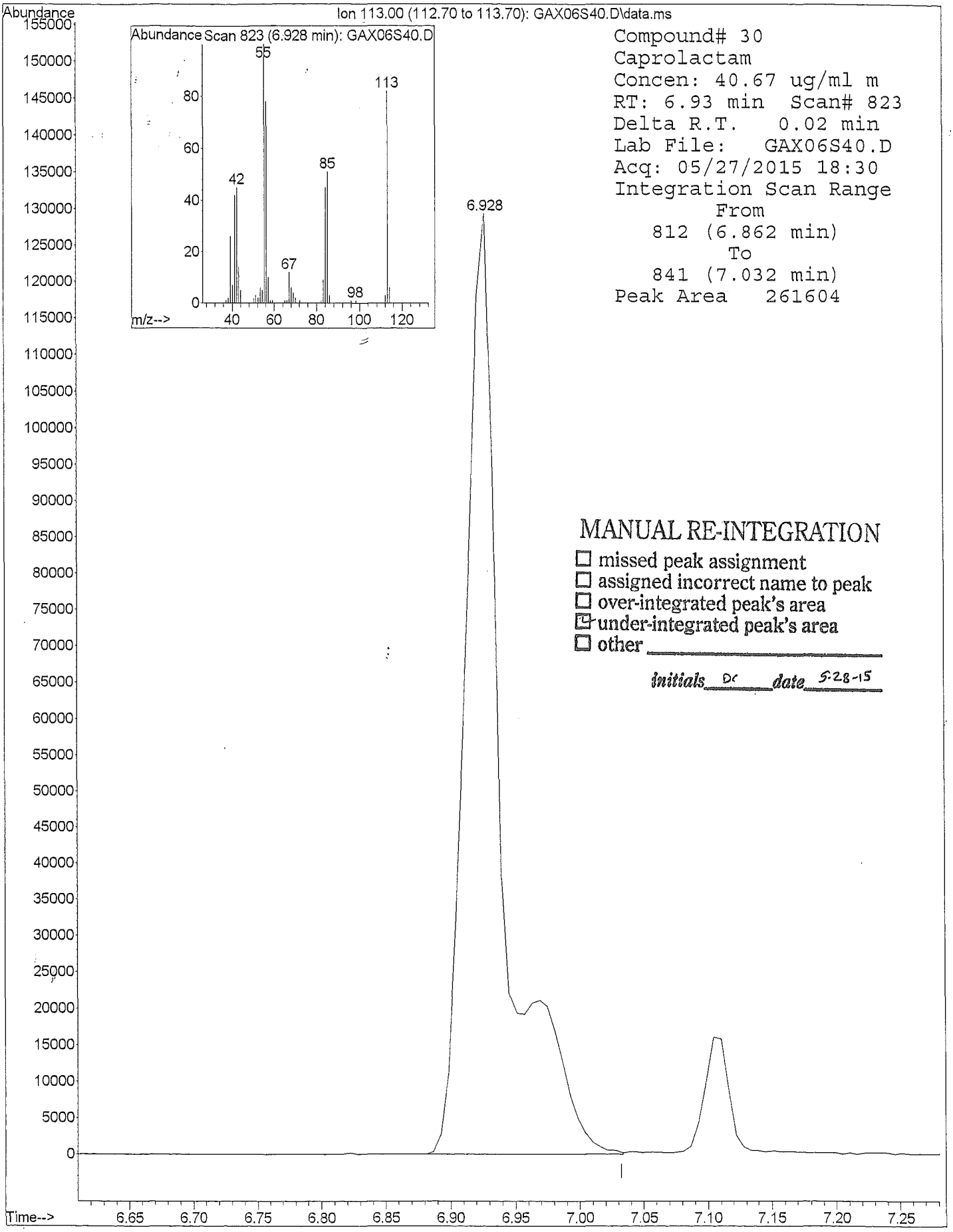
Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	4081868	40.268ug/ml	100
83) Benzo(b)fluoranthene	17.50	252	2742953	39.269ug/ml	98
84) Benzo(k)fluoranthene	17.56	252	2540766	36.398ug/ml	98
85) Benzo(a)pyrene	18.15	252	2571746	37.506ug/ml	98
87) Indeno(1,2,3-c,d)pyrene	21.02	276	2622046	40.812ug/ml	93
88) Dibenzo(a,h)anthracene	21.10	278	2661464	39.463ug/ml	97
89) Benzo(g,h,i)perylene	21.86	276	2634380	39.610ug/ml	96

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

60720

M A N U A L I N T E G R A T I O N FOR Caprolactam



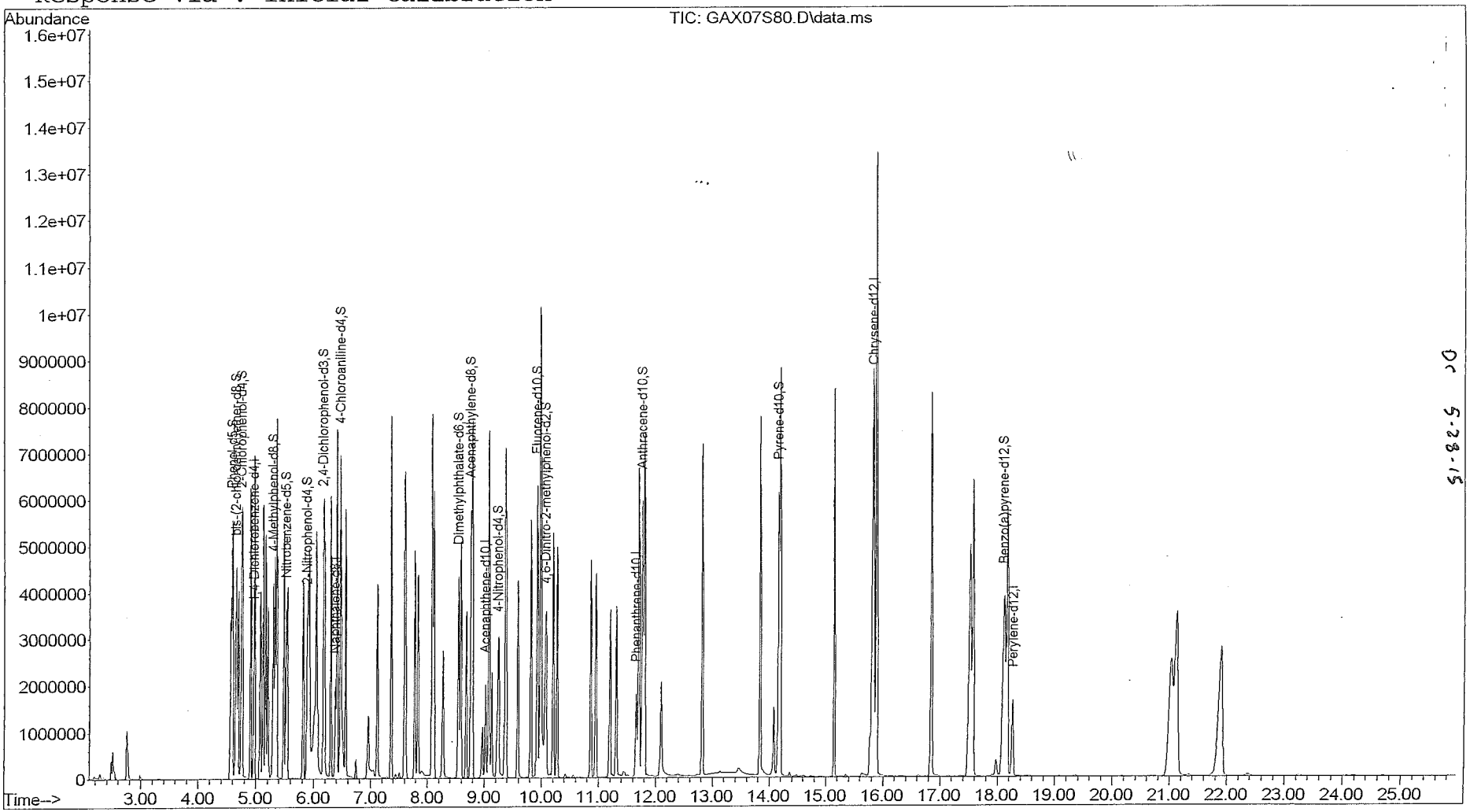
GSOM01D4.M 5975-G GSOM01D4.M SSTD040GX 28170 . X06/19/15

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX07S80.D Vial: 5
Acq On : 05/27/2015 19:02 Operator: DJC
Sample : SSTD080GX 28171 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: May 28 11:14:58 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX07S80.D Vial: 5
Acq On : 05/27/2015 19:02 Operator: DJC
Sample : SSTD080GX 28171 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:14:58 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	336609	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1261945	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	721452	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1184175	20.00 ug/ml
73) Chrysene-d12	15.84	240	1083704	20.00 ug/ml
81) Perylene-d12	18.26	264	1142790	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.59	99	1776159	74.657ug/ml
6) bis-(2-chloroethyl)ether-d	4.66	67	1099583	75.679ug/mL
7) 2-Chlorophenol-d4	4.75	132	1736970	74.292ug/ml
13) 4-Methylphenol-d8	5.30	113	1408058	76.343ug/mL
17) Nitrobenzene-d5	5.52	128	817817	76.581ug/ml
21) 2-Nitrophenol-d4	5.88	143	913715	76.823ug/mL
25) 2,4-Dichlorophenol-d3	6.17	165	1305530	74.488ug/mL
28) 4-Chloroaniline-d4	6.46	131	979203	48.052ug/mL
42) Dimethylphthalate-d6	8.55	166	3311840	74.431ug/mL
45) Acenaphthylene-d8	8.77	160	4346851	72.921ug/mL
50) 4-Nitrophenol-d4	9.24	143	736166	78.397ug/mL
57) Fluorene-d10	9.93	176	2846305	73.468ug/mL
61) 4,6-Dinitro-2-methylphenol	10.07	200	638522	82.810ug/mL
69) Anthracene-d10	11.77	188	4432038	72.624ug/mL
75) Pyrene-d10	14.16	212	3754163	75.304ug/mL
86) Benzo(a)pyrene-d12	18.11	264	3950537	75.319ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	958399	65.591ug/ml 94
4) Phenol	4.60	94	1870612	78.477ug/ml 96
5) Bis(2-chloroethyl)ether	4.70	93	1641994	83.681ug/ml 91
8) 2-Chlorophenol	4.76	128	1718478	78.106ug/ml 94
9) 2-Methylphenol	5.16	108	1388921	74.539ug/ml 96
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	1645722	72.114ug/ml 100
11) Acetophenone	5.36	105	1994281	74.640ug/ml 75
12) 4-methylphenol	5.33	108	1482530	76.148ug/ml 95
14) N-Nitroso-di-n-propylamine	5.36	70	878558	75.021ug/ml 95
15) Hexachloroethane	5.48	117	768198	76.004ug/ml 97
18) Nitrobenzene	5.55	77	1484874	75.274ug/ml 97
19) Isophorone	5.82	82	2607032	76.521ug/ml 98
20) 2-Nitrophenol	5.90	139	982117	78.546ug/ml 99
22) 2,4-Dimethylphenol	5.92	107	1548501	79.866ug/ml 96
23) Bis(2-chloroethoxy)methane	6.05	93	1716719	76.037ug/ml 96
24) 2,4-Dichlorophenol	6.19	162	1362951	79.138ug/ml 99
26) Naphthalene	6.41	128	4827959	74.814ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00723

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX07S80.D Vial: 5
Acq On : 05/27/2015 19:02 Operator: DJC
Sample : SSTD080GX 28171 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:14:58 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
27)	4-Chloroaniline	6.47	127	1188008	52.548ug/ml		97
29)	Hexachlorobutadiene	6.56	225	821313	74.101ug/ml		99
30)	Caprolactam	6.96	113	492827	79.925ug/ml	m	74
31)	4-Chloro-3-methylphenol	7.12	107	1376409	82.347ug/ml		95
32)	2-Methylnaphthalene	7.36	142	3130945	76.273ug/ml		97
34)	1,2,4,5-Tetrachlorobenzene	7.62	216	1333950	73.533ug/mL		99
35)	Hexachlorocyclopentadiene	7.60	237	986752	77.133ug/ml		99
36)	2,4,6-Trichlorophenol	7.78	196	1011164	79.716ug/ml		99
37)	2,4,5-Trichlorophenol	7.83	196	1043461	75.840ug/ml		100
38)	1,1'-Biphenyl	8.09	154	3670271	71.469ug/ml		97
39)	2-Chloronaphthalene	8.12	162	2869928	72.182ug/ml		99
40)	2-Nitroaniline	8.27	65	815663	79.609ug/ml		87
41)	Dimethylphthalate	8.59	163	3421612	75.118ug/ml		99
43)	2,6-Dinitrotoluene	8.69	165	807631	77.333ug/ml		88
44)	Acenaphthylene	8.79	152	4909087	73.175ug/ml		99
46)	3-Nitroaniline	8.97	138	389562	47.018ug/ml		94
47)	Acenaphthene	9.09	153	3038712	73.628ug/ml		93
48)	2,4-Dinitrophenol	9.13	184	572566	93.909ug/ml		100
49)	4-Nitrophenol	9.26	109	443860	80.377ug/ml		92
51)	Dibenzofuran	9.38	168	3985419	73.541ug/ml		97
52)	2,4-Dinitrotoluene	9.37	165	1058001	74.479ug/ml		94
53)	2,3,4,6-Tetrachlorophenol	9.59	232	831382	81.398ug/mL		97
54)	Diethylphthalate	9.82	149	3532711	74.977ug/ml		97
55)	4-Chlorophenyl-phenylether	9.99	204	1526592	71.106ug/ml		97
56)	Fluorene	9.98	166	3235389	71.612ug/ml		98
58)	4-Nitroaniline	10.02	138	520336	56.029ug/ml		72
60)	4,6-Dinitro-2-methylphenol	10.09	198	727805	83.603ug/ml		92
62)	N-Nitrosodiphenylamine	10.20	169	2253516	71.156ug/ml		100
63)	4-Bromophenyl-phenyl ether	10.87	248	919376	75.497ug/ml		99
64)	Hexachlorobenzene	10.96	284	985468	73.154ug/ml		88
65)	Atrazine	11.20	200	760746	64.586ug/ml		96
66)	Pentachlorophenol	11.31	266	691078	83.443ug/ml		99
67)	Phenanthrene	11.71	178	4803842	72.854ug/ml		100
68)	Anthracene	11.80	178	4869848	72.264ug/ml		99
70)	Carbazole	12.10	167	1776711	40.005ug/mL		99
71)	Di-n-butylphthalate	12.82	149	6204078	74.980ug/ml		99
72)	Fluoranthene	13.84	202	4892842	71.760ug/ml		97
74)	Pyrene	14.20	202	5044772	74.059ug/ml		97
76)	Butylbenzylphthalate	15.15	149	2825747	79.396ug/ml		92
77)	3,3'-Dichlorobenzidine	15.80	252	1283930	71.868ug/ml		99
78)	Benzo(a)anthracene	15.83	228	4767242	76.788ug/ml		100
79)	Chrysene	15.88	228	4143133	72.768ug/ml		100
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	4003384	75.725ug/ml		97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX07S80.D Vial: 5
Acq On : 05/27/2015 19:02 Operator: DJC
Sample : SSTD080GX 28171 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:14:58 2015 Results File: GSOM01D4.RES

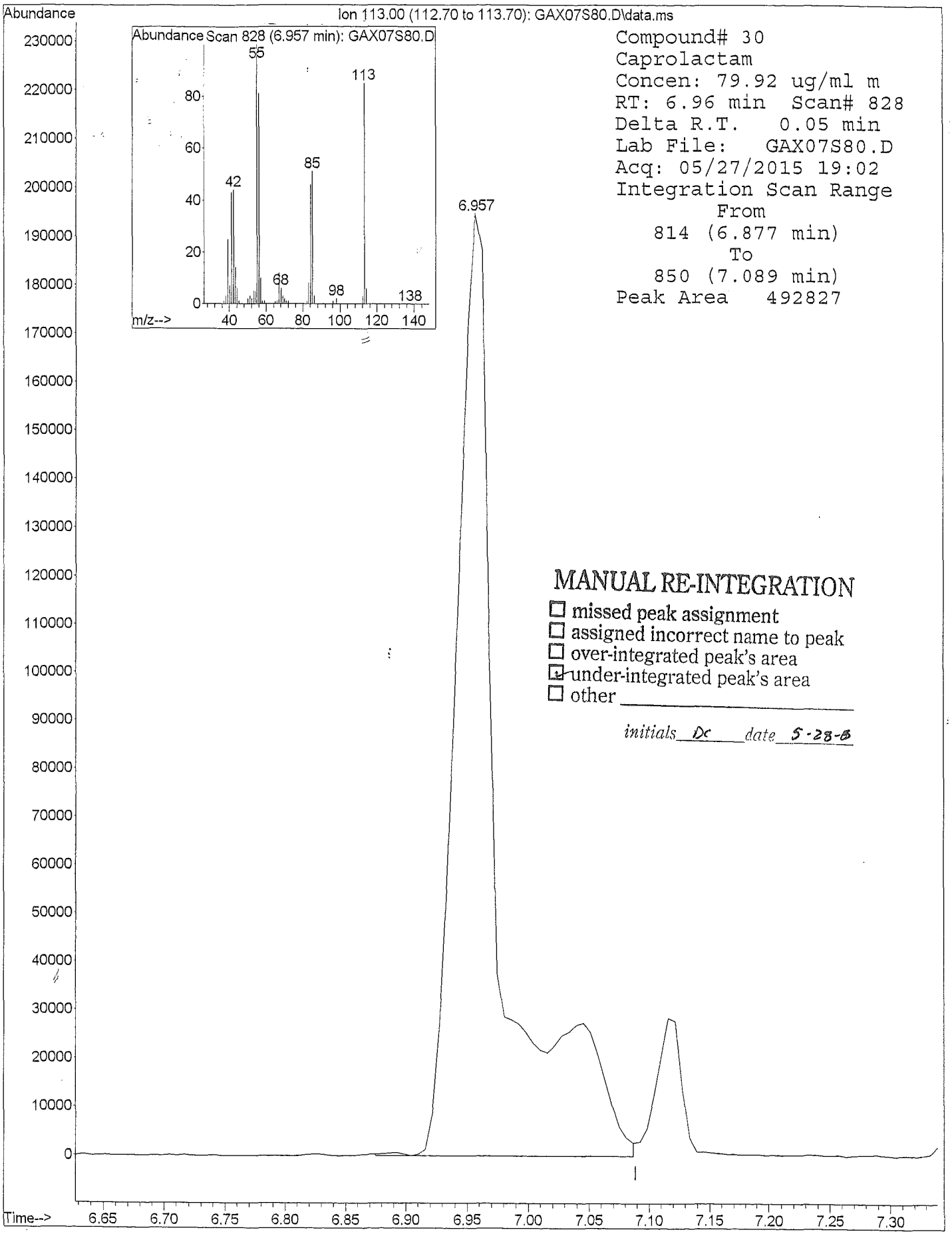
Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu May 28 11:21:12 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	7380781	75.704ug/ml	100
83) Benzo(b)fluoranthene	17.52	252	5207150	77.994ug/ml	98
84) Benzo(k)fluoranthene	17.57	252	4800315	73.268ug/ml	98
85) Benzo(a)pyrene	18.17	252	4891017	75.464ug/ml	98
87) Indeno(1,2,3-c,d)pyrene	21.04	276	5284602	85.232ug/ml	92
88) Dibenzo(a,h)anthracene	21.14	278	5124292	79.397ug/ml	97
89) Benzo(g,h,i)perylene	21.91	276	5060149	79.431ug/ml	96

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00725

M A N U A L I N T E G R A T I O N FOR Caprolactam



Compound# 30
Caprolactam
Concen: 79.92 ug/ml m
RT: 6.96 min Scan# 828
Delta R.T. 0.05 min
Lab File: GAX07S80.D
Acq: 05/27/2015 19:02
Integration Scan Range
From
814 (6.877 min)
To
850 (7.089 min)
Peak Area 492827

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☑ under-integrated peak's area
- ☐ other _____

initials DC *date* 5-28-15

GSOM01D4.M 5975-G GSOM01D4.M SSTD080GX 28171 . X06/19/15

00726

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 06/02/2015 Time: 11:34

Lab File ID: GBC01S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GC Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.837	0.783	0.010	-6.5	40.0
Phenol	1.411	1.446	0.800	2.5	25.0
Bis(2-chloroethyl)ether	1.177	1.118	0.700	-5.0	25.0
2-Chlorophenol	1.301	1.359	0.800	4.4	25.0
2-Methylphenol	1.092	1.096	0.700	0.3	25.0
2,2'-Oxybis(1-chloropropane)	1.329	1.233	0.010	-7.2	40.0
Acetophenone	1.566	1.598	0.010	2.0	40.0
4-Methylphenol	1.146	1.163	0.600	1.5	25.0
N-Nitroso-di-n-propylamine	0.687	0.716	0.500	4.1	25.0
Hexachloroethane	0.595	0.609	0.300	2.4	25.0
Nitrobenzene	0.309	0.312	0.200	1.0	25.0
Isophorone	0.535	0.554	0.400	3.5	25.0
2-Nitrophenol	0.197	0.204	0.100	3.4	25.0
2,4-Dimethylphenol	0.307	0.323	0.200	5.3	25.0
Bis(2-chloroethoxy)methane	0.354	0.356	0.300	0.4	25.0
2,4-Dichlorophenol	0.272	0.292	0.200	7.2	25.0
Naphthalene	1.009	1.035	0.700	2.5	25.0
4-Chloroaniline	0.334	0.319	0.010	-4.4	40.0
Hexachlorobutadiene	0.173	0.183	0.010	6.0	40.0
Caprolactam	0.098	0.104	0.010	6.1	40.0
4-Chloro-3-methylphenol	0.266	0.290	0.200	8.8	25.0
2-Methylnaphthalene	0.645	0.651	0.400	1.0	25.0
Hexachlorocyclopentadiene	0.352	0.384	0.010	9.0	40.0
2,4,6-Trichlorophenol	0.351	0.367	0.200	4.4	25.0
2,4,5-Trichlorophenol	0.377	0.380	0.200	0.8	25.0
1,1'-Biphenyl	1.393	1.407	0.010	0.9	40.0
2-Chloronaphthalene	1.081	1.108	0.800	2.5	25.0
2-Nitroaniline	0.284	0.274	0.010	-3.5	40.0
Dimethylphthalate	1.247	1.275	0.010	2.2	40.0
2,6-Dinitrotoluene	0.288	0.306	0.200	6.5	25.0
Acenaphthylene	1.828	1.883	0.900	3.0	25.0
3-Nitroaniline	0.206	0.194	0.010	-5.9	40.0
Acenaphthene	1.126	1.169	0.900	3.8	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 06/02/2015 Time: 11:34

Lab File ID: GBC01S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GC Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.176	0.185	0.010	4.8	40.0
4-Nitrophenol	0.153	0.163	0.010	6.4	40.0
Dibenzofuran	1.478	1.491	0.800	0.9	25.0
2,4-Dinitrotoluene	0.388	0.418	0.200	7.7	25.0
Diethylphthalate	1.290	1.335	0.010	3.5	40.0
Fluorene	1.226	1.297	0.900	5.8	25.0
4-Chlorophenyl-phenylether	0.582	0.603	0.400	3.7	25.0
4-Nitroaniline	0.238	0.251	0.010	5.2	40.0
4,6-Dinitro-2-methylphenol	0.149	0.153	0.010	3.1	40.0
N-Nitrosodiphenylamine (1)	0.523	0.534	0.010	2.1	40.0
1,2,4,5-Tetrachlorobenzene	0.495	0.512	0.010	3.5	40.0
4-Bromophenyl-phenylether	0.203	0.208	0.100	2.2	25.0
Hexachlorobenzene	0.224	0.237	0.100	5.8	25.0
Atrazine	0.191	0.206	0.010	7.9	40.0
Pentachlorophenol	0.141	0.152	0.050	7.6	25.0
Phenanthrene	1.094	1.115	0.700	1.9	25.0
Anthracene	1.116	1.152	0.700	3.2	25.0
Carbazole	0.675	0.785	0.010	16.3	40.0
Di-n-butylphthalate	1.380	1.432	0.010	3.7	40.0
Fluoranthene	1.128	1.193	0.600	5.7	25.0
Pyrene	1.238	1.287	0.600	3.9	25.0
Butylbenzylphthalate	0.656	0.678	0.010	3.4	40.0
3,3'-Dichlorobenzidine	0.323	0.274	0.010	-15.2	40.0
Benzo(a)anthracene	1.137	1.165	0.800	2.5	25.0
Chrysene	1.032	1.065	0.700	3.3	25.0
Bis(2-ethylhexyl)phthalate	0.965	0.992	0.010	2.7	40.0
Di-n-octylphthalate	1.688	1.762	0.010	4.4	40.0
Benzo(b)fluoranthene	1.163	1.194	0.700	2.7	25.0
Benzo(k)fluoranthene	1.127	1.183	0.700	4.9	25.0
Benzo(a)pyrene	1.121	1.159	0.700	3.4	25.0
Indeno(1,2,3-cd)pyrene	1.099	1.135	0.500	3.2	25.0
Dibenzo(a,h)anthracene	1.128	1.167	0.400	3.5	25.0
Benzo(g,h,i)perylene	1.113	1.142	0.500	2.6	25.0
2,3,4,6-Tetrachlorophenol	0.284	0.309	0.100	8.8	25.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 06/02/2015 Time: 11:34

Lab File ID: GBC01S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GC Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

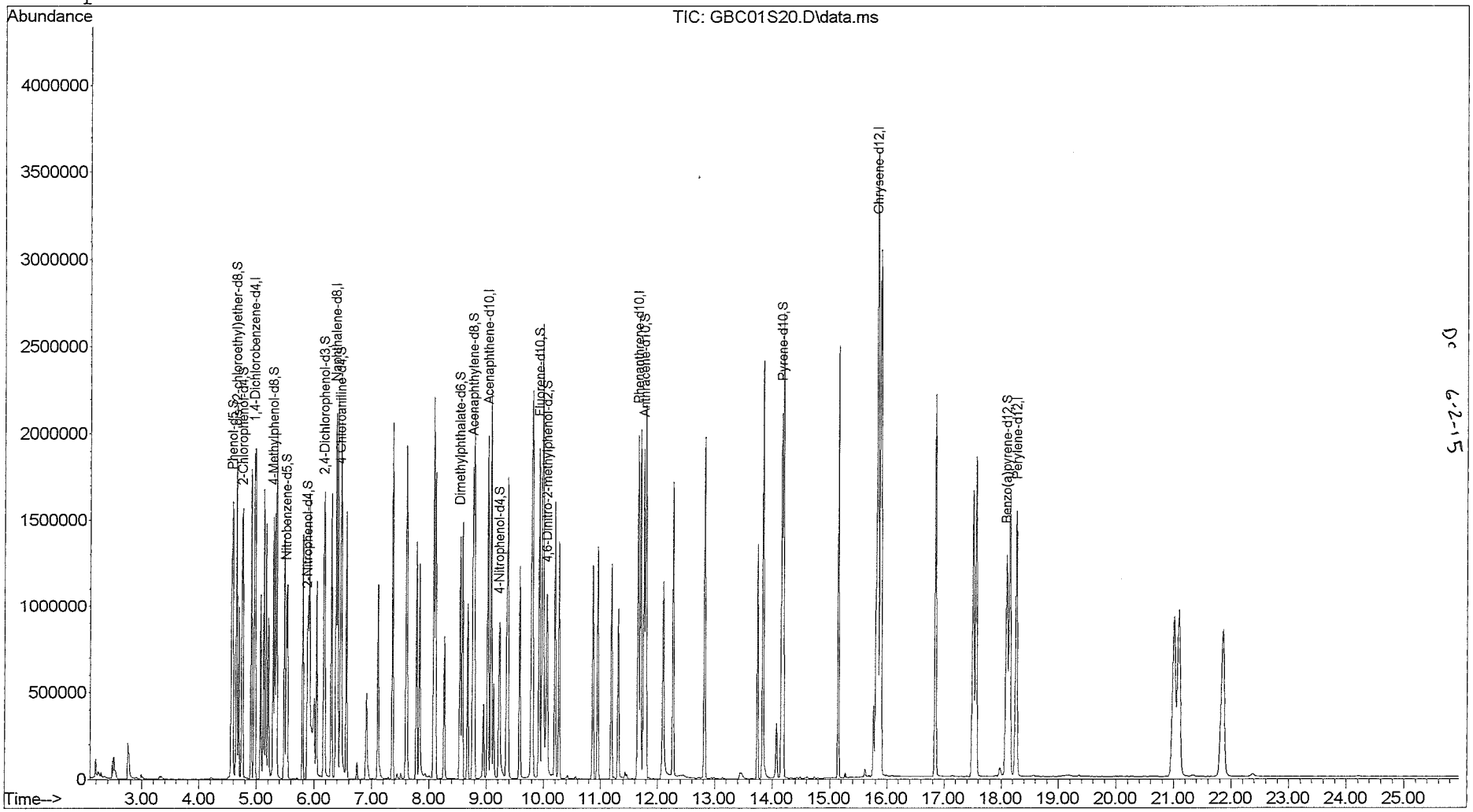
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.395	1.423	0.010	2.1	25.0
Bis(2-chloroethyl)ether-d8	0.854	0.845	0.010	-1.1	25.0
2-Chlorophenol-d4	1.369	1.400	0.010	2.2	25.0
4-Methylphenol-d8	1.086	1.110	0.010	2.2	25.0
Nitrobenzene-d5	0.168	0.172	0.010	2.5	25.0
2-Nitrophenol-d4	0.187	0.190	0.010	1.4	25.0
2,4-Dichlorophenol-d3	0.274	0.287	0.010	4.8	25.0
4-Chloroaniline-d4	0.297	0.269	0.010	-9.4	40.0
Dimethylphthalate-d6	1.216	1.281	0.010	5.3	40.0
Acenaphthylene-d8	1.623	1.660	0.010	2.3	25.0
4-Nitrophenol-d4	0.259	0.268	0.010	3.6	40.0
Fluorene-d10	1.056	1.106	0.010	4.7	25.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.137	0.010	4.5	40.0
Anthracene-d10	1.012	1.040	0.010	2.8	25.0
Pyrene-d10	0.909	0.954	0.010	4.9	25.0
Benzo(a)pyrene-d12	0.907	0.946	0.010	4.3	25.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\02JUN15\GBC01S20.D Vial: 1
Acq On : 06/02/2015 11:34 Operator: DJC
Sample : SSTD020GC 28237 DFTPPGC Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 02 12:00:47 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 02 12:06:13 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\02JUN15\GBC01S20.D Vial: 1
Acq On : 06/02/2015 11:34 Operator: DJC
Sample : SSTD020GC 28237 DFTPPGC Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 02 12:00:47 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 02 12:06:13 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	325019	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1226959	20.00 ug/ml
33) Acenaphthene-d10	9.03	164	708728	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1189423	20.00 ug/ml
73) Chrysene-d12	15.84	240	1129462	20.00 ug/ml
81) Perylene-d12	18.26	264	1100778	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	462628	20.412ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	274637	19.790ug/mL
7) 2-Chlorophenol-d4	4.75	132	454900	20.442ug/ml
13) 4-Methylphenol-d8	5.29	113	360832	20.449ug/mL
17) Nitrobenzene-d5	5.52	128	210935	20.491ug/ml
21) 2-Nitrophenol-d4	5.88	143	232590	20.274ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	352213	20.958ug/mL
28) 4-Chloroaniline-d4	6.45	131	330515	18.130ug/mL
42) Dimethylphthalate-d6	8.54	166	907815	21.062ug/mL
45) Acenaphthylene-d8	8.76	160	1176547	20.454ug/mL
50) 4-Nitrophenol-d4	9.22	143	190090	20.710ug/mL
57) Fluorene-d10	9.92	176	783595	20.931ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	163352	20.908ug/mL
69) Anthracene-d10	11.76	188	1236834	20.557ug/mL
75) Pyrene-d10	14.16	212	1077624	20.987ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1041864	20.866ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	254437	18.708ug/ml 94
4) Phenol	4.59	94	470128	20.504ug/ml 97
5) Bis(2-chloroethyl)ether	4.69	93	363431	19.007ug/ml 92
8) 2-Chlorophenol	4.76	128	441624	20.887ug/ml 93
9) 2-Methylphenol	5.16	108	356104	20.066ug/ml 100
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	400885	18.559ug/ml 100
11) Acetophenone	5.35	105	519414	20.407ug/ml 97
12) 4-methylphenol	5.32	108	377944	20.300ug/ml 95
14) N-Nitroso-di-n-propylamine	5.34	70	232578	20.827ug/ml 96
15) Hexachloroethane	5.48	117	197911	20.484ug/ml 96
18) Nitrobenzene	5.53	77	383014	20.209ug/ml 96
19) Isophorone	5.80	82	679840	20.704ug/ml 97
20) 2-Nitrophenol	5.90	139	250450	20.676ug/ml 99
22) 2,4-Dimethylphenol	5.92	107	396770	21.054ug/ml 94
23) Bis(2-chloroethoxy)methane	6.04	93	436350	20.077ug/ml 99
24) 2,4-Dichlorophenol	6.18	162	358293	21.443ug/ml 98
26) Naphthalene	6.40	128	1269683	20.502ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00731

Quantitation Report

Data File : C:\msdchem\1\data\20...15\02JUN15\GBC01S20.D Vial: 1
Acq On : 06/02/2015 11:34 Operator: DJC
Sample : SSTD020GC 28237 DFTPPGC Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 02 12:00:47 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 02 12:06:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.46	127	391552	19.126ug/ml	96
29)	Hexachlorobutadiene	6.56	225	225073	21.198ug/ml	99
30)	Caprolactam	6.91	113	127138	21.211ug/ml	73
31)	4-Chloro-3-methylphenol	7.11	107	355688	21.759ug/ml	96
32)	2-Methylnaphthalene	7.36	142	798389	20.192ug/ml	97
34)	1,2,4,5-Tetrachlorobenzene	7.61	216	363008	20.704ug/mL	99
35)	Hexachlorocyclopentadiene	7.60	237	272002	21.800ug/ml	99
36)	2,4,6-Trichlorophenol	7.78	196	260110	20.889ug/ml	99
37)	2,4,5-Trichlorophenol	7.83	196	269561	20.153ug/ml	98
38)	1,1'-Biphenyl	8.08	154	996830	20.190ug/ml	96
39)	2-Chloronaphthalene	8.11	162	785193	20.504ug/ml	98
40)	2-Nitroaniline	8.26	65	193944	19.292ug/ml	83
41)	Dimethylphthalate	8.58	163	903427	20.439ug/ml	99
43)	2,6-Dinitrotoluene	8.67	165	217020	21.295ug/ml	88
44)	Acenaphthylene	8.79	152	1334536	20.601ug/ml	99
46)	3-Nitroaniline	8.95	138	137366	18.816ug/ml	94
47)	Acenaphthene	9.08	153	828611	20.768ug/ml	93
48)	2,4-Dinitrophenol	9.13	184	130947	20.952ug/ml	100
49)	4-Nitrophenol	9.23	109	115614	21.287ug/ml	91
51)	Dibenzofuran	9.37	168	1056957	20.180ug/ml	99
52)	2,4-Dinitrotoluene	9.36	165	296305	21.530ug/ml	97
53)	2,3,4,6-Tetrachlorophenol	9.59	232	219157	21.766ug/mL	97
54)	Diethylphthalate	9.81	149	945920	20.696ug/ml	98
55)	4-Chlorophenyl-phenylether	9.99	204	427528	20.732ug/ml	98
56)	Fluorene	9.97	166	919510	21.162ug/ml	99
58)	4-Nitroaniline	10.00	138	177600	21.043ug/ml	69
60)	4,6-Dinitro-2-methylphenol	10.07	198	182387	20.626ug/ml	93
62)	N-Nitrosodiphenylamine	10.20	169	634900	20.410ug/ml	99
63)	4-Bromophenyl-phenyl ether	10.87	248	247252	20.444ug/ml	99
64)	Hexachlorobenzene	10.95	284	281319	21.153ug/ml	86
65)	Atrazine	11.19	200	245555	21.587ug/ml	97
66)	Pentachlorophenol	11.31	266	180865	21.510ug/ml	99
67)	Phenanthrene	11.70	178	1326048	20.386ug/ml	99
68)	Anthracene	11.80	178	1370608	20.648ug/ml	100
70)	Carbazole	12.10	167	933765	23.258ug/mL	98
71)	Di-n-butylphthalate	12.82	149	1702883	20.750ug/ml	99
72)	Fluoranthene	13.84	202	1418523	21.148ug/ml	95
74)	Pyrene	14.19	202	1453372	20.780ug/ml	96
76)	Butylbenzylphthalate	15.15	149	766180	20.687ug/ml	90
77)	3,3'-Dichlorobenzidine	15.80	252	309425	16.963ug/ml	99
78)	Benzo(a)anthracene	15.83	228	1315936	20.502ug/ml	100
79)	Chrysene	15.87	228	1203365	20.652ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1119920	20.545ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00732

Quantitation Report

Data File : C:\msdchem\1\data\20...15\02JUN15\GBC01S20.D Vial: 1
Acq On : 06/02/2015 11:34 Operator: DJC
Sample : SSTD020GC 28237 DFTPPGC Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 02 12:00:47 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 02 12:06:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	1940065	20.883ug/ml	100
83) Benzo(b)fluoranthene	17.50	252	1314871	20.549ug/ml	98
84) Benzo(k)fluoranthene	17.56	252	1301969	20.984ug/ml	98
85) Benzo(a)pyrene	18.14	252	1275924	20.672ug/ml	98
87) Indeno(1,2,3-c,d)pyrene	21.01	276	1249081	20.644ug/ml	92
88) Dibenzo(a,h)anthracene	21.09	278	1284507	20.693ug/ml	96
89) Benzo(g,h,i)perylene	21.86	276	1257430	20.521ug/ml	95

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00733

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 06/02/2015 Time: 14:58

Lab File ID: GBC04S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C1 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.837	0.758	0.010	-9.4	40.0
Phenol	1.411	1.418	0.800	0.5	25.0
Bis(2-chloroethyl)ether	1.177	1.145	0.700	-2.7	25.0
2-Chlorophenol	1.301	1.353	0.800	4.0	25.0
2-Methylphenol	1.092	1.062	0.700	-2.7	25.0
2,2'-Oxybis(1-chloropropane)	1.329	1.195	0.010	-10.1	40.0
Acetophenone	1.566	1.592	0.010	1.7	40.0
4-Methylphenol	1.146	1.155	0.600	0.9	25.0
N-Nitroso-di-n-propylamine	0.687	0.682	0.500	-0.8	25.0
Hexachloroethane	0.595	0.611	0.300	2.7	25.0
Nitrobenzene	0.309	0.309	0.200	0.1	25.0
Isophorone	0.535	0.548	0.400	2.4	25.0
2-Nitrophenol	0.197	0.198	0.100	0.2	25.0
2,4-Dimethylphenol	0.307	0.321	0.200	4.5	25.0
Bis(2-chloroethoxy)methane	0.354	0.353	0.300	-0.3	25.0
2,4-Dichlorophenol	0.272	0.290	0.200	6.5	25.0
Naphthalene	1.009	1.022	0.700	1.2	25.0
4-Chloroaniline	0.334	0.340	0.010	1.8	40.0
Hexachlorobutadiene	0.173	0.183	0.010	5.8	40.0
Caprolactam	0.098	0.102	0.010	4.6	40.0
4-Chloro-3-methylphenol	0.266	0.286	0.200	7.4	25.0
2-Methylnaphthalene	0.645	0.644	0.400	-0.1	25.0
Hexachlorocyclopentadiene	0.352	0.374	0.010	6.1	40.0
2,4,6-Trichlorophenol	0.351	0.367	0.200	4.4	25.0
2,4,5-Trichlorophenol	0.377	0.381	0.200	0.9	25.0
1,1'-Biphenyl	1.393	1.397	0.010	0.3	40.0
2-Chloronaphthalene	1.081	1.106	0.800	2.3	25.0
2-Nitroaniline	0.284	0.275	0.010	-3.0	40.0
Dimethylphthalate	1.247	1.272	0.010	2.0	40.0
2,6-Dinitrotoluene	0.288	0.299	0.200	3.8	25.0
Acenaphthylene	1.828	1.860	0.900	1.7	25.0
3-Nitroaniline	0.206	0.240	0.010	16.6	40.0
Acenaphthene	1.126	1.153	0.900	2.4	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 06/02/2015 Time: 14:58

Lab File ID: GBC04S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C1 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.176	0.181	0.010	2.4	40.0
4-Nitrophenol	0.153	0.159	0.010	3.8	40.0
Dibenzofuran	1.478	1.480	0.800	0.1	25.0
2,4-Dinitrotoluene	0.388	0.414	0.200	6.5	25.0
Diethylphthalate	1.290	1.331	0.010	3.2	40.0
Fluorene	1.226	1.290	0.900	5.2	25.0
4-Chlorophenyl-phenylether	0.582	0.600	0.400	3.0	25.0
4-Nitroaniline	0.238	0.279	0.010	16.9	40.0
4,6-Dinitro-2-methylphenol	0.149	0.153	0.010	3.2	40.0
N-Nitrosodiphenylamine (1)	0.523	0.539	0.010	3.1	40.0
1,2,4,5-Tetrachlorobenzene	0.495	0.508	0.010	2.6	40.0
4-Bromophenyl-phenylether	0.203	0.207	0.100	1.8	25.0
Hexachlorobenzene	0.224	0.239	0.100	6.7	25.0
Atrazine	0.191	0.210	0.010	9.9	40.0
Pentachlorophenol	0.141	0.148	0.050	4.7	25.0
Phenanthrene	1.094	1.117	0.700	2.2	25.0
Anthracene	1.116	1.155	0.700	3.5	25.0
Carbazole	0.675	0.880	0.010	30.3	40.0
Di-n-butylphthalate	1.380	1.449	0.010	5.0	40.0
Fluoranthene	1.128	1.192	0.600	5.7	25.0
Pyrene	1.238	1.250	0.600	0.9	25.0
Butylbenzylphthalate	0.656	0.667	0.010	1.8	40.0
3,3'-Dichlorobenzidine	0.323	0.319	0.010	-1.3	40.0
Benzo(a)anthracene	1.137	1.163	0.800	2.3	25.0
Chrysene	1.032	1.055	0.700	2.3	25.0
Bis(2-ethylhexyl)phthalate	0.965	1.012	0.010	4.8	40.0
Di-n-octylphthalate	1.688	1.787	0.010	5.9	40.0
Benzo(b)fluoranthene	1.163	1.186	0.700	2.0	25.0
Benzo(k)fluoranthene	1.127	1.166	0.700	3.5	25.0
Benzo(a)pyrene	1.121	1.148	0.700	2.3	25.0
Indeno(1,2,3-cd)pyrene	1.099	1.148	0.500	4.4	25.0
Dibenzo(a,h)anthracene	1.128	1.172	0.400	3.9	25.0
Benzo(g,h,i)perylene	1.113	1.149	0.500	3.2	25.0
2,3,4,6-Tetrachlorophenol	0.284	0.304	0.100	6.9	25.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 06/02/2015 Time: 14:58

Lab File ID: GBC04S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C1 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

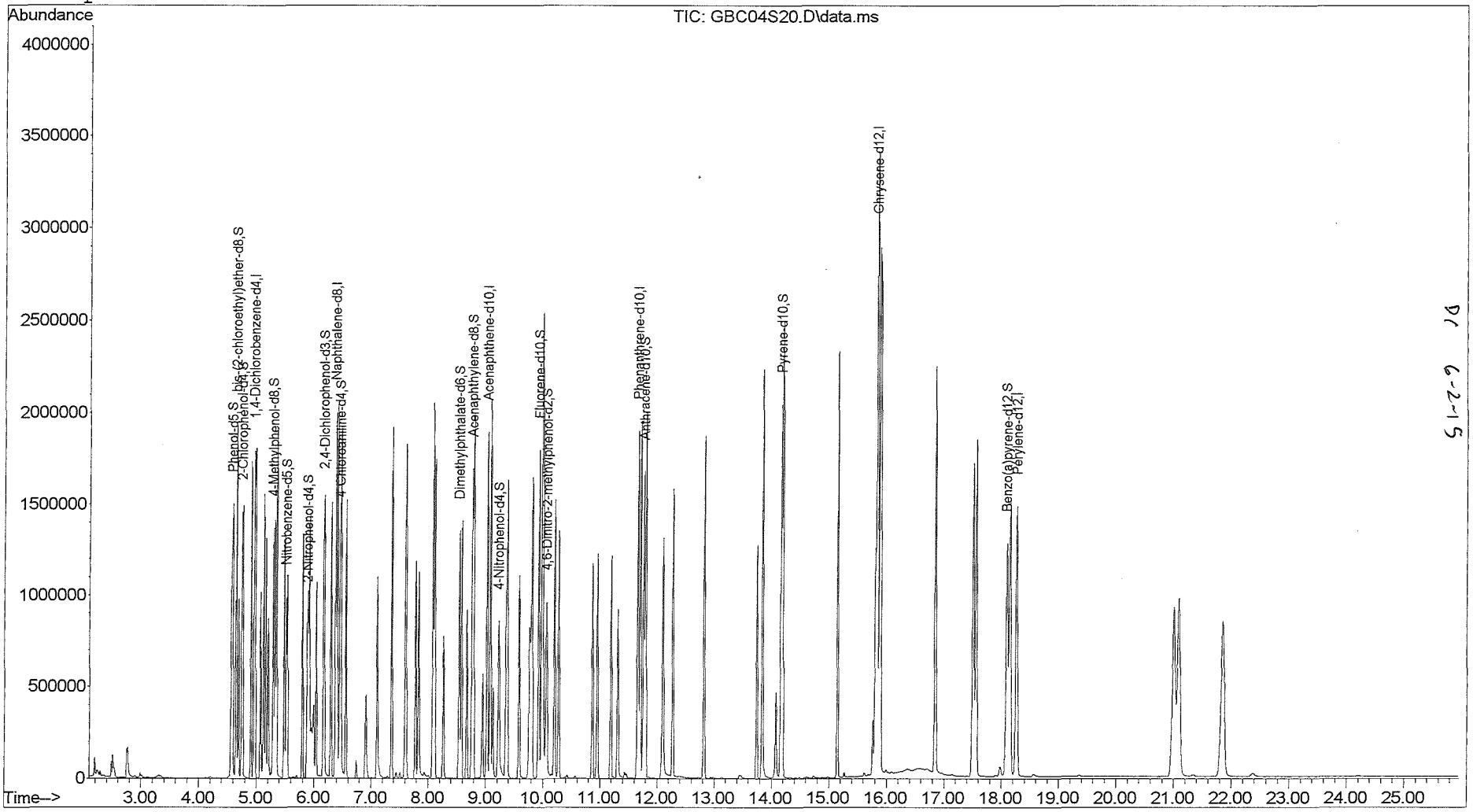
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.395	1.412	0.010	1.2	25.0
Bis(2-chloroethyl)ether-d8	0.854	0.838	0.010	-1.9	25.0
2-Chlorophenol-d4	1.369	1.411	0.010	3.0	25.0
4-Methylphenol-d8	1.086	1.097	0.010	1.0	25.0
Nitrobenzene-d5	0.168	0.168	0.010	0.2	25.0
2-Nitrophenol-d4	0.187	0.189	0.010	1.1	25.0
2,4-Dichlorophenol-d3	0.274	0.285	0.010	4.2	25.0
4-Chloroaniline-d4	0.297	0.302	0.010	1.7	40.0
Dimethylphthalate-d6	1.216	1.281	0.010	5.3	40.0
Acenaphthylene-d8	1.623	1.665	0.010	2.6	25.0
4-Nitrophenol-d4	0.259	0.270	0.010	4.4	40.0
Fluorene-d10	1.056	1.107	0.010	4.8	25.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.137	0.010	4.4	40.0
Anthracene-d10	1.012	1.049	0.010	3.7	25.0
Pyrene-d10	0.909	0.927	0.010	2.0	25.0
Benzo(a)pyrene-d12	0.907	0.943	0.010	3.9	25.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\02JUN15\GBC04S20.D Vial: 1
Acq On : 06/02/2015 14:58 Operator: DJC
Sample : SSTD020C1 28237 DFTPPC1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 02 15:24:39 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 02 15:28:04 2015
Response via : Initial Calibration



6-2-15

Quantitation Report

Data File : C:\msdchem\1\data\20...15\02JUN15\GBC04S20.D Vial: 1
Acq On : 06/02/2015 14:58 Operator: DJC
Sample : SSTD020C1 28237 DFTPPC1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 02 15:24:39 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 02 15:28:04 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	310136	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1161951	20.00 ug/ml
33) Acenaphthene-d10	9.03	164	671537	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1115547	20.00 ug/ml
73) Chrysene-d12	15.84	240	1103221	20.00 ug/ml
81) Perylene-d12	18.26	264	1096059	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.58	99	437826	20.244ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	259924	19.628ug/mL
7) 2-Chlorophenol-d4	4.75	132	437613	20.609ug/ml
13) 4-Methylphenol-d8	5.29	113	340129	20.200ug/mL
17) Nitrobenzene-d5	5.52	128	195317	20.035ug/ml
21) 2-Nitrophenol-d4	5.88	143	219683	20.221ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	331576	20.833ug/mL
28) 4-Chloroaniline-d4	6.45	131	351311	20.349ug/mL
42) Dimethylphthalate-d6	8.54	166	860250	21.064ug/mL
45) Acenaphthylene-d8	8.76	160	1117962	20.512ug/mL
50) 4-Nitrophenol-d4	9.22	143	181525	20.873ug/mL
57) Fluorene-d10	9.92	176	743618	20.963ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	152984	20.878ug/mL
69) Anthracene-d10	11.76	188	1170618	20.745ug/mL
75) Pyrene-d10	14.16	212	1023126	20.399ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1033539	20.788ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	235035	18.111ug/ml 94
4) Phenol	4.59	94	439733	20.099ug/ml 97
5) Bis(2-chloroethyl)ether	4.69	93	355040	19.459ug/ml 90
8) 2-Chlorophenol	4.76	128	419669	20.801ug/ml 93
9) 2-Methylphenol	5.16	108	329429	19.454ug/ml 99
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	370525	17.976ug/ml 100
11) Acetophenone	5.35	105	493815	20.332ug/ml 97
12) 4-methylphenol	5.31	108	358347	20.171ug/ml 95
14) N-Nitroso-di-n-propylamine	5.34	70	211468	19.846ug/ml 96
15) Hexachloroethane	5.48	117	189352	20.538ug/ml 96
18) Nitrobenzene	5.53	77	359490	20.029ug/ml 96
19) Isophorone	5.80	82	636577	20.471ug/ml 98
20) 2-Nitrophenol	5.89	139	229916	20.043ug/ml 98
22) 2,4-Dimethylphenol	5.92	107	372886	20.894ug/ml 94
23) Bis(2-chloroethoxy)methane	6.04	93	410559	19.947ug/ml 99
24) 2,4-Dichlorophenol	6.18	162	337141	21.306ug/ml 98
26) Naphthalene	6.40	128	1187456	20.247ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 8873S

Quantitation Report

Data File : C:\msdchem\1\data\20...15\02JUN15\GBC04S20.D Vial: 1
Acq On : 06/02/2015 14:58 Operator: DJC
Sample : SSTD020C1 28237 DFTPPC1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 02 15:24:39 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 02 15:28:04 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.46	127	394676	20.357ug/ml	96
29)	Hexachlorobutadiene	6.56	225	212826	21.166ug/ml	100
30)	Caprolactam	6.91	113	118729	20.916ug/ml	71
31)	4-Chloro-3-methylphenol	7.10	107	332536	21.481ug/ml	95
32)	2-Methylnaphthalene	7.36	142	748404	19.987ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.61	216	340993	20.526ug/mL	99
35)	Hexachlorocyclopentadiene	7.60	237	250851	21.218ug/ml	99
36)	2,4,6-Trichlorophenol	7.78	196	246360	20.880ug/ml	100
37)	2,4,5-Trichlorophenol	7.83	196	255634	20.171ug/ml	99
38)	1,1'-Biphenyl	8.08	154	938380	20.059ug/ml	97
39)	2-Chloronaphthalene	8.11	162	742606	20.466ug/ml	97
40)	2-Nitroaniline	8.26	65	184822	19.403ug/ml	86
41)	Dimethylphthalate	8.58	163	853960	20.390ug/ml	99
43)	2,6-Dinitrotoluene	8.67	165	200504	20.764ug/ml	90
44)	Acenaphthylene	8.79	152	1248921	20.347ug/ml	99
46)	3-Nitroaniline	8.95	138	161272	23.314ug/ml	95
47)	Acenaphthene	9.08	153	774097	20.477ug/ml	94
48)	2,4-Dinitrophenol	9.13	184	121335	20.489ug/ml	100
49)	4-Nitrophenol	9.23	109	106797	20.753ug/ml	91
51)	Dibenzofuran	9.37	168	993644	20.021ug/ml	99
52)	2,4-Dinitrotoluene	9.36	165	277744	21.299ug/ml	97
53)	2,3,4,6-Tetrachlorophenol	9.59	232	203976	21.380ug/mL	97
54)	Diethylphthalate	9.81	149	893621	20.635ug/ml	98
55)	4-Chlorophenyl-phenylether	9.99	204	402614	20.605ug/ml	98
56)	Fluorene	9.97	166	866395	21.043ug/ml	98
58)	4-Nitroaniline	10.00	138	187045	23.390ug/ml	73
60)	4,6-Dinitro-2-methylphenol	10.06	198	171105	20.632ug/ml	93
62)	N-Nitrosodiphenylamine	10.20	169	601503	20.617ug/ml	100
63)	4-Bromophenyl-phenyl ether	10.87	248	230973	20.363ug/ml	99
64)	Hexachlorobenzene	10.95	284	266173	21.340ug/ml	86
65)	Atrazine	11.19	200	234511	21.981ug/ml	96
66)	Pentachlorophenol	11.31	266	165204	20.949ug/ml	99
67)	Phenanthrene	11.70	178	1246487	20.432ug/ml	100
68)	Anthracene	11.80	178	1288448	20.696ug/ml	100
70)	Carbazole	12.10	167	981393	26.063ug/mL	98
71)	Di-n-butylphthalate	12.82	149	1616150	20.997ug/ml	99
72)	Fluoranthene	13.84	202	1329463	21.133ug/ml	95
74)	Pyrene	14.19	202	1379049	20.187ug/ml	96
76)	Butylbenzylphthalate	15.15	149	736366	20.355ug/ml	90
77)	3,3'-Dichlorobenzidine	15.80	252	351784	19.744ug/ml	99
78)	Benzo(a)anthracene	15.83	228	1282556	20.458ug/ml	100
79)	Chrysene	15.87	228	1163936	20.451ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1116211	20.964ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00739

Quantitation Report

Data File : C:\msdchem\1\data\20...15\02JUN15\GBC04S20.D Vial: 1
Acq On : 06/02/2015 14:58 Operator: DJC
Sample : SSTD020C1 28237 DFTPPC1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 02 15:24:39 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jun 02 15:28:04 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	1959143	21.179ug/ml	100
83) Benzo(b)fluoranthene	17.50	252	1299463	20.396ug/ml	98
84) Benzo(k)fluoranthene	17.56	252	1278254	20.690ug/ml	97
85) Benzo(a)pyrene	18.14	252	1257757	20.466ug/ml	97
87) Indeno(1,2,3-c,d)pyrene	21.01	276	1258090	20.883ug/ml	92
88) Dibenzo(a,h)anthracene	21.09	278	1284607	20.784ug/ml	95
89) Benzo(g,h,i)perylene	21.86	276	1259327	20.640ug/ml	95

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 06/03/2015 Time: 00:14

Lab File ID: GBC21S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C2 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.837	0.737	0.010	-11.9	40.0
Phenol	1.411	1.402	0.800	-0.7	25.0
Bis(2-chloroethyl)ether	1.177	1.116	0.700	-5.2	25.0
2-Chlorophenol	1.301	1.341	0.800	3.0	25.0
2-Methylphenol	1.092	1.071	0.700	-1.9	25.0
2,2'-Oxybis(1-chloropropane)	1.329	1.153	0.010	-13.3	40.0
Acetophenone	1.566	1.589	0.010	1.4	40.0
4-Methylphenol	1.146	1.159	0.600	1.1	25.0
N-Nitroso-di-n-propylamine	0.687	0.671	0.500	-2.4	25.0
Hexachloroethane	0.595	0.596	0.300	0.3	25.0
Nitrobenzene	0.309	0.312	0.200	1.1	25.0
Isophorone	0.535	0.552	0.400	3.2	25.0
2-Nitrophenol	0.197	0.202	0.100	2.3	25.0
2,4-Dimethylphenol	0.307	0.326	0.200	6.2	25.0
Bis(2-chloroethoxy)methane	0.354	0.354	0.300	-0.1	25.0
2,4-Dichlorophenol	0.272	0.296	0.200	8.6	25.0
Naphthalene	1.009	1.038	0.700	2.9	25.0
4-Chloroaniline	0.334	0.371	0.010	11.0	40.0
Hexachlorobutadiene	0.173	0.187	0.010	8.0	40.0
Caprolactam	0.098	0.103	0.010	5.2	40.0
4-Chloro-3-methylphenol	0.266	0.292	0.200	9.5	25.0
2-Methylnaphthalene	0.645	0.653	0.400	1.3	25.0
Hexachlorocyclopentadiene	0.352	0.299	0.010	-15.0	40.0
2,4,6-Trichlorophenol	0.351	0.365	0.200	3.8	25.0
2,4,5-Trichlorophenol	0.377	0.388	0.200	2.7	25.0
1,1'-Biphenyl	1.393	1.388	0.010	-0.4	40.0
2-Chloronaphthalene	1.081	1.104	0.800	2.1	25.0
2-Nitroaniline	0.284	0.271	0.010	-4.4	40.0
Dimethylphthalate	1.247	1.289	0.010	3.3	40.0
2,6-Dinitrotoluene	0.288	0.306	0.200	6.3	25.0
Acenaphthylene	1.828	1.873	0.900	2.4	25.0
3-Nitroaniline	0.206	0.237	0.010	15.1	40.0
Acenaphthene	1.126	1.154	0.900	2.5	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 06/03/2015 Time: 00:14

Lab File ID: GBC21S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C2 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.176	0.156	0.010	-11.7	40.0
4-Nitrophenol	0.153	0.159	0.010	3.9	40.0
Dibenzofuran	1.478	1.484	0.800	0.4	25.0
2,4-Dinitrotoluene	0.388	0.419	0.200	7.9	25.0
Diethylphthalate	1.290	1.355	0.010	5.0	40.0
Fluorene	1.226	1.299	0.900	5.9	25.0
4-Chlorophenyl-phenylether	0.582	0.610	0.400	4.9	25.0
4-Nitroaniline	0.238	0.280	0.010	17.6	40.0
4,6-Dinitro-2-methylphenol	0.149	0.142	0.010	-4.3	40.0
N-Nitrosodiphenylamine (1)	0.523	0.539	0.010	3.1	40.0
1,2,4,5-Tetrachlorobenzene	0.495	0.510	0.010	3.1	40.0
4-Bromophenyl-phenylether	0.203	0.207	0.100	1.8	25.0
Hexachlorobenzene	0.224	0.236	0.100	5.6	25.0
Atrazine	0.191	0.210	0.010	9.8	40.0
Pentachlorophenol	0.141	0.150	0.050	6.4	25.0
Phenanthrene	1.094	1.112	0.700	1.7	25.0
Anthracene	1.116	1.160	0.700	3.9	25.0
Carbazole	0.675	0.918	0.010	36.0	40.0
Di-n-butylphthalate	1.380	1.433	0.010	3.9	40.0
Fluoranthene	1.128	1.176	0.600	4.3	25.0
Pyrene	1.238	1.274	0.600	2.9	25.0
Butylbenzylphthalate	0.656	0.680	0.010	3.7	40.0
3,3'-Dichlorobenzidine	0.323	0.354	0.010	9.6	40.0
Benzo(a)anthracene	1.137	1.164	0.800	2.4	25.0
Chrysene	1.032	1.072	0.700	3.9	25.0
Bis(2-ethylhexyl)phthalate	0.965	1.010	0.010	4.6	40.0
Di-n-octylphthalate	1.688	1.794	0.010	6.3	40.0
Benzo(b)fluoranthene	1.163	1.249	0.700	7.4	25.0
Benzo(k)fluoranthene	1.127	1.138	0.700	1.0	25.0
Benzo(a)pyrene	1.121	1.152	0.700	2.7	25.0
Indeno(1,2,3-cd)pyrene	1.099	1.104	0.500	0.5	25.0
Dibenzo(a,h)anthracene	1.128	1.145	0.400	1.5	25.0
Benzo(g,h,i)perylene	1.113	1.084	0.500	-2.6	25.0
2,3,4,6-Tetrachlorophenol	0.284	0.313	0.100	10.3	25.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 06/03/2015 Time: 00:14

Lab File ID: GBC21S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C2 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

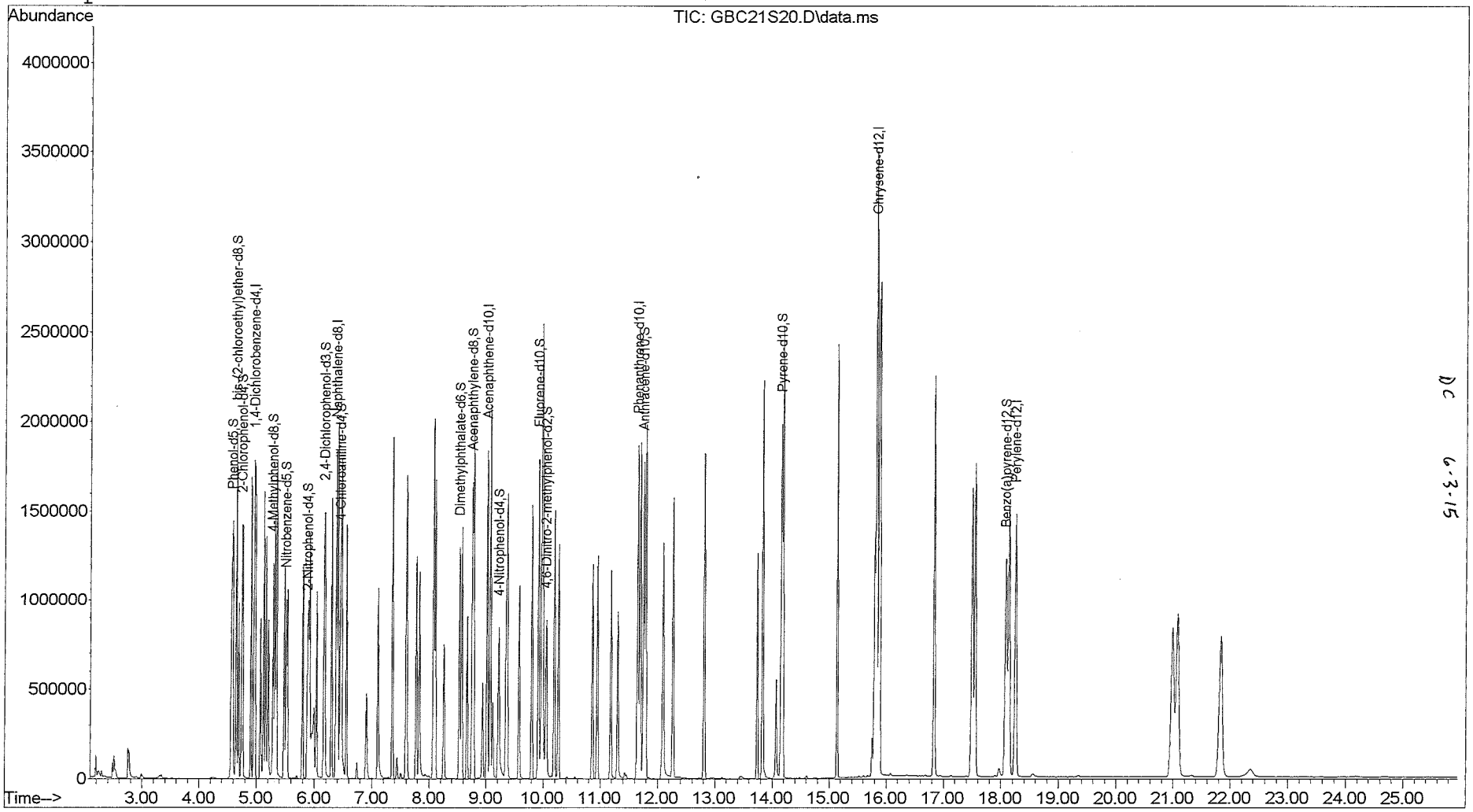
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.395	1.384	0.010	-0.8	25.0
Bis(2-chloroethyl)ether-d8	0.854	0.832	0.010	-2.5	25.0
2-Chlorophenol-d4	1.369	1.392	0.010	1.7	25.0
4-Methylphenol-d8	1.086	1.077	0.010	-0.8	25.0
Nitrobenzene-d5	0.168	0.169	0.010	0.5	25.0
2-Nitrophenol-d4	0.187	0.192	0.010	2.9	25.0
2,4-Dichlorophenol-d3	0.274	0.290	0.010	5.7	25.0
4-Chloroaniline-d4	0.297	0.333	0.010	11.9	40.0
Dimethylphthalate-d6	1.216	1.271	0.010	4.5	40.0
Acenaphthylene-d8	1.623	1.664	0.010	2.5	25.0
4-Nitrophenol-d4	0.259	0.271	0.010	4.5	40.0
Fluorene-d10	1.056	1.109	0.010	5.0	25.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.126	0.010	-3.8	40.0
Anthracene-d10	1.012	1.040	0.010	2.8	25.0
Pyrene-d10	0.909	0.942	0.010	3.6	25.0
Benzo(a)pyrene-d12	0.907	0.948	0.010	4.5	25.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\02JUN15\GBC21S20.D Vial: 1
Acq On : 06/03/2015 00:14 Operator: DJC
Sample : SSTD020C2 28237 DFTPPC2 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 03 00:40:29 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 03 10:09:21 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\02JUN15\GBC21S20.D Vial: 1
Acq On : 06/03/2015 00:14 Operator: DJC
Sample : SSTD020C2 28237 DFTPPC2 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 03 00:40:29 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 03 10:09:21 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) 1,4-Dichlorobenzene-d4	4.96	152	305210	20.00 ug/ml	
16) Naphthalene-d8	6.37	136	1123320	20.00 ug/ml	
33) Acenaphthene-d10	9.02	164	659663	20.00 ug/ml	
59) Phenanthrene-d10	11.65	188	1116275	20.00 ug/ml	
73) Chrysene-d12	15.83	240	1079085	20.00 ug/ml	
81) Perylene-d12	18.25	264	1054672	20.00 ug/ml	
System Monitoring Compounds					
2) Phenol-d5	4.58	99	422474	19.850ug/ml	
6) bis-(2-chloroethyl)ether-d	4.65	67	254017	19.492ug/mL	
7) 2-Chlorophenol-d4	4.74	132	424929	20.335ug/ml	
13) 4-Methylphenol-d8	5.29	113	328710	19.837ug/mL	
17) Nitrobenzene-d5	5.51	128	189462	20.103ug/ml	
21) 2-Nitrophenol-d4	5.87	143	216170	20.581ug/mL	
25) 2,4-Dichlorophenol-d3	6.16	165	325306	21.142ug/mL	
28) 4-Chloroaniline-d4	6.44	131	373664	22.388ug/mL	
42) Dimethylphthalate-d6	8.53	166	838543	20.902ug/mL	
45) Acenaphthylene-d8	8.76	160	1097597	20.500ug/mL	
50) 4-Nitrophenol-d4	9.22	143	178608	20.907ug/mL	
57) Fluorene-d10	9.92	176	731569	20.995ug/mL	
61) 4,6-Dinitro-2-methylphenol	10.05	200	141081	19.241ug/mL	
69) Anthracene-d10	11.75	188	1161103	20.563ug/mL	
75) Pyrene-d10	14.15	212	1016803	20.727ug/mL	
86) Benzo(a)pyrene-d12	18.08	264	1000272	20.909ug/mL	
Target Compounds					Qvalue
3) Benzaldehyde	4.56	77	224922	17.611ug/ml	95
4) Phenol	4.59	94	427803	19.869ug/ml	97
5) Bis(2-chloroethyl)ether	4.69	93	340474	18.962ug/ml	90
8) 2-Chlorophenol	4.76	128	409163	20.608ug/ml	93
9) 2-Methylphenol	5.16	108	326968	19.620ug/ml	100
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	351860	17.346ug/ml	100
11) Acetophenone	5.35	105	484908	20.288ug/ml	96
12) 4-methylphenol	5.31	108	353643	20.228ug/ml	97
14) N-Nitroso-di-n-propylamine	5.33	70	204655	19.516ug/ml	94
15) Hexachloroethane	5.47	117	181982	20.058ug/ml	95
18) Nitrobenzene	5.53	77	350951	20.226ug/ml	95
19) Isophorone	5.79	82	620487	20.639ug/ml	97
20) 2-Nitrophenol	5.89	139	227005	20.470ug/ml	99
22) 2,4-Dimethylphenol	5.91	107	366609	21.249ug/ml	94
23) Bis(2-chloroethoxy)methane	6.03	93	397460	19.975ug/ml	99
24) 2,4-Dichlorophenol	6.17	162	332410	21.730ug/ml	98
26) Naphthalene	6.40	128	1166345	20.571ug/ml	100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00745

Quantitation Report

Data File : C:\msdchem\1\data\20...15\02JUN15\GBC21S20.D Vial: 1
Acq On : 06/03/2015 00:14 Operator: DJC
Sample : SSTD020C2 28237 DFTPPC2 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 03 00:40:29 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 03 10:09:21 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.46	127	416227	22.207ug/ml	96
29)	Hexachlorobutadiene	6.55	225	209890	21.592ug/ml	99
30)	Caprolactam	6.90	113	115494	21.046ug/ml	71
31)	4-Chloro-3-methylphenol	7.10	107	327614	21.891ug/ml	95
32)	2-Methylnaphthalene	7.36	142	733437	20.261ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.60	216	336407	20.614ug/mL	99
35)	Hexachlorocyclopentadiene	7.59	237	197453	17.002ug/ml	99
36)	2,4,6-Trichlorophenol	7.77	196	240610	20.760ug/ml	98
37)	2,4,5-Trichlorophenol	7.83	196	255672	20.537ug/ml	99
38)	1,1'-Biphenyl	8.07	154	915813	19.929ug/ml	96
39)	2-Chloronaphthalene	8.10	162	728014	20.425ug/ml	98
40)	2-Nitroaniline	8.26	65	178946	19.124ug/ml	83
41)	Dimethylphthalate	8.57	163	849980	20.661ug/ml	99
43)	2,6-Dinitrotoluene	8.67	165	201633	21.257ug/ml	88
44)	Acenaphthylene	8.78	152	1235425	20.490ug/ml	99
46)	3-Nitroaniline	8.94	138	156468	23.027ug/ml	95
47)	Acenaphthene	9.07	153	760937	20.491ug/ml	94
48)	2,4-Dinitrophenol	9.12	184	102744	17.662ug/ml	100
49)	4-Nitrophenol	9.23	109	105092	20.789ug/ml	90
51)	Dibenzofuran	9.37	168	978883	20.079ug/ml	98
52)	2,4-Dinitrotoluene	9.35	165	276495	21.585ug/ml	98
53)	2,3,4,6-Tetrachlorophenol	9.58	232	206754	22.062ug/mL	98
54)	Diethylphthalate	9.80	149	893538	21.004ug/ml	98
55)	4-Chlorophenyl-phenylether	9.99	204	402651	20.978ug/ml	98
56)	Fluorene	9.97	166	856983	21.190ug/ml	98
58)	4-Nitroaniline	10.00	138	184686	23.511ug/ml	73
60)	4,6-Dinitro-2-methylphenol	10.06	198	158854	19.142ug/ml	92
62)	N-Nitrosodiphenylamine	10.19	169	602204	20.628ug/ml	99
63)	4-Bromophenyl-phenyl ether	10.86	248	231065	20.358ug/ml	99
64)	Hexachlorobenzene	10.95	284	263537	21.114ug/ml	87
65)	Atrazine	11.19	200	234439	21.960ug/ml	98
66)	Pentachlorophenol	11.30	266	167924	21.280ug/ml	99
67)	Phenanthrene	11.69	178	1241104	20.330ug/ml	100
68)	Anthracene	11.79	178	1294455	20.779ug/ml	100
70)	Carbazole	12.09	167	1025184	27.208ug/mL	99
71)	Di-n-butylphthalate	12.82	149	1599920	20.773ug/ml	99
72)	Fluoranthene	13.83	202	1312517	20.850ug/ml	95
74)	Pyrene	14.18	202	1375127	20.579ug/ml	95
76)	Butylbenzylphthalate	15.14	149	733660	20.733ug/ml	90
77)	3,3'-Dichlorobenzidine	15.79	252	382109	21.926ug/ml	99
78)	Benzo(a)anthracene	15.82	228	1256208	20.485ug/ml	100
79)	Chrysene	15.86	228	1157140	20.786ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1089512	20.920ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00746

Quantitation Report

Data File : C:\msdchem\1\data\20...15\02JUN15\GBC21S20.D Vial: 1
Acq On : 06/03/2015 00:14 Operator: DJC
Sample : SSTD020C2 28237 DFTPPC2 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 03 00:40:29 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 03 10:09:21 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.83	149	1892217	21.258ug/ml	100
83) Benzo(b)fluoranthene	17.49	252	1316901	21.481ug/ml	97
84) Benzo(k)fluoranthene	17.54	252	1200680	20.197ug/ml	98
85) Benzo(a)pyrene	18.14	252	1215069	20.547ug/ml	97
87) Indeno(1,2,3-c,d)pyrene	20.99	276	1164681	20.091ug/ml	91
88) Dibenzo(a,h)anthracene	21.08	278	1207627	20.305ug/ml	95
89) Benzo(g,h,i)perylene	21.84	276	1143289	19.474ug/ml	95

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 06/03/2015 Time: 04:00

Lab File ID: GBC28S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C3 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	0.837	0.723	0.010	-13.6	50.0
Phenol	1.411	1.421	0.010	0.7	50.0
Bis(2-chloroethyl)ether	1.177	1.096	0.010	-6.9	50.0
2-Chlorophenol	1.301	1.347	0.010	3.6	50.0
2-Methylphenol	1.092	1.056	0.010	-3.3	50.0
2,2'-Oxybis(1-chloropropane)	1.329	1.163	0.010	-12.5	50.0
Acetophenone	1.566	1.590	0.010	1.5	50.0
4-Methylphenol	1.146	1.162	0.010	1.4	50.0
N-Nitroso-di-n-propylamine	0.687	0.672	0.010	-2.2	50.0
Hexachloroethane	0.595	0.593	0.010	-0.2	50.0
Nitrobenzene	0.309	0.308	0.010	-0.5	50.0
Isophorone	0.535	0.549	0.010	2.6	50.0
2-Nitrophenol	0.197	0.199	0.010	1.0	50.0
2,4-Dimethylphenol	0.307	0.316	0.010	2.8	50.0
Bis(2-chloroethoxy)methane	0.354	0.351	0.010	-1.0	50.0
2,4-Dichlorophenol	0.272	0.288	0.010	5.9	50.0
Naphthalene	1.009	1.024	0.010	1.4	50.0
4-Chloroaniline	0.334	0.382	0.010	14.4	50.0
Hexachlorobutadiene	0.173	0.185	0.010	6.9	50.0
Caprolactam	0.098	0.104	0.010	6.1	50.0
4-Chloro-3-methylphenol	0.266	0.286	0.010	7.2	50.0
2-Methylnaphthalene	0.645	0.644	0.010	-0.1	50.0
Hexachlorocyclopentadiene	0.352	0.288	0.010	-18.3	50.0
2,4,6-Trichlorophenol	0.351	0.369	0.010	4.9	50.0
2,4,5-Trichlorophenol	0.377	0.391	0.010	3.5	50.0
1,1'-Biphenyl	1.393	1.409	0.010	1.1	50.0
2-Chloronaphthalene	1.081	1.116	0.010	3.3	50.0
2-Nitroaniline	0.284	0.279	0.010	-1.6	50.0
Dimethylphthalate	1.247	1.292	0.010	3.6	50.0
2,6-Dinitrotoluene	0.288	0.308	0.010	7.1	50.0
Acenaphthylene	1.828	1.880	0.010	2.8	50.0
3-Nitroaniline	0.206	0.284	0.010	37.9	50.0
Acenaphthene	1.126	1.166	0.010	3.6	50.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 06/03/2015 Time: 04:00

Lab File ID: GBC28S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C3 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.176	0.154	0.010	-12.4	50.0
4-Nitrophenol	0.153	0.165	0.010	7.6	50.0
Dibenzofuran	1.478	1.493	0.010	1.0	50.0
2,4-Dinitrotoluene	0.388	0.422	0.010	8.6	50.0
Diethylphthalate	1.290	1.374	0.010	6.5	50.0
Fluorene	1.226	1.305	0.010	6.4	50.0
4-Chlorophenyl-phenylether	0.582	0.610	0.010	4.8	50.0
4-Nitroaniline	0.238	0.309	0.010	29.8	50.0
4,6-Dinitro-2-methylphenol	0.149	0.136	0.010	-8.5	50.0
N-Nitrosodiphenylamine (1)	0.523	0.547	0.010	4.5	50.0
1,2,4,5-Tetrachlorobenzene	0.495	0.513	0.010	3.6	50.0
4-Bromophenyl-phenylether	0.203	0.209	0.010	2.7	50.0
Hexachlorobenzene	0.224	0.234	0.010	4.7	50.0
Atrazine	0.191	0.211	0.010	10.5	50.0
Pentachlorophenol	0.141	0.155	0.010	10.0	50.0
Phenanthrene	1.094	1.120	0.010	2.4	50.0
Anthracene	1.116	1.166	0.010	4.5	50.0
Carbazole	0.675	0.979	0.010	45.0	50.0
Di-n-butylphthalate	1.380	1.455	0.010	5.5	50.0
Fluoranthene	1.128	1.208	0.010	7.1	50.0
Pyrene	1.238	1.247	0.010	0.7	50.0
Butylbenzylphthalate	0.656	0.673	0.010	2.6	50.0
3,3'-Dichlorobenzidine	0.323	0.399	0.010	23.5	50.0
Benzo(a)anthracene	1.137	1.159	0.010	1.9	50.0
Chrysene	1.032	1.039	0.010	0.7	50.0
Bis(2-ethylhexyl)phthalate	0.965	0.990	0.010	2.5	50.0
Di-n-octylphthalate	1.688	1.779	0.010	5.4	50.0
Benzo(b)fluoranthene	1.163	1.212	0.010	4.2	50.0
Benzo(k)fluoranthene	1.127	1.139	0.010	1.1	50.0
Benzo(a)pyrene	1.121	1.141	0.010	1.7	50.0
Indeno(1,2,3-cd)pyrene	1.099	1.085	0.010	-1.3	50.0
Dibenzo(a,h)anthracene	1.128	1.127	0.010	-0.1	50.0
Benzo(g,h,i)perylene	1.113	1.060	0.010	-4.8	50.0
2,3,4,6-Tetrachlorophenol	0.284	0.315	0.010	10.9	50.0

(1) Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-G Calibration Date: 06/03/2015 Time: 04:00

Lab File ID: GBC28S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020C3 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

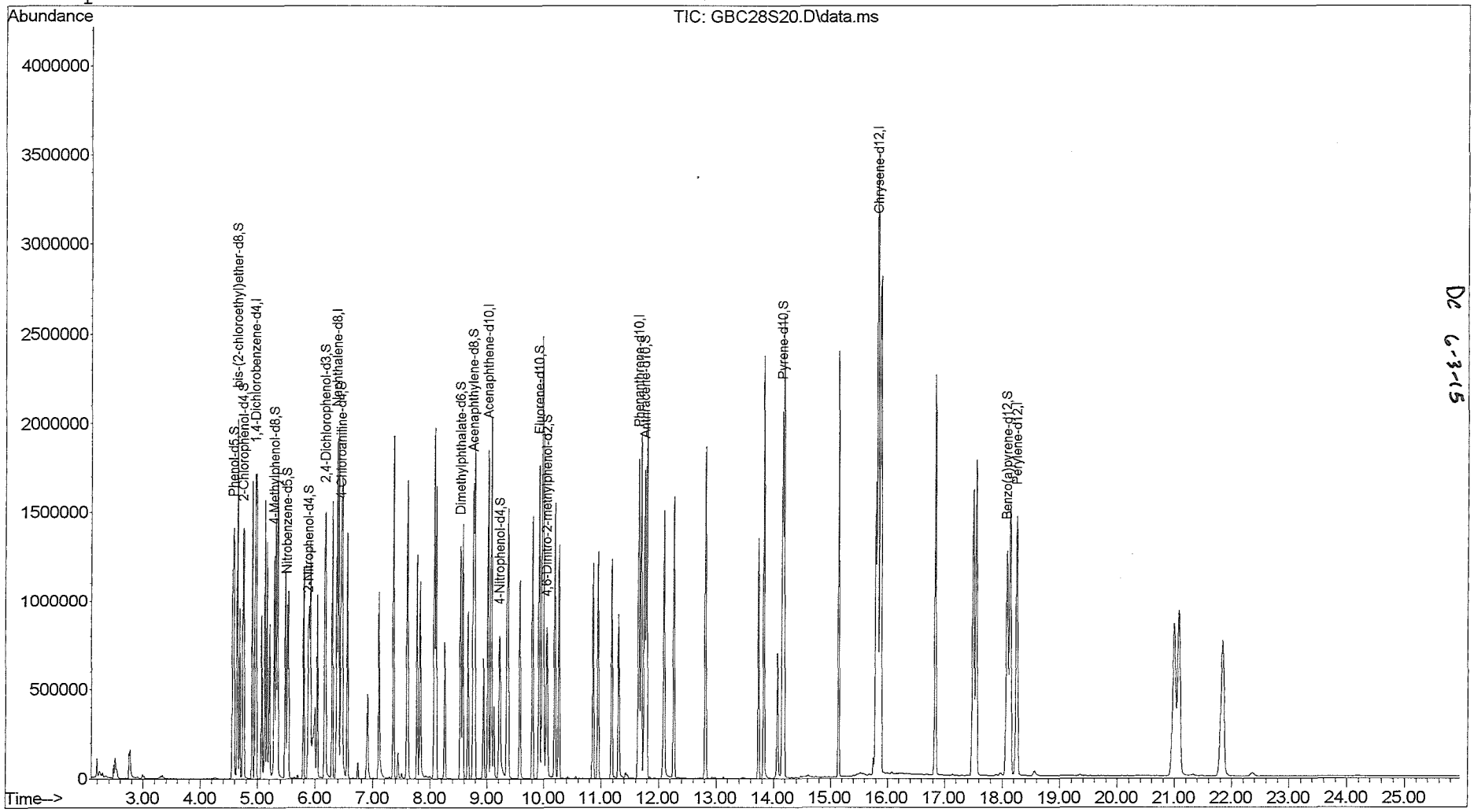
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.395	1.386	0.010	-0.6	50.0
Bis(2-chloroethyl)ether-d8	0.854	0.819	0.010	-4.2	50.0
2-Chlorophenol-d4	1.369	1.378	0.010	0.7	50.0
4-Methylphenol-d8	1.086	1.098	0.010	1.1	50.0
Nitrobenzene-d5	0.168	0.169	0.010	0.7	50.0
2-Nitrophenol-d4	0.187	0.191	0.010	2.2	50.0
2,4-Dichlorophenol-d3	0.274	0.288	0.010	5.0	50.0
4-Chloroaniline-d4	0.297	0.353	0.010	18.9	50.0
Dimethylphthalate-d6	1.216	1.295	0.010	6.4	50.0
Acenaphthylene-d8	1.623	1.668	0.010	2.8	50.0
4-Nitrophenol-d4	0.259	0.275	0.010	6.2	50.0
Fluorene-d10	1.056	1.126	0.010	6.5	50.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.123	0.010	-6.5	50.0
Anthracene-d10	1.012	1.051	0.010	3.8	50.0
Pyrene-d10	0.909	0.922	0.010	1.4	50.0
Benzo(a)pyrene-d12	0.907	0.938	0.010	3.4	50.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\02JUN15\GBC28S20.D Vial: 24
Acq On : 06/03/2015 04:00 Operator: DJC
Sample : SSTD020C3 28237 DFTPPC3 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 03 04:26:45 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 03 10:24:36 2015
Response via : Initial Calibration



DC 6-3-15

Quantitation Report

Data File : C:\msdchem\1\data\20...15\02JUN15\GBC28S20.D Vial: 24
Acq On : 06/03/2015 04:00 Operator: DJC
Sample : SSTD020C3 28237 DFTPPC3 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 03 04:26:45 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 03 10:24:36 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	301784	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1135015	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	652692	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1115256	20.00 ug/ml
73) Chrysene-d12	15.83	240	1111544	20.00 ug/ml
81) Perylene-d12	18.25	264	1084888	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	418159	19.870ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	247011	19.169ug/mL
7) 2-Chlorophenol-d4	4.74	132	415935	20.130ug/ml
13) 4-Methylphenol-d8	5.29	113	331325	20.222ug/mL
17) Nitrobenzene-d5	5.51	128	191851	20.146ug/ml
21) 2-Nitrophenol-d4	5.87	143	216837	20.432ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	326472	20.999ug/mL
28) 4-Chloroaniline-d4	6.44	131	401083	23.783ug/mL
42) Dimethylphthalate-d6	8.53	166	845069	21.290ug/mL
45) Acenaphthylene-d8	8.76	160	1088728	20.552ug/mL
50) 4-Nitrophenol-d4	9.22	143	179529	21.239ug/mL
57) Fluorene-d10	9.92	176	734694	21.309ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	137055	18.709ug/mL
69) Anthracene-d10	11.76	188	1171610	20.768ug/mL
75) Pyrene-d10	14.16	212	1025113	20.286ug/mL
86) Benzo(a)pyrene-d12	18.08	264	1018127	20.689ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.56	77	218274	17.285ug/ml 96
4) Phenol	4.59	94	428851	20.144ug/ml 97
5) Bis(2-chloroethyl)ether	4.69	93	330640	18.623ug/ml 91
8) 2-Chlorophenol	4.76	128	406619	20.712ug/ml 92
9) 2-Methylphenol	5.16	108	318716	19.342ug/ml 100
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	350982	17.500ug/ml 100
11) Acetophenone	5.35	105	479871	20.305ug/ml 97
12) 4-methylphenol	5.31	108	350587	20.281ug/ml 96
14) N-Nitroso-di-n-propylamine	5.33	70	202796	19.559ug/ml 95
15) Hexachloroethane	5.47	117	179013	19.954ug/ml 95
18) Nitrobenzene	5.53	77	349048	19.909ug/ml 95
19) Isophorone	5.80	82	623458	20.525ug/ml 97
20) 2-Nitrophenol	5.89	139	226251	20.192ug/ml 99
22) 2,4-Dimethylphenol	5.91	107	358384	20.558ug/ml 92
23) Bis(2-chloroethoxy)methane	6.03	93	398244	19.808ug/ml 99
24) 2,4-Dichlorophenol	6.17	162	327381	21.180ug/ml 98
26) Naphthalene	6.40	128	1162356	20.289ug/ml 100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

60732

Quantitation Report

Data File : C:\msdchem\1\data\20...15\02JUN15\GBC28S20.D Vial: 24
Acq On : 06/03/2015 04:00 Operator: DJC
Sample : SSTD020C3 28237 DFTPPC3 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 03 04:26:45 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 03 10:24:36 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.45	127	433261	22.877ug/ml	95
29)	Hexachlorobutadiene	6.55	225	210038	21.385ug/ml	98
30)	Caprolactam	6.90	113	117643	21.217ug/ml	69
31)	4-Chloro-3-methylphenol	7.10	107	324255	21.443ug/ml	95
32)	2-Methylnaphthalene	7.36	142	730709	19.978ug/ml	96
34)	1,2,4,5-Tetrachlorobenzene	7.60	216	334670	20.727ug/mL	99
35)	Hexachlorocyclopentadiene	7.59	237	187771	16.341ug/ml	99
36)	2,4,6-Trichlorophenol	7.77	196	240631	20.984ug/ml	100
37)	2,4,5-Trichlorophenol	7.83	196	255090	20.709ug/ml	99
38)	1,1'-Biphenyl	8.07	154	919462	20.222ug/ml	96
39)	2-Chloronaphthalene	8.10	162	728554	20.658ug/ml	98
40)	2-Nitroaniline	8.26	65	182187	19.679ug/ml	85
41)	Dimethylphthalate	8.57	163	843579	20.724ug/ml	99
43)	2,6-Dinitrotoluene	8.67	165	201023	21.419ug/ml	88
44)	Acenaphthylene	8.78	152	1226978	20.567ug/ml	99
46)	3-Nitroaniline	8.94	138	185427	27.580ug/ml	92
47)	Acenaphthene	9.07	153	761103	20.714ug/ml	93
48)	2,4-Dinitrophenol	9.12	184	100784	17.510ug/ml	100
49)	4-Nitrophenol	9.23	109	107612	21.515ug/ml	90
51)	Dibenzofuran	9.37	168	974451	20.202ug/ml	98
52)	2,4-Dinitrotoluene	9.35	165	275374	21.727ug/ml	97
53)	2,3,4,6-Tetrachlorophenol	9.58	232	205576	22.170ug/mL	98
54)	Diethylphthalate	9.80	149	896739	21.305ug/ml	98
55)	4-Chlorophenyl-phenylether	9.99	204	397898	20.952ug/ml	97
56)	Fluorene	9.97	166	851673	21.283ug/ml	98
58)	4-Nitroaniline	10.00	138	201785	25.962ug/ml	77
60)	4,6-Dinitro-2-methylphenol	10.06	198	151798	18.309ug/ml	93
62)	N-Nitrosodiphenylamine	10.19	169	609686	20.903ug/ml	99
63)	4-Bromophenyl-phenyl ether	10.86	248	232918	20.540ug/ml	100
64)	Hexachlorobenzene	10.95	284	261229	20.949ug/ml	88
65)	Atrazine	11.19	200	235813	22.109ug/ml	96
66)	Pentachlorophenol	11.30	266	173375	21.991ug/ml	99
67)	Phenanthrene	11.69	178	1248954	20.478ug/ml	100
68)	Anthracene	11.79	178	1300649	20.897ug/ml	100
70)	Carbazole	12.09	167	1091392	28.992ug/mL	99
71)	Di-n-butylphthalate	12.82	149	1623247	21.095ug/ml	99
72)	Fluoranthene	13.83	202	1347021	21.418ug/ml	95
74)	Pyrene	14.18	202	1385903	20.135ug/ml	95
76)	Butylbenzylphthalate	15.14	149	748149	20.526ug/ml	89
77)	3,3'-Dichlorobenzidine	15.79	252	443341	24.697ug/ml	98
78)	Benzo(a)anthracene	15.82	228	1287832	20.388ug/ml	100
79)	Chrysene	15.86	228	1154771	20.138ug/ml	100
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1100258	20.510ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00733

Quantitation Report

Data File : C:\msdchem\1\data\20...15\02JUN15\GBC28S20.D Vial: 24
Acq On : 06/03/2015 04:00 Operator: DJC
Sample : SSTD020C3 28237 DFTPPC3 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 03 04:26:45 2015 Results File: GSOM01D4.RES

Method : C:\msdchem\1\methods\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jun 03 10:24:36 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.84	149	1930402	21.083ug/ml	99
83) Benzo(b)fluoranthene	17.50	252	1314801	20.849ug/ml	98
84) Benzo(k)fluoranthene	17.55	252	1236075	20.214ug/ml	97
85) Benzo(a)pyrene	18.14	252	1237836	20.349ug/ml	97
87) Indeno(1,2,3-c,d)pyrene	21.00	276	1177585	19.748ug/ml	90
88) Dibenzo(a,h)anthracene	21.08	278	1222620	19.985ug/ml	96
89) Benzo(g,h,i)perylene	21.84	276	1150133	19.045ug/ml	94

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

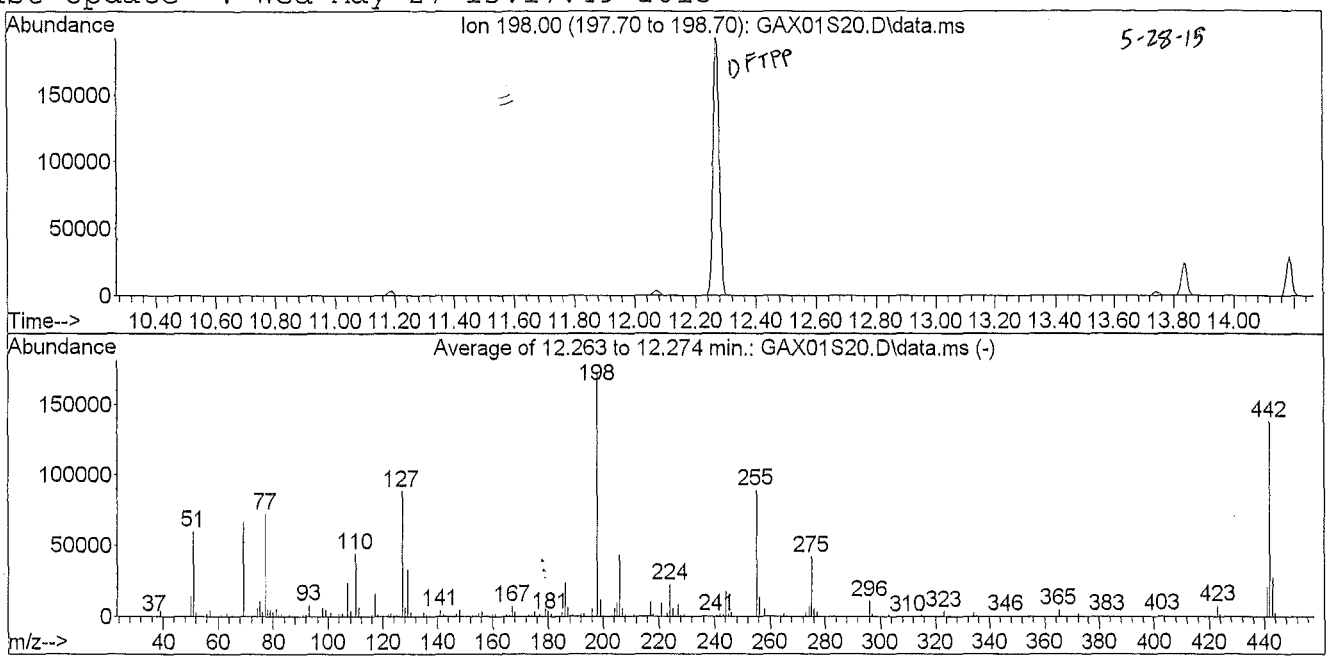
00734

Data Path : C:\msdchem\1\data\2015\MAY15\27MAY15PM\
Data File : GAX01S20.D
Acq On : 05/27/2015 15:49
Operator : DJC
Sample : SSTD020GX 28165 DFTPPGX
Inst : 5975-G
Misc : . X06/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M
Title : EPA/CLP SOM01
Last Update : Wed May 27 15:17:49 2015

Original with SDG: F9K48
Case: 45316



Average of Scans 1730, 1731, 1732; Background corrected with scan 1723

Spectrum Information: Average of 12.263 to 12.274 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.5	59670	PASS
68	69	0.00	2	2.0	1300	PASS
69	198	0.00	100	38.4	66443	PASS
70	69	0.00	2	0.4	297	PASS
127	198	10	80	51.1	88531	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	173163	PASS
199	198	5	9	6.6	11486	PASS
275	198	10	60	24.4	42221	PASS
365	198	1	100	2.8	4828	PASS
441	443	0.01	100	76.6	20965	PASS
442	198	50	100	79.9	138347	PASS
443	442	15	24	19.8	27379	PASS

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.95	198	57.00	4406	70.20	177	80.00	3555
38.05	670	58.00	200	70.80	121	81.00	5186
39.10	4170	61.00	925	70.95	60	82.05	1245
40.05	276	62.00	726	73.00	328	83.05	1417
41.05	139	63.05	2446	73.20	140	85.00	1133
49.15	324	64.00	419	74.05	6405	85.95	1193
50.10	14413	65.05	1286	75.00	10406	86.95	793
51.05	59670	67.00	116	76.10	3574	88.00	388
52.10	2918	68.05	1300	77.05	72527	89.00	304
55.00	311	69.00	66443	78.10	4941	91.00	1215
56.00	2015	69.95	297	79.00	4684	92.00	1300

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	7925	101.00	2936	112.05	867	125.00	1051
93.90	405	101.90	222	113.00	177	127.00	88531
94.10	185	102.95	1094	114.00	125	128.05	6708
95.00	59	103.95	1897	116.05	1428	129.00	33195
96.05	482	105.00	1868	117.00	16298	130.00	2887
97.00	78	106.05	680	118.00	1266	131.05	622
97.20	82	107.00	23941	119.00	96	132.05	278
98.00	6063	108.00	3882	120.10	335	132.40	81
99.00	4705	109.10	512	122.00	1654	132.85	125
99.95	421	110.00	44104	123.00	2377	134.00	905
100.20	101	111.00	6705	124.00	1054	135.00	2967

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
135.95	1065	146.10	458	156.90	219	166.10	1203
137.10	1185	146.95	2018	157.10	517	167.10	6907
138.00	262	148.00	4469	157.95	830	168.00	3157
139.05	35	149.00	886	159.00	603	169.05	727
140.00	521	150.10	246	160.05	1263	170.10	322
141.00	4480	151.00	569	161.05	1921	170.95	386
142.00	1396	151.85	464	161.80	115	172.00	827
143.00	991	153.00	1246	162.05	405	173.00	996
143.90	236	154.05	1133	162.95	134	174.05	1745
145.00	254	155.05	2351	164.00	215	175.05	3314
145.90	163	156.10	3481	165.00	1589	176.05	1097

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.00	1601	187.10	6468	198.00	173163	210.00	138
178.05	586	188.10	652	199.00	11486	210.20	301
179.00	6146	189.00	1324	200.05	991	211.00	1681
180.00	4225	190.00	261	201.45	791	212.05	138
181.05	1970	191.05	694	203.05	1040	215.05	543
182.05	328	192.00	2061	204.10	5945	216.05	892
182.60	61	193.05	1918	205.10	10186	217.00	10239
182.90	181	194.05	498	206.10	43251	218.05	1368
184.05	534	194.90	233	207.10	5497	218.90	65
185.05	3153	195.20	256	208.00	1424	221.10	9296
186.10	23701	196.05	5396	209.05	494	223.05	2553

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
224.10	22435	235.05	588	246.05	3137	258.05	4991
225.10	5550	236.05	420	247.05	726	258.95	742
226.10	685	237.00	781	247.90	66	260.10	79
227.10	8673	238.00	56	249.05	626	260.90	76
228.05	1295	239.05	302	250.10	67	264.00	149
229.00	1771	240.00	272	251.05	142	265.05	1946
230.05	287	241.00	498	252.00	250	266.05	270
231.05	801	242.05	1312	253.00	456	271.05	205
232.05	201	243.10	1396	255.10	89128	272.05	263
233.00	162	244.10	17245	256.10	13583	273.10	2748
234.00	633	245.10	2288	257.10	1078	274.10	7576

Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
275.10	42221	291.95	109	309.00	54	328.05	364
276.05	5434	293.00	807	309.95	151	332.00	61
277.05	3445	294.00	112	314.00	463	332.25	273
278.10	526	294.20	79	315.05	1272	333.10	342
283.00	255	296.10	10831	316.05	687	334.10	2288
283.20	155	297.05	1452	317.00	61	335.05	610
283.90	79	301.10	159	321.05	418	341.05	412
284.10	171	302.00	171	322.15	214	342.00	71
285.05	626	303.10	1387	323.10	3577	345.90	162
286.00	53	304.05	347	324.10	682	346.10	607
289.10	63	308.00	68	327.00	709	346.90	66

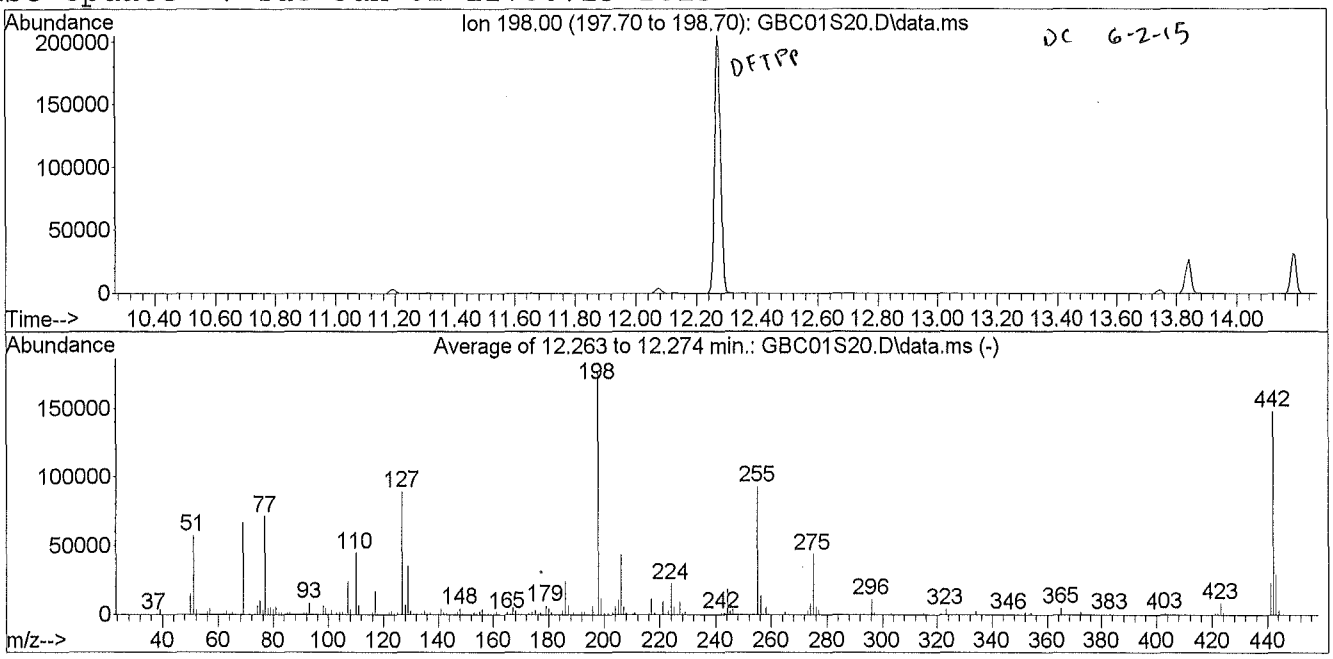
Average of 12.263 to 12.274 min.: GAX01S20.D\data.ms
SSTD020GX 28165 DFTPPGX
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
352.10	905	391.00	160	435.60	65		
353.05	737	392.10	57	436.50	117		
354.10	1171	401.00	58	437.20	97		
355.05	280	402.05	729	437.65	154		
365.05	4828	403.05	1106	438.40	153		
366.05	628	404.10	388	439.70	145		
371.05	343	421.05	1065	441.10	20965		
372.10	2005	422.10	989	442.10	138347		
373.10	496	423.10	7558	443.10	27379		
383.05	511	424.10	1523	444.10	2502		
390.10	292	425.10	146	445.05	127		

Data Path : C:\msdchem\1\data\2015\JUN15\02JUN15\
Data File : GBC01S20.D
Acq On : 06/02/2015 11:34
Operator : DJC
Sample : SSTD020GC 28237 DFTPPGC
Inst : 5975-G
Misc : . X06/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\GSOM01D4.M
Title : EPA/CLP SOM01
Last Update : Tue Jun 02 12:06:13 2015



Average of Scans 1730, 1731, 1732; Background corrected with Scan 1719
Spectrum Information: Average of 12.263 to 12.274 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	32.2	57036	PASS
68	69	0.00	2	1.7	1124	PASS
69	198	0.00	100	37.6	66661	PASS
70	69	0.00	2	0.4	276	PASS
127	198	10	80	50.2	89008	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	177280	PASS
199	198	5	9	6.7	11851	PASS
275	198	10	60	24.6	43675	PASS
365	198	1	100	2.8	4908	PASS
441	443	0.01	100	79.2	23001	PASS
442	198	50	100	83.3	147587	PASS
443	442	15	24	19.7	29045	PASS

Average of 12.263 to 12.274 min.: GBC01S20.D\data.ms
SSTD020GC 28237 DFTPPGC
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	151	53.00	85	68.15	1124	80.05	3664
38.05	728	54.95	233	69.00	66661	81.00	5145
39.05	3833	56.00	1829	69.95	276	82.05	1312
40.05	289	57.00	4367	71.00	562	83.05	1328
41.00	62	58.00	224	73.00	534	85.00	1033
43.95	17	61.00	795	74.05	6709	86.00	1582
44.90	51	62.00	756	75.00	10021	87.05	570
49.05	382	63.00	2366	76.10	3382	87.95	230
50.10	14879	64.05	423	77.05	71072	89.00	120
51.05	57036	65.05	1431	78.10	4726	91.00	1331
52.05	3168	66.90	112	79.00	4742	91.95	1360

Average of 12.263 to 12.274 min.: GBC01S20.D\data.ms
SSTD020GC 28237 DFTPPGC
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	7959	103.00	1031	113.05	1	125.00	940
94.00	645	104.05	1792	115.20	149	127.00	89008
95.05	253	105.05	1900	116.05	1317	128.00	6871
96.05	411	106.05	678	117.00	16664	129.00	34781
96.90	93	107.00	23765	118.00	1118	130.00	3007
97.10	140	108.00	3756	118.95	171	131.00	589
98.00	5899	108.90	179	119.90	289	132.00	422
99.00	4710	109.15	613	120.90	63	133.10	64
99.95	517	110.00	44579	122.00	1628	133.95	1025
101.00	2988	111.00	6517	123.00	2470	135.05	2628
101.95	223	112.00	845	123.95	1090	135.95	1216

Average of 12.263 to 12.274 min.: GBC01S20.D\data.ms
SSTD020GC 28237 DFTPPGC
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.05	1183	148.95	1002	158.00	869	169.05	788
138.00	256	149.90	68	159.00	641	170.05	314
140.00	516	150.05	217	160.05	1329	171.05	279
141.00	4195	151.00	183	161.05	1976	172.00	717
142.00	1563	151.15	520	162.05	607	172.95	1006
142.95	1021	151.75	464	162.95	209	174.00	1971
144.05	247	153.00	1451	164.05	221	175.05	3292
144.95	258	154.00	979	165.00	1327	176.05	973
146.05	796	155.05	2361	166.10	578	177.00	1517
147.05	2146	156.05	3649	167.10	5186	177.95	569
148.00	4328	157.05	777	168.05	2893	179.00	6170

Average of 12.263 to 12.274 min.: GBC01S20.D\data.ms
SSTD020GC 28237 DFTPPGC
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
180.05	4291	189.85	200	200.05	886	211.00	1573
181.00	2093	190.90	206	201.55	925	211.90	170
182.05	352	191.05	434	202.00	151	213.00	56
182.80	81	192.00	1950	203.05	1275	214.95	406
184.00	541	193.05	2151	204.10	5862	216.05	858
185.05	2860	194.00	505	205.10	10316	217.00	11074
186.10	23805	194.90	238	206.10	43120	218.05	1284
187.10	6665	195.20	162	207.10	5691	220.00	60
187.90	174	196.05	6066	208.05	1464	221.10	9309
188.05	548	198.00	177280	209.00	415	221.90	613
189.00	1307	199.00	11851	210.15	506	223.05	2529

: 88753

Average of 12.263 to 12.274 min.: GBC01S20.D\data.ms
SSTD020GC 28237 DFTPPGC
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
224.10	22116	235.05	713	247.05	691	259.05	751
225.10	5869	236.00	473	248.05	146	260.00	109
226.10	738	236.95	733	249.05	578	260.95	125
227.05	8808	239.00	326	250.80	73	264.05	115
228.05	1385	240.05	266	251.10	82	265.05	1965
229.00	1921	241.05	580	252.10	158	266.05	413
230.05	313	242.05	1151	253.15	362	271.15	252
231.10	828	243.15	1431	255.10	92752	272.10	377
231.90	55	244.10	18218	256.10	13539	273.05	2972
233.00	125	245.10	2625	257.05	1022	274.10	7489
234.00	654	246.05	3546	258.05	4951	275.10	43675

Average of 12.263 to 12.274 min.: GBC01S20.D\data.ms
SSTD020GC 28237 DFTPPGC
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
276.10	5869	292.05	167	308.00	59	324.05	757
277.05	3378	293.05	874	309.00	186	326.95	590
278.10	564	294.00	220	310.05	128	328.05	392
278.90	55	295.10	130	313.10	51	332.00	292
283.05	382	296.10	10718	314.05	638	333.05	431
283.95	228	297.00	1512	315.00	1165	334.10	2630
285.05	568	298.05	150	316.05	729	335.05	638
286.00	51	301.10	178	317.05	129	341.05	386
289.05	104	302.00	233	321.10	406	341.90	68
290.00	60	303.05	1213	322.05	263	342.10	64
291.00	53	304.05	440	323.10	3821	346.05	672

Average of 12.263 to 12.274 min.: GBC01S20.D\data.ms
SSTD020GC 28237 DFTPPGC
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
347.00	51	373.05	540	422.05	991	439.10	266
352.05	1254	383.05	593	423.10	8205	439.60	288
353.10	858	384.00	125	424.05	1564	441.10	23001
354.10	1283	390.05	332	425.05	119	442.10	147587
355.05	196	390.95	126	436.30	68	443.10	29045
359.10	74	391.20	51	436.50	68	444.10	2715
365.05	4908	391.90	67	436.90	76	445.10	132
366.00	762	402.05	751	437.40	78		
370.00	66	403.05	1103	437.80	79		
371.10	295	404.05	396	438.30	57		
372.10	2134	421.05	1093	438.70	218		

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 448483

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC02BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	170	U
108-95-2	Phenol	170	U
111-44-4	Bis(2-chloroethyl)ether	170	U
95-57-8	2-Chlorophenol	170	U
95-48-7	2-Methylphenol	170	U
108-60-1	2,2'-Oxybis(1-chloropropane)	170	U
98-86-2	Acetophenone	170	U
106-44-5	4-Methylphenol	170	U
621-64-7	N-Nitroso-di-n-propylamine .	170	U
67-72-1	Hexachloroethane	170	U
98-95-3	Nitrobenzene	170	U
78-59-1	Isophorone	170	U
88-75-5	2-Nitrophenol	170	U
105-67-9	2,4-Dimethylphenol	170	U
111-91-1	Bis(2-chloroethoxy)methane	170	U
120-83-2	2,4-Dichlorophenol	170	U
91-20-3	Naphthalene	170	U
106-47-8	4-Chloroaniline	170	U
87-68-3	Hexachlorobutadiene	170	U
105-60-2	Caprolactam	170	U
59-50-7	4-Chloro-3-methylphenol	170	U
91-57-6	2-Methylnaphthalene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U
92-52-4	1,1'-Biphenyl	170	U
91-58-7	2-Chloronaphthalene	170	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	170	U
606-20-2	2,6-Dinitrotoluene	170	U
208-96-8	Acenaphthylene	170	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	170	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 448483

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC02BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	170	U
121-14-2	2,4-Dinitrotoluene	170	U
84-66-2	Diethylphthalate	170	U
86-73-7	Fluorene	170	U
7005-72-3	4-Chlorophenyl-phenylether	170	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine[1]	170	U
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U
101-55-3	4-Bromophenyl-phenylether	170	U
118-74-1	Hexachlorobenzene	170	U
1912-24-9	Atrazine	170	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	170	U
120-12-7	Anthracene	170	U
86-74-8	Carbazole	170	U
84-74-2	Di-n-butylphthalate	170	U
206-44-0	Fluoranthene	170	U
129-00-0	Pyrene	170	U
85-68-7	Butylbenzylphthalate	170	U
91-94-1	3,3'-Dichlorobenzidine	170	U
56-55-3	Benzo(a)anthracene	170	U
218-01-9	Chrysene	170	U
117-81-7	Bis(2-ethylhexyl)phthalate	170	U
117-84-0	Di-n-octylphthalate	170	U
205-99-2	Benzo(b)fluoranthene	170	U
207-08-9	Benzo(k)fluoranthene	170	U
50-32-8	Benzo(a)pyrene	170	U
193-39-5	Indeno(1,2,3-cd)pyrene	170	U
53-70-3	Dibenzo(a,h)anthracene	170	U
191-24-2	Benzo(g,h,i)perylene	170	U
58-90-2	2,3,4,6-Tetrachlorophenol	170	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 448483

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBC02BLK

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/02/2015

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Propane, 2,2-dimethoxy-	2.12	86.	J
02		Unknown Guanidine	3.57	2000	J
03		Unknown 3-Hexene-2,5-dione	4.35	78.	J
04		Unknown Pentanoic acid, 2,2,4-trimethyl-3-carbox	9.79	110	J
05	629-54-9	Hexadecanamide	14.26	160	JN
06	301-02-0	9-Octadecenamide, (Z)-	15.17	1200	JN
07		Unknown 9-Octadecenamide, (Z)-	15.97	76.	J
08		Unknown 1,5-Hexadiene, 2,5-dipropyl-	16.32	130	J
09		Unknown Phthalic anhydride	18.82	86.	J
10		Unknown [2.2]Paracyclophane	23.68	100	J
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

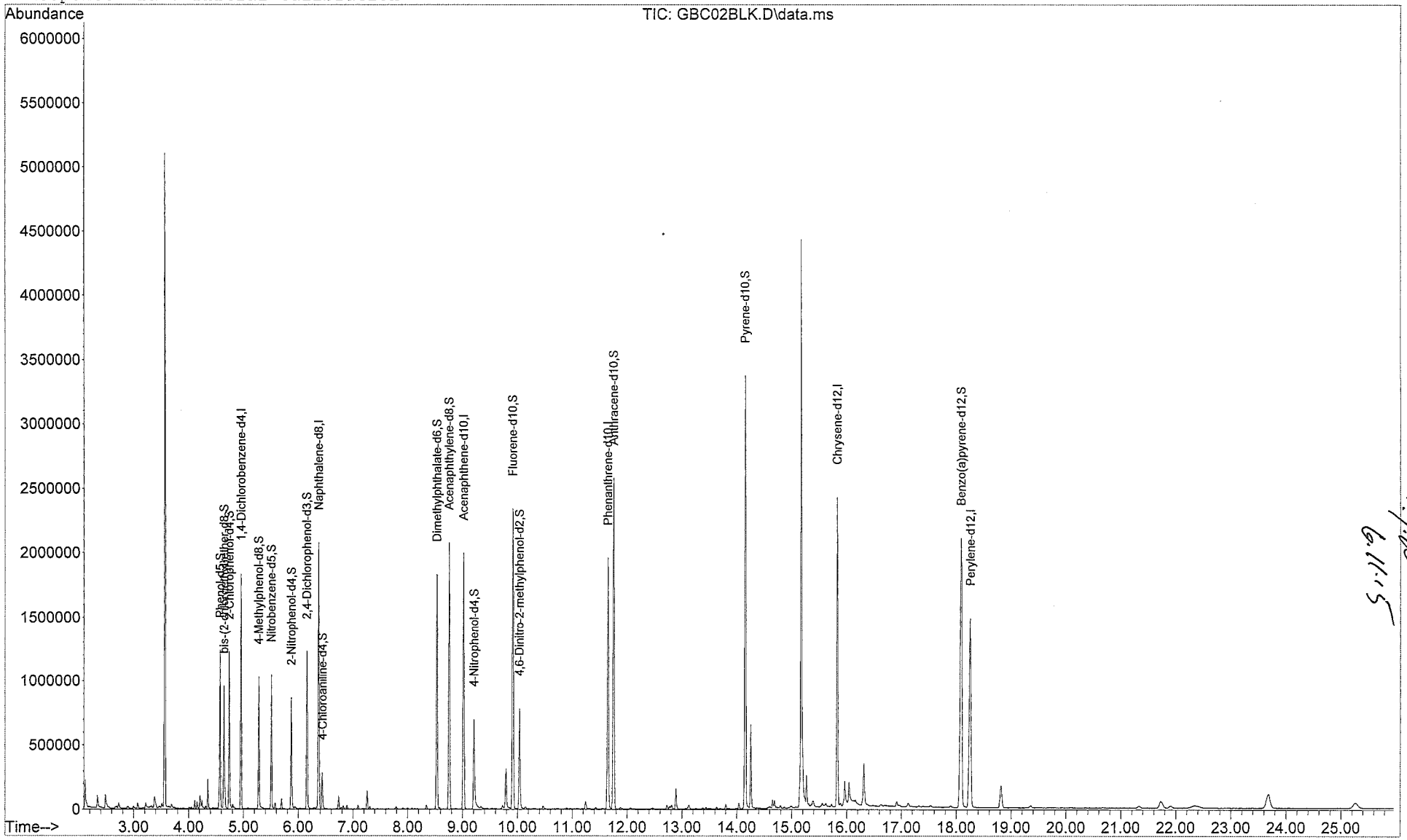
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 14:35:50 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:35:50 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	325023	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1208964	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	697110	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1158053	20.00 ug/ml
73) Chrysene-d12	15.83	240	1119440	20.00 ug/ml
81) Perylene-d12	18.26	264	1104777	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	441544	19.481ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	212290	15.297ug/mL
7) 2-Chlorophenol-d4	4.75	132	416134	18.700ug/ml
13) 4-Methylphenol-d8	5.28	113	259049	14.680ug/mL
17) Nitrobenzene-d5	5.51	128	189628	18.695ug/ml
21) 2-Nitrophenol-d4	5.87	143	229947	20.342ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	346569	20.929ug/mL
28) 4-Chloroaniline-d4	6.44	131	130977	7.291ug/mL
42) Dimethylphthalate-d6	8.54	166	1204981	28.422ug/mL
45) Acenaphthylene-d8	8.76	160	1365919	24.142ug/mL
50) 4-Nitrophenol-d4	9.21	143	235641	26.101ug/mL
57) Fluorene-d10	9.92	176	996913	27.073ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	199303	26.201ug/mL
69) Anthracene-d10	11.76	188	1702299	29.059ug/mL
75) Pyrene-d10	14.16	212	1600401	31.447ug/mL
86) Benzo(a)pyrene-d12	18.09	264	1613815	32.204ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:35:50 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44) Acenaphthylene	0.00	152		Not Detected	
46) 3-Nitroaniline	0.00	138		Not Detected	
47) Acenaphthene	0.00	153		Not Detected	
48) 2,4-Dinitrophenol	0.00	184		Not Detected	
49) 4-Nitrophenol	0.00	109		Not Detected	
51) Dibenzofuran	0.00	168		Not Detected	
52) 2,4-Dinitrotoluene	0.00	165		Not Detected	
53) 2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54) Diethylphthalate	0.00	149		Not Detected	
55) 4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56) Fluorene	0.00	166		Not Detected	
58) 4-Nitroaniline	0.00	138		Not Detected	
60) 4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62) N-Nitrosodiphenylamine	0.00	169		Not Detected	
63) 4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64) Hexachlorobenzene	0.00	284		Not Detected	
65) Atrazine	0.00	200		Not Detected	
66) Pentachlorophenol	0.00	266		Not Detected	
67) Phenanthrene	0.00	178		Not Detected	
68) Anthracene	0.00	178		Not Detected	
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	0.00	202		Not Detected	
74) Pyrene	0.00	202		Not Detected	
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	0.00	228		Not Detected	
79) Chrysene	0.00	228		Not Detected	
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	0.00	252		Not Detected	
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	0.00	252		Not Detected	
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

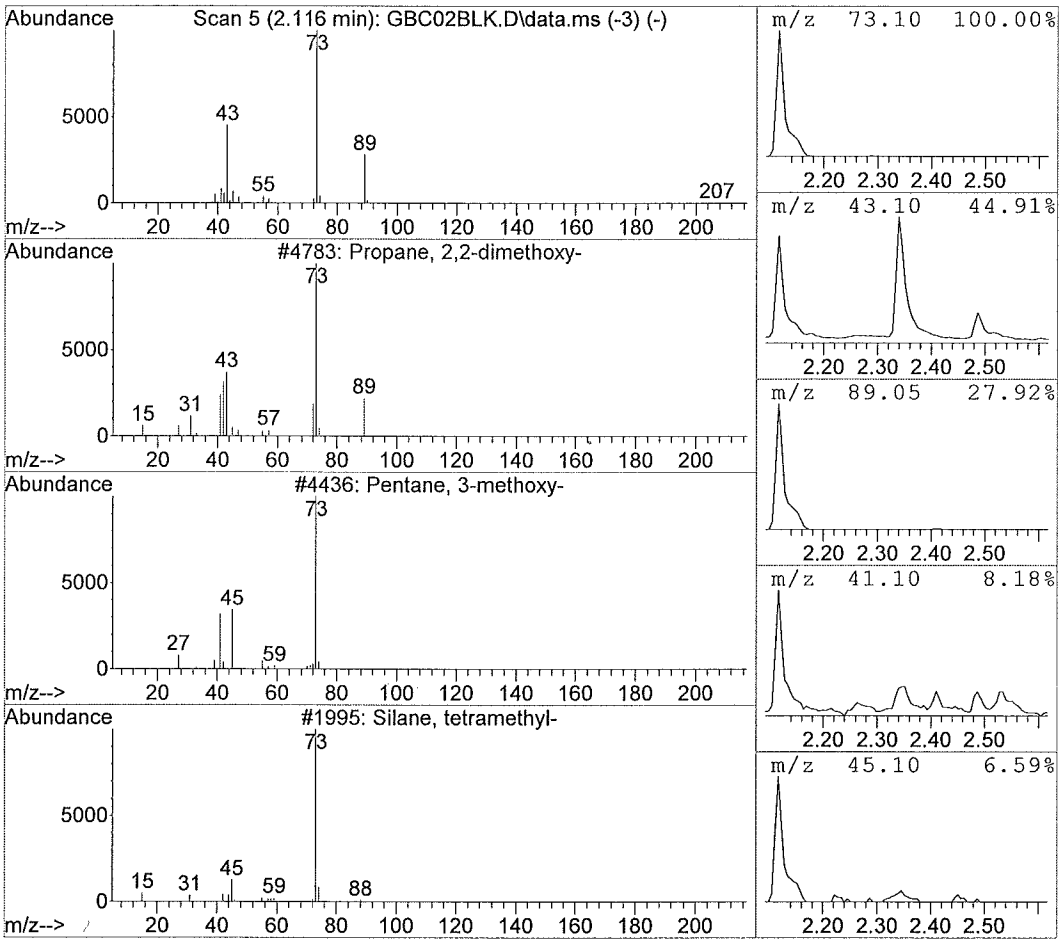
Library Search Compound Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.12	2.58 ug/ml	232315	1,4-Dichlorobenzene-d4	1799468

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propane, 2,2-dimethoxy-	4783	000077-76-9	56.00
2	Pentane, 3-methoxy-	4436	036839-67-5	17.00
3	Silane, tetramethyl-	1995	000075-76-3	9.00
4	Propane, 2-methoxy-2-methyl-	2138	001634-04-4	9.00
5	2-Hydroxy-2-methylbutyric acid	8706	003739-30-8	9.00

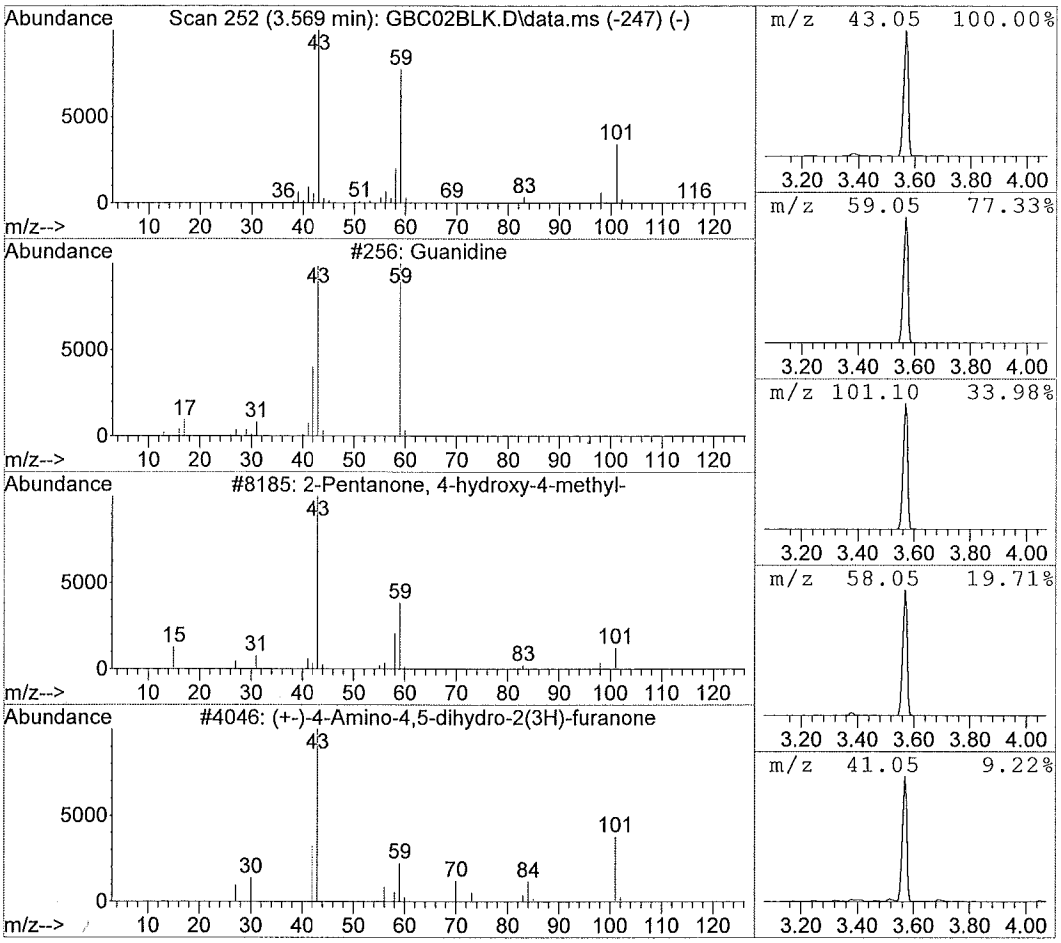


Data File : Z:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.57	60.07 ug/ml	5405006	1,4-Dichlorobenzene-d4	1799468

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	256	000113-00-8	47.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	32.00
3	(+-)-4-Amino-4,5-dihydro-2(3H)-fura	4046	016504-58-8	27.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	Morpholine, 4-methyl-	4083	000109-02-4	9.00

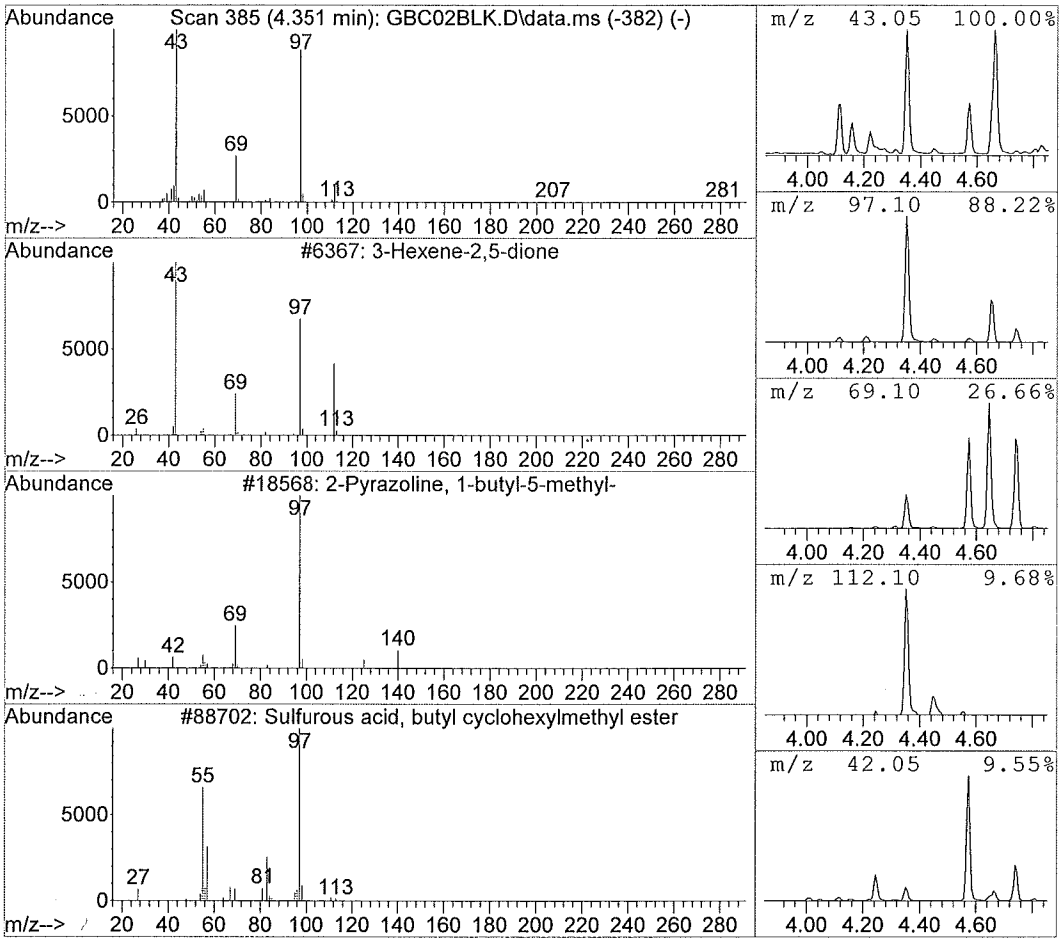


Data File : Z:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	2.35 ug/ml	211795	1,4-Dichlorobenzene-d4	1799468

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene-2,5-dione	6367	004436-75-3	56.00
2	2-Pyrazoline, 1-butyl-5-methyl-	18568	022581-50-6	36.00
3	Sulfurous acid, butyl cyclohexylmet	88702	1000309-21-4	33.00
4	1,2-Ethanediol, 1,2-di-2-furanyl-	55743	004464-77-1	33.00
5	2(5H)-Furanone, 5,5-dimethyl-	6392	020019-64-1	32.00

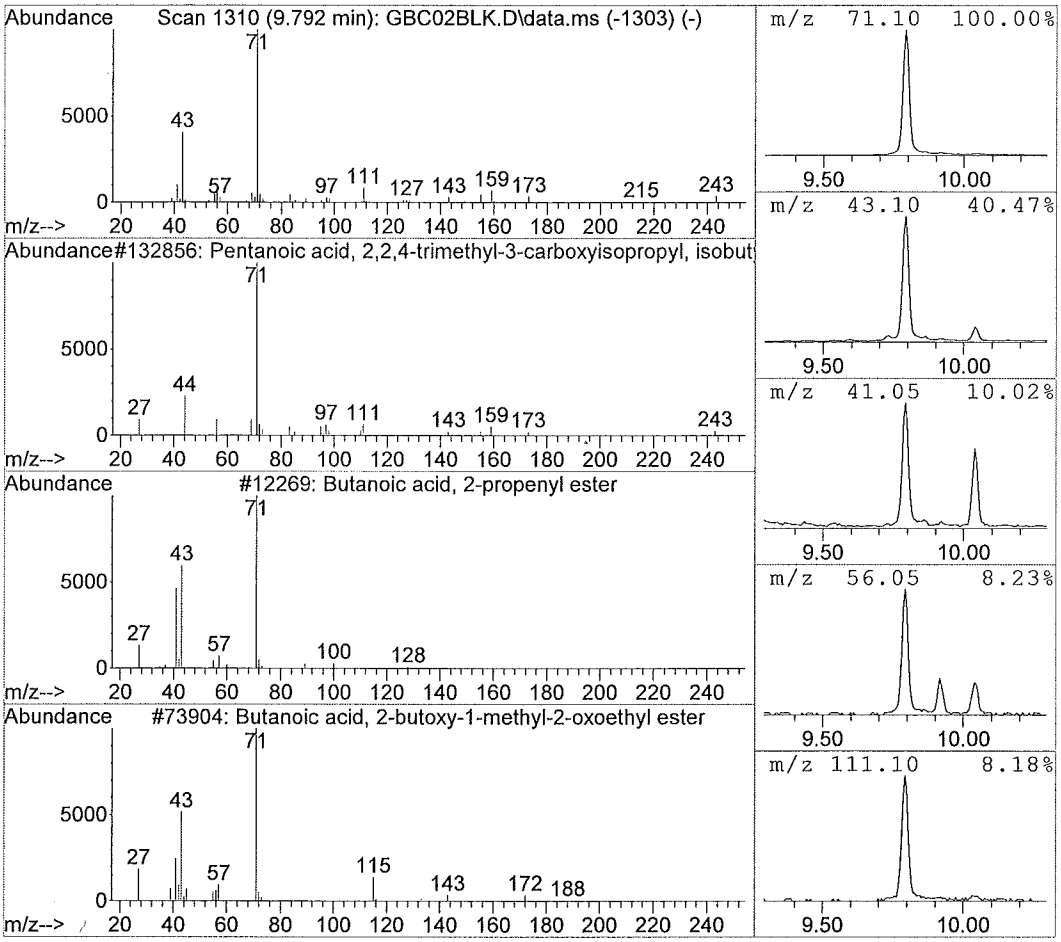


Data File : Z:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.79	3.29 ug/ml	455355	Acenaphthene-d10	2768665

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanoic acid, 2,2,4-trimethyl-3-c	132856	1000140-77-5	78.00
2	Butanoic acid, 2-propenyl ester	12269	002051-78-7	53.00
3	Butanoic acid, 2-butoxy-1-methyl-2-	73904	007492-70-8	45.00
4	diethyl 2-hydroxy-3-(tetrahydrofura	110336	1000365-67-1	45.00
5	Butyric acid, thio-, S-decyl ester	97354	002432-55-5	45.00

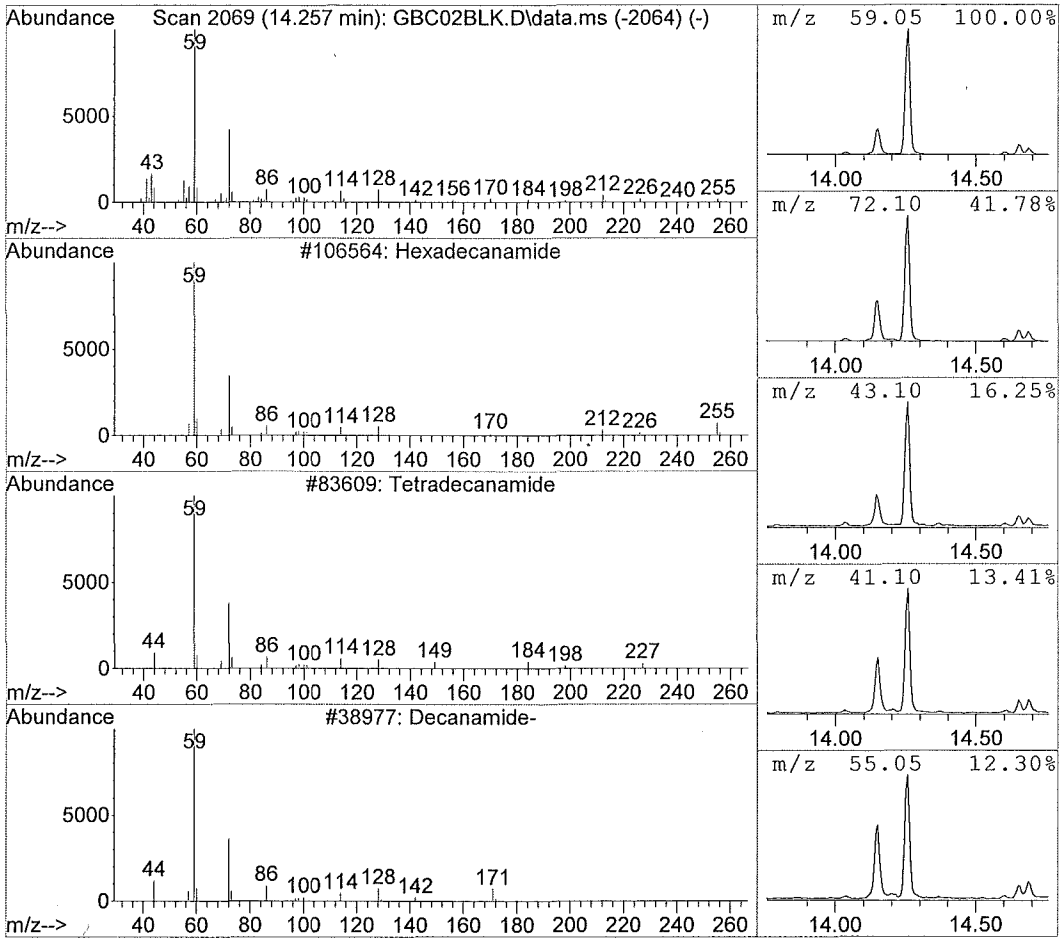


Data File : Z:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	4.74 ug/ml	748582	Chrysene-d12	3159084

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	94.00
2	Tetradecanamide	83609	000638-58-4	86.00
3	Decanamide-	38977	002319-29-1	83.00
4	Dodecanamide	60439	001120-16-7	59.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	59.00

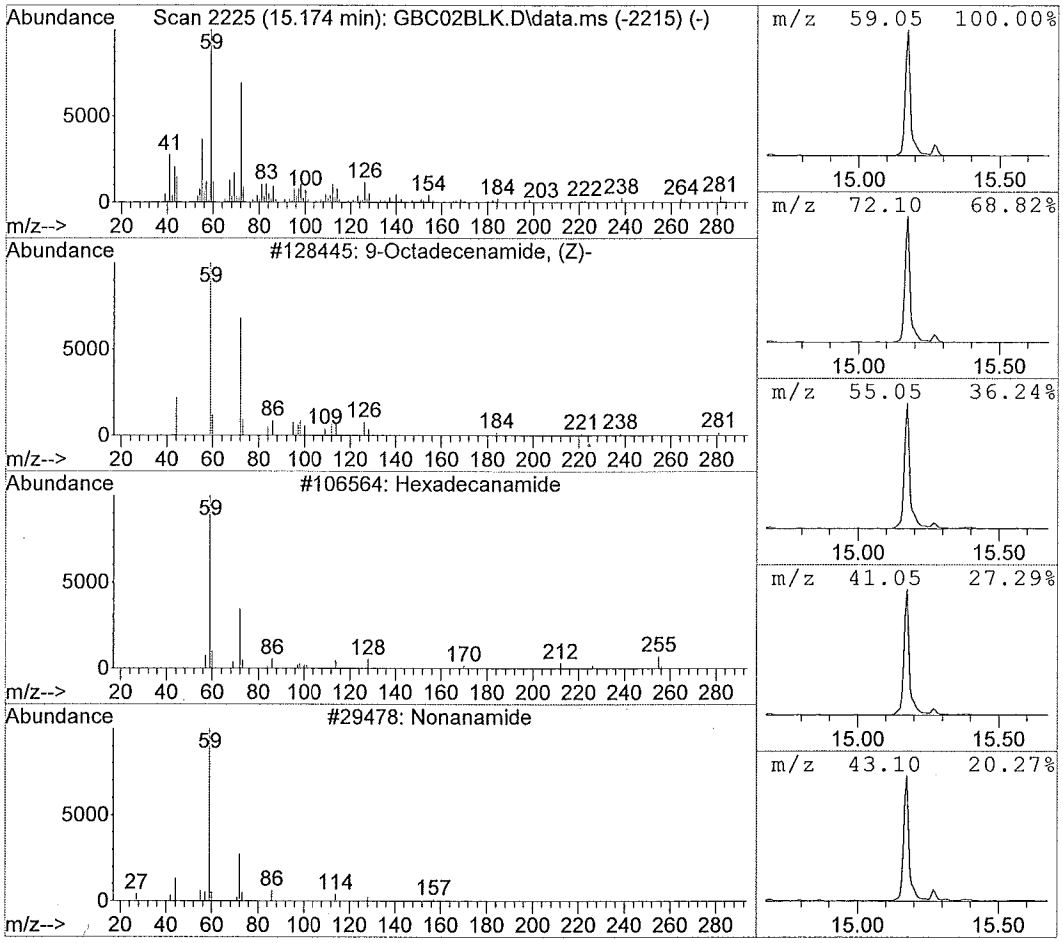


Data File : Z:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	37.38 ug/ml	5903733	Chrysene-d12	3159084

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	98.00
2	Hexadecanamide	106564	000629-54-9	50.00
3	Nonanamide	29478	001120-07-6	50.00
4	Pentanamide	4064	000626-97-1	50.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	47.00

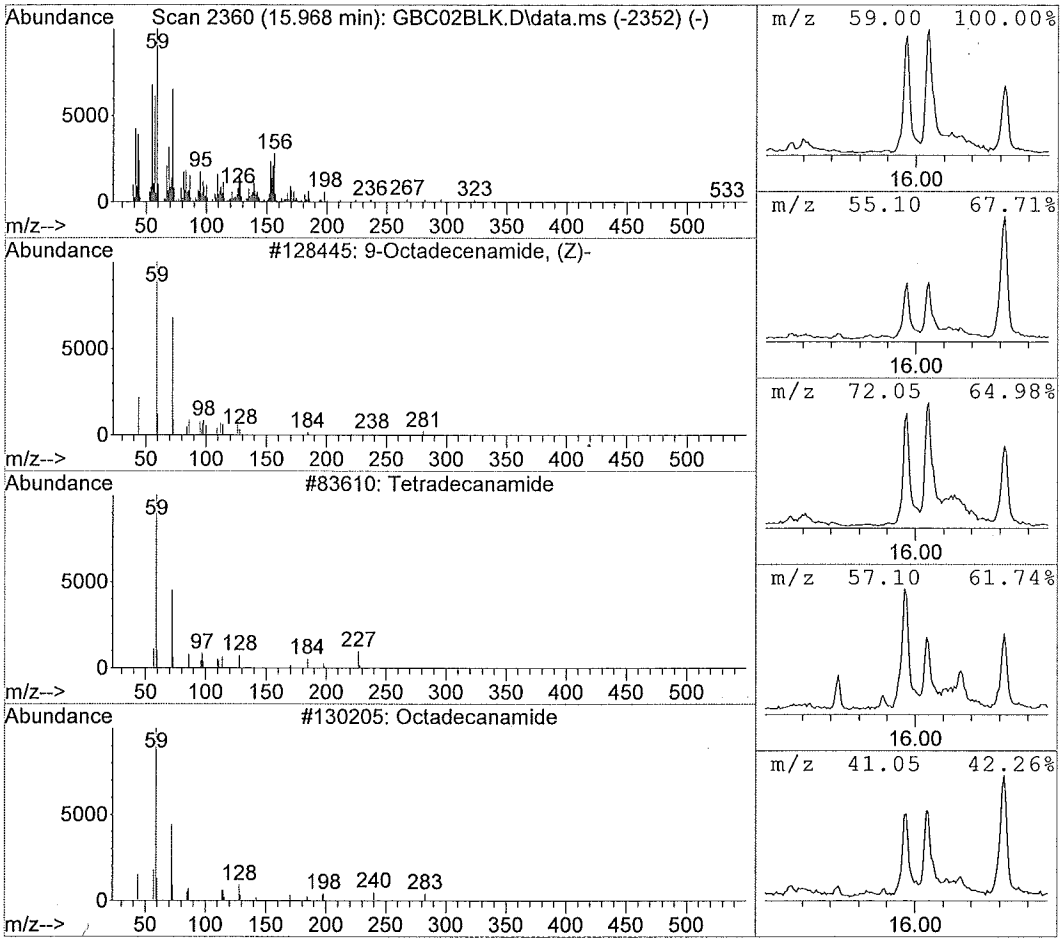


Data File : Z:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.97	2.27 ug/ml	359328	Chrysene-d12	3159084

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	53.00
2	Tetradecanamide	83610	000638-58-4	50.00
3	Octadecanamide	130205	000124-26-5	50.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	47.00
5	Hexadecanamide	106564	000629-54-9	22.00

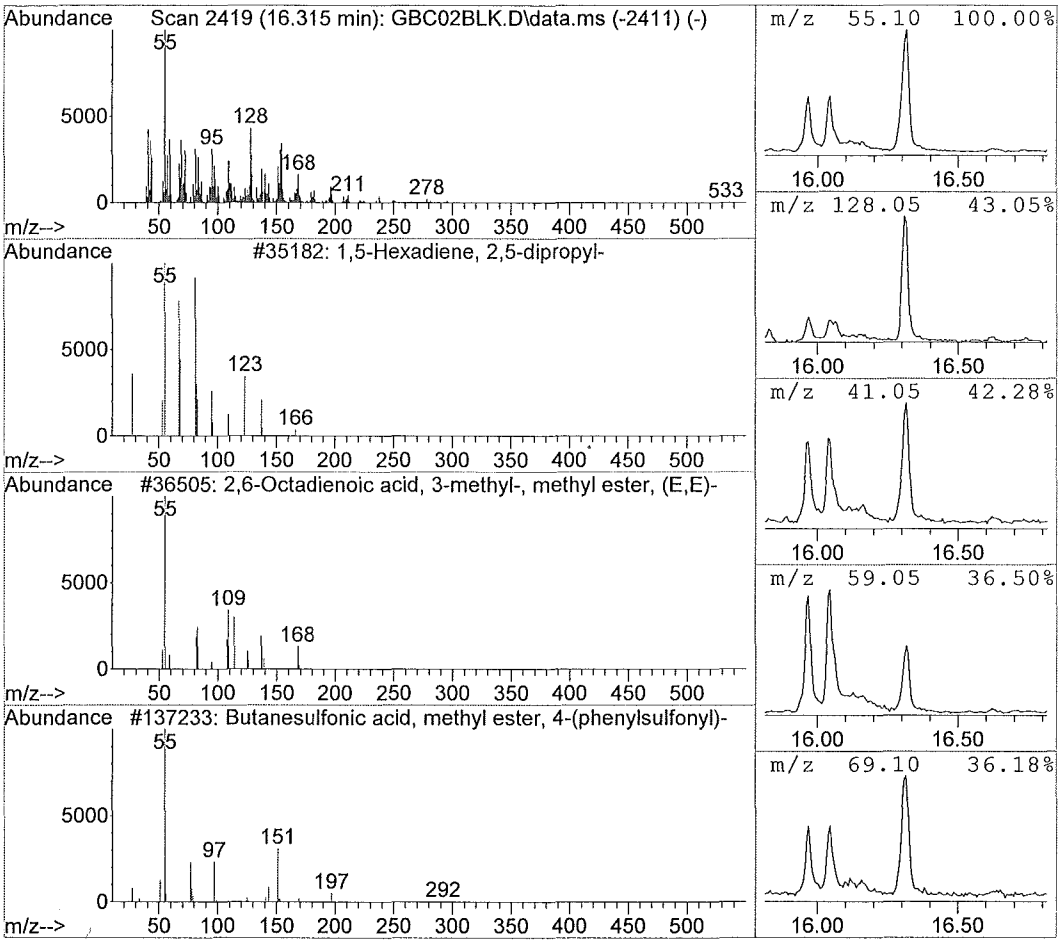


Data File : Z:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.32	3.75 ug/ml	592348	Chrysene-d12	3159084

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,5-Hexadiene, 2,5-dipropyl-	35182	1000158-33-4	11.00
2	2,6-Octadienoic acid, 3-methyl-, me	36505	055283-13-1	10.00
3	Butanesulfonic acid, methyl ester,	137233	1000159-83-1	10.00
4	2-(3-Hydroxybutyl)cyclooctanone	59547	110288-21-6	10.00
5	Cyclododecanone, 2-methyl-	58195	016837-94-8	10.00

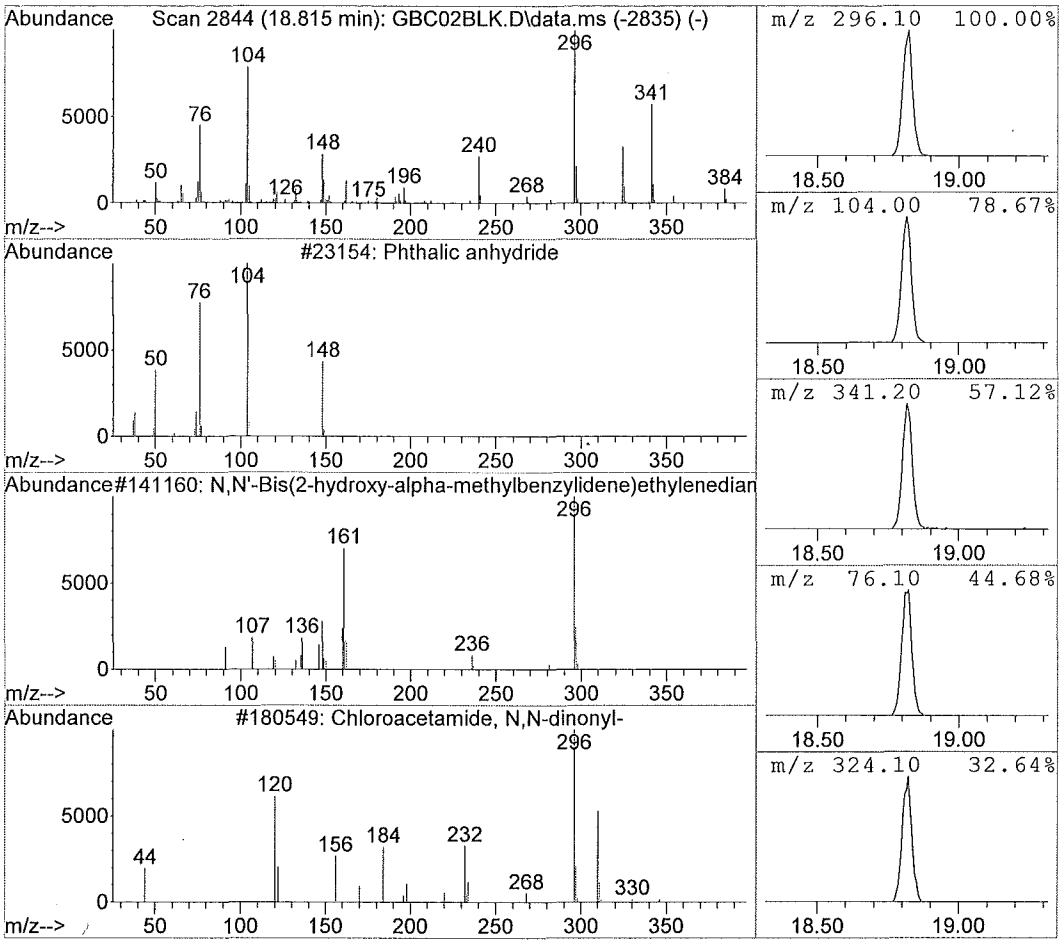


Data File : Z:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.82	2.58 ug/ml	422818	Perylene-d12	3277502

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23154	000085-44-9	27.00
2	N,N'-Bis(2-hydroxy-alpha-methylbenz	141160	005464-60-8	22.00
3	Chloroacetamide, N,N-dinonyl-	180549	1000308-48-1	18.00
4	Phthalic acid, monoethyl ester	55736	002306-33-4	12.00
5	naphthalen-1-yl(1-pentyl-1H-indol-3	177810	209414-07-3	11.00

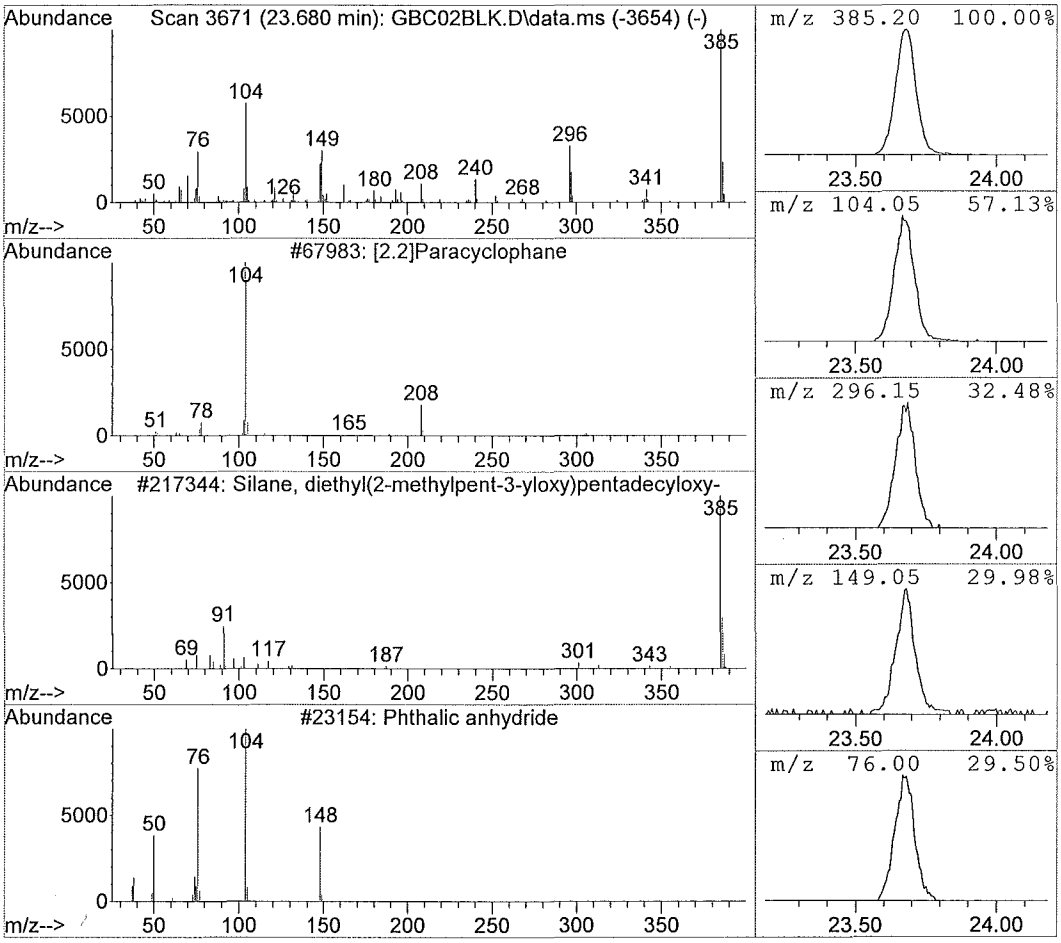


Data File : Z:\G\2015\JUN15\02JUN15\GBC02BLK.D Vial: 2
Acq On : 06/02/2015 12:10 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.68	3.14 ug/ml	513888	Perylene-d12	3277502

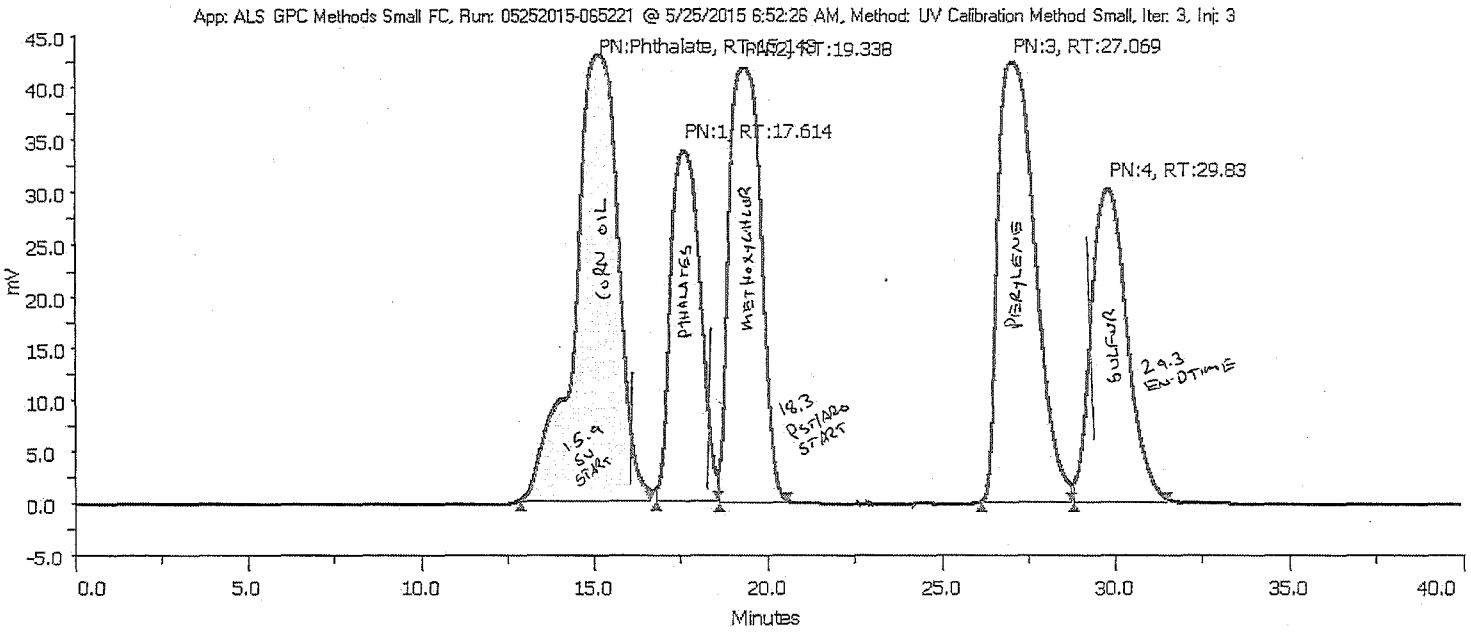
Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	[2.2]Paracyclophane	67983	001633-22-3	15.00
2	Silane, diethyl(2-methylpent-3-ylox	217344	1000363-78-6	12.00
3	Phthalic anhydride	23154	000085-44-9	10.00
4	4H-1-Benzothiopyran-4-one, 2,3-dihy	58660	019446-96-9	10.00
5	3-Phenylpropionic acid, 2-methoxyet	67552	1000331-05-3	10.00



Graph

Sample Name	GPC Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	4
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 7 TRACE
Soma 1.2/2.2
5/25/15
Lee Edmonds
STD # 195WS38823



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC Weekly	Sample Zone->1	Phthalate	12.888	15.143	6185062.9167	42.65	0	90.122
3	GPC Weekly	Sample Zone->1	1	16.776	17.614	3298919.1667	33.43	90.122	91.565
3	GPC Weekly	Sample Zone->1	2	18.578	19.338	4422131.25	41.52	91.565	342.046
3	GPC Weekly	Sample Zone->1	3	26.172	27.069	5238672.5	42.14	342.046	106.152
3	GPC Weekly	Sample Zone->1	4	28.819	29.83	3595322.9167	29.99	106.152	0

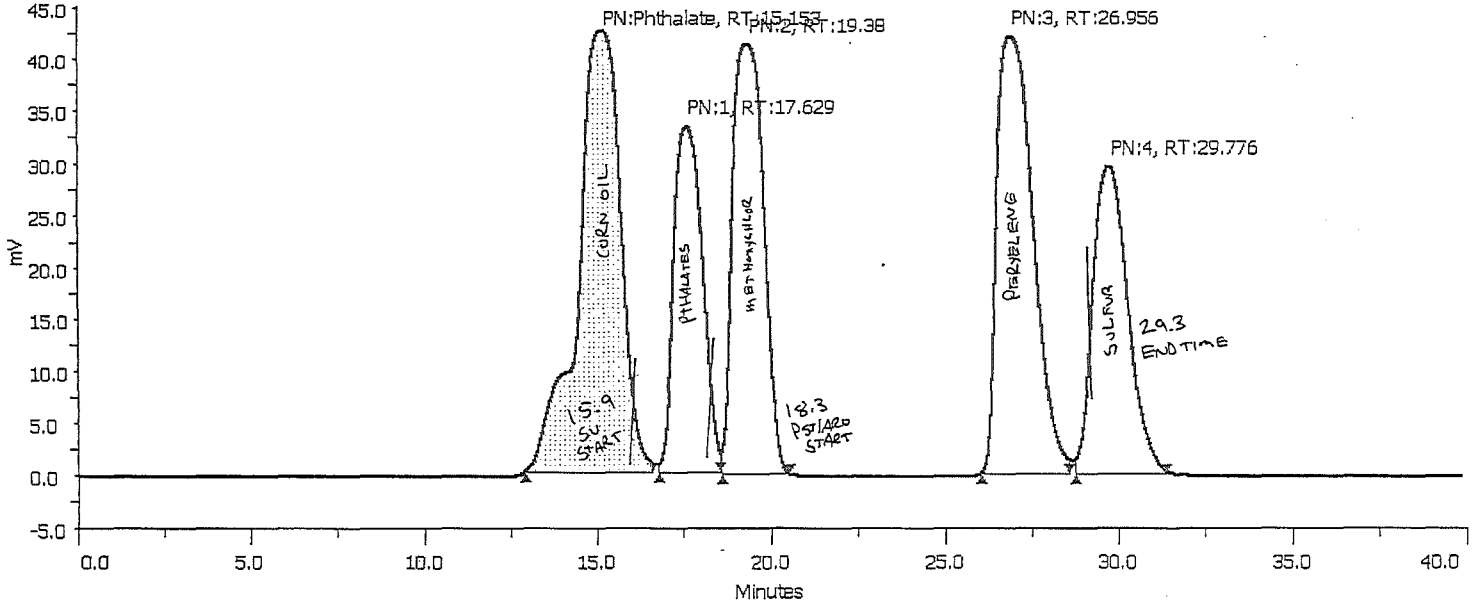
Run Variables

Graph

Sample Name	GPC Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	4
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 7 TRACE
Somo 1.2/2.2
5/19/2015
Lyle Edwards
STD #195W538823

App: ALS GPC Methods Small FC, Run: 05192015-073001 @ 5/19/2015 7:30:06 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC Weekly	Sample Zone->1	Phthalate	12.918	15.153	6016804.5833	42.32	0	90.801
3	GPC Weekly	Sample Zone->1	1	16.791	17.629	3186677.0833	33.02	90.801	93.482
3	GPC Weekly	Sample Zone->1	2	18.595	19.38	4279507.5	41.13	93.482	335.833
3	GPC Weekly	Sample Zone->1	3	26.065	26.956	5067876.25	41.86	335.833	109.091
3	GPC Weekly	Sample Zone->1	4	28.769	29.776	3454598.3333	29.52	109.091	0

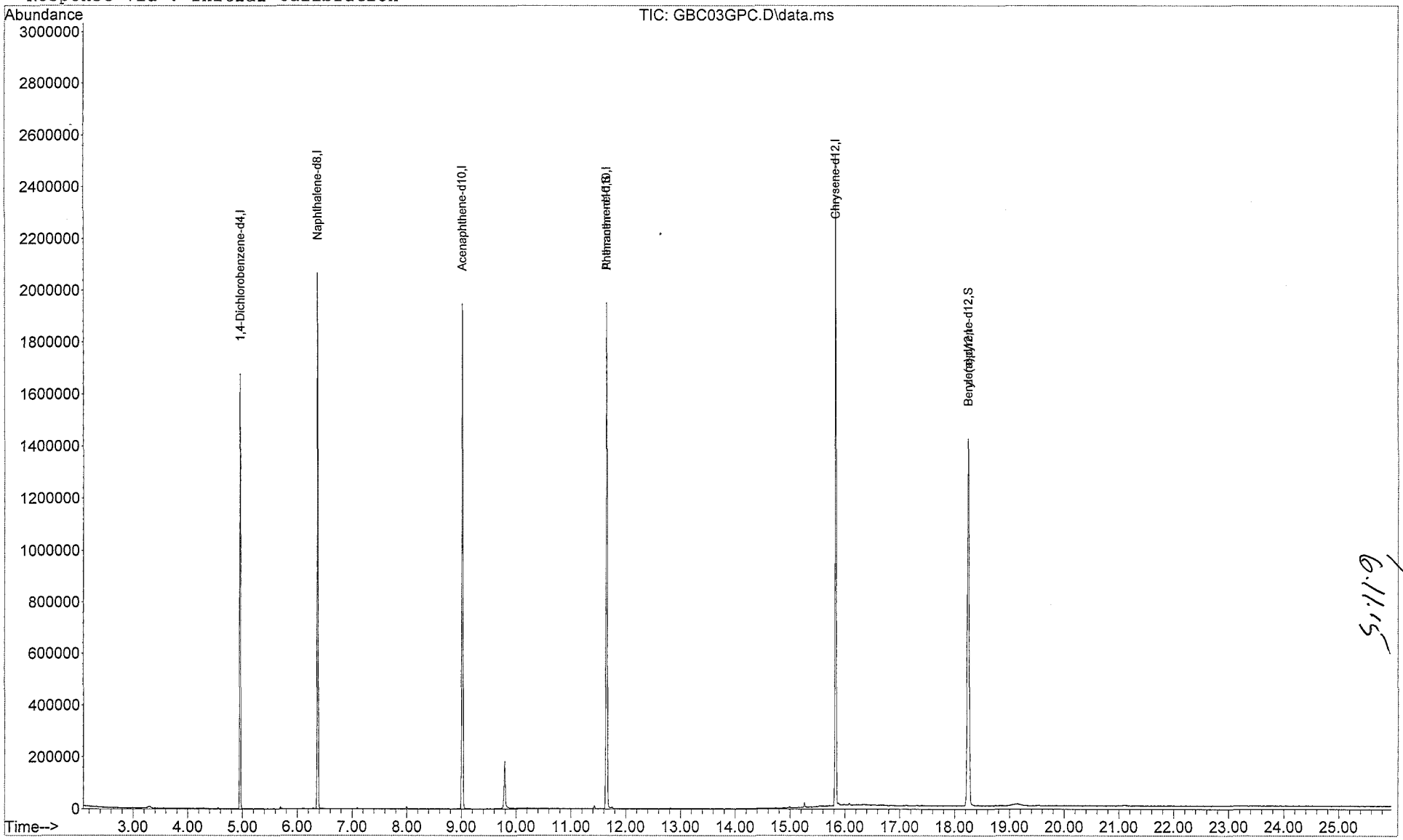
Run Variables

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC03GPC.D Vial: 3
Acq On : 06/02/2015 12:42 Operator: DJC
Sample : GPC 7 BLK Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 02 13:08:48 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration



6.11.15

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC03GPC.D Vial: 3
Acq On : 06/02/2015 12:42 Operator: DJC
Sample : GPC 7 BLK Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 02 13:08:48 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	317380	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1208436	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	698403	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1144974	20.00 ug/ml
73) Chrysene-d12	15.83	240	1117530	20.00 ug/ml
81) Perylene-d12	18.25	264	1098488	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	0.00	99	0	0.000ug/ml
6) bis-(2-chloroethyl)ether-d	0.00	67	0	0.000ug/mL
7) 2-Chlorophenol-d4	0.00	132	0	0.000ug/ml
13) 4-Methylphenol-d8	0.00	113	0	0.000ug/mL
17) Nitrobenzene-d5	0.00	128	0	0.000ug/ml
21) 2-Nitrophenol-d4	0.00	143	0	0.000ug/mL
25) 2,4-Dichlorophenol-d3	0.00	165	0	0.000ug/mL
28) 4-Chloroaniline-d4	6.46	131	509	0.028ug/mL
42) Dimethylphthalate-d6	0.00	166	0	0.000ug/mL
45) Acenaphthylene-d8	0.00	160	0	0.000ug/mL
50) 4-Nitrophenol-d4	0.00	143	0	0.000ug/mL
57) Fluorene-d10	9.92	176	235	0.006ug/mL
61) 4,6-Dinitro-2-methylphenol	0.00	200	0	0.000ug/mL
69) Anthracene-d10	11.65	188	1144974	19.769ug/mL
75) Pyrene-d10	0.00	212	0	0.000ug/mL
86) Benzo(a)pyrene-d12	18.25	264	1096819	22.012ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	0.00	77		Not Detected
4) Phenol	0.00	94		Not Detected
5) Bis(2-chloroethyl)ether	0.00	93		Not Detected
8) 2-Chlorophenol	0.00	128		Not Detected
9) 2-Methylphenol	0.00	108		Not Detected
10) 2,2'-Oxybis-(1-chloropropa	0.00	45		Not Detected
11) Acetophenone	0.00	105		Not Detected
12) 4-methylphenol	0.00	108		Not Detected
14) N-Nitroso-di-n-propylamine	0.00	70		Not Detected
15) Hexachloroethane	0.00	117		Not Detected
18) Nitrobenzene	0.00	77		Not Detected
19) Isophorone	0.00	82		Not Detected
20) 2-Nitrophenol	0.00	139		Not Detected
22) 2,4-Dimethylphenol	0.00	107		Not Detected
23) Bis(2-chloroethoxy)methane	0.00	93		Not Detected
24) 2,4-Dichlorophenol	0.00	162		Not Detected
26) Naphthalene	0.00	128		Not Detected
27) 4-Chloroaniline	0.00	127		Not Detected
29) Hexachlorobutadiene	0.00	225		Not Detected
30) Caprolactam	0.00	113		Not Detected
31) 4-Chloro-3-methylphenol	0.00	107		Not Detected
32) 2-Methylnaphthalene	0.00	142		Not Detected
34) 1,2,4,5-Tetrachlorobenzene	0.00	216		Not Detected
35) Hexachlorocyclopentadiene	0.00	237		Not Detected
36) 2,4,6-Trichlorophenol	0.00	196		Not Detected
37) 2,4,5-Trichlorophenol	0.00	196		Not Detected
38) 1,1'-Biphenyl	0.00	154		Not Detected
39) 2-Chloronaphthalene	0.00	162		Not Detected
40) 2-Nitroaniline	0.00	65		Not Detected
41) Dimethylphthalate	0.00	163		Not Detected
43) 2,6-Dinitrotoluene	0.00	165		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : Z:\G\2015\JUN15\02JUN15\GBC03GPC.D Vial: 3
Acq On : 06/02/2015 12:42 Operator: DJC
Sample : GPC 7 BLK Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 02 13:08:48 2015 Results File: GSOM01D4.RES

Method : Z:\G\METHODS\GSOM01D4.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Fri May 29 12:40:16 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
52)	2,4-Dinitrotoluene	0.00	165		Not Detected	
53)	2,3,4,6-Tetrachlorophenol	0.00	232		Not Detected	
54)	Diethylphthalate	0.00	149		Not Detected	
55)	4-Chlorophenyl-phenylether	0.00	204		Not Detected	
56)	Fluorene	0.00	166		Not Detected	
58)	4-Nitroaniline	0.00	138		Not Detected	
60)	4,6-Dinitro-2-methylphenol	0.00	198		Not Detected	
62)	N-Nitrosodiphenylamine	0.00	169		Not Detected	
63)	4-Bromophenyl-phenyl ether	0.00	248		Not Detected	
64)	Hexachlorobenzene	0.00	284		Not Detected	
65)	Atrazine	0.00	200		Not Detected	
66)	Pentachlorophenol	0.00	266		Not Detected	
67)	Phenanthrene	0.00	178		Not Detected	
68)	Anthracene	0.00	178		Not Detected	
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	0.00	202		Not Detected	
74)	Pyrene	0.00	202		Not Detected	
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	0.00	228		Not Detected	
79)	Chrysene	0.00	228		Not Detected	
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	0.00	252		Not Detected	
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	0.00	252		Not Detected	
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

2M - FORM II SV-SIM2
SOIL SEMIVOLATILE SIM DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

	EPA SAMPLE NO.	SDMC17 (FLN) #	SDMC18 (2MN) #	TOT OUT
01	F9L58	0 D	0 D	0
02	F9L59	103	87	0
03	F9L60	107	87	0
04	F9L61	84	72	0
05	F9L62	92	85	0
06	F9L63	93	78	0
07	F9L64	80	70	0
08	F9L65	83	75	0
09	F9L66	80	67	0
10	F9L67	73	63	0
11	F9L68	71	65	0
12	F9L69	60	54	0
13	F9L70	66	58	0
14	F9L71	67	54	0
15	F9L72	87	79	0
16	F9L73	94	74	0
17	F9L75	84	77	0
18	F9L77	115	96	0
19	F9L78	97	92	0
20	F9L79	118	103	0
21	SBLK83	82	56	0
22				
23				
24				
25				
26				
27				
28				
29				
30				

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted out

4D - FORM IV SV-SIM
SEMIVOLATILE SIM METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: DFW03BLK Lab Sample ID: 448483

Instrument ID: 5975-D Date Extracted: 05/28/2015

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/08/2015

Time Analyzed: 15:20 Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9L58	1514293001	DFW05F01	06/08/2015
02	F9L59	1514293002	DFW06F02	06/08/2015
03	F9L60	1514293003	DFW07F03	06/08/2015
04	F9L61	1514293004	DFW08F04	06/08/2015
05	F9L62	1514293005	DFW09F05	06/08/2015
06	F9L63	1514293006	DFW10F06	06/08/2015
07	F9L64	1514293007	DFW11F07	06/08/2015
08	F9L65	1514293008	DFW12F08	06/08/2015
09	F9L66	1514293009	DFW13F09	06/08/2015
10	F9L67	1514293012	DFW14F12	06/08/2015
11	F9L68	1514293013	DFW15F13	06/08/2015
12	F9L69	1514293014	DFW16F14	06/08/2015
13	F9L70	1514293015	DFW17F15	06/08/2015
14	F9L71	1514293016	DFW18F16	06/08/2015
15	F9L72	1514293017	DFW19F17	06/08/2015
16	F9L73	1514293018	DFW24F18	06/09/2015
17	F9L75	1514293019	DFW25F19	06/09/2015
18	F9L77	1514293020	DFW26F20	06/09/2015
19	F9L78	1514293021	DFW27F21	06/09/2015
20	F9L79	1514293022	DFW28F22	06/09/2015
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

5B - FORM V SV
SEMIVOLATILE ORGANIC SIM INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: SSTD0.1DG

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: DDG01SP1 DFTPP Injection Date: 03/25/2015

Instrument ID: 5975-D DFTPP Injection Time: 09:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
	DFTPP is not required for SIM analysis	

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0.1DG	SSTD0.1DG	DDG01SP1	03/25/2015	09:26
02	SSTD0.2DG	SSTD0.2DG	DDG02SP2	03/25/2015	09:55
03	SSTD0.4DG	SSTD0.4DG	DDG03SP4	03/25/2015	10:25
04	SSTD0.8DG	SSTD0.8DG	DDG04SP8	03/25/2015	10:55
05	SSTD001DG	SSTD001DG	DDG05S01	03/25/2015	11:25
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

5B - FORM V SV
SEMIVOLATILE ORGANIC SIM INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: SSTD0.4DW

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: DFW02SP4 DFTPP Injection Date: 06/08/2015

Instrument ID: 5975-D DFTPP Injection Time: 14:36

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
	DFTPP is not required for SIM analysis	

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0.4DW	SSTD0.4DW	DFW02SP4	06/08/2015	14:36
02	SBLK83	448483	DFW03BLK	06/08/2015	15:20
03	F9L58	1514293001	DFW05F01	06/08/2015	16:23
04	F9L59	1514293002	DFW06F02	06/08/2015	16:53
05	F9L60	1514293003	DFW07F03	06/08/2015	17:24
06	F9L61	1514293004	DFW08F04	06/08/2015	17:54
07	F9L62	1514293005	DFW09F05	06/08/2015	18:24
08	F9L63	1514293006	DFW10F06	06/08/2015	18:54
09	F9L64	1514293007	DFW11F07	06/08/2015	19:24
10	F9L65	1514293008	DFW12F08	06/08/2015	19:54
11	F9L66	1514293009	DFW13F09	06/08/2015	20:24
12	F9L67	1514293012	DFW14F12	06/08/2015	20:54
13	F9L68	1514293013	DFW15F13	06/08/2015	21:23
14	F9L69	1514293014	DFW16F14	06/08/2015	21:53
15	F9L70	1514293015	DFW17F15	06/08/2015	22:23
16	F9L71	1514293016	DFW18F16	06/08/2015	22:52
17	F9L72	1514293017	DFW19F17	06/08/2015	23:22
18	SSTD0.4W1	SSTD0.4W1	DFW20SP4	06/08/2015	23:52
19					
20					
21					

5B - FORM V SV
SEMIVOLATILE ORGANIC SIM INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: SSTD0.4W1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: DFW20SP4 DFTPP Injection Date: 06/08/2015

Instrument ID: 5975-D DFTPP Injection Time: 23:52

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
	DFTPP is not required for SIM analysis	

1 - Value is %mass 69 2 - Value is %mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0.4W1	SSTD0.4W1	DFW20SP4	06/08/2015	23:52
02	F9L73	1514293018	DFW24F18	06/09/2015	01:20
03	F9L75	1514293019	DFW25F19	06/09/2015	01:50
04	F9L77	1514293020	DFW26F20	06/09/2015	02:19
05	F9L78	1514293021	DFW27F21	06/09/2015	02:49
06	F9L79	1514293022	DFW28F22	06/09/2015	03:18
07	SSTD0.4W2	SSTD0.4W2	DFW29SP4	06/09/2015	03:48
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

8E - FORM VIII SV-SIM1
SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DW Date Analyzed: 06/08/2015

Lab File ID (Standard): DFW02SP4 Time Analyzed: 14:36

Instrument ID: 5975-D

	IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD				255654		6.07		164783		8.73	
	UPPER LIMIT				511308		6.57		329566		9.23	
	LOWER LIMIT				127827		5.57		82392		8.23	
	EPA SAMPLE NO.											
01	SBLK83				235007		6.07		165935		8.73	
02	F9L58				222937		6.07		138736		8.73	
03	F9L59				230524		6.07		152559		8.72	
04	F9L60				198011		6.07		144369		8.72	
05	F9L61				234746		6.06		166759		8.72	
06	F9L62				228775		6.06		164234		8.72	
07	F9L63				223175		6.07		145106		8.72	
08	F9L64				205245		6.06		145613		8.72	
09	F9L65				231617		6.07		164962		8.72	
10	F9L66				223753		6.06		156994		8.72	
11	F9L67				215997		6.06		138399		8.72	
12	F9L68				228688		6.06		159480		8.72	
13	F9L69				231993		6.06		159934		8.72	
14	F9L70				219371		6.06		140364		8.72	
15	F9L71				223849		6.06		152977		8.72	
16	F9L72				206483		6.06		146625		8.72	
17												
18												
19												
20												
21												
22												

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% 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 contract required QC limits with an asterisk.

8F - FORM VIII SV-SIM2

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

EPA Sample No.(SSTD0.4##): SSTD0.4DW Date Analyzed: 06/08/2015

Lab File ID (Standard): DFW02SP4 Time Analyzed: 14:36

Instrument ID: 5975-D GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	293343		11.36		329128		15.52		309275		18.02	
	UPPER LIMIT	586686		11.86		658256		16.02		618550		18.52	
	LOWER LIMIT	146672		10.86		164564		15.02		154638		17.52	
	EPA SAMPLE NO.												
01	SBLK83	283214		11.36		301402		15.52		314083		18.02	
02	F9L58	244671		11.36		266718		15.51		257027		18.01	
03	F9L59	278659		11.36		292356		15.51		300653		18.00	
04	F9L60	236634		11.36		249554		15.51		267360		18.01	
05	F9L61	283417		11.36		293650		15.51		309007		18.00	
06	F9L62	290049		11.36		279640		15.51		301654		18.01	
07	F9L63	263265		11.36		283827		15.51		283358		18.00	
08	F9L64	259836		11.36		254327		15.51		265379		18.01	
09	F9L65	285473		11.36		287711		15.51		299605		18.01	
10	F9L66	266266		11.36		273028		15.51		295476		18.01	
11	F9L67	248218		11.36		277227		15.51		270313		18.00	
12	F9L68	272272		11.36		281631		15.51		297904		18.01	
13	F9L69	272412		11.36		298204		15.51		314129		18.00	
14	F9L70	251934		11.36		279148		15.51		271992		18.00	
15	F9L71	258487		11.36		263922		15.51		296220		18.01	
16	F9L72	240091		11.36		247473		15.51		263911		18.00	
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% 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 contract required QC limits with an asterisk.

8E - FORM VIII SV-SIM1
SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4W1 Date Analyzed: 06/08/2015

Lab File ID (Standard): DFW20SP4 Time Analyzed: 23:52

Instrument ID: 5975-D

	IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD				234657		6.06		148025		8.72	
	UPPER LIMIT				469314		6.56		296050		9.22	
	LOWER LIMIT				117329		5.56		74013		8.22	
	EPA SAMPLE NO.											
01	F9L73				188322		6.06		132837		8.72	
02	F9L75				230562		6.06		163032		8.72	
03	F9L77				187311		6.06		137367		8.72	
04	F9L78				195645		6.06		140589		8.72	
05	F9L79				185085		6.06		136512		8.72	
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 = 200% 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 contract required QC limits with an asterisk.

8F - FORM VIII SV-SIM2

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

EPA Sample No.(SSTD0.4##): SSTD0.4W1 Date Analyzed: 06/08/2015

Lab File ID (Standard): DFW20SP4 Time Analyzed: 23:52

Instrument ID: 5975-D GC Column: DB5MS ID: 0.32 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	267450		11.36		298211		15.51		287556		18.00	
	UPPER LIMIT	534900		11.86		596422		16.01		575112		18.50	
	LOWER LIMIT	133725		10.86		149106		15.01		143778		17.50	
	EPA SAMPLE NO.												
01	F9L73	215212		11.36		227206		15.51		248517		18.00	
02	F9L75	272824		11.36		278600		15.51		296946		18.00	
03	F9L77	223287		11.36		230422		15.51		251094		18.00	
04	F9L78	235774		11.36		235801		15.51		256400		18.00	
05	F9L79	221683		11.36		227133		15.51		249901		18.01	
06													
07													
08													
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17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% 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 contract required QC limits with an asterisk.

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L58

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293001

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFW05F01

Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 30.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	120	U
91-57-6	2-Methylnaphthalene	120	U
208-96-8	Acenaphthylene	120	U
83-32-9	Acenaphthene	43.	J
86-73-7	Fluorene	27.	J
87-86-5	Pentachlorophenol	240	U
85-01-8	Phenanthrene	540	
120-12-7	Anthracene	94.	J
206-44-0	Fluoranthene	800	
129-00-0	Pyrene	640	
56-55-3	Benzo(a)anthracene	320	
218-01-9	Chrysene	290	
205-99-2	Benzo(b)fluoranthene	260	
207-08-9	Benzo(k)fluoranthene	80.	J
50-32-8	Benzo(a)pyrene	170	
193-39-5	Indeno(1,2,3-cd)pyrene	140	
53-70-3	Dibenzo(a,h)anthracene	29.	J
191-24-2	Benzo(g,h,i)perylene	87.	J

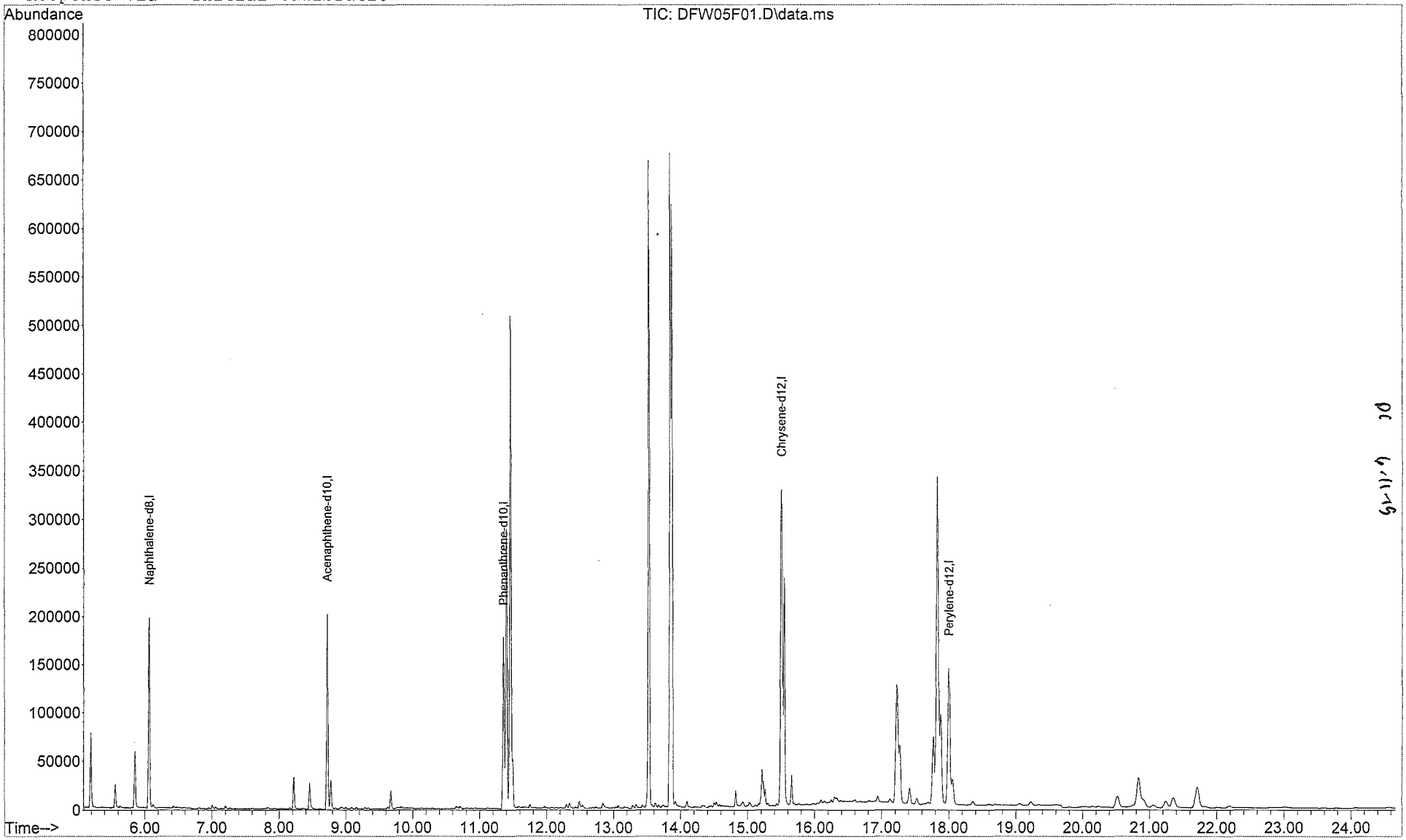
Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW05F01.D
Acq On : 06/08/2015 16:23
Sample : 1514293001 F9L58 (30)
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 4
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:51:15 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

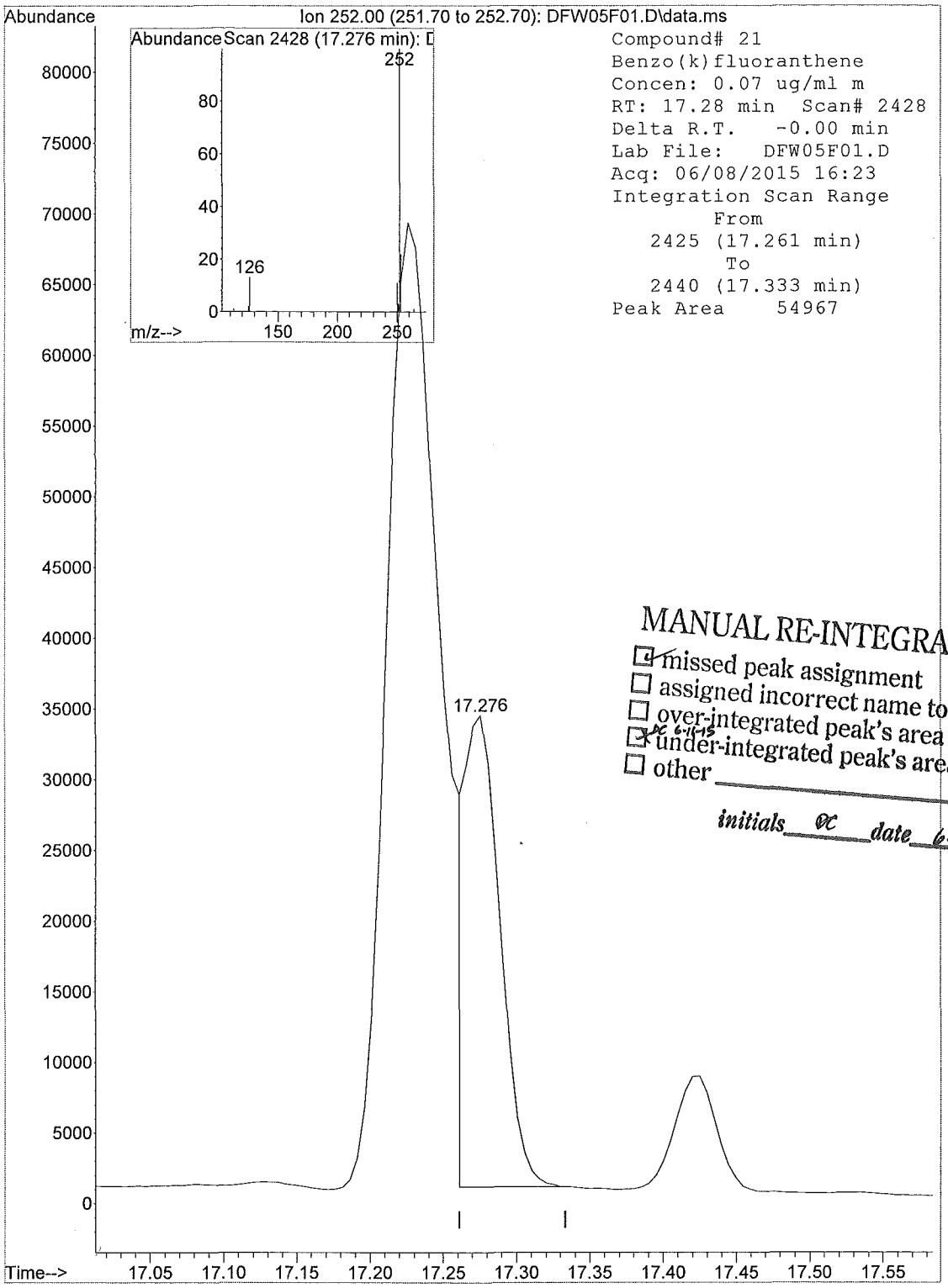
Data File : Z:\D\2015\JUN15\08JUN15\DFW05F01.D Vial: 4
Acq On : 06/08/2015 16:23 Operator: DJC
Sample : 1514293001 F9L58 (30) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:51:15 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.07	136	222937	0.40 ug/ml	
5) Acenaphthene-d10	8.73	164	138736	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	244671	0.40 ug/ml	
15) Chrysene-d12	15.51	240	266718	0.40 ug/ml	
19) Perylene-d12	18.01	264	257027	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	3813	0.011ug/mL	
13) Fluoranthene-d10	13.50	212	8417	0.013ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	8.78	153	13775	0.035ug/ml	99
8) Fluorene	9.68	166	9947	0.022ug/ml	99
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	315513	0.448ug/ml	98
12) Anthracene	11.50	178	53405	0.078ug/ml	96
14) Fluoranthene	13.53	202	531584	0.663ug/ml	88
16) Pyrene	13.87	202	446114	0.533ug/ml	90
17) Benzo(a)anthracene	15.50	228	186864	0.263ug/ml	98
18) Chrysene	15.55	228	179398	0.239ug/ml	95
20) Benzo(b)fluoranthene	17.23	252	174115	0.217ug/ml	100
21) Benzo(k)fluoranthene	17.28	252	54967	0.066ug/ml m	99 6.11.15
22) Benzo(a)pyrene	17.88	252	108575	0.142ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.84	276	76099	0.114ug/ml	100
24) Dibenzo(a,h)anthracene	20.90	278	17828	0.024ug/ml	99
25) Benzo(g,h,i)perylene	21.71	276	54765	0.073ug/ml	71

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

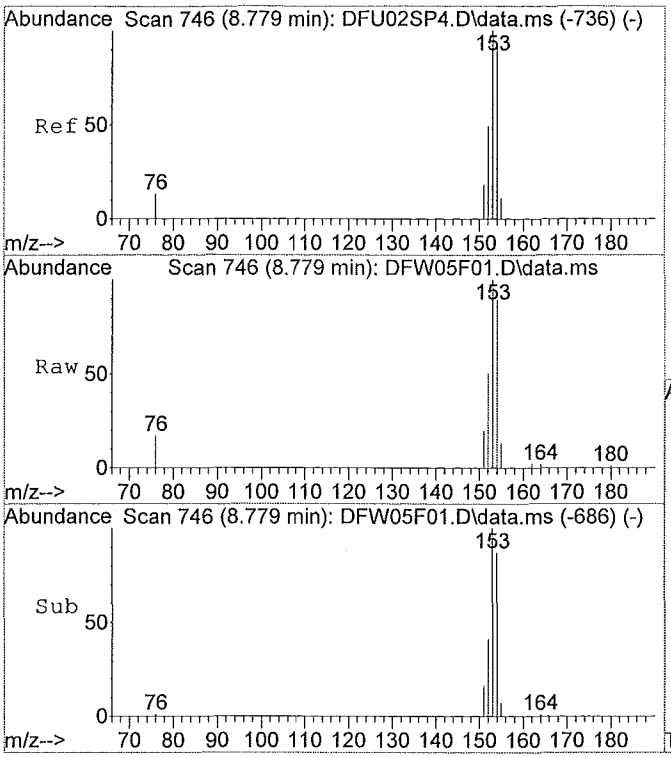
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☑ under-integrated peak's area
- ☐ other _____

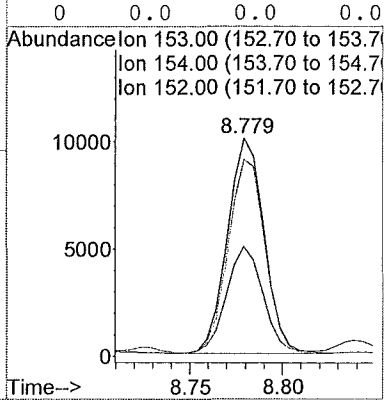
initials DC date 6-11-15

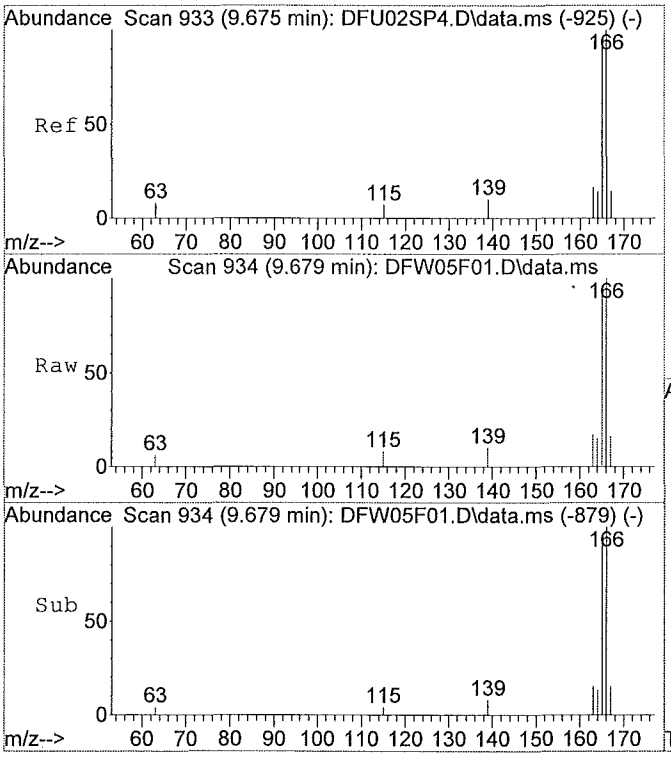


#7
Acenaphthene
Concen: 0.04 ug/ml
RT: 8.78 min Scan# 746
Delta R.T. -0.00 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:153 Resp: 13775

Ion	Ratio	Lower	Upper
153	100		
154	92.0	65.1	120.9
152	49.6	35.2	65.4
0	0.0	0.0	0.0

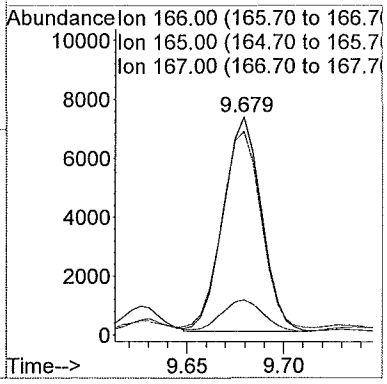


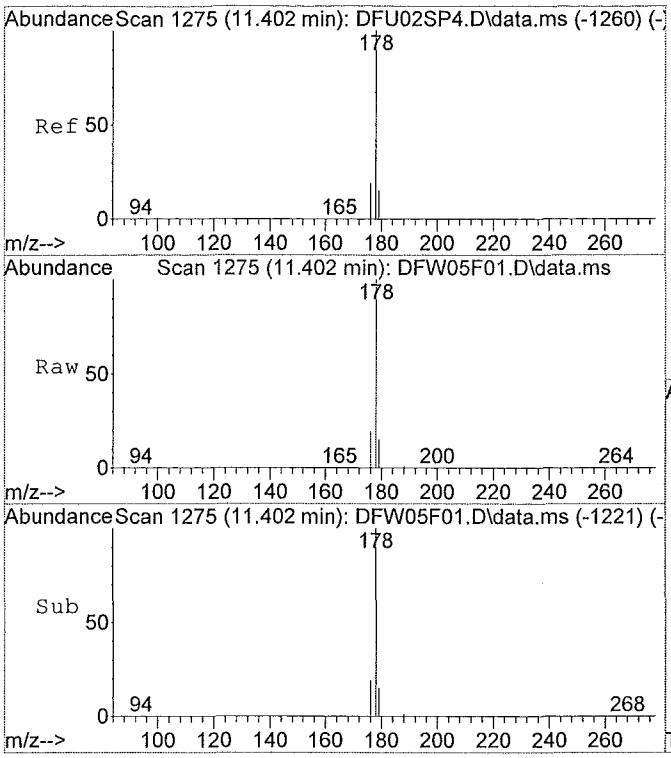


#8
Fluorene
Concen: 0.02 ug/ml
RT: 9.68 min Scan# 934
Delta R.T. 0.00 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:166 Resp: 9947

Ion	Ratio	Lower	Upper
166	100		
165	93.9	66.3	123.1
167	15.7	0.0	0.0#
0	0.0	0.0	0.0

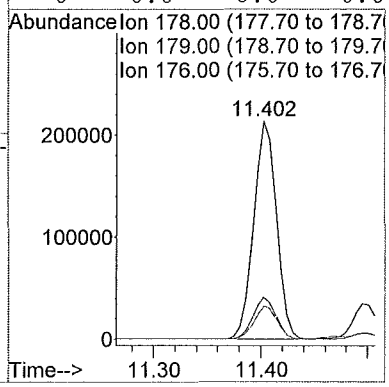


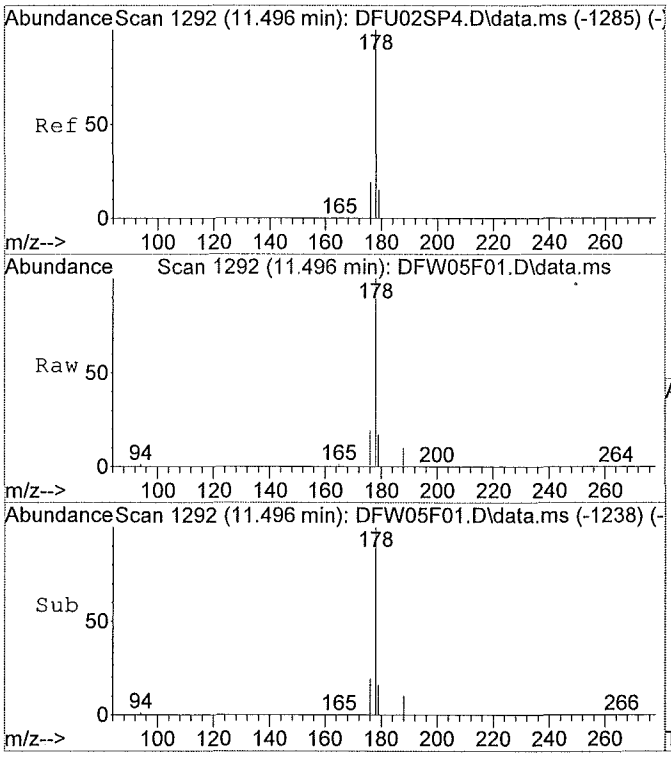


#11
Phenanthrene
Concen: 0.45 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:178 Resp: 315513

Ion	Ratio	Lower	Upper
178	100		
179	15.4	11.1	20.5
176	19.1	14.1	26.1
0	0.0	0.0	0.0

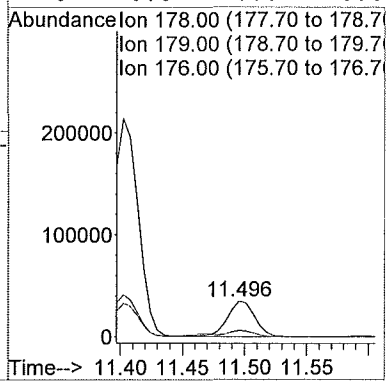


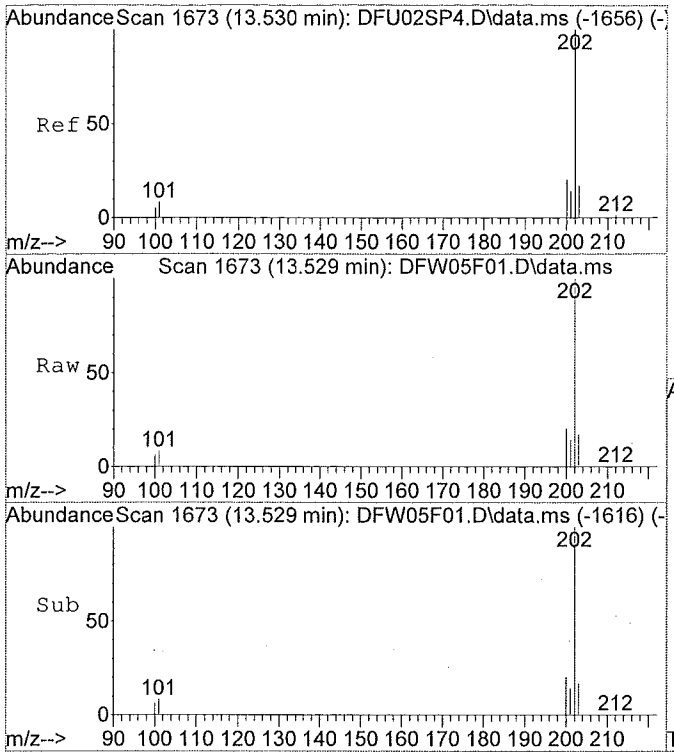


#12
Anthracene
Concen: 0.08 ug/ml
RT: 11.50 min Scan# 1292
Delta R.T. -0.01 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:178 Resp: 53405

Ion	Ratio	Lower	Upper
178	100		
179	14.6	11.6	21.6
176	18.1	13.9	25.7
0	0.0	0.0	0.0

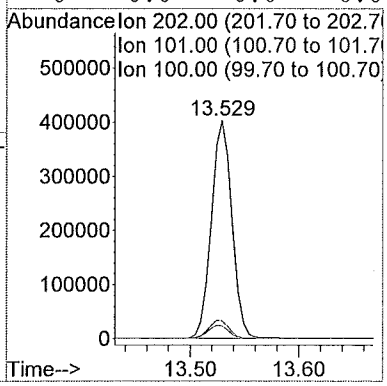


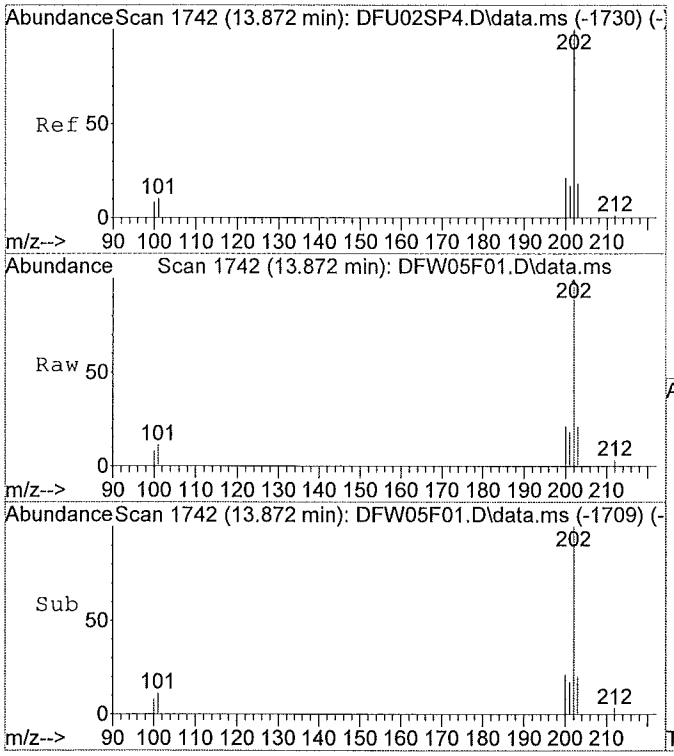


#14
Fluoranthene
Concen: 0.66 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:202 Resp: 531584

Ion	Ratio	Lower	Upper
202	100		
101	8.5	9.4	17.6#
100	6.2	0.0	0.0#
0	0.0	0.0	0.0

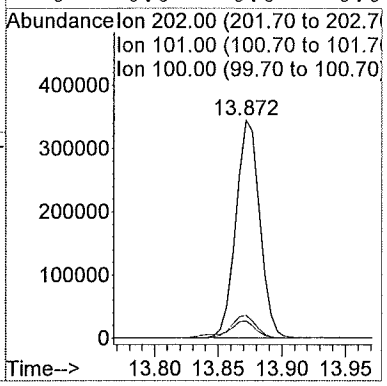


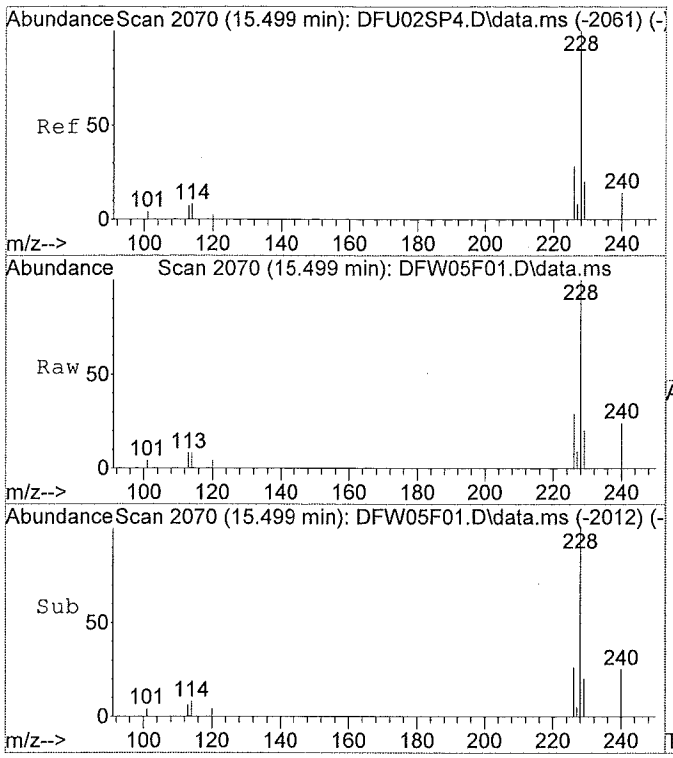


#16
Pyrene
Concen: 0.53 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:202 Resp: 446114

Ion	Ratio	Lower	Upper
202	100		
101	10.9	10.6	19.6
100	9.5	9.4	17.4
0	0.0	0.0	0.0

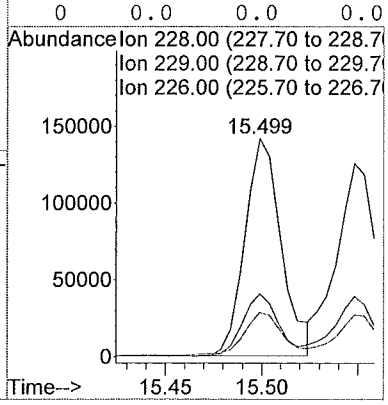


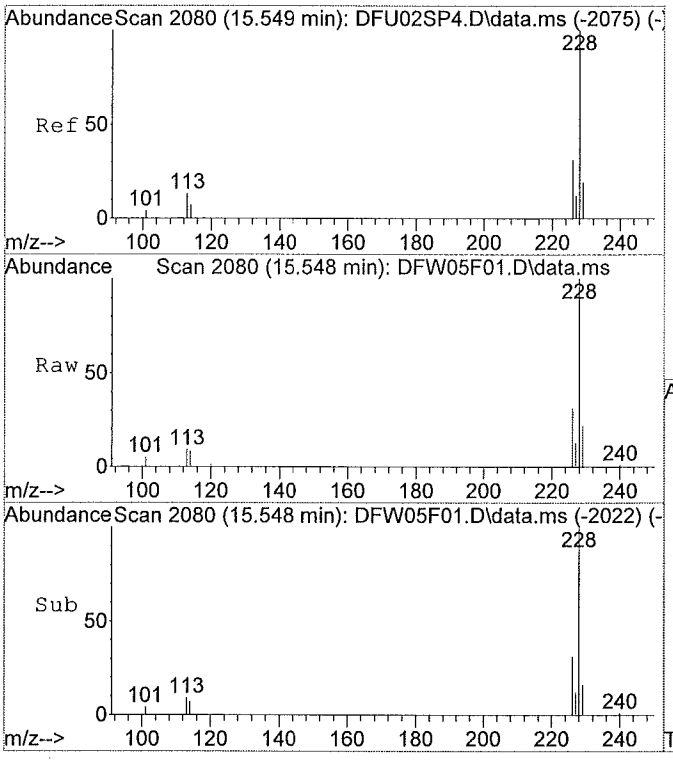


#17
Benzo(a)anthracene
Concen: 0.26 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:228 Resp: 186864

Ion	Ratio	Lower	Upper
228	100		
229	20.9	14.5	26.9
226	27.7	18.5	34.3
0	0.0	0.0	0.0

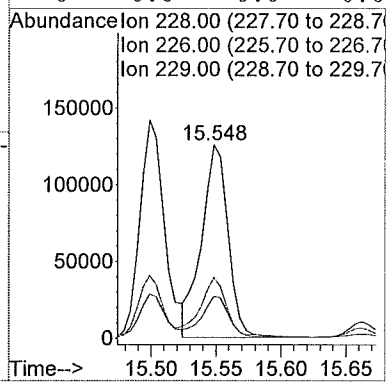


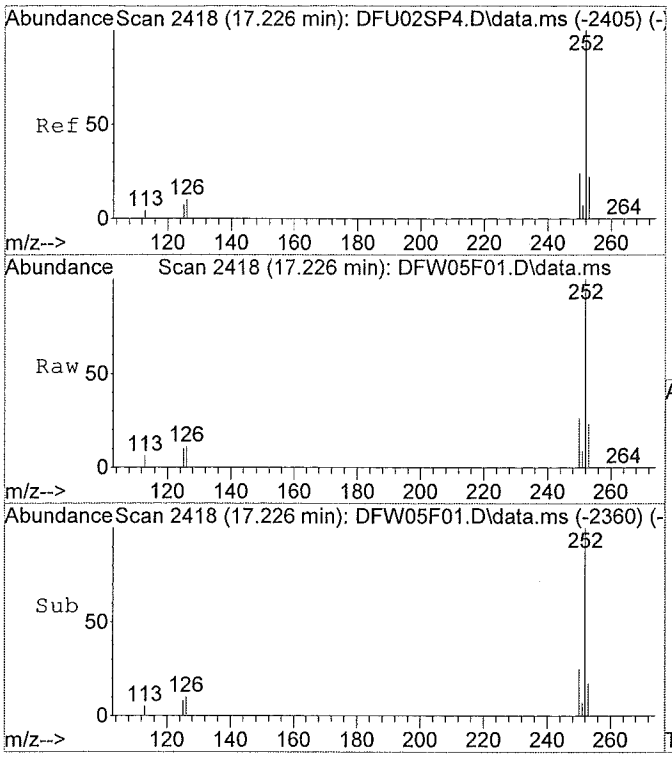


#18
Chrysene
Concen: 0.24 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:228 Resp: 179398

Ion	Ratio	Lower	Upper
228	100		
226	31.5	19.7	36.7
229	22.2	14.5	26.9
0	0.0	0.0	0.0

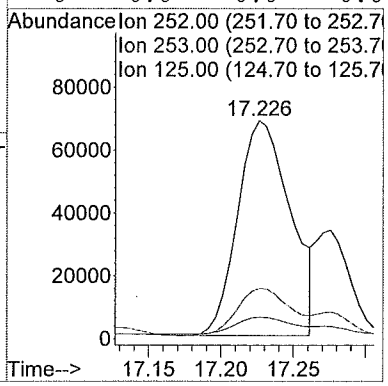


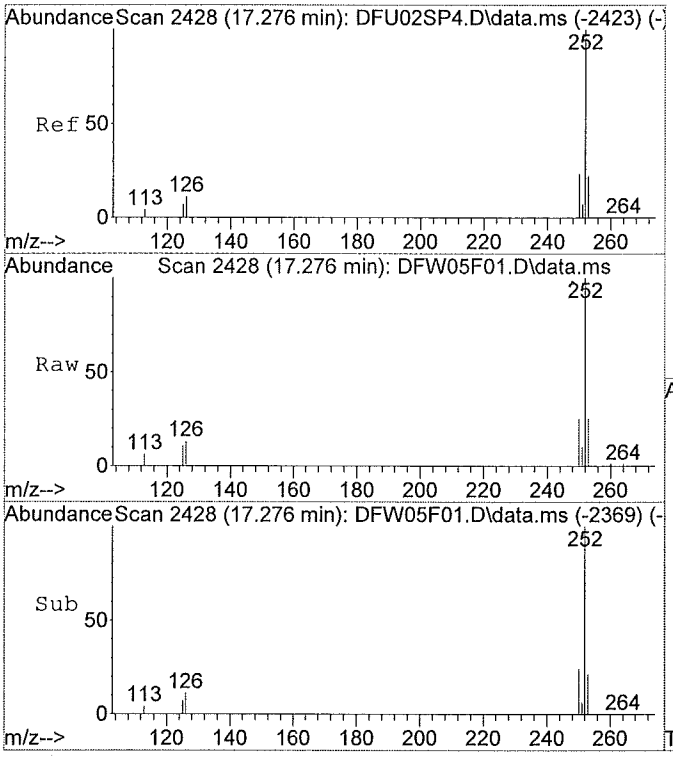


#20
Benzo(b)fluoranthene
Concen: 0.22 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:252 Resp: 174115

Ion	Ratio	Lower	Upper
252	100		
253	21.9	15.3	28.3
125	8.4	0.0	0.0#
0	0.0	0.0	0.0

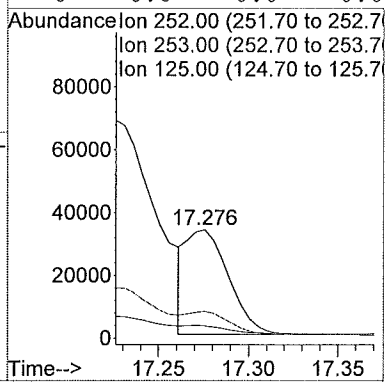


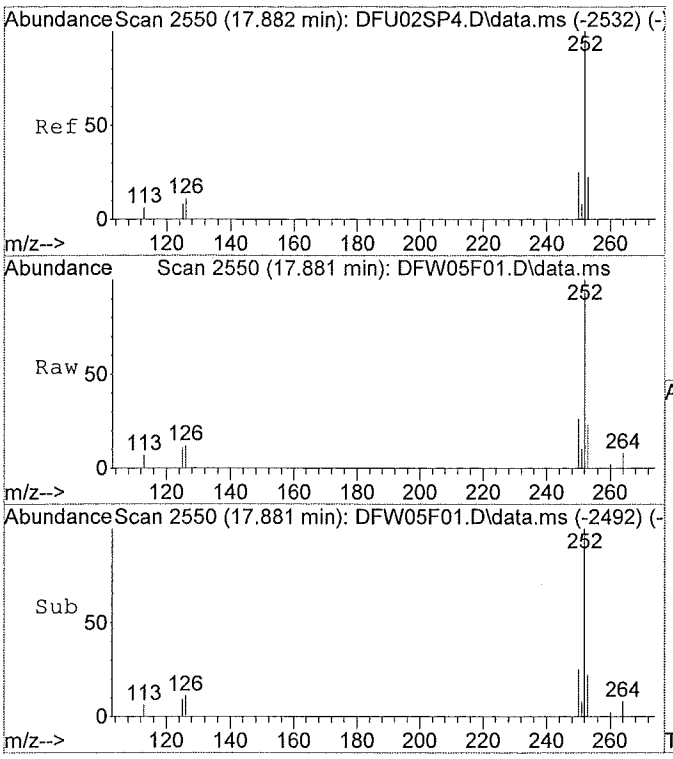


#21
Benzo(k)fluoranthene
Concen: 0.07 ug/ml m
RT: 17.28 min Scan# 2428
Delta R.T. -0.00 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:252 Resp: 54967

Ion	Ratio	Lower	Upper
252	100		
253	69.5	15.0	27.8#
125	26.6	0.0	0.0#
0	0.0	0.0	0.0

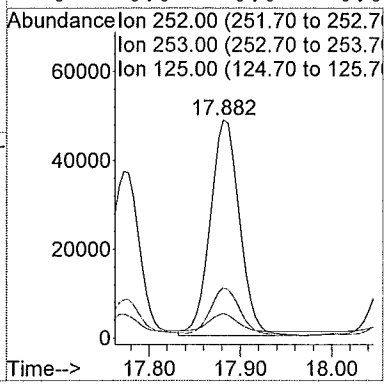


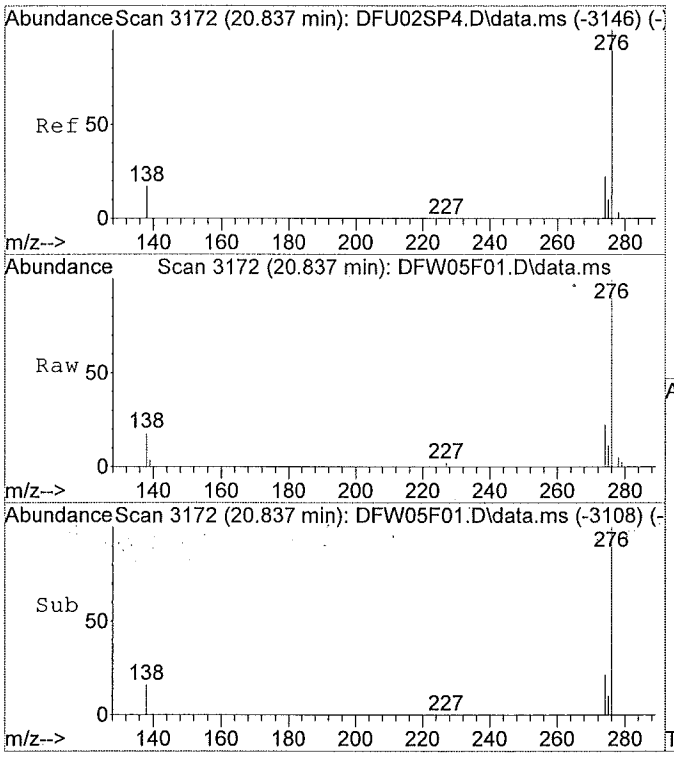


#22
Benzo(a)pyrene
Concen: 0.14 ug/ml
RT: 17.88 min Scan# 2550
Delta R.T. -0.01 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:252 Resp: 108575

Ion	Ratio	Lower	Upper
252	100		
253	21.8	15.0	27.8
125	8.2	0.0	0.0#
0	0.0	0.0	0.0

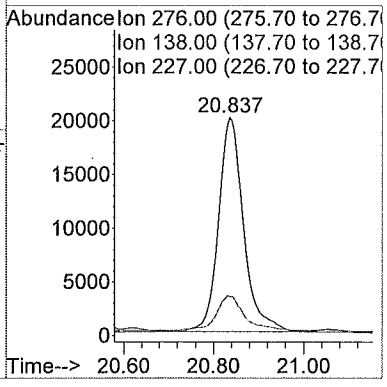


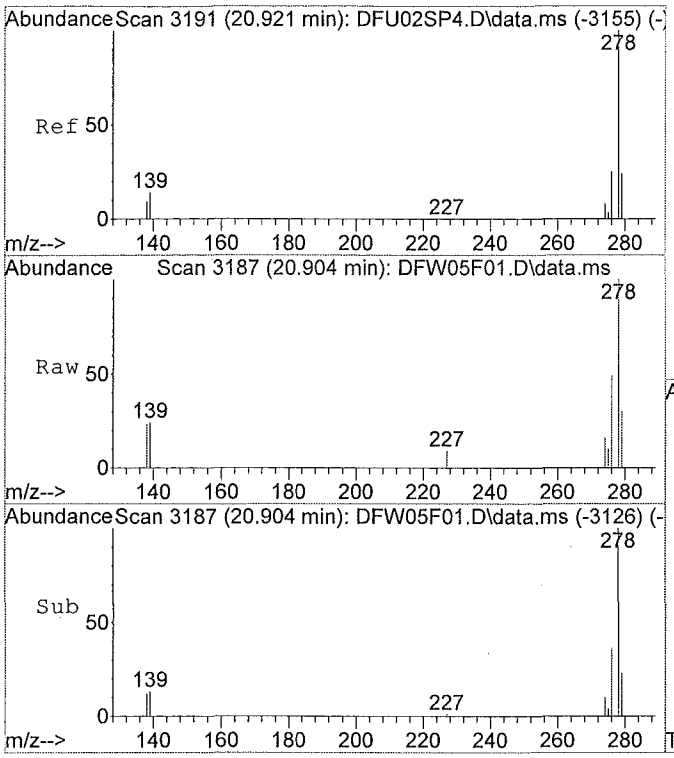


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.11 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:276 Resp: 76099

Ion	Ratio	Lower	Upper
276	100		
138	18.2	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

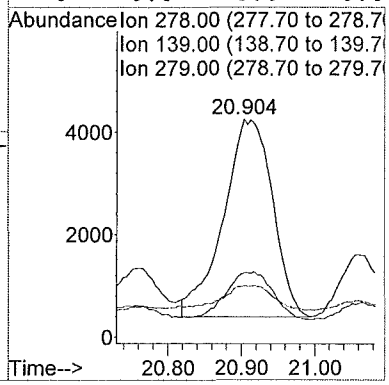


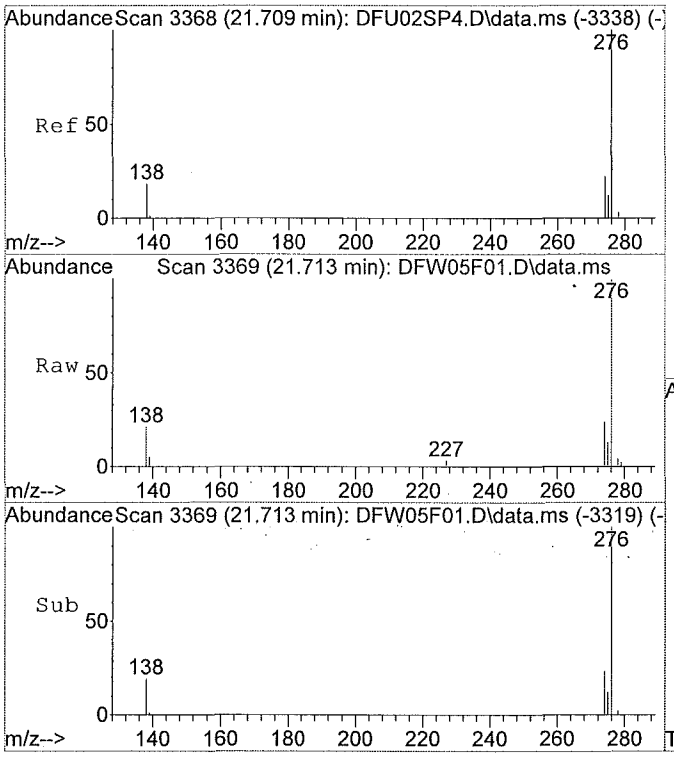


#24
Dibenzo(a,h)anthracene
Concen: 0.02 ug/ml
RT: 20.90 min Scan# 3187
Delta R.T. -0.03 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:278 Resp: 17828

Ion	Ratio	Lower	Upper
278	100		
139	12.9	0.0	0.0#
279	23.1	15.8	29.3
0	0.0	0.0	0.0

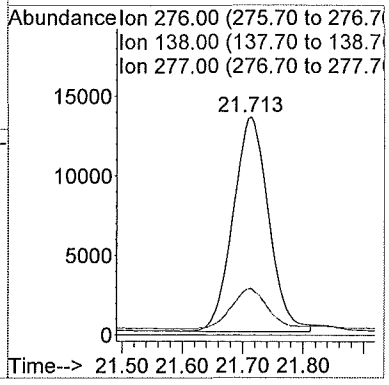




#25
Benzo(g,h,i)perylene
Concen: 0.07 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DFW05F01.D
Acq: 06/08/2015 16:23

Tgt Ion:276 Resp: 54765

Ion	Ratio	Lower	Upper
276	100		
138	18.7	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L59

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFW06F02

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	19.	U
91-57-6	2-Methylnaphthalene	19.	U
208-96-8	Acenaphthylene	19.	U
83-32-9	Acenaphthene	19.	U
86-73-7	Fluorene	19.	U
87-86-5	Pentachlorophenol	39.	U
85-01-8	Phenanthrene	19.	U
120-12-7	Anthracene	19.	U
206-44-0	Fluoranthene	19.	U
129-00-0	Pyrene	4.0	J
56-55-3	Benzo(a)anthracene	19.	U
218-01-9	Chrysene	19.	U
205-99-2	Benzo(b)fluoranthene	4.2	J
207-08-9	Benzo(k)fluoranthene	19.	U
50-32-8	Benzo(a)pyrene	19.	U
193-39-5	Indeno(1,2,3-cd)pyrene	19.	U
53-70-3	Dibenzo(a,h)anthracene	19.	U
191-24-2	Benzo(g,h,i)perylene	19.	U

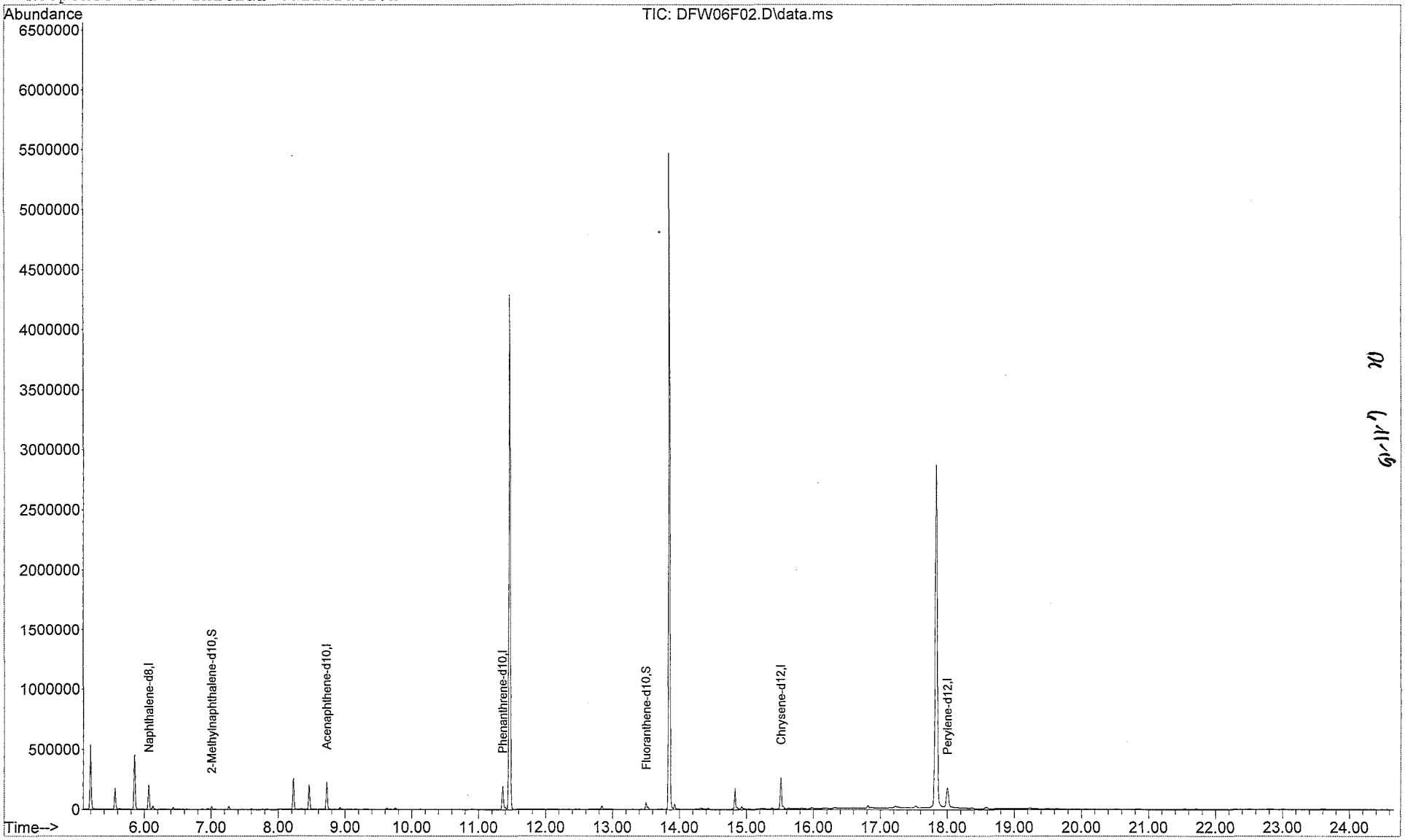
Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW06F02.D
Acq On : 06/08/2015 16:53
Sample : 1514293002 F9L59 (5)
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 5
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:52:31 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

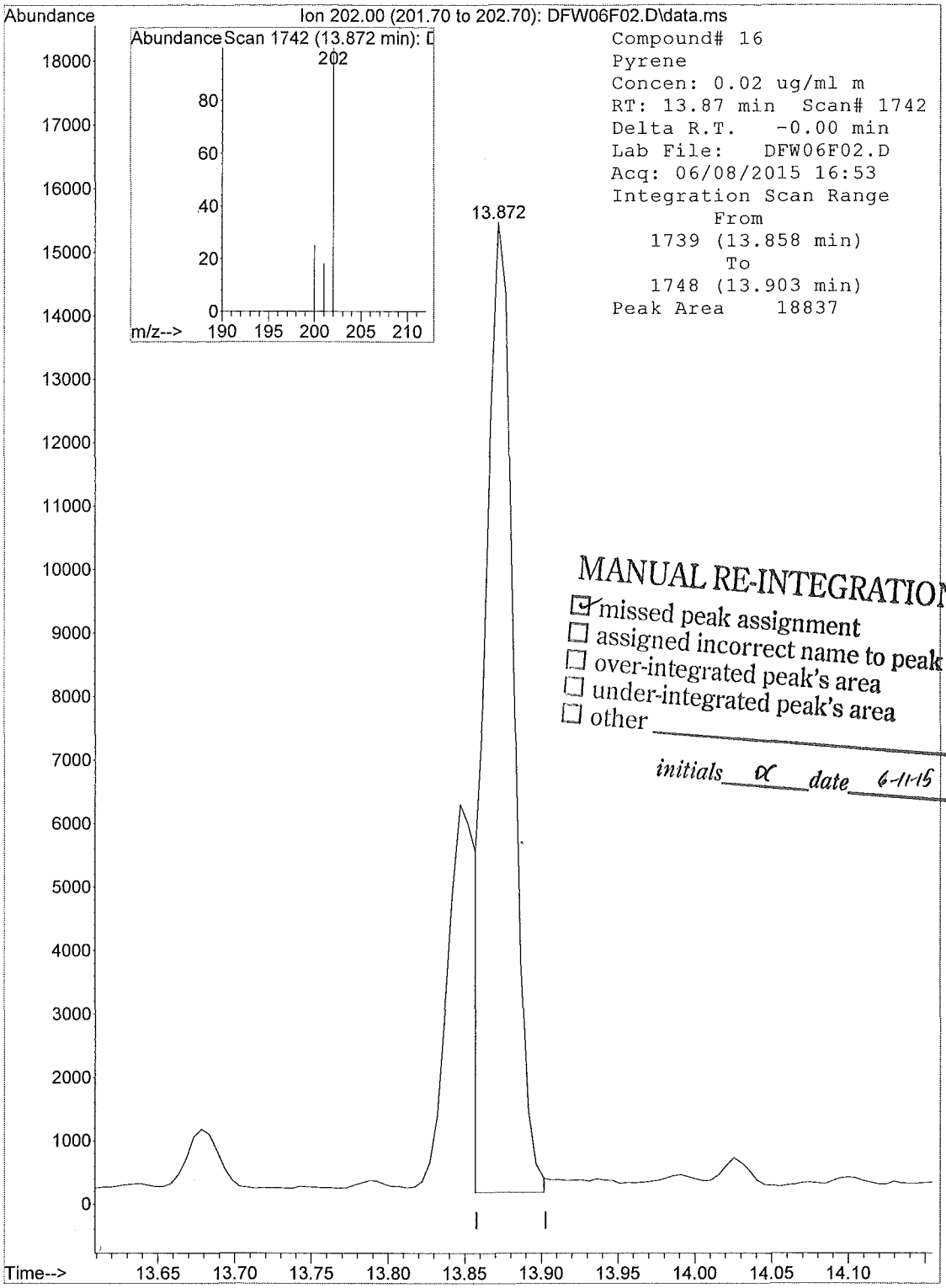
Data File : Z:\D\2015\JUN15\08JUN15\DFW06F02.D Vial: 5
Acq On : 06/08/2015 16:53 Operator: DJC
Sample : 1514293002 F9L59 (5) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:52:31 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.07	136	230524	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	152559	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	278659	0.40 ug/ml	
15) Chrysene-d12	15.51	240	292356	0.40 ug/ml	
19) Perylene-d12	18.00	264	300653	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	25946	0.070ug/mL	
13) Fluoranthene-d10	13.50	212	62843	0.082ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	0.00	178		Not Detected	
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	0.00	202		Not Detected	
16) Pyrene	13.87	202	18837	0.021ug/ml m	1
17) Benzo(a)anthracene	0.00	228		Not Detected DC 6-11-15	
18) Chrysene	0.00	228		Not Detected	
20) Benzo(b)fluoranthene	17.22	252	20340	0.022ug/ml	98
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	0.00	252		Not Detected	
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

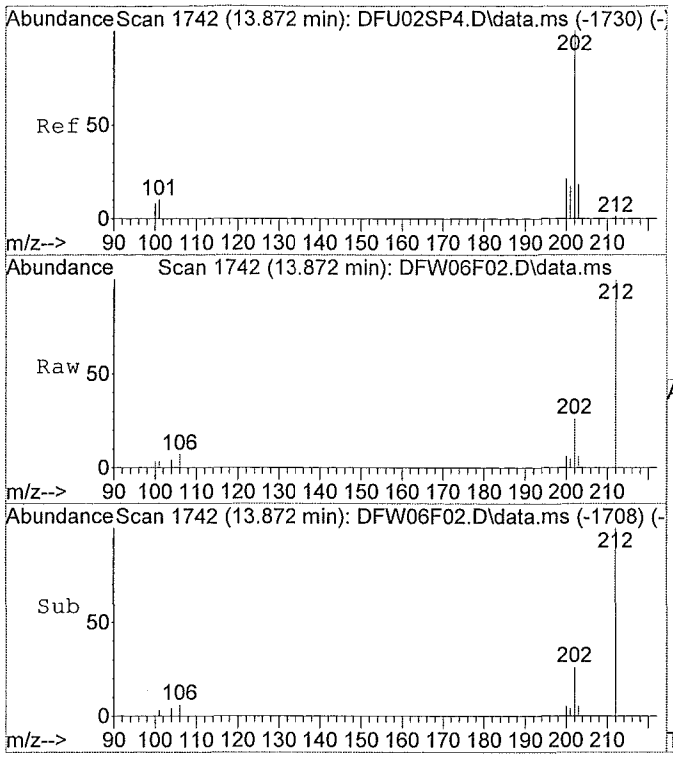
M A N U A L I N T E G R A T I O N FOR Pyrene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

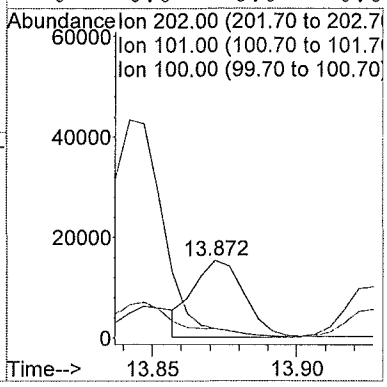
initials DC *date* 6-11-15

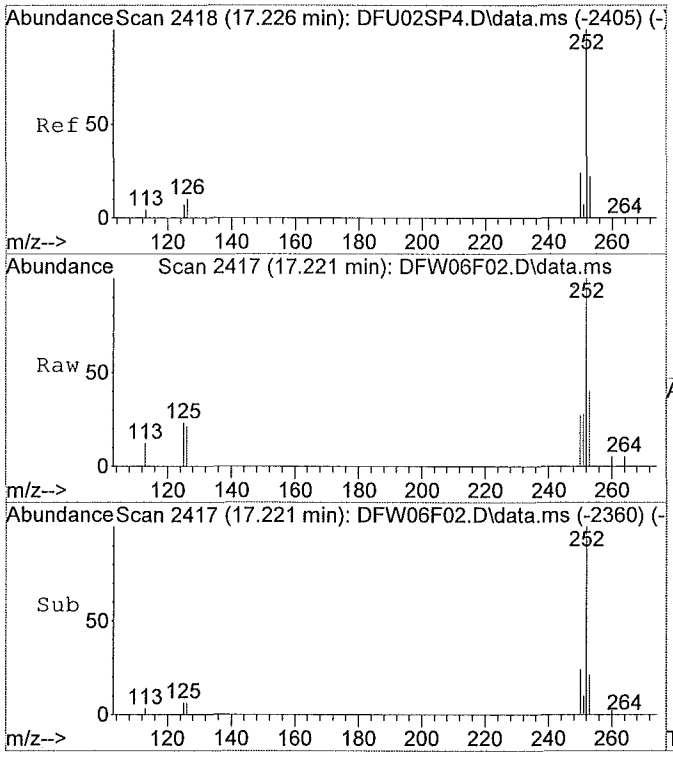


#16
Pyrene
Concen: 0.02 ug/ml m
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFW06F02.D
Acq: 06/08/2015 16:53

Tgt Ion:202 Resp: 18837

Ion	Ratio	Lower	Upper
202	100		
101	67.0	10.6	19.6#
100	343.9	9.4	17.4#
0	0.0	0.0	0.0

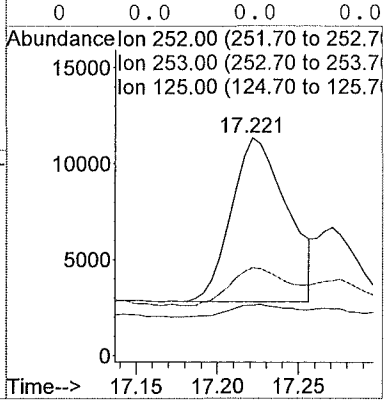




#20
Benzo(b)fluoranthene
Concen: 0.02 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFW06F02.D
Acq: 06/08/2015 16:53

Tgt Ion:252 Resp: 20340

Ion	Ratio	Lower	Upper
252	100		
253	22.7	15.3	28.3
125	7.7	0.0	0.0#
0	0.0	0.0	0.0



1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L60

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293003

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFW07F03

Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.2	J
91-57-6	2-Methylnaphthalene	0.82	J
208-96-8	Acenaphthylene	2.0	J
83-32-9	Acenaphthene	4.1	U
86-73-7	Fluorene	4.1	U
87-86-5	Pentachlorophenol	1.0	J
85-01-8	Phenanthrene	3.1	J
120-12-7	Anthracene	2.0	J
206-44-0	Fluoranthene	9.6	
129-00-0	Pyrene	12.	
56-55-3	Benzo(a)anthracene	7.9	
218-01-9	Chrysene	10.	
205-99-2	Benzo(b)fluoranthene	12.	
207-08-9	Benzo(k)fluoranthene	3.3	J
50-32-8	Benzo(a)pyrene	6.0	
193-39-5	Indeno(1,2,3-cd)pyrene	6.9	
53-70-3	Dibenzo(a,h)anthracene	1.5	J
191-24-2	Benzo(g,h,i)perylene	4.1	

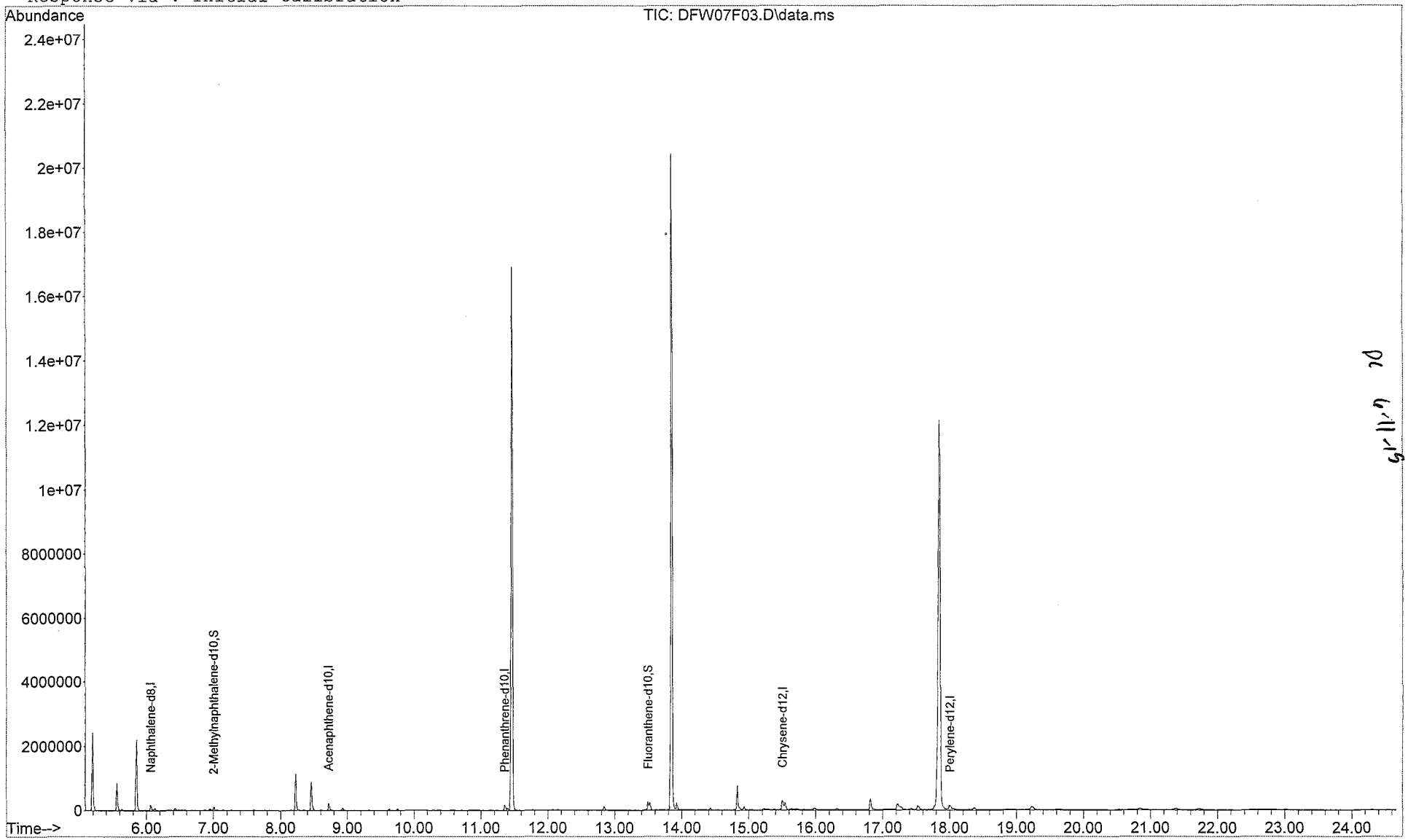
Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW07F03.D
Acq On : 06/08/2015 17:24
Sample : 1514293003 F9L60
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 6
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:53:36 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW07F03.D Vial: 6
Acq On : 06/08/2015 17:24 Operator: DJC
Sample : 1514293003 F9L60 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:53:36 2015 Results File: DSOM_SIMJ2.RES

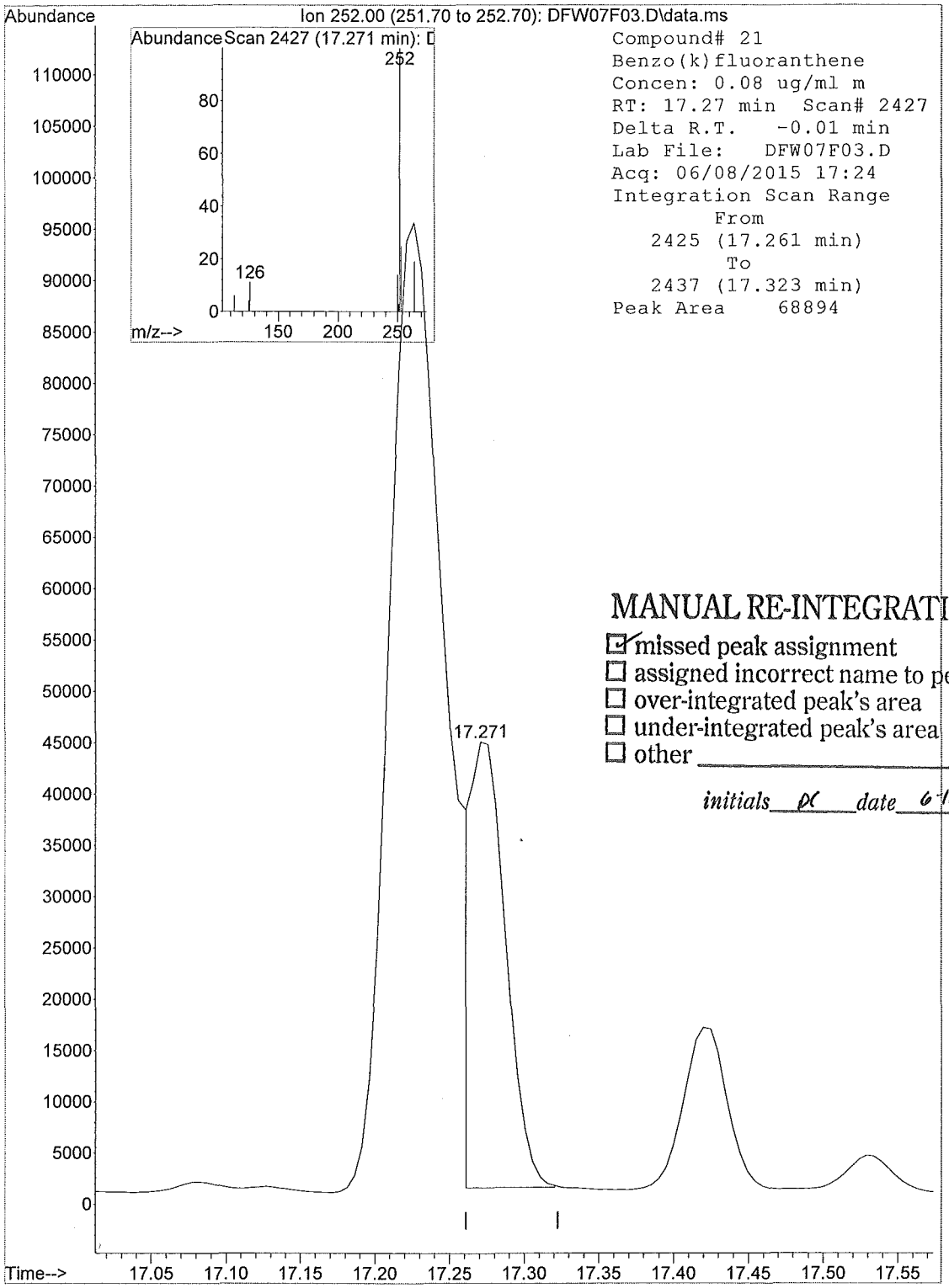
Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Qvalue
1) Naphthalene-d8	6.07	136	198011	0.40	ug/ml		
5) Acenaphthene-d10	8.72	164	144369	0.40	ug/ml		
9) Phenanthrene-d10	11.36	188	236634	0.40	ug/ml		
15) Chrysene-d12	15.51	240	249554	0.40	ug/ml		
19) Perylene-d12	18.01	264	267360	0.40	ug/ml		
System Monitoring Compounds							
3) 2-Methylnaphthalene-d10	7.01	152	111254	0.348	ug/mL		
13) Fluoranthene-d10	13.50	212	276584	0.427	ug/mL		
Target Compounds							Qvalue
2) Naphthalene	6.09	128	14909	0.029	ug/ml		96
4) 2-Methylnaphthalene	7.05	142	6693	0.020	ug/ml		95
6) Acenaphthylene	8.49	152	30916	0.049	ug/ml		85
7) Acenaphthene	0.00	153		Not Detected			
8) Fluorene	0.00	166		Not Detected			
10) Pentachlorophenol	11.02	266	891	0.025	ug/ml		100
11) Phenanthrene	11.40	178	51214	0.075	ug/ml		95
12) Anthracene	11.50	178	32059	0.048	ug/ml		95
14) Fluoranthene	13.53	202	181011	0.233	ug/ml		98
16) Pyrene	13.88	202	226978	0.290	ug/ml		1
17) Benzo(a)anthracene	15.50	228	128638	0.193	ug/ml		92
18) Chrysene	15.55	228	174292	0.248	ug/ml		96
20) Benzo(b)fluoranthene	17.23	252	245431	0.295	ug/ml		100
21) Benzo(k)fluoranthene	17.27	252	68894	0.080	ug/ml	m	99
22) Benzo(a)pyrene	17.89	252	116602	0.146	ug/ml		94
23) Indeno(1,2,3-c,d)pyrene	20.84	276	117765	0.169	ug/ml		100
24) Dibenzo(a,h)anthracene	20.91	278	27850	0.036	ug/ml		97
25) Benzo(g,h,i)perylene	21.72	276	78714	0.100	ug/ml		50

pf 6-11-15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

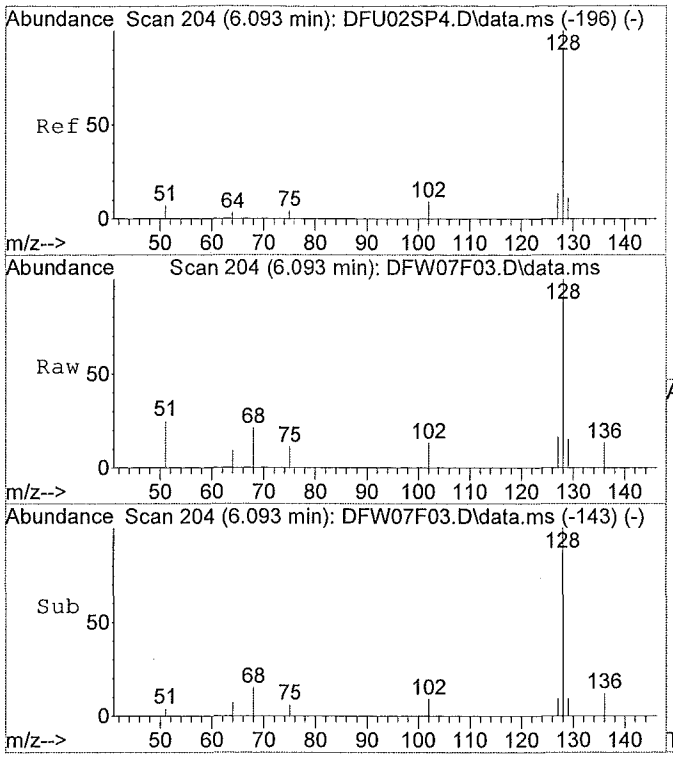
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

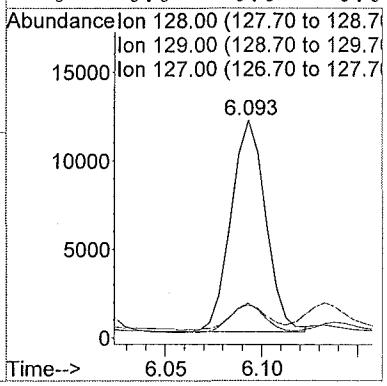
initials DC *date* 6-11-15

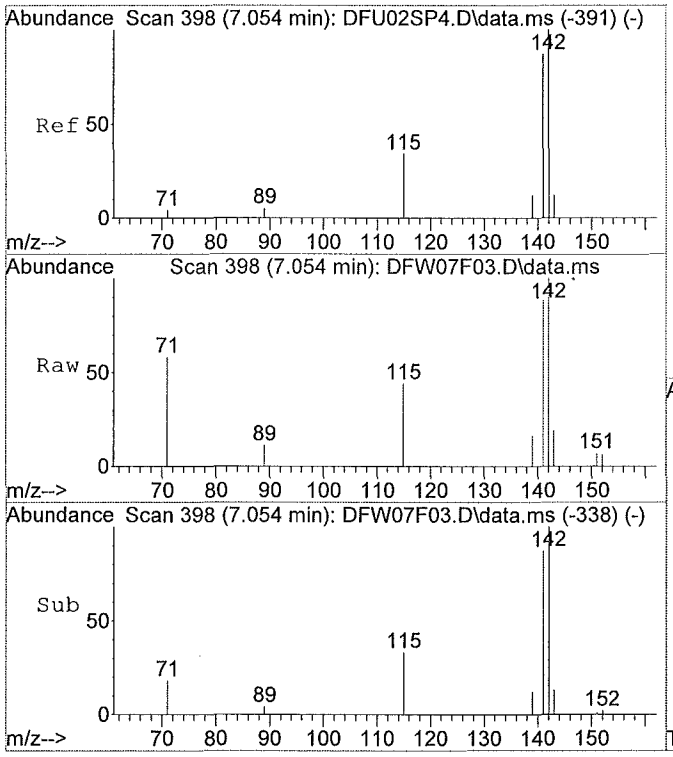


#2
Naphthalene
Concen: 0.03 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:128 Resp: 14909

Ion	Ratio	Lower	Upper
128	100		
129	11.9	0.0	0.0#
127	14.1	11.1	20.5
0	0.0	0.0	0.0

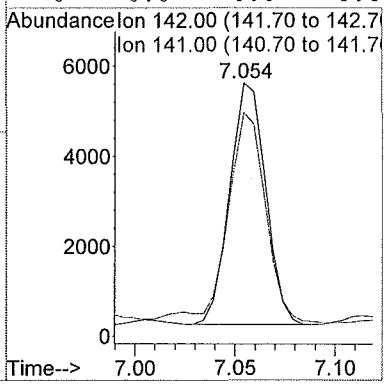


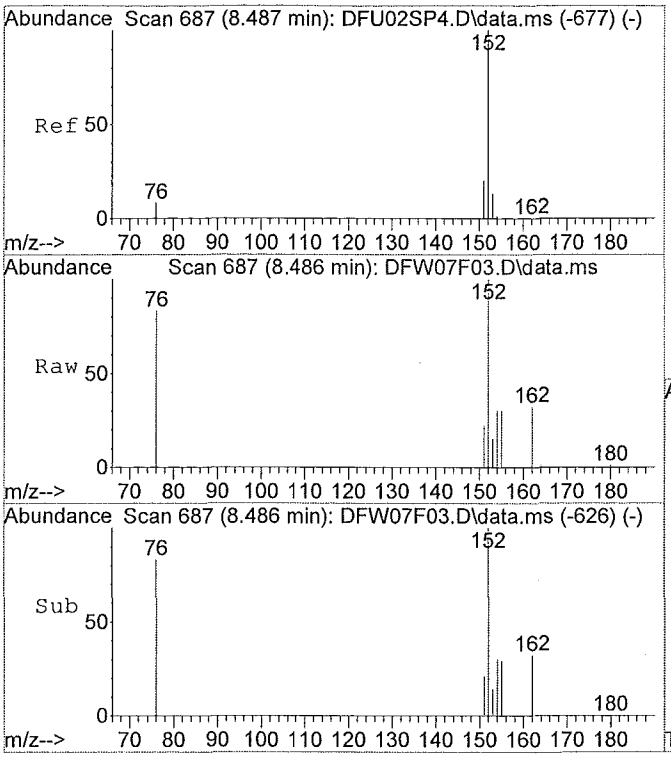


#4
2-Methylnaphthalene
Concen: 0.02 ug/ml
RT: 7.05 min Scan# 398
Delta R.T. -0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:142 Resp: 6693

Ion	Ratio	Lower	Upper
142	100		
141	92.1	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

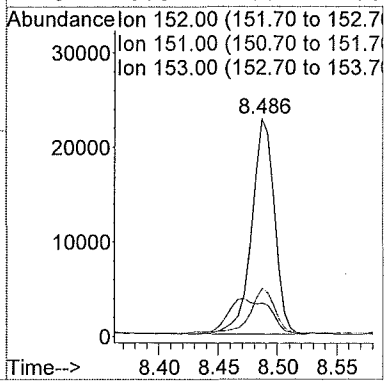


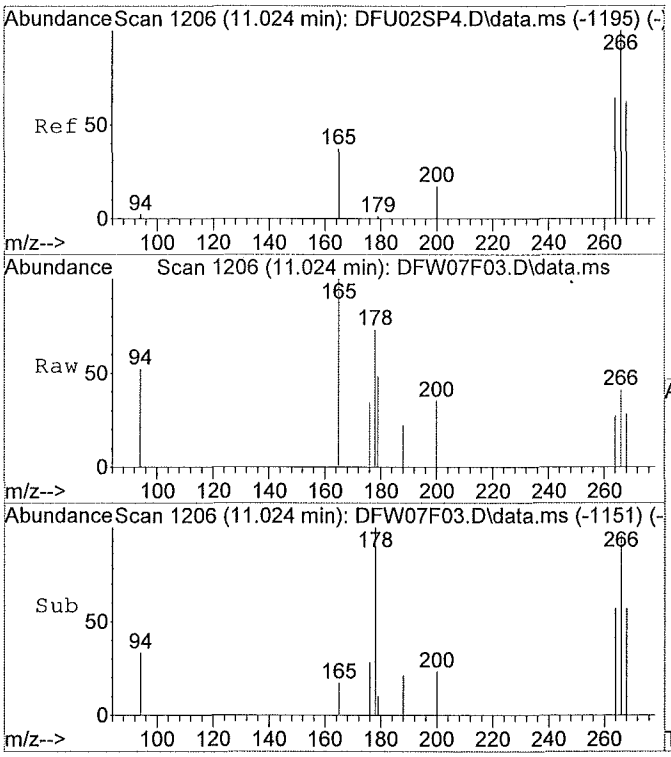


#6
Acenaphthylene
Concen: 0.05 ug/ml
RT: 8.49 min Scan# 687
Delta R.T. 0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:152 Resp: 30916

Ion	Ratio	Lower	Upper
152	100		
151	22.1	15.5	28.7
153	29.0	8.8	16.4#
0	0.0	0.0	0.0

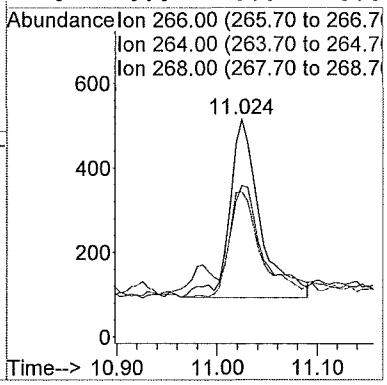


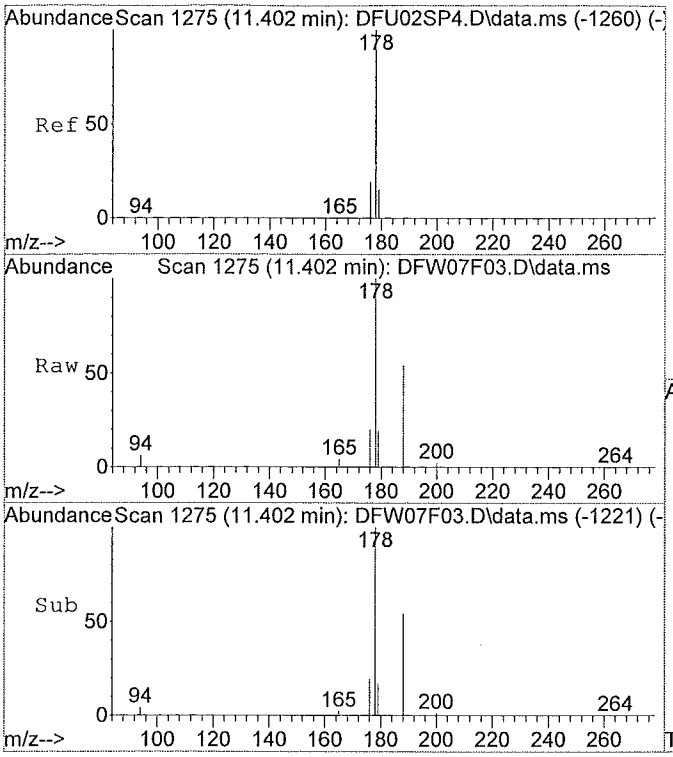


#10
Pentachlorophenol
Concen: 0.03 ug/ml
RT: 11.02 min Scan# 1206
Delta R.T. 0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:266 Resp: 891

Ion	Ratio	Lower	Upper
266	100		
264	59.9	0.0	0.0#
268	54.1	0.0	0.0#
0	0.0	0.0	0.0

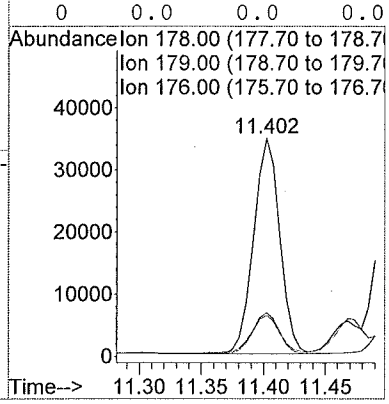


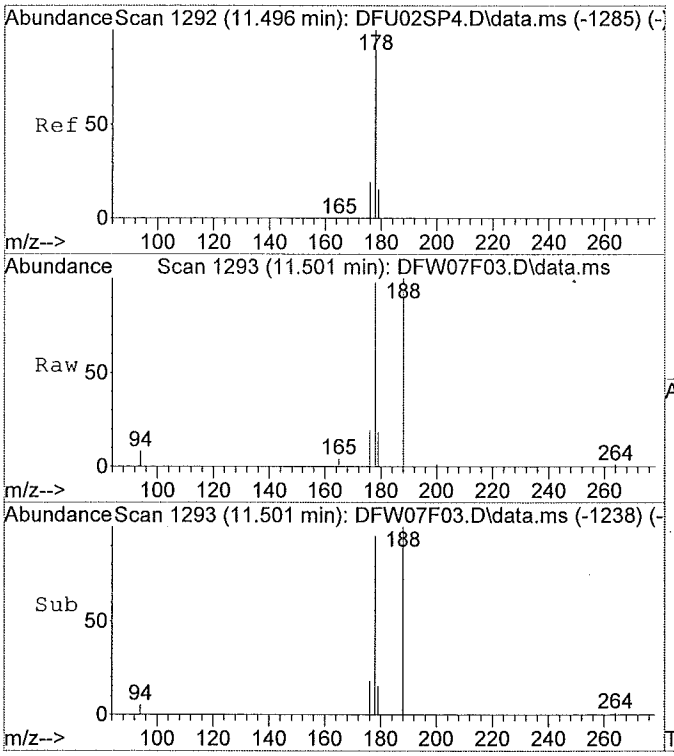


#11
Phenanthrene
Concen: 0.08 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:178 Resp: 51214

Ion	Ratio	Lower	Upper
178	100		
179	19.6	11.1	20.5
176	18.9	14.1	26.1
0	0.0	0.0	0.0

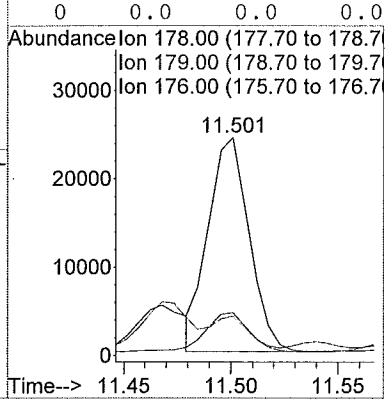


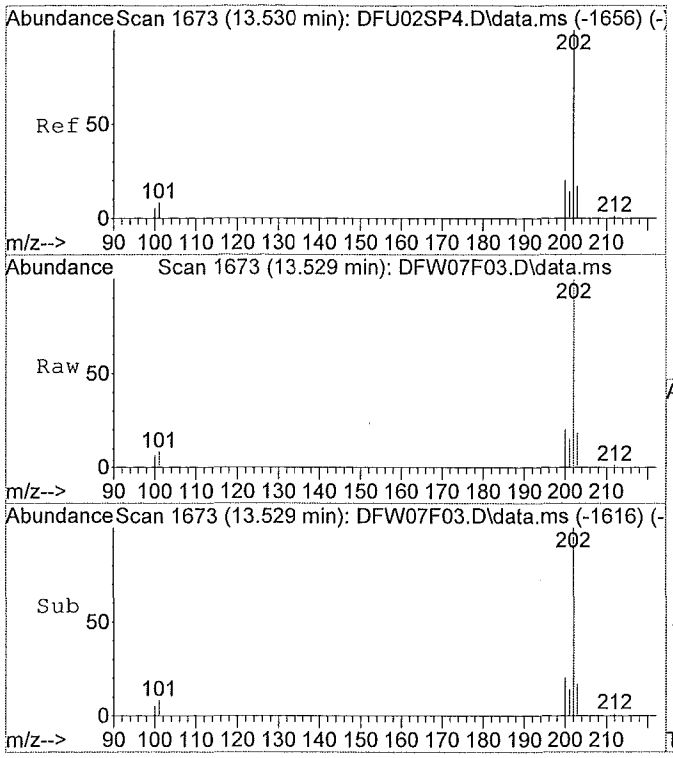


#12
Anthracene
Concen: 0.05 ug/ml
RT: 11.50 min Scan# 1293
Delta R.T. 0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:178 Resp: 32059

Ion	Ratio	Lower	Upper
178	100		
179	11.5	11.6	21.6#
176	19.7	13.9	25.7
0	0.0	0.0	0.0

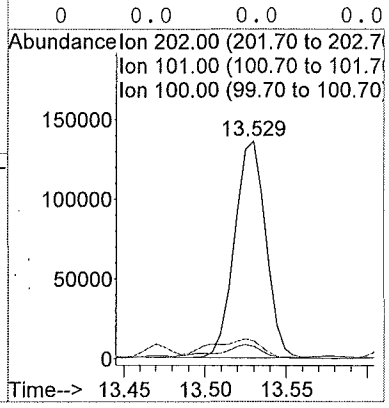


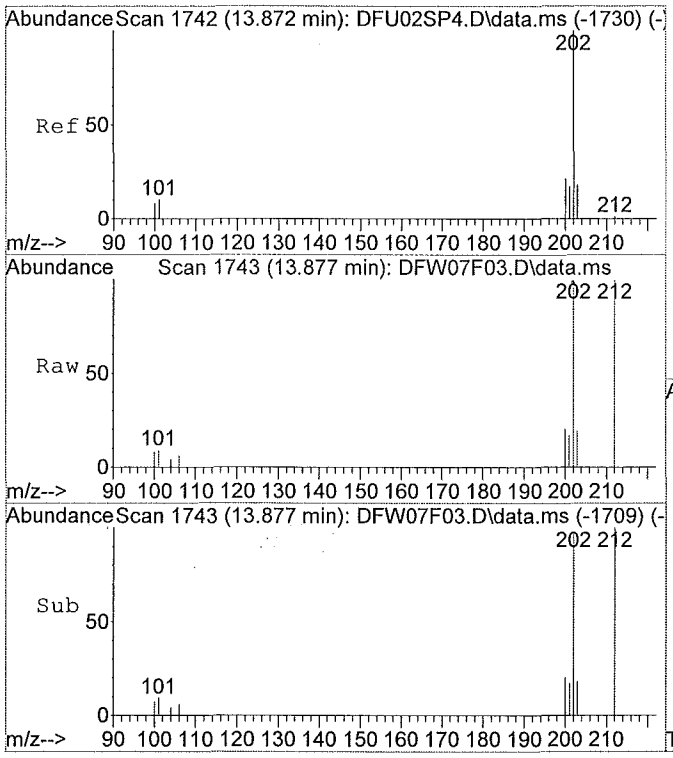


#14
Fluoranthene
Concen: 0.23 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:202 Resp: 181011

Ion	Ratio	Lower	Upper
202	100		
101	14.1	9.4	17.6
100	8.5	0.0	0.0#
0	0.0	0.0	0.0

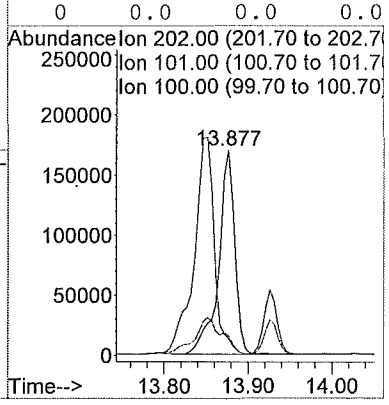


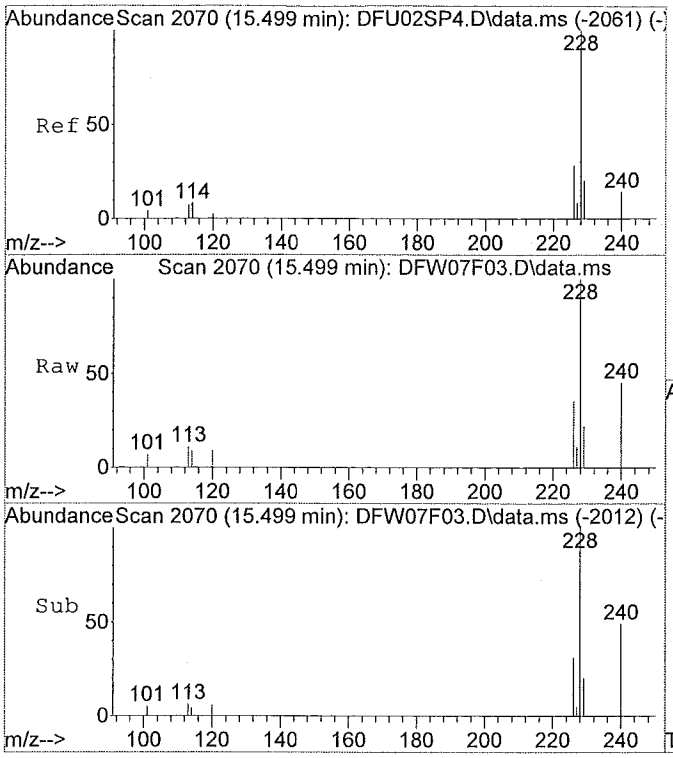


#16
Pyrene
Concen: 0.29 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:202 Resp: 226978

Ion	Ratio	Lower	Upper
202	100		
101	31.9	10.6	19.6#
100	135.1	9.4	17.4#
0	0.0	0.0	0.0

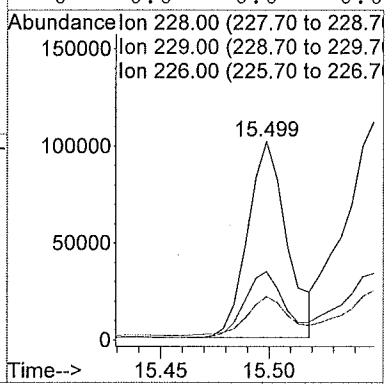


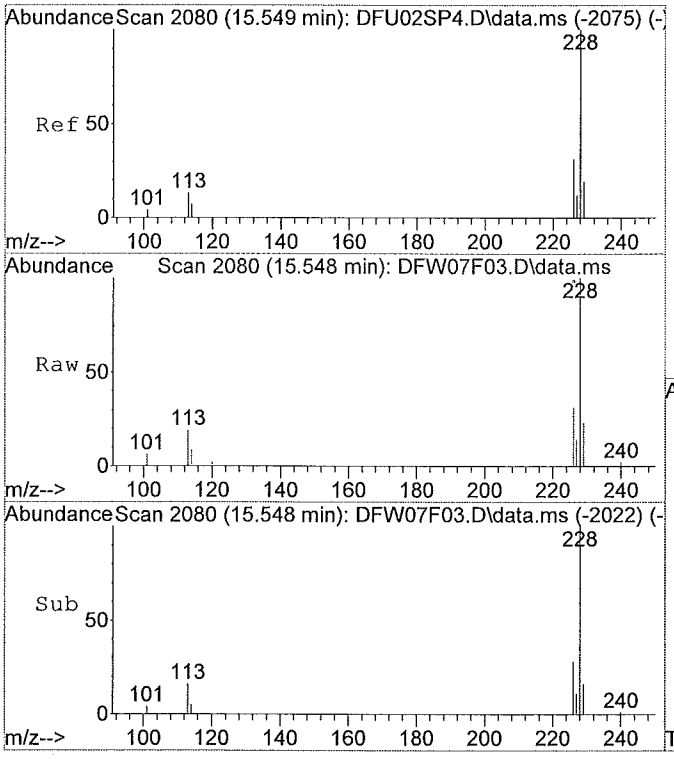


#17
Benzo(a)anthracene
Concen: 0.19 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:228 Resp: 128638

Ion	Ratio	Lower	Upper
228	100		
229	21.0	14.5	26.9
226	33.1	18.5	34.3
0	0.0	0.0	0.0

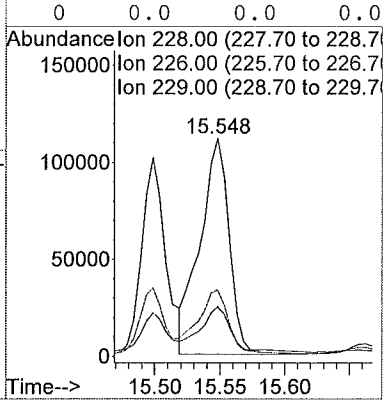


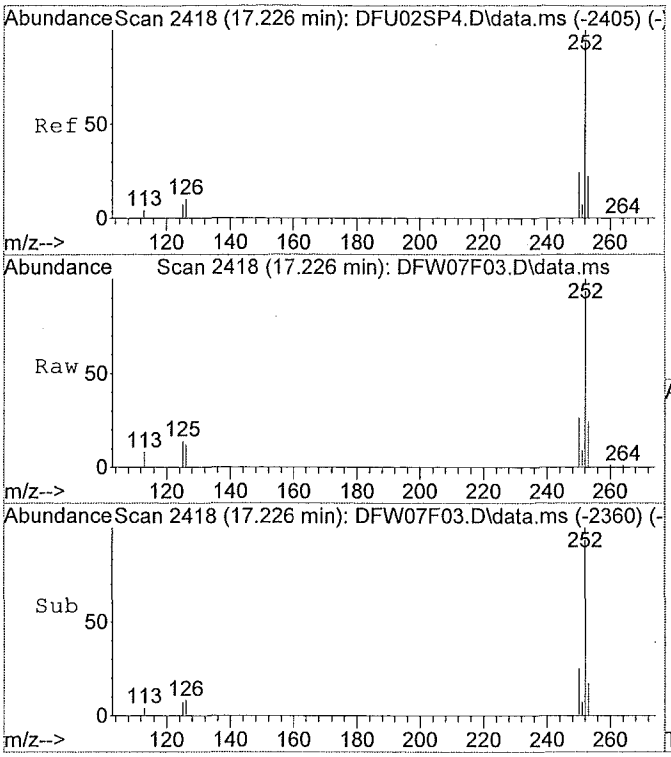


#18
Chrysene
Concen: 0.25 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:228 Resp: 174292

Ion	Ratio	Lower	Upper
228	100		
226	30.7	19.7	36.7
229	19.1	14.5	26.9
0	0.0	0.0	0.0

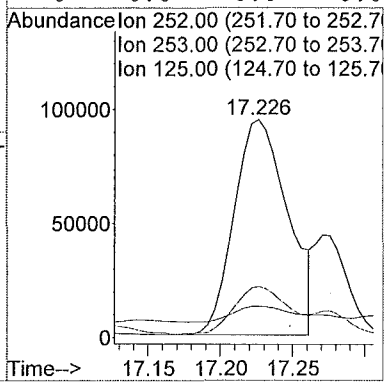


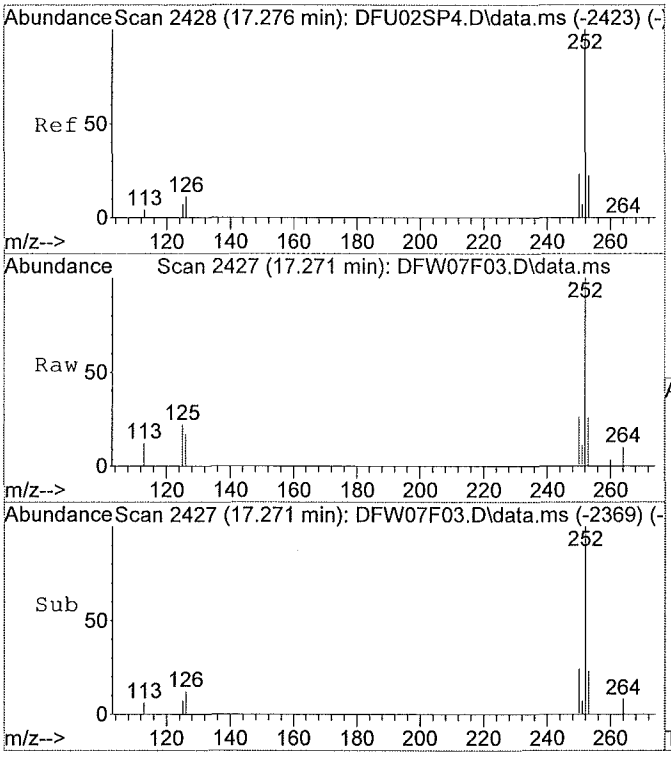


#20
Benzo(b)fluoranthene
Concen: 0.29 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:252 Resp: 245431

Ion	Ratio	Lower	Upper
252	100		
253	22.0	15.3	28.3
125	7.9	0.0	0.0#
0	0.0	0.0	0.0

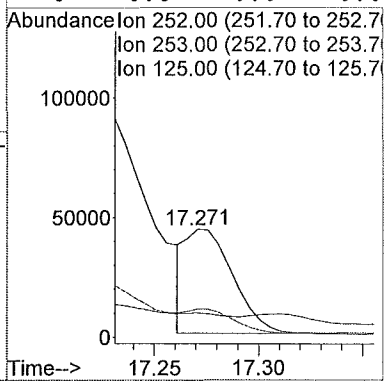


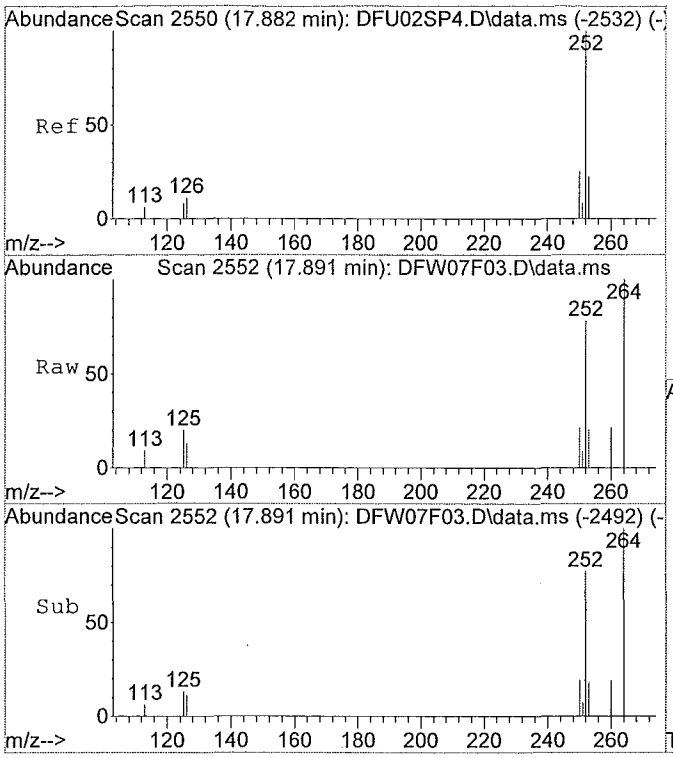


#21
Benzo(k)fluoranthene
Concen: 0.08 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:252 Resp: 68894

Ion	Ratio	Lower	Upper
252	100		
253	78.4	15.0	27.8#
125	28.2	0.0	0.0#
0	0.0	0.0	0.0

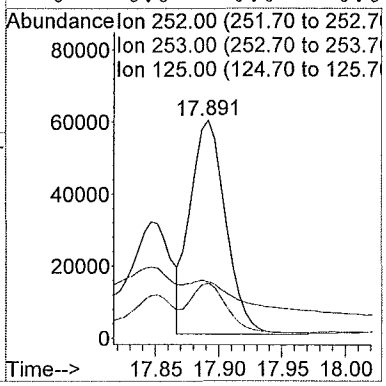


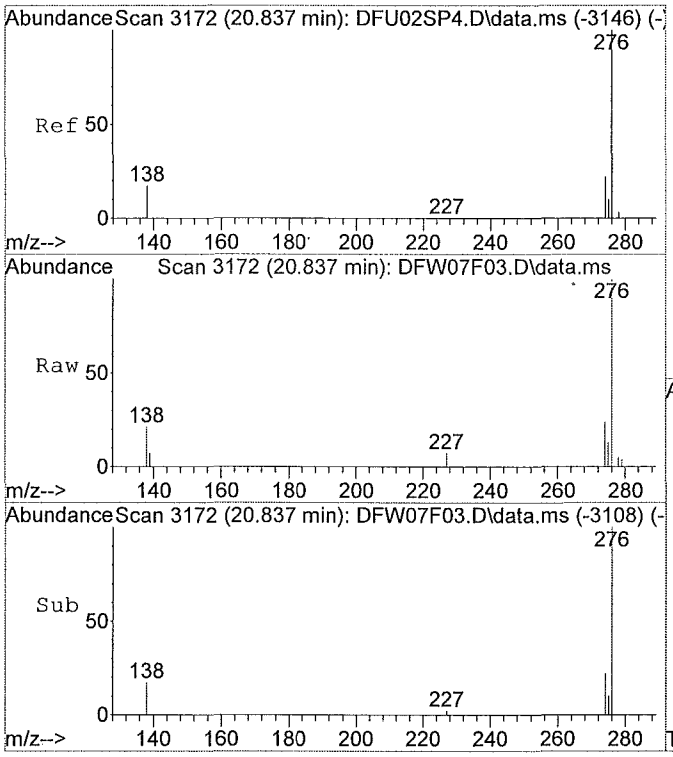


#22
Benzo(a)pyrene
Concen: 0.15 ug/ml
RT: 17.89 min Scan# 2552
Delta R.T. 0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:252 Resp: 116602

Ion	Ratio	Lower	Upper
252	100		
253	24.3	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

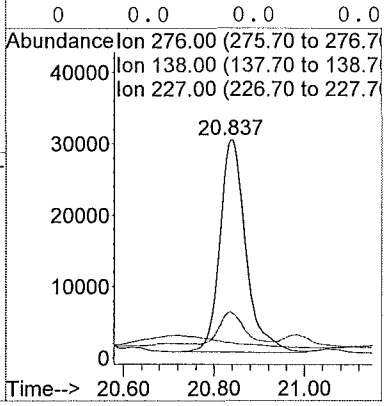


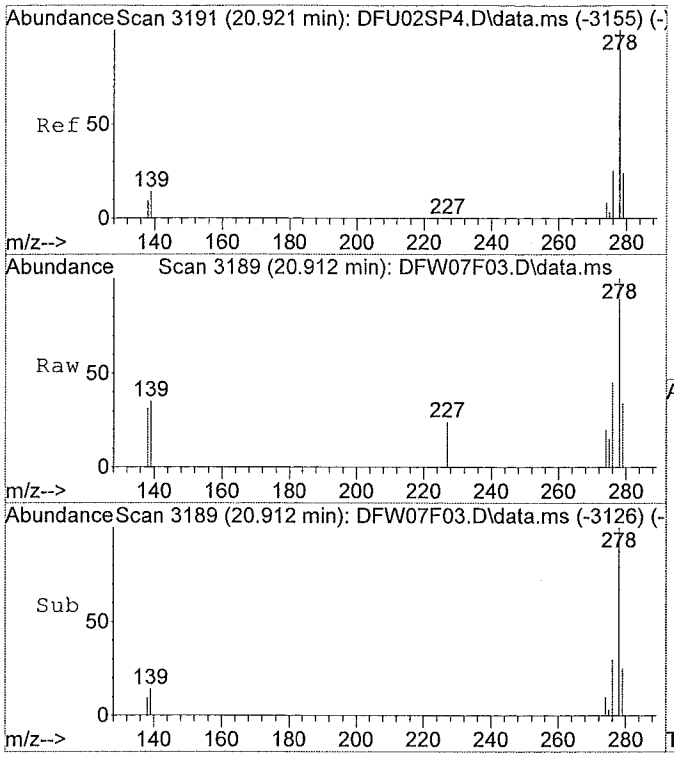


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.17 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:276 Resp: 117765

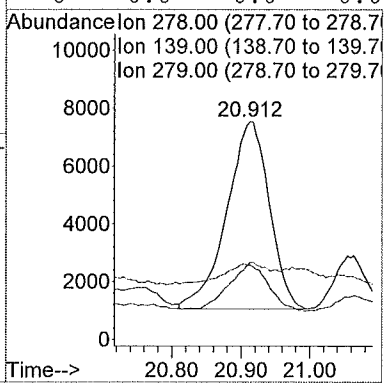
Ion	Ratio	Lower	Upper
276	100		
138	14.8	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

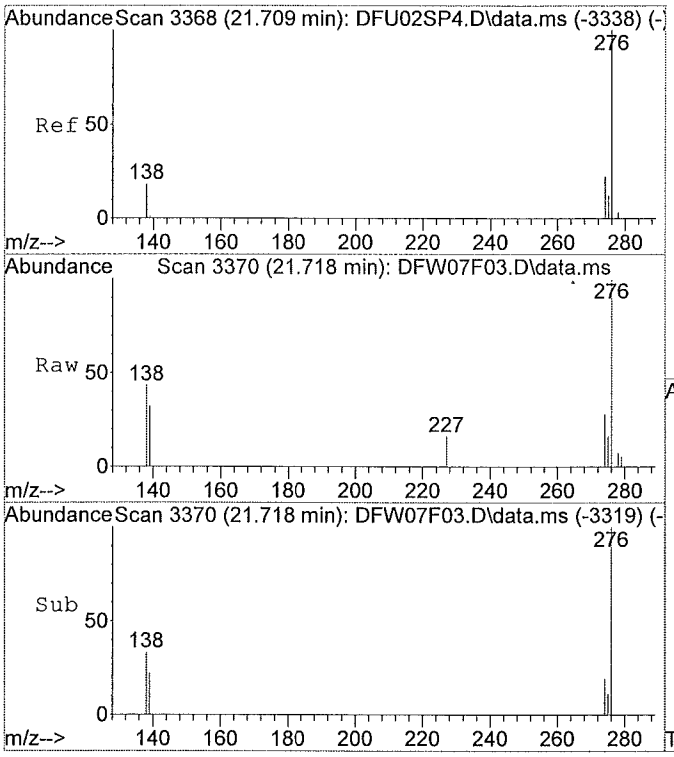




#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.91 min Scan# 3189
Delta R.T. -0.02 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

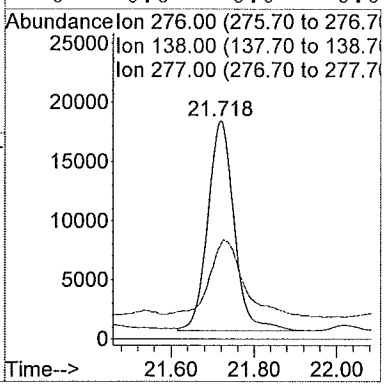
Tgt Ion:278	Resp:	27850	
Ion	Ratio	Lower	Upper
278	100		
139	8.2	0.0	0.0#
279	23.8	15.8	29.3
0	0.0	0.0	0.0





#25
Benzo(g,h,i)perylene
Concen: 0.10 ug/ml
RT: 21.72 min Scan# 3370
Delta R.T. -0.00 min
Lab File: DFW07F03.D
Acq: 06/08/2015 17:24

Tgt Ion:276	Resp:	78714	
Ion	Ratio	Lower	Upper
276	100		
138	48.1	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L61

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293004

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFW08F04

Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

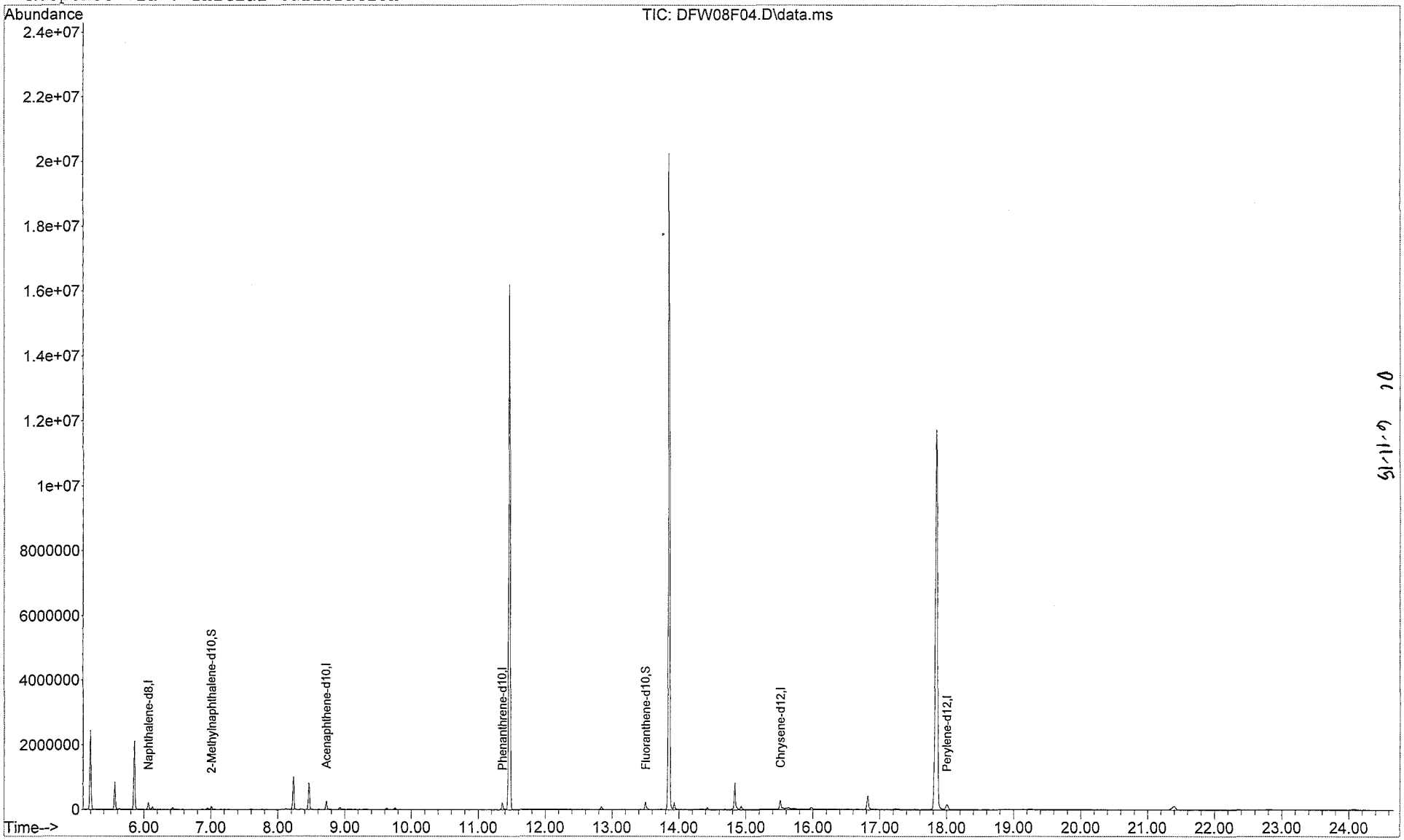
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	0.85	J
91-57-6	2-Methylnaphthalene	0.80	J
208-96-8	Acenaphthylene	3.9	U
83-32-9	Acenaphthene	3.9	U
86-73-7	Fluorene	3.9	U
87-86-5	Pentachlorophenol	7.9	U
85-01-8	Phenanthrene	1.1	J
120-12-7	Anthracene	3.9	U
206-44-0	Fluoranthene	1.5	J
129-00-0	Pyrene	1.5	J
56-55-3	Benzo(a)anthracene	1.2	J
218-01-9	Chrysene	1.2	J
205-99-2	Benzo(b)fluoranthene	1.4	J
207-08-9	Benzo(k)fluoranthene	3.9	U
50-32-8	Benzo(a)pyrene	3.9	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.9	U
53-70-3	Dibenzo(a,h)anthracene	3.9	U
191-24-2	Benzo(g,h,i)perylene	3.9	U

Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW08F04.D Vial: 7
Acq On : 06/08/2015 17:54 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 14:54:39 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

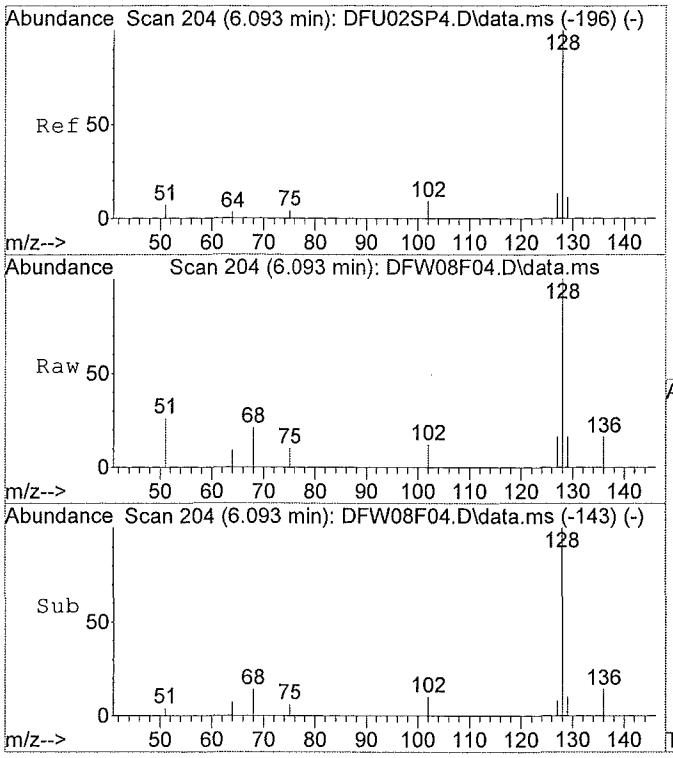
Data File : Z:\D\2015\JUN15\08JUN15\DFW08F04.D Vial: 7
Acq On : 06/08/2015 17:54 Operator: DJC
Sample : 1514293004 F9L61 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:54:39 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	234746	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	166759	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	283417	0.40 ug/ml	
15) Chrysene-d12	15.51	240	293650	0.40 ug/ml	
19) Perylene-d12	18.00	264	309007	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	108586	0.287ug/mL	
13) Fluoranthene-d10	13.50	212	259005	0.334ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	13281	0.022ug/ml	95
4) 2-Methylnaphthalene	7.05	142	8018	0.020ug/ml	97
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	21969	0.027ug/ml	96
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.52	202	35208	0.038ug/ml	95
16) Pyrene	13.88	202	35239	0.038ug/ml	65
17) Benzo(a)anthracene	15.50	228	23310	0.030ug/ml	87
18) Chrysene	15.55	228	26345	0.032ug/ml	85
20) Benzo(b)fluoranthene	17.22	252	33398	0.035ug/ml	98
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	0.00	252		Not Detected	
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

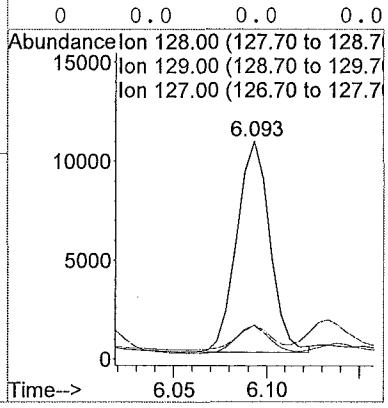
00821

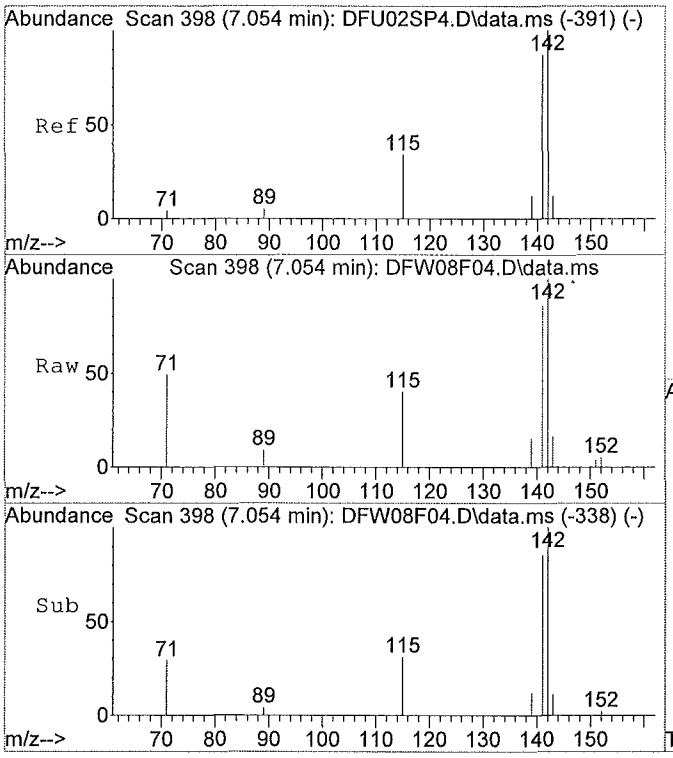


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DFW08F04.D
Acq: 06/08/2015 17:54

Tgt Ion:128 Resp: 13281

Ion	Ratio	Lower	Upper
128	100		
129	13.2	0.0	0.0#
127	13.7	11.1	20.5
0	0.0	0.0	0.0

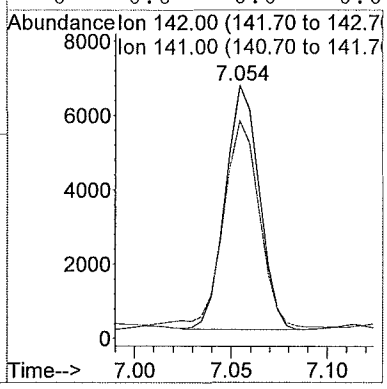


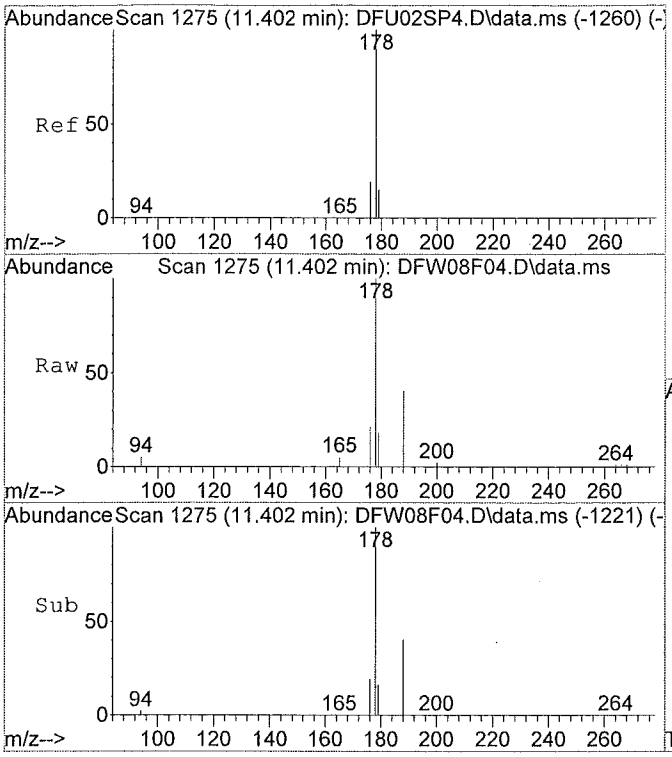


#4
2-Methylnaphthalene
Concen: 0.02 ug/ml
RT: 7.05 min Scan# 398
Delta R.T. -0.00 min
Lab File: DFW08F04.D
Acq: 06/08/2015 17:54

Tgt Ion:142 Resp: 8018

Ion	Ratio	Lower	Upper
142	100		
141	89.7	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

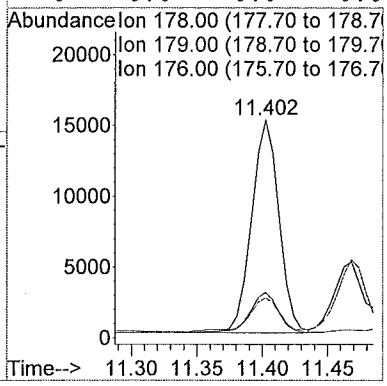


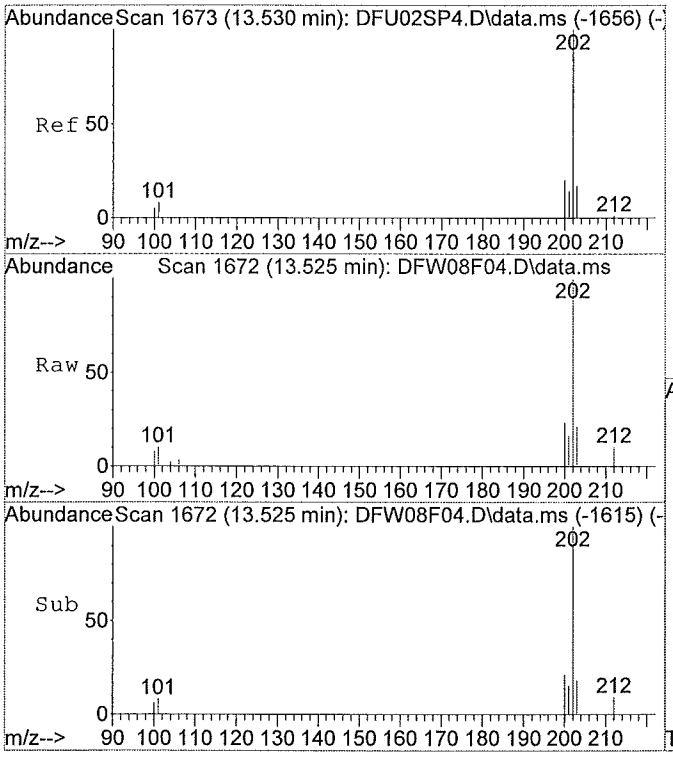


#11
Phenanthrene
Concen: 0.03 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW08F04.D
Acq: 06/08/2015 17:54

Tgt Ion:178 Resp: 21969

Ion	Ratio	Lower	Upper
178	100		
179	17.9	11.1	20.5
176	18.5	14.1	26.1
0	0.0	0.0	0.0

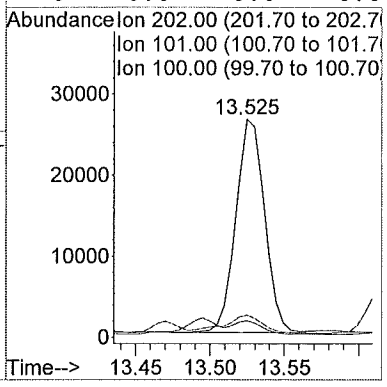


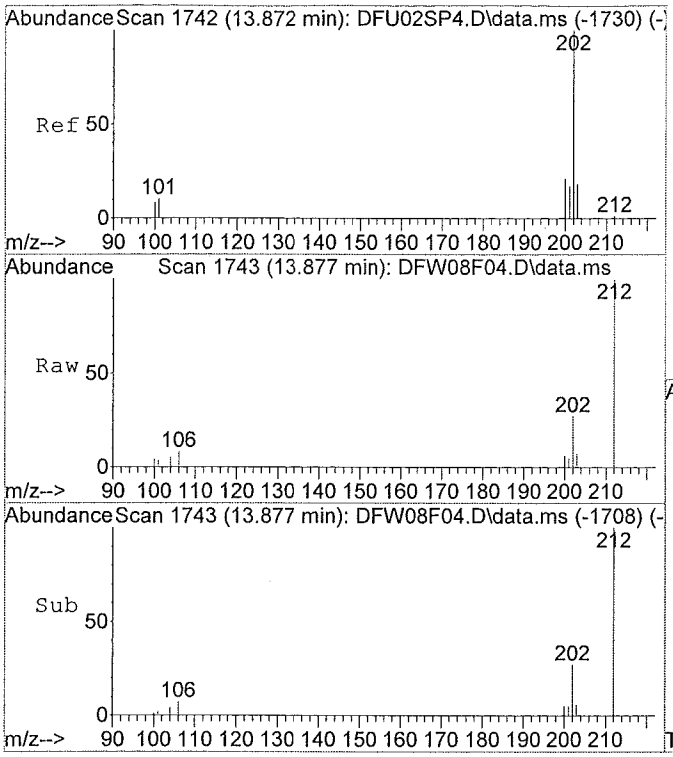


#14
Fluoranthene
Concen: 0.04 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DFW08F04.D
Acq: 06/08/2015 17:54

Tgt Ion:202 Resp: 35208

Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.4	17.6
100	6.4	0.0	0.0#
0	0.0	0.0	0.0

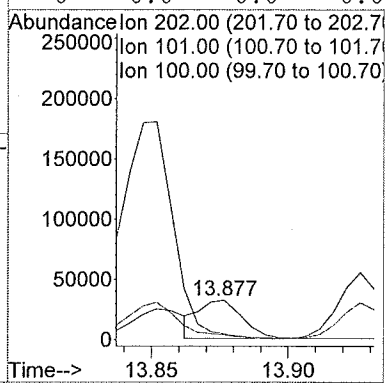


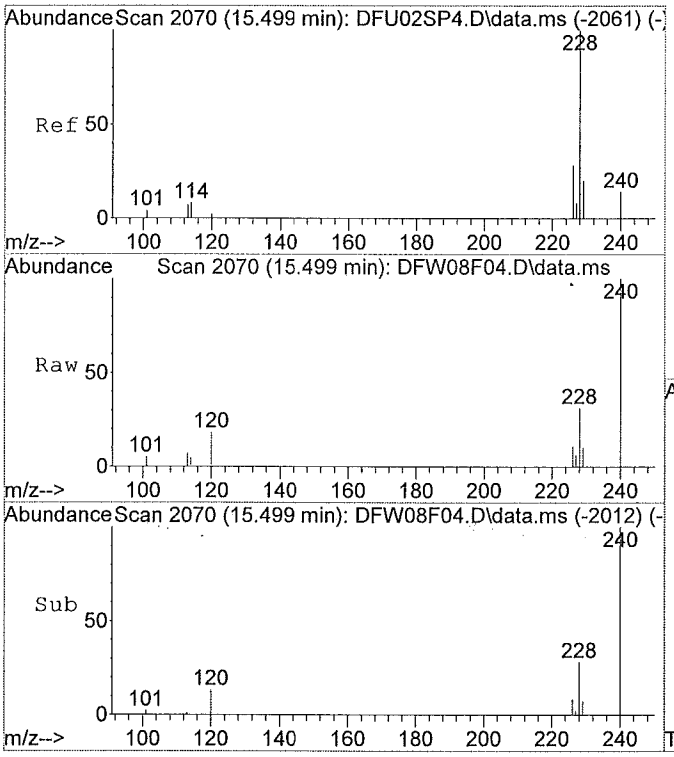


#16
Pyrene
Concen: 0.04 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFW08F04.D
Acq: 06/08/2015 17:54

Tgt Ion:202 Resp: 35239

Ion	Ratio	Lower	Upper
202	100		
101	0.0	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

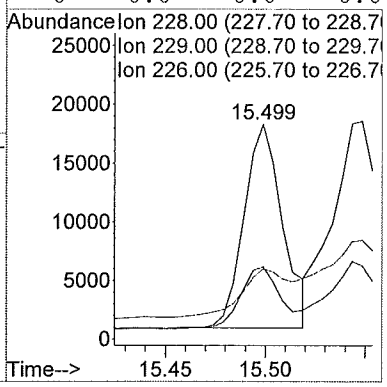


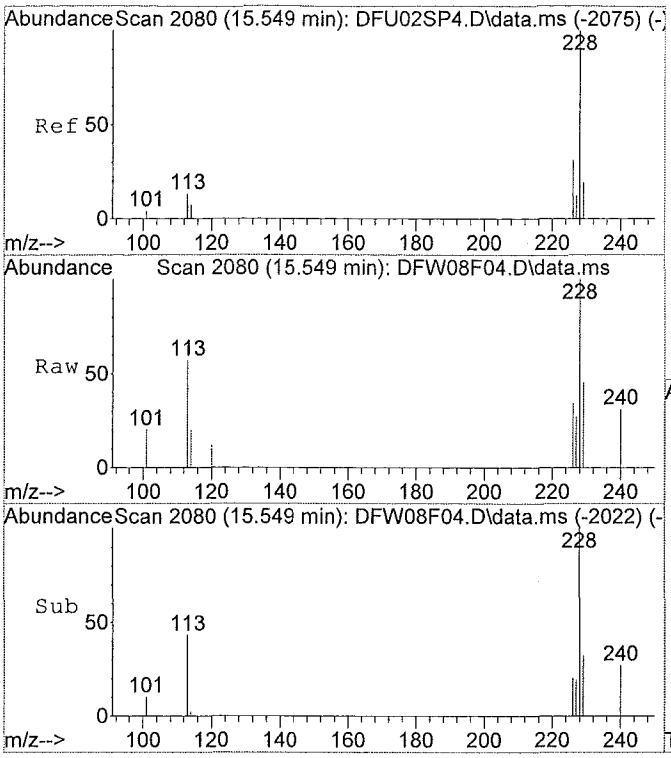


#17
Benzo(a)anthracene
Concen: 0.03 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW08F04.D
Acq: 06/08/2015 17:54

Tgt Ion:228 Resp: 23310

Ion	Ratio	Lower	Upper
228	100		
229	29.0	14.5	26.9#
226	30.9	18.5	34.3
0	0.0	0.0	0.0

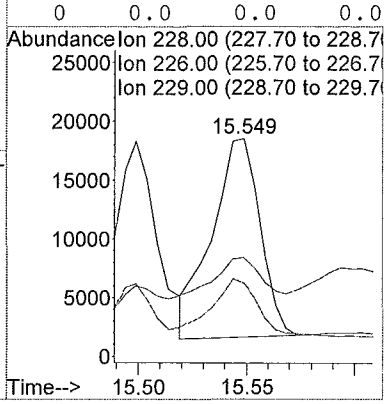


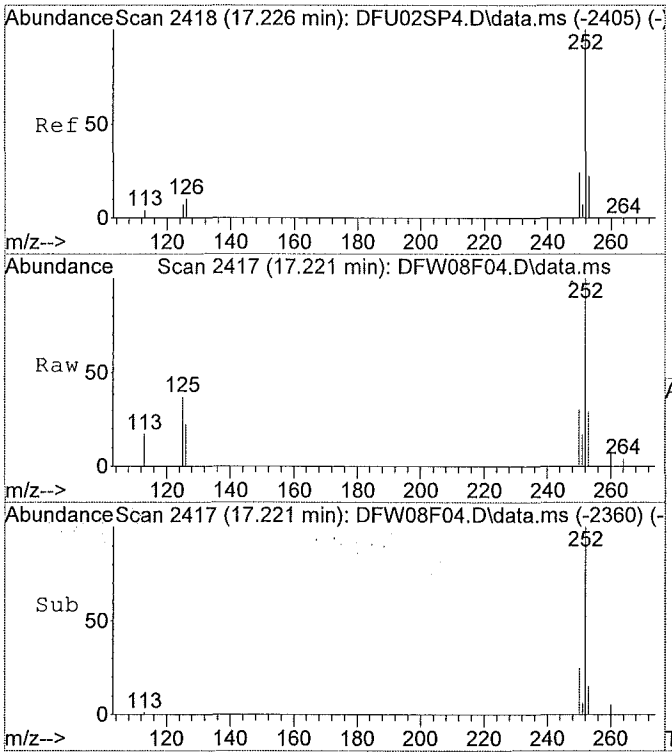


#18
Chrysene
Concen: 0.03 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW08F04.D
Acq: 06/08/2015 17:54

Tgt Ion:228 Resp: 26345

Ion	Ratio	Lower	Upper
228	100		
226	39.9	19.7	36.7#
229	18.4	14.5	26.9
0	0.0	0.0	0.0

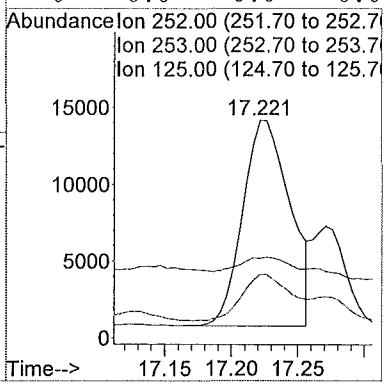




#20
Benzo(b)fluoranthene
Concen: 0.03 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFW08F04.D
Acq: 06/08/2015 17:54

Tgt Ion:252 Resp: 33398

Ion	Ratio	Lower	Upper
252	100		
253	22.8	15.3	28.3
125	22.5	0.0	0.0#
0	0.0	0.0	0.0



1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L62

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFW09F05

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

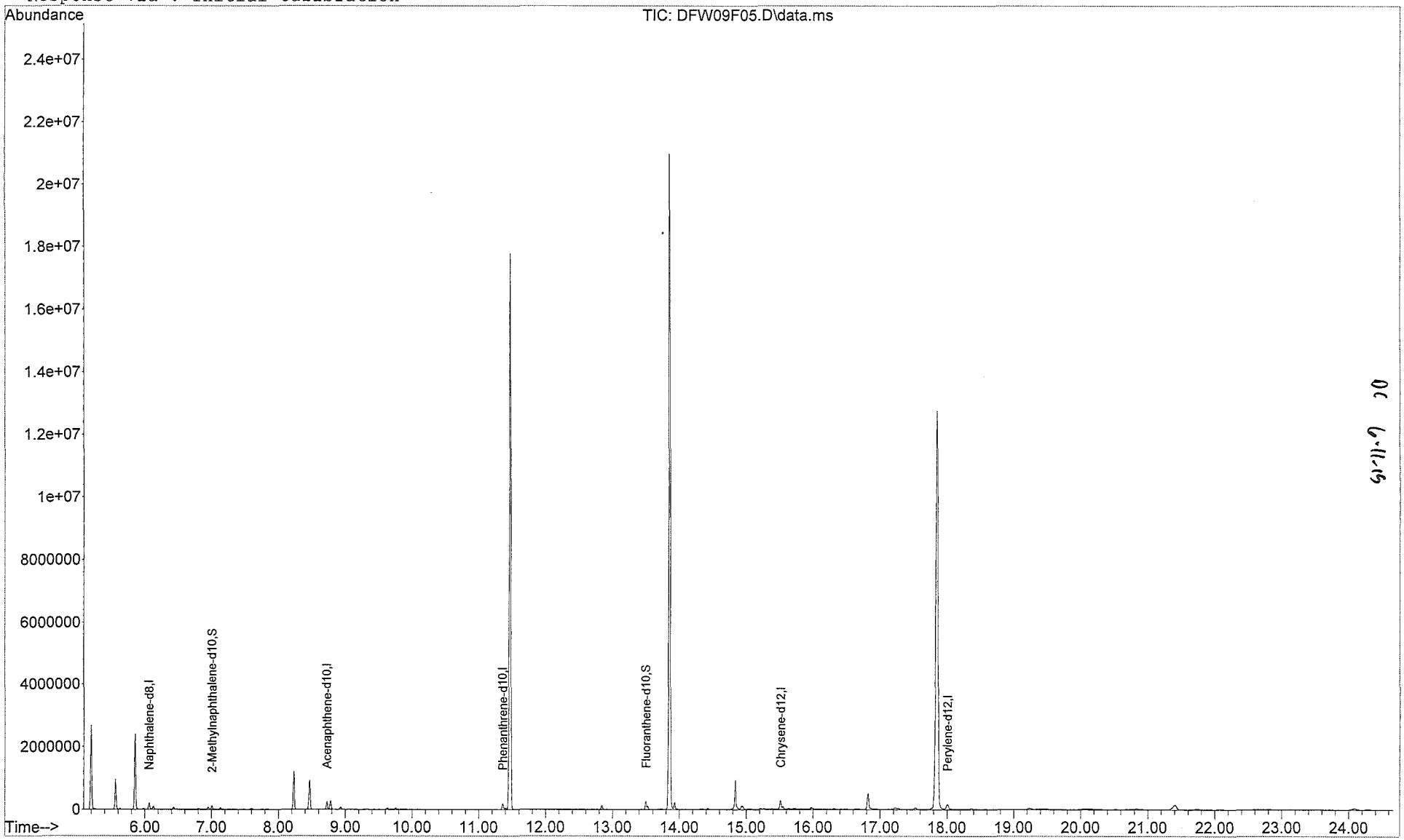
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.9	U
91-57-6	2-Methylnaphthalene	3.9	U
208-96-8	Acenaphthylene	3.9	U
83-32-9	Acenaphthene	10.	
86-73-7	Fluorene	3.9	U
87-86-5	Pentachlorophenol	3.4	J
85-01-8	Phenanthrene	1.6	J
120-12-7	Anthracene	3.9	U
206-44-0	Fluoranthene	3.1	J
129-00-0	Pyrene	6.5	
56-55-3	Benzo(a)anthracene	2.3	J
218-01-9	Chrysene	3.1	J
205-99-2	Benzo(b)fluoranthene	3.2	J
207-08-9	Benzo(k)fluoranthene	0.97	J
50-32-8	Benzo(a)pyrene	1.7	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.9	J
53-70-3	Dibenzo(a,h)anthracene	3.9	U
191-24-2	Benzo(g,h,i)perylene	1.5	J

Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW09F05.D Vial: 8
Acq On : 06/08/2015 18:24 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 14:55:54 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

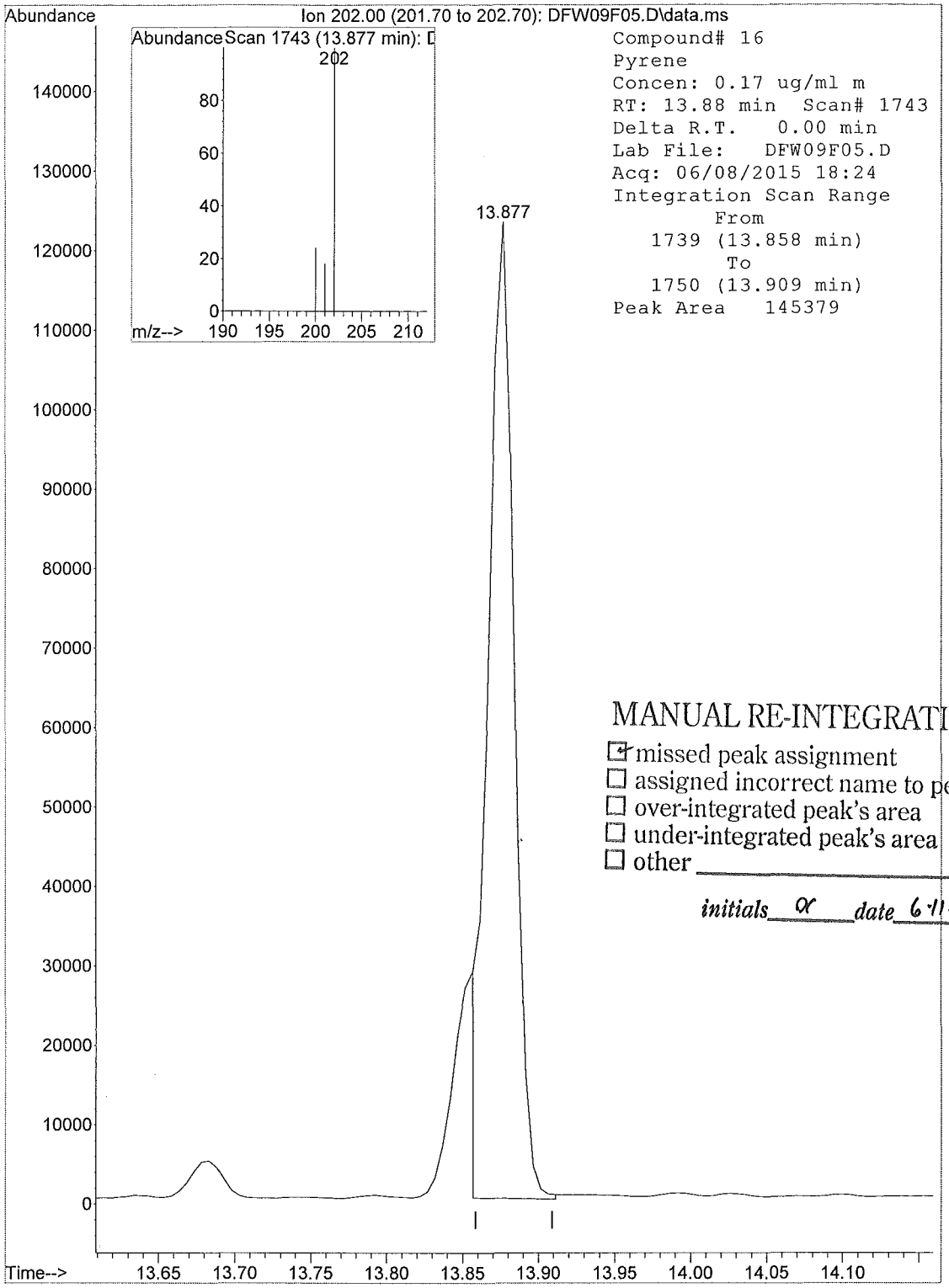
Data File : Z:\D\2015\JUN15\08JUN15\DFW09F05.D Vial: 8
Acq On : 06/08/2015 18:24 Operator: DJC
Sample : 1514293005 F9L62 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:55:54 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Qvalue
1) Naphthalene-d8	6.06	136	228775	0.40 ug/ml		
5) Acenaphthene-d10	8.72	164	164234	0.40 ug/ml		
9) Phenanthrene-d10	11.36	188	290049	0.40 ug/ml		
15) Chrysene-d12	15.51	240	279640	0.40 ug/ml		
19) Perylene-d12	18.01	264	301654	0.40 ug/ml		
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.01	152	124811	0.338ug/mL		
13) Fluoranthene-d10	13.50	212	292786	0.369ug/mL		
Target Compounds						Qvalue
2) Naphthalene	0.00	128		Not Detected		
4) 2-Methylnaphthalene	0.00	142		Not Detected		
6) Acenaphthylene	0.00	152		Not Detected		
7) Acenaphthene	8.78	153	122812	0.267ug/ml		99
8) Fluorene	0.00	166		Not Detected		
10) Pentachlorophenol	11.02	266	3752	0.086ug/ml		100
11) Phenanthrene	11.40	178	34702	0.042ug/ml		96
12) Anthracene	0.00	178		Not Detected		
14) Fluoranthene	13.53	202	75091	0.079ug/ml		97
16) Pyrene	13.88	202	145379	0.166ug/ml	m	1
17) Benzo(a)anthracene	15.50	228	43021	0.058ug/ml	DF 6-11-15	88
18) Chrysene	15.55	228	61627	0.078ug/ml		96
20) Benzo(b)fluoranthene	17.23	252	75743	0.081ug/ml		98
21) Benzo(k)fluoranthene	17.27	252	24198	0.025ug/ml	m	97
22) Benzo(a)pyrene	17.89	252	39271	0.044ug/ml	DF 6-11-15	93
23) Indeno(1,2,3-c,d)pyrene	20.84	276	37555	0.048ug/ml		100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected		
25) Benzo(g,h,i)perylene	21.72	276	34997	0.040ug/ml		1

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

M A N U A L I N T E G R A T I O N FOR Pyrene

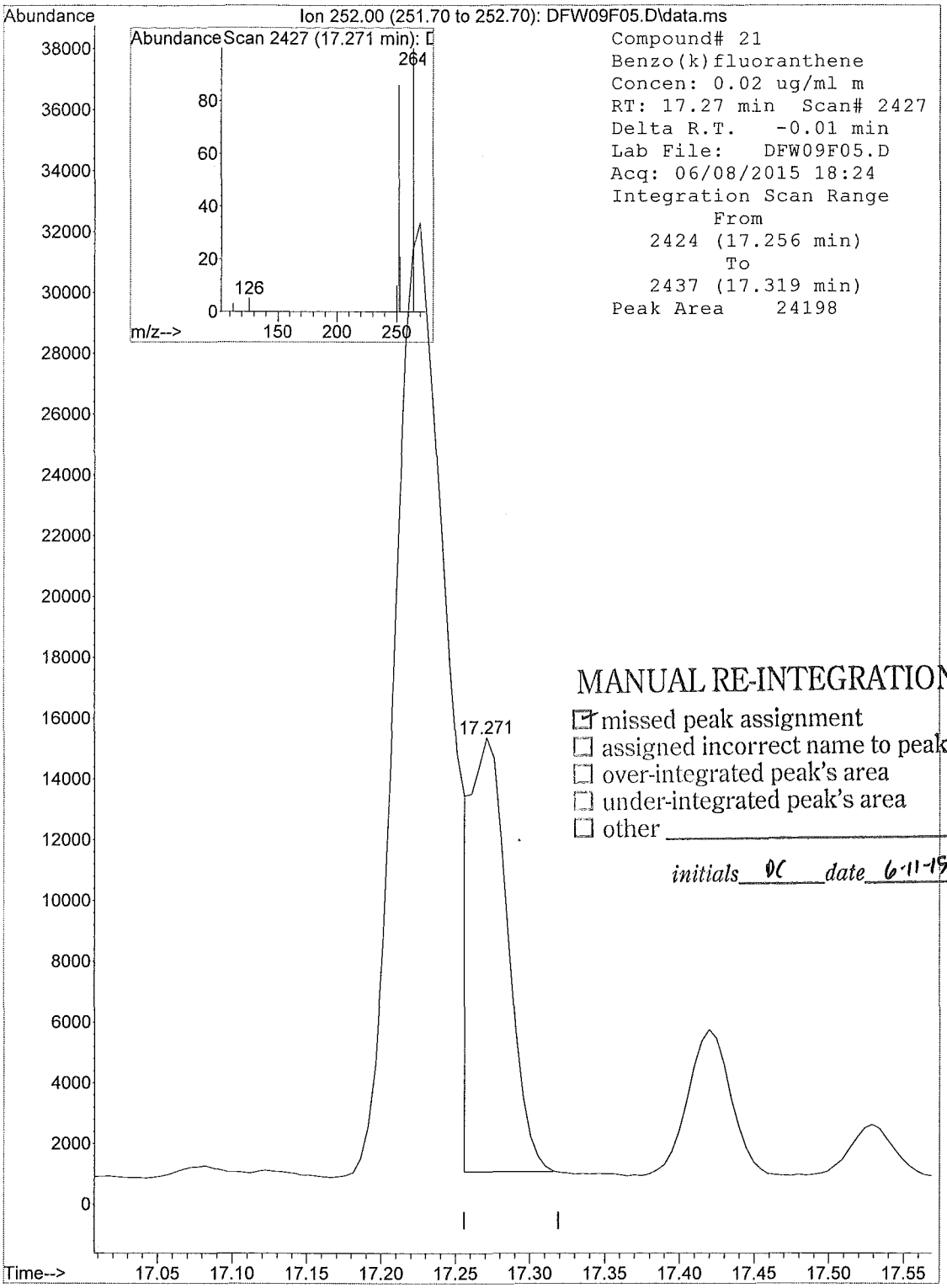


MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials QC *date* 6-11-15

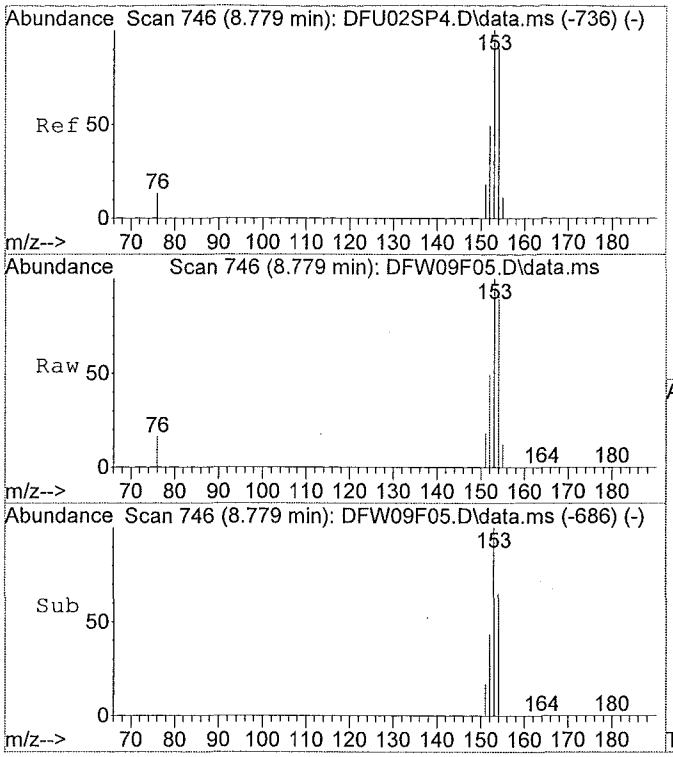
MANUAL INTEGRATION FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

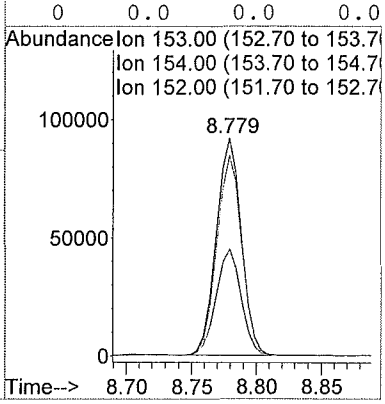
initials DC *date* 6-11-15

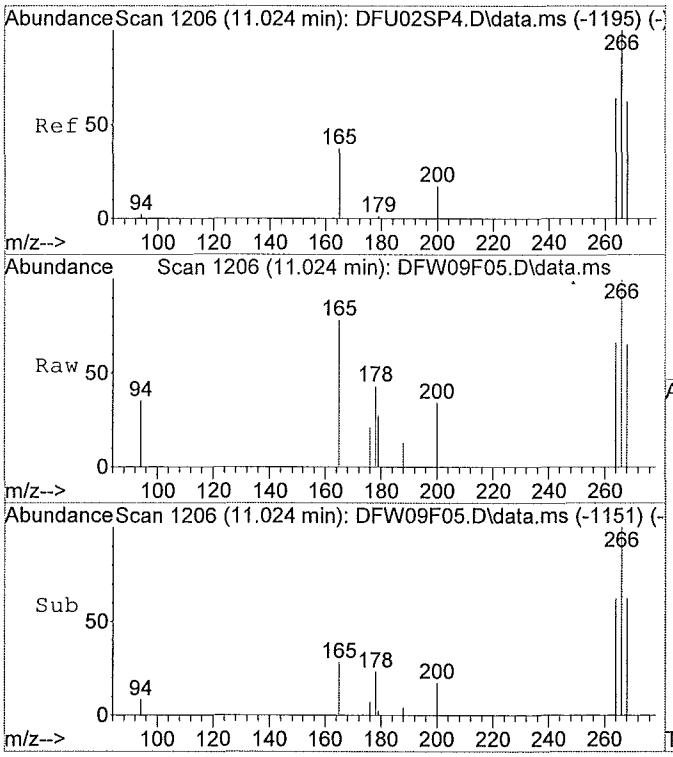


#7
Acenaphthene
Concen: 0.27 ug/ml
RT: 8.78 min Scan# 746
Delta R.T. -0.00 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:153 Resp: 122812

Ion	Ratio	Lower	Upper
153	100		
154	91.9	65.1	120.9
152	48.9	35.2	65.4
0	0.0	0.0	0.0

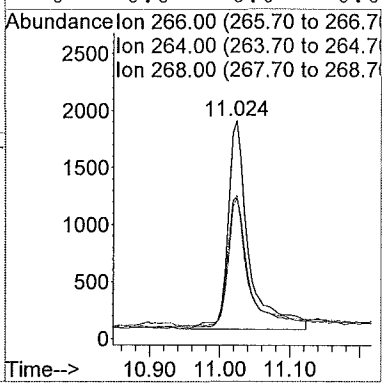


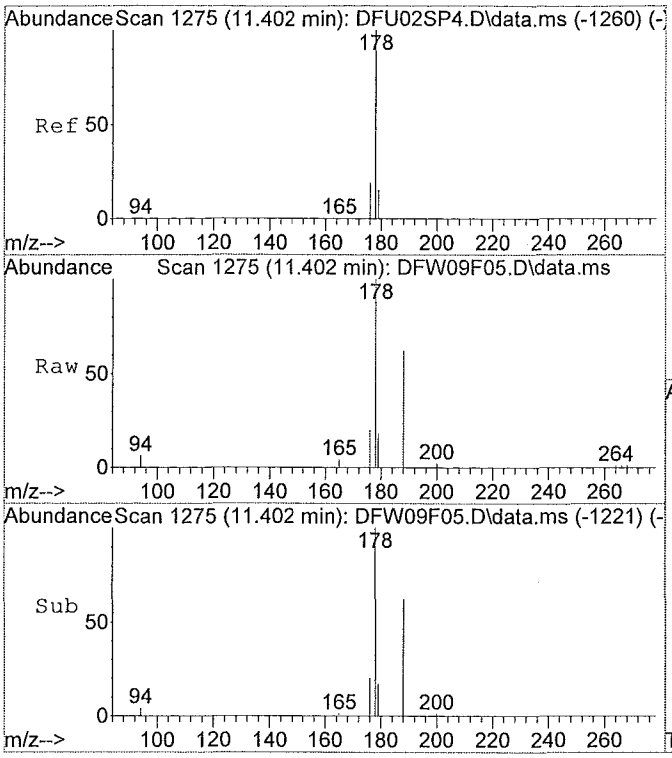


#10
Pentachlorophenol
Concen: 0.09 ug/ml
RT: 11.02 min Scan# 1206
Delta R.T. 0.00 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:266 Resp: 3752

Ion	Ratio	Lower	Upper
266	100		
264	62.7	0.0	0.0#
268	65.6	0.0	0.0#
0	0.0	0.0	0.0

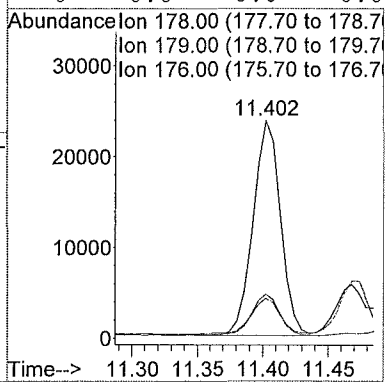


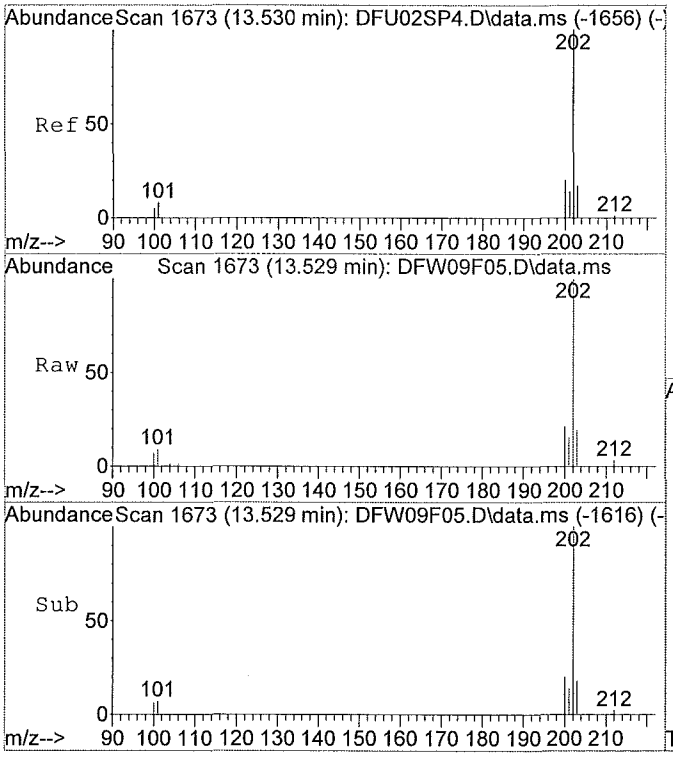


#11
Phenanthrene
Concen: 0.04 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:178 Resp: 34702

Ion	Ratio	Lower	Upper
178	100		
179	18.7	11.1	20.5
176	19.0	14.1	26.1
0	0.0	0.0	0.0

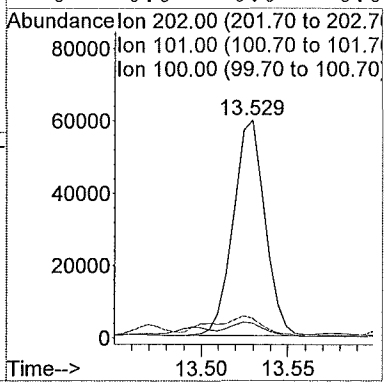


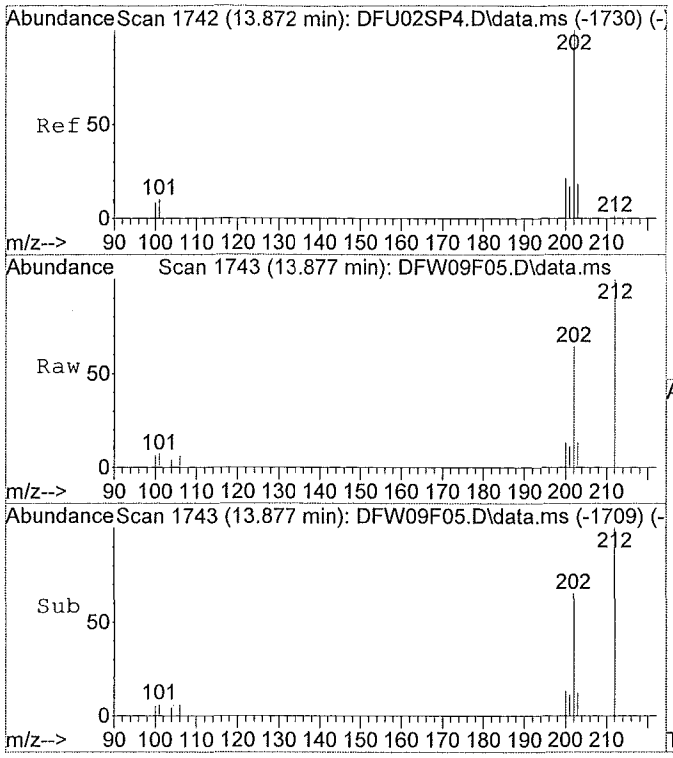


#14
Fluoranthene
Concen: 0.08 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:202 Resp: 75091

Ion	Ratio	Lower	Upper
202	100		
101	14.8	9.4	17.6
100	7.3	0.0	0.0#
0	0.0	0.0	0.0

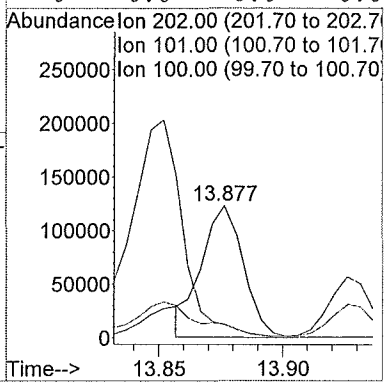


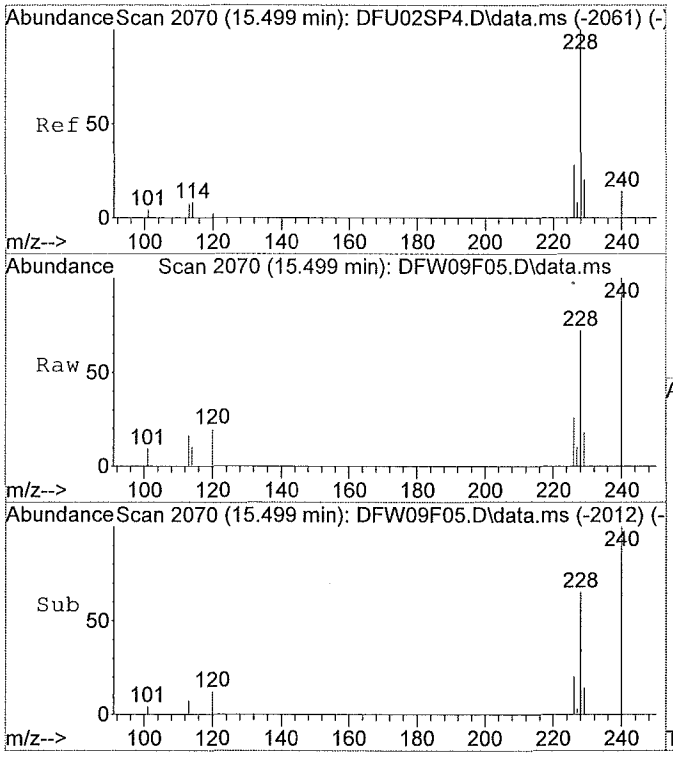


#16
Pyrene
Concen: 0.17 ug/ml m
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:202 Resp: 145379

Ion	Ratio	Lower	Upper
202	100		
101	49.1	10.6	19.6#
100	228.3	9.4	17.4#
0	0.0	0.0	0.0

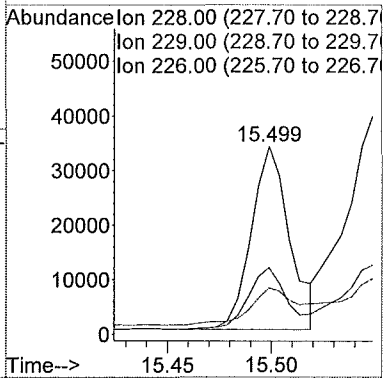


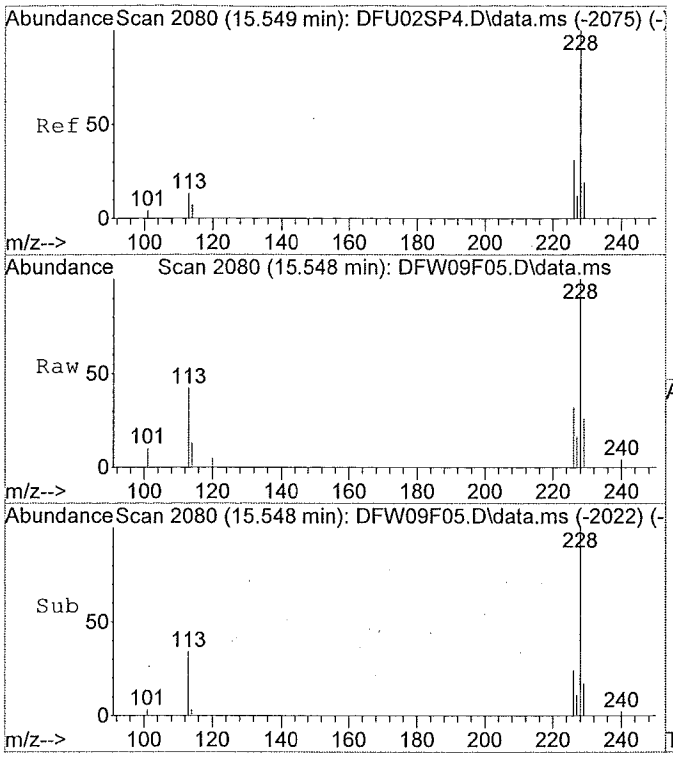


#17
Benzo(a)anthracene
Concen: 0.06 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:228 Resp: 43021

Ion	Ratio	Lower	Upper
228	100		
229	25.3	14.5	26.9
226	32.9	18.5	34.3
0	0.0	0.0	0.0

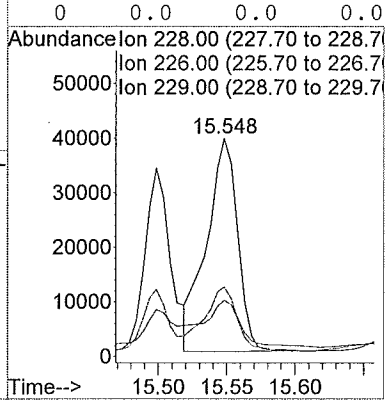


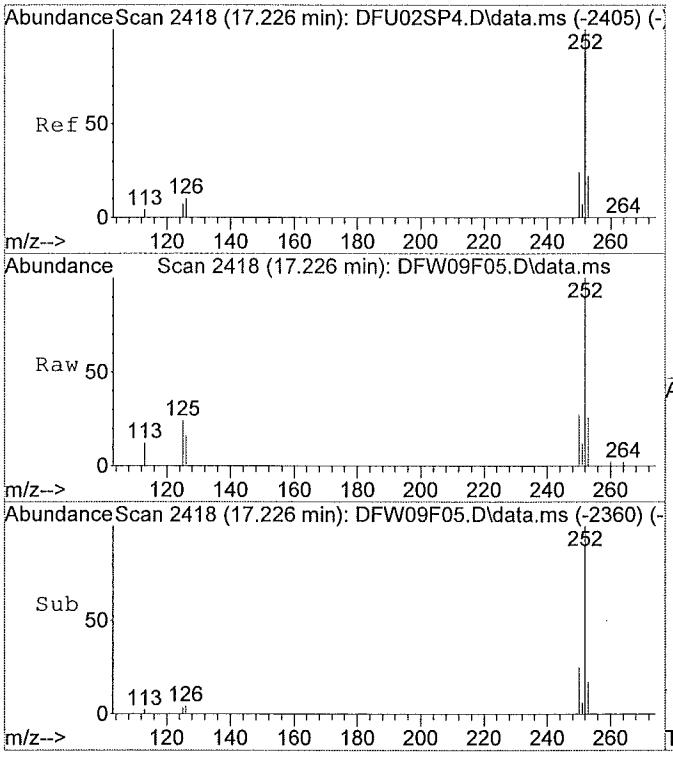


#18
Chrysene
Concen: 0.08 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:228 Resp: 61627

Ion	Ratio	Lower	Upper
228	100		
226	31.1	19.7	36.7
229	21.9	14.5	26.9
0	0.0	0.0	0.0

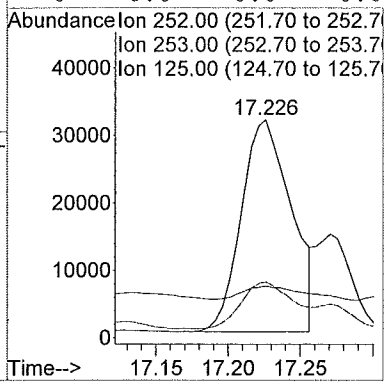


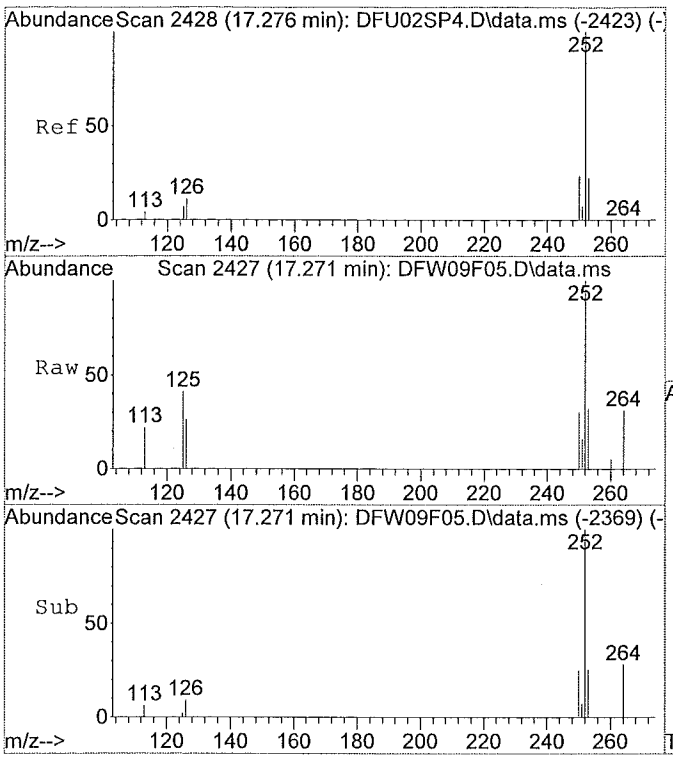


#20
Benzo(b)fluoranthene
Concen: 0.08 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:252 Resp: 75743

Ion	Ratio	Lower	Upper
252	100		
253	22.6	15.3	28.3
125	14.2	0.0	0.0#
0	0.0	0.0	0.0

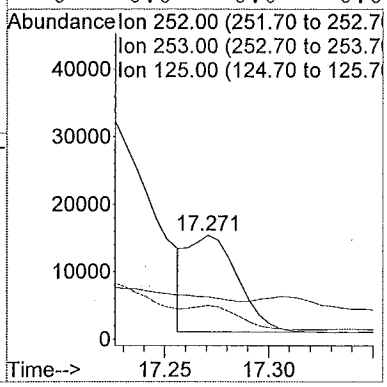


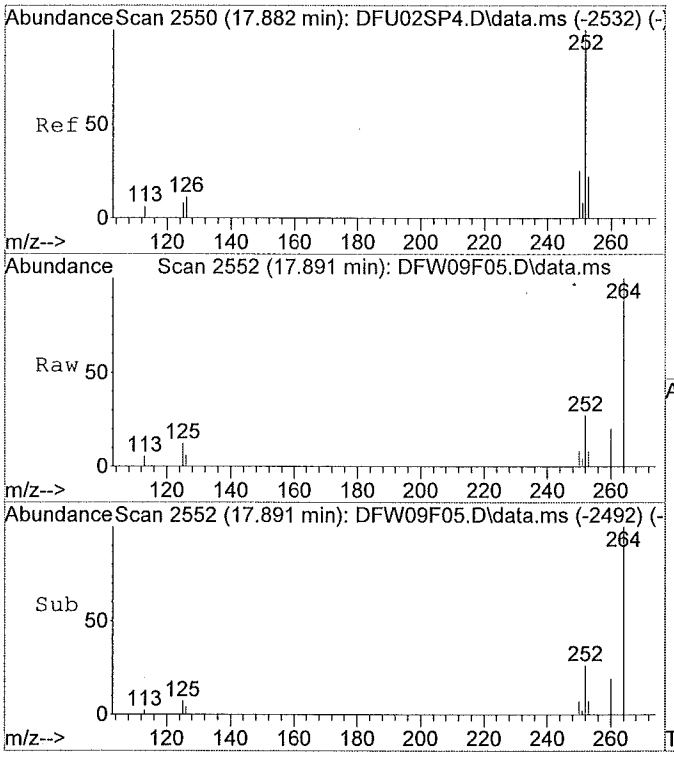


#21
Benzo(k)fluoranthene
Concen: 0.02 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:252 Resp: 24198

Ion	Ratio	Lower	Upper
252	100		
253	70.9	15.0	27.8#
125	24.9	0.0	0.0#
0	0.0	0.0	0.0

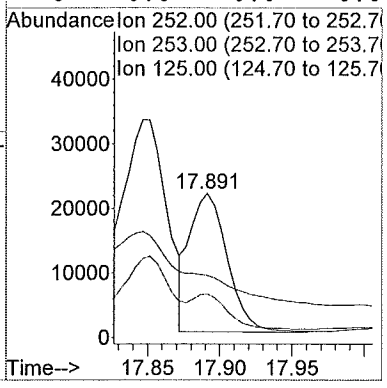


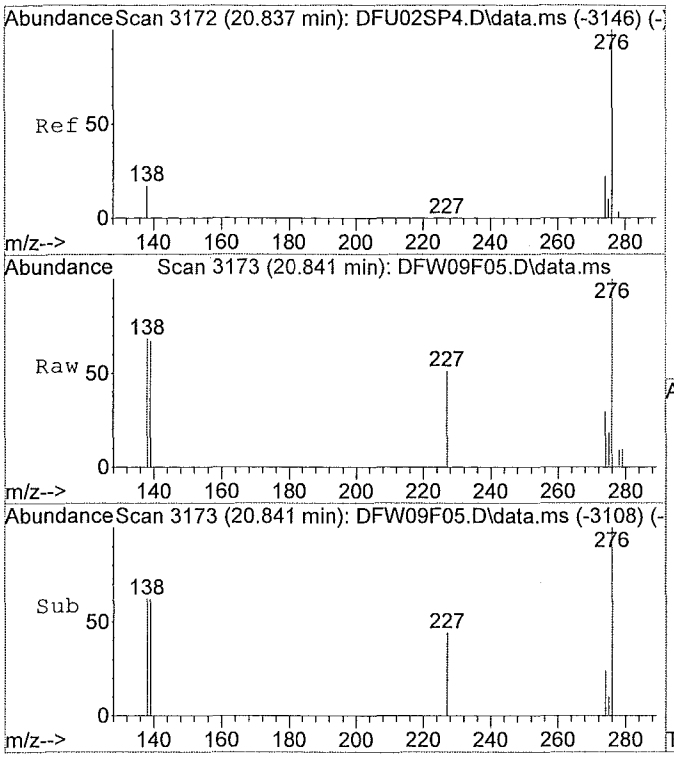


#22
Benzo(a)pyrene
Concen: 0.04 ug/ml
RT: 17.89 min Scan# 2552
Delta R.T. 0.00 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:252 Resp: 39271

Ion	Ratio	Lower	Upper
252	100		
253	24.8	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

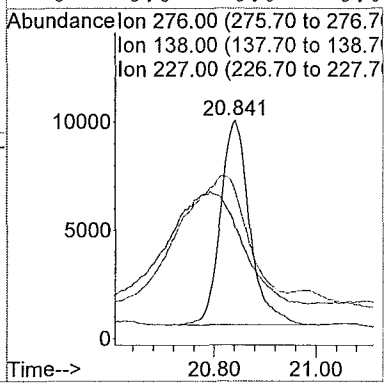


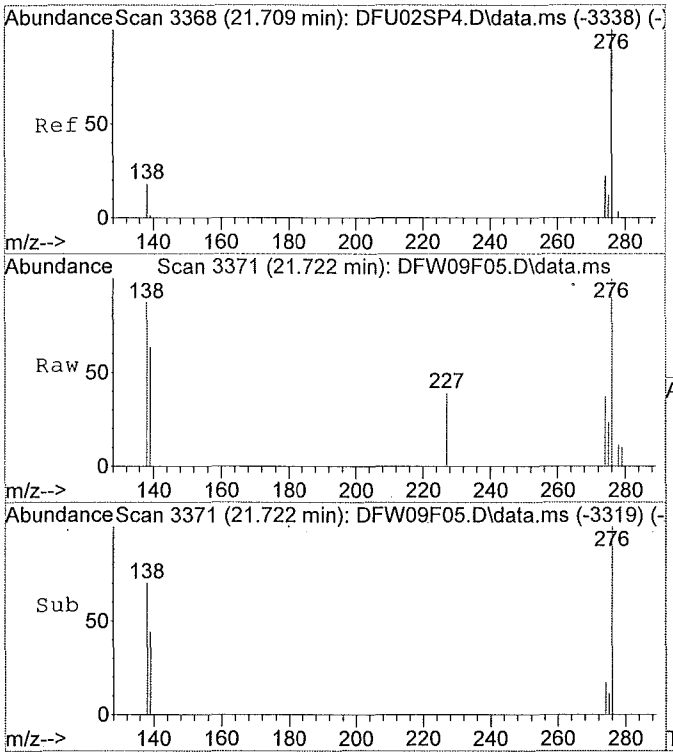


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.05 ug/ml
RT: 20.84 min Scan# 3173
Delta R.T. -0.01 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:276 Resp: 37555

Ion	Ratio	Lower	Upper
276	100		
138	0.0	0.0	0.0
227	0.0	0.0	0.0
0	0.0	0.0	0.0

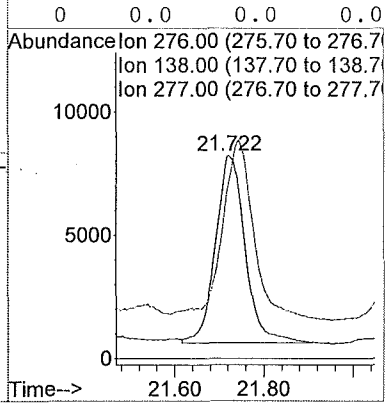




#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 21.72 min Scan# 3371
Delta R.T. 0.00 min
Lab File: DFW09F05.D
Acq: 06/08/2015 18:24

Tgt Ion:276 Resp: 34997

Ion	Ratio	Lower	Upper
276	100		
138	100.0	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L63

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293006

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFW10F06

Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	21.	U
91-57-6	2-Methylnaphthalene	21.	U
208-96-8	Acenaphthylene	21.	U
83-32-9	Acenaphthene	21.	U
86-73-7	Fluorene	21.	U
87-86-5	Pentachlorophenol	43.	U
85-01-8	Phenanthrene	9.1	J
120-12-7	Anthracene	21.	U
206-44-0	Fluoranthene	11.	J
129-00-0	Pyrene	16.	J
56-55-3	Benzo(a)anthracene	9.7	J
218-01-9	Chrysene	11.	J
205-99-2	Benzo(b)fluoranthene	13.	J
207-08-9	Benzo(k)fluoranthene	21.	U
50-32-8	Benzo(a)pyrene	7.8	J
193-39-5	Indeno(1,2,3-cd)pyrene	7.7	J
53-70-3	Dibenzo(a,h)anthracene	21.	U
191-24-2	Benzo(g,h,i)perylene	6.3	J

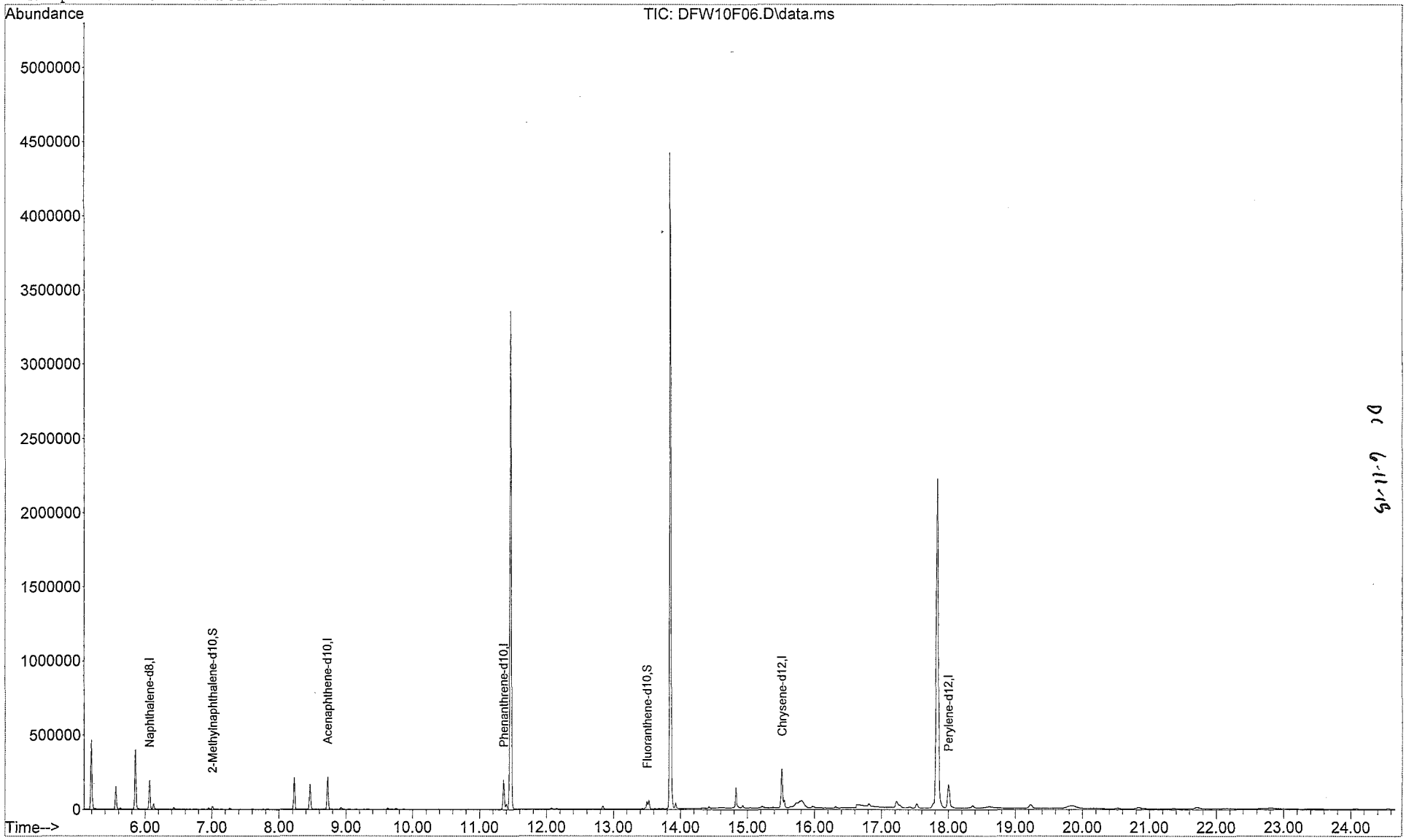
Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW10F06.D
Acq On : 06/08/2015 18:54
Sample : 1514293006 F9L63 (5)_
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 9
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:56:30 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



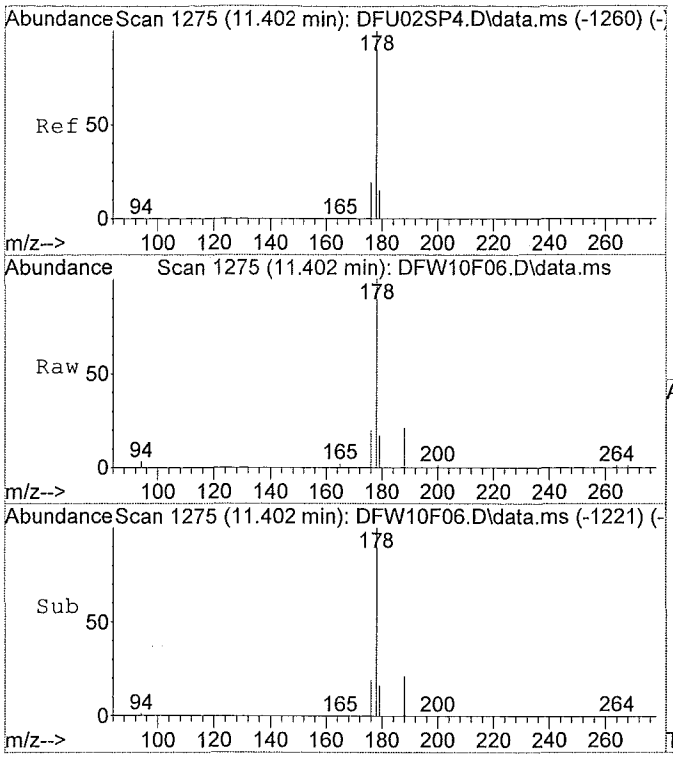
Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW10F06.D Vial: 9
Acq On : 06/08/2015 18:54 Operator: DJC
Sample : 1514293006 F9L63 (5)_ Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:56:30 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.07	136	223175	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	145106	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	263265	0.40 ug/ml	
15) Chrysene-d12	15.51	240	283827	0.40 ug/ml	
19) Perylene-d12	18.00	264	283358	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	22334	0.062ug/mL	
13) Fluoranthene-d10	13.50	212	53333	0.074ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	32476	0.043ug/ml	98
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.53	202	45831	0.053ug/ml	84
16) Pyrene	13.87	202	64866	0.073ug/ml	11
17) Benzo(a)anthracene	15.50	228	34525	0.046ug/ml	91
18) Chrysene	15.55	228	42319	0.053ug/ml	96
20) Benzo(b)fluoranthene	17.22	252	55513	0.063ug/ml	99
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.88	252	30885	0.037ug/ml	94
23) Indeno(1,2,3-c,d)pyrene	20.84	276	26568	0.036ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.71	276	24655	0.030ug/ml	69

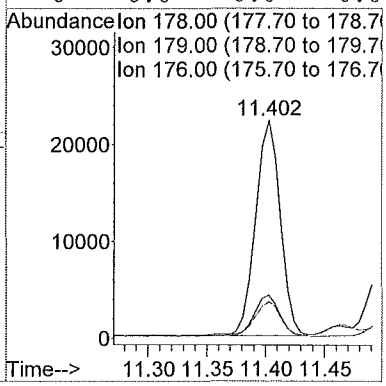
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

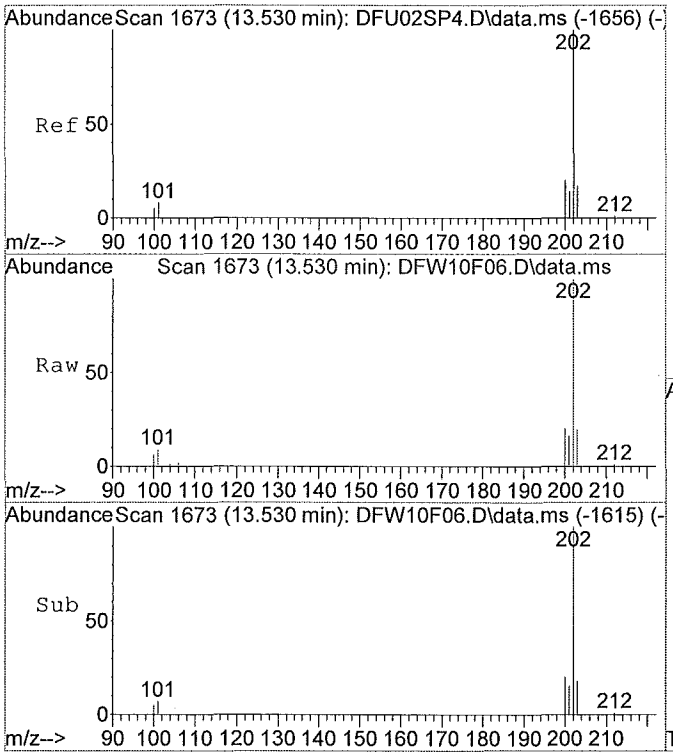


#11
Phenanthrene
Concen: 0.04 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW10F06.D
Acq: 06/08/2015 18:54

Tgt Ion:178 Resp: 32476

Ion	Ratio	Lower	Upper
178	100		
179	17.1	11.1	20.5
176	19.5	14.1	26.1
0	0.0	0.0	0.0

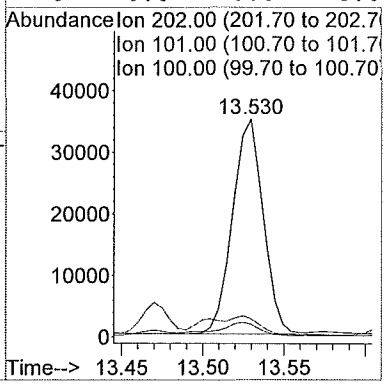


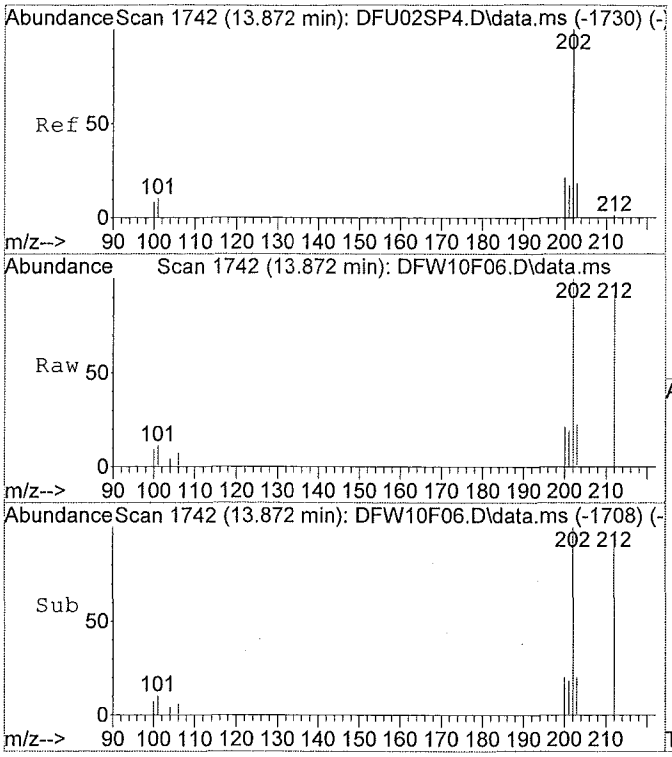


#14
Fluoranthene
Concen: 0.05 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFW10F06.D
Acq: 06/08/2015 18:54

Tgt Ion:202 Resp: 45831

Ion	Ratio	Lower	Upper
202	100		
101	7.1	9.4	17.6#
100	8.2	0.0	0.0#
0	0.0	0.0	0.0

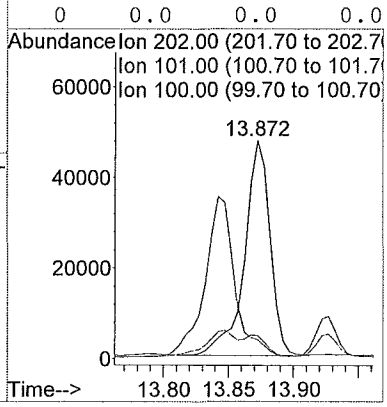


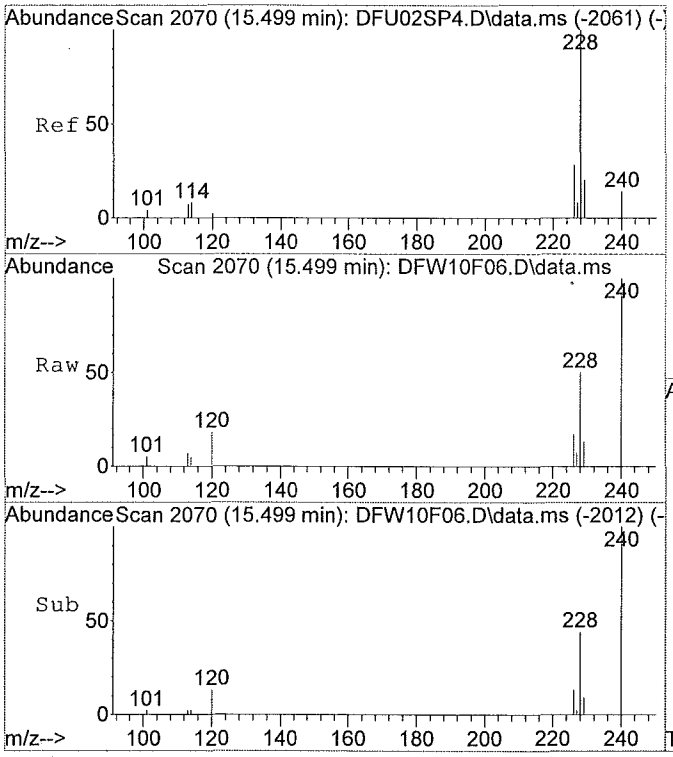


#16
Pyrene
Concen: 0.07 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFW10F06.D
Acq: 06/08/2015 18:54

Tgt Ion:202 Resp: 64866

Ion	Ratio	Lower	Upper
202	100		
101	14.8	10.6	19.6
100	88.8	9.4	17.4#
0	0.0	0.0	0.0

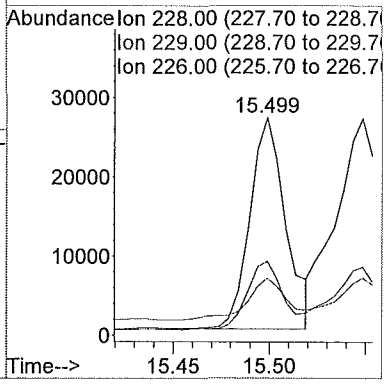


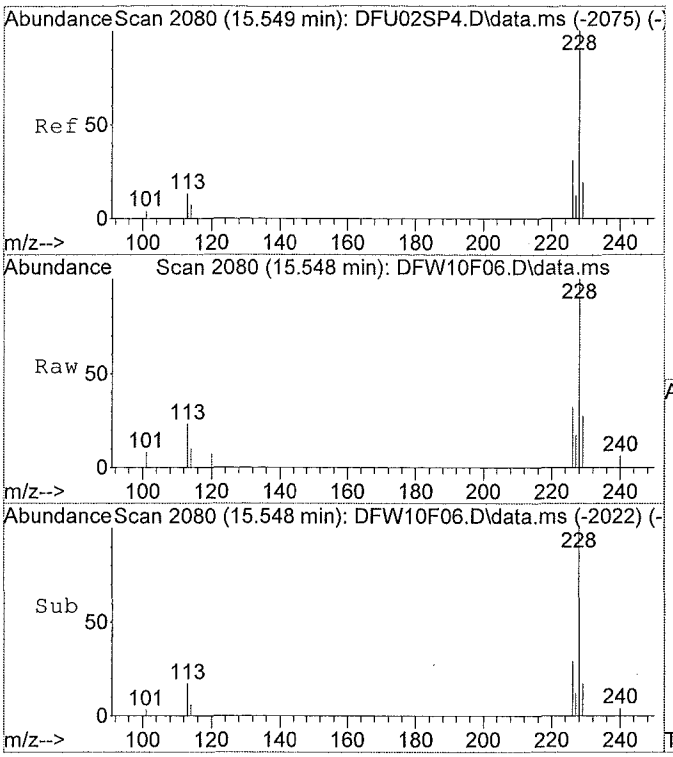


#17
Benzo(a)anthracene
Concen: 0.05 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW10F06.D
Acq: 06/08/2015 18:54

Tgt Ion:228 Resp: 34525

Ion	Ratio	Lower	Upper
228	100		
229	23.1	14.5	26.9
226	32.2	18.5	34.3
0	0.0	0.0	0.0

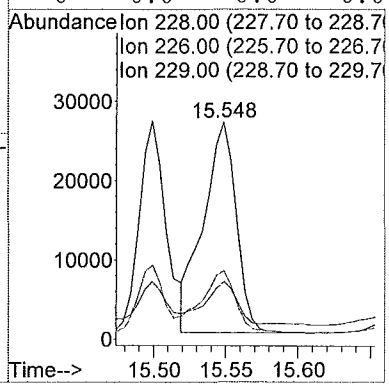


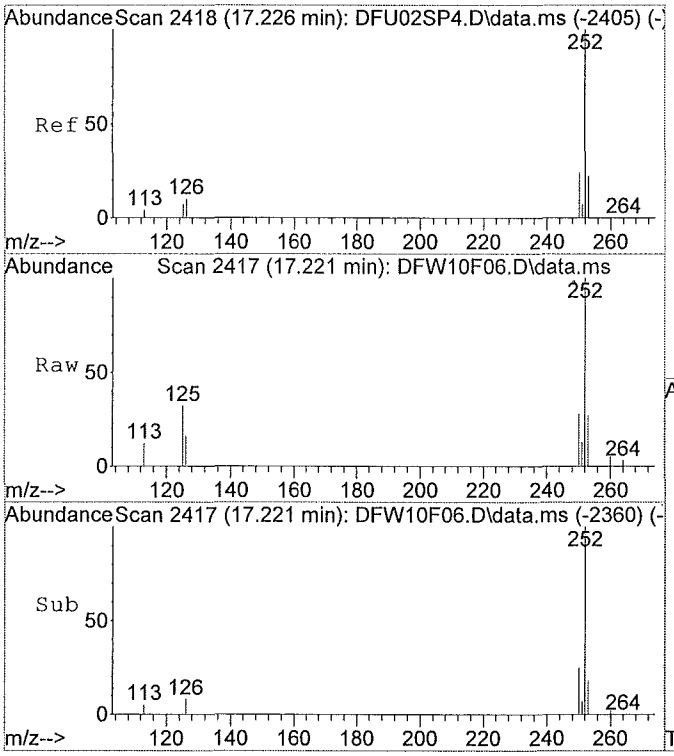


#18
Chrysene
Concen: 0.05 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW10F06.D
Acq: 06/08/2015 18:54

Tgt Ion:228 Resp: 42319

Ion	Ratio	Lower	Upper
228	100		
226	30.9	19.7	36.7
229	19.5	14.5	26.9
0	0.0	0.0	0.0

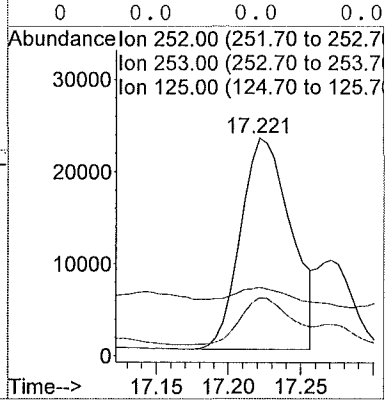


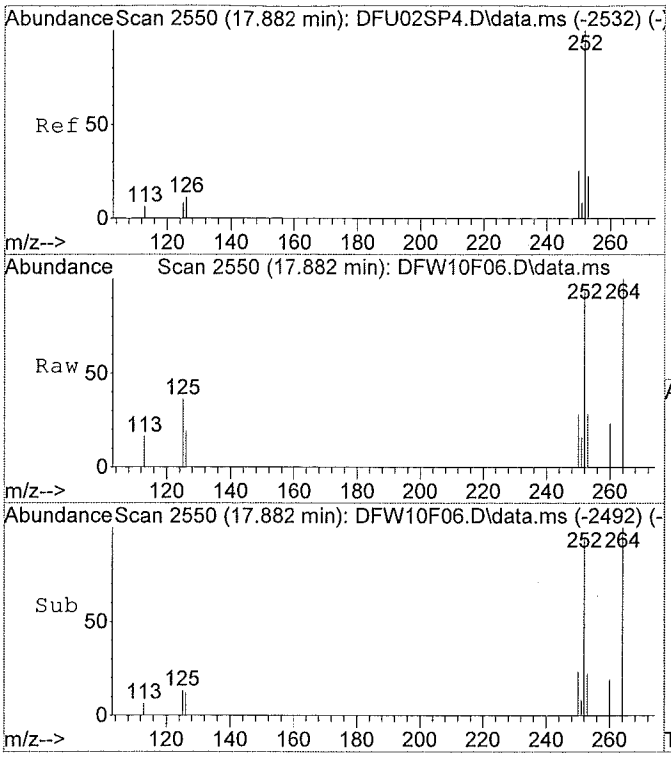


#20
Benzo(b)fluoranthene
Concen: 0.06 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFW10F06.D
Acq: 06/08/2015 18:54

Tgt Ion:252 Resp: 55513

Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.3	28.3
125	10.7	0.0	0.0#
0	0.0	0.0	0.0

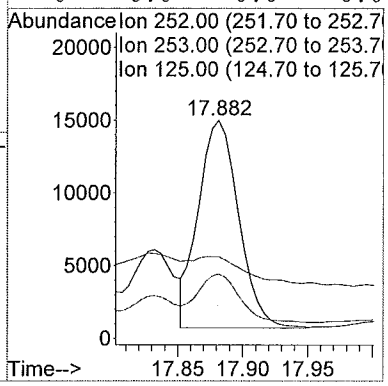


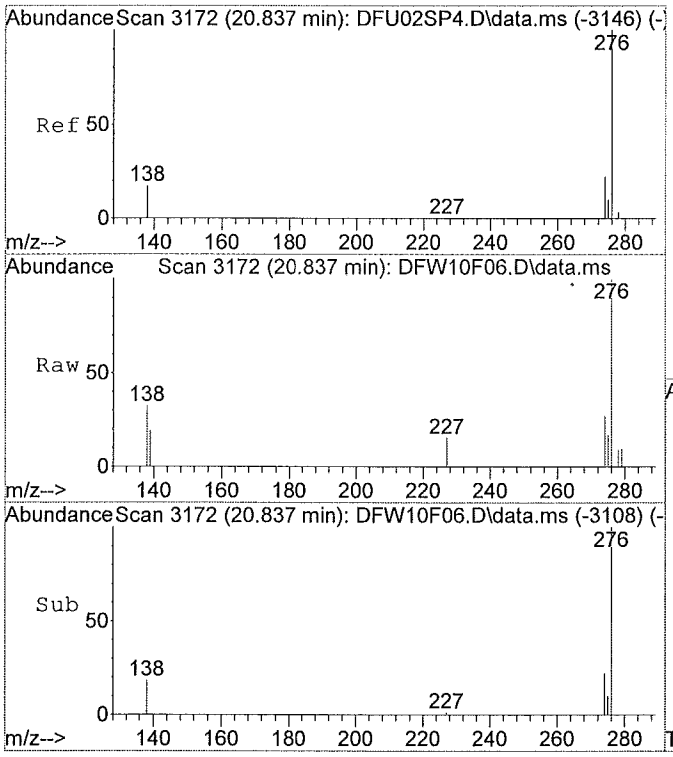


#22
Benzo(a)pyrene
Concen: 0.04 ug/ml
RT: 17.88 min Scan# 2550
Delta R.T. -0.01 min
Lab File: DFW10F06.D
Acq: 06/08/2015 18:54

Tgt Ion:252 Resp: 30885

Ion	Ratio	Lower	Upper
252	100		
253	24.4	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

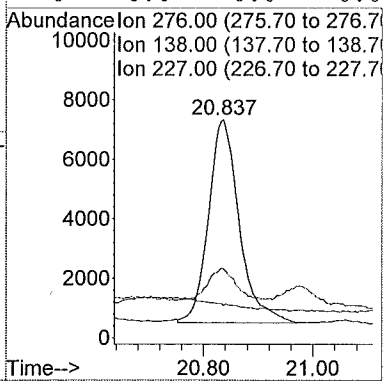


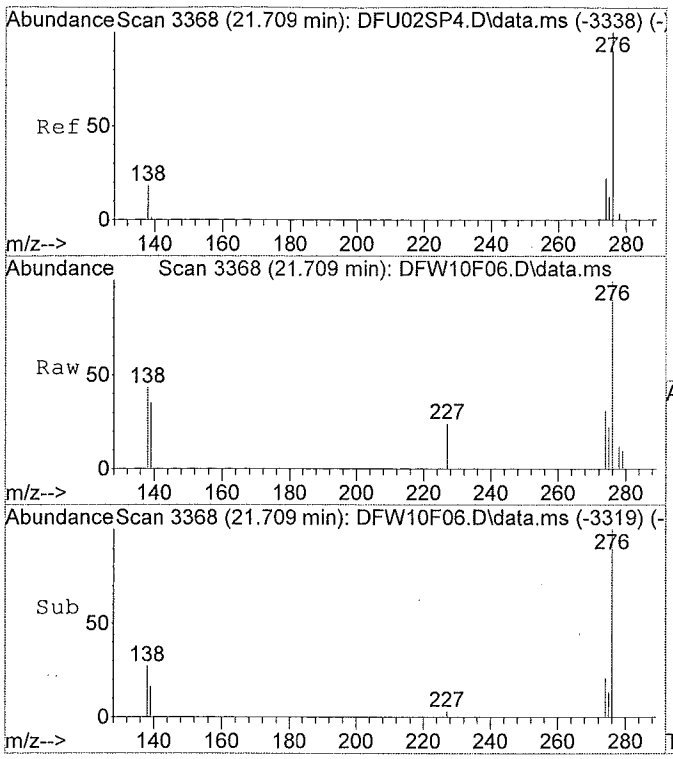


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.04 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFW10F06.D
Acq: 06/08/2015 18:54

Tgt Ion:276 Resp: 26568

Ion	Ratio	Lower	Upper
276	100		
138	13.8	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

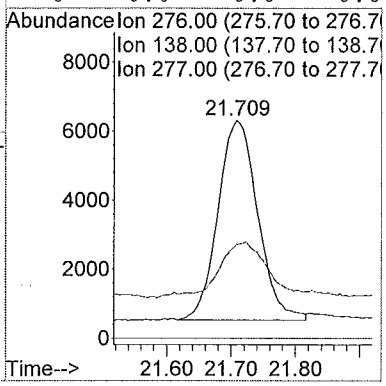




#25
Benzo(g,h,i)perylene
Concen: 0.03 ug/ml
RT: 21.71 min Scan# 3368
Delta R.T. -0.01 min
Lab File: DFW10F06.D
Acq: 06/08/2015 18:54

Tgt Ion:276 Resp: 24655

Ion	Ratio	Lower	Upper
276	100		
138	29.3	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L64

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293007

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFW11F07

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

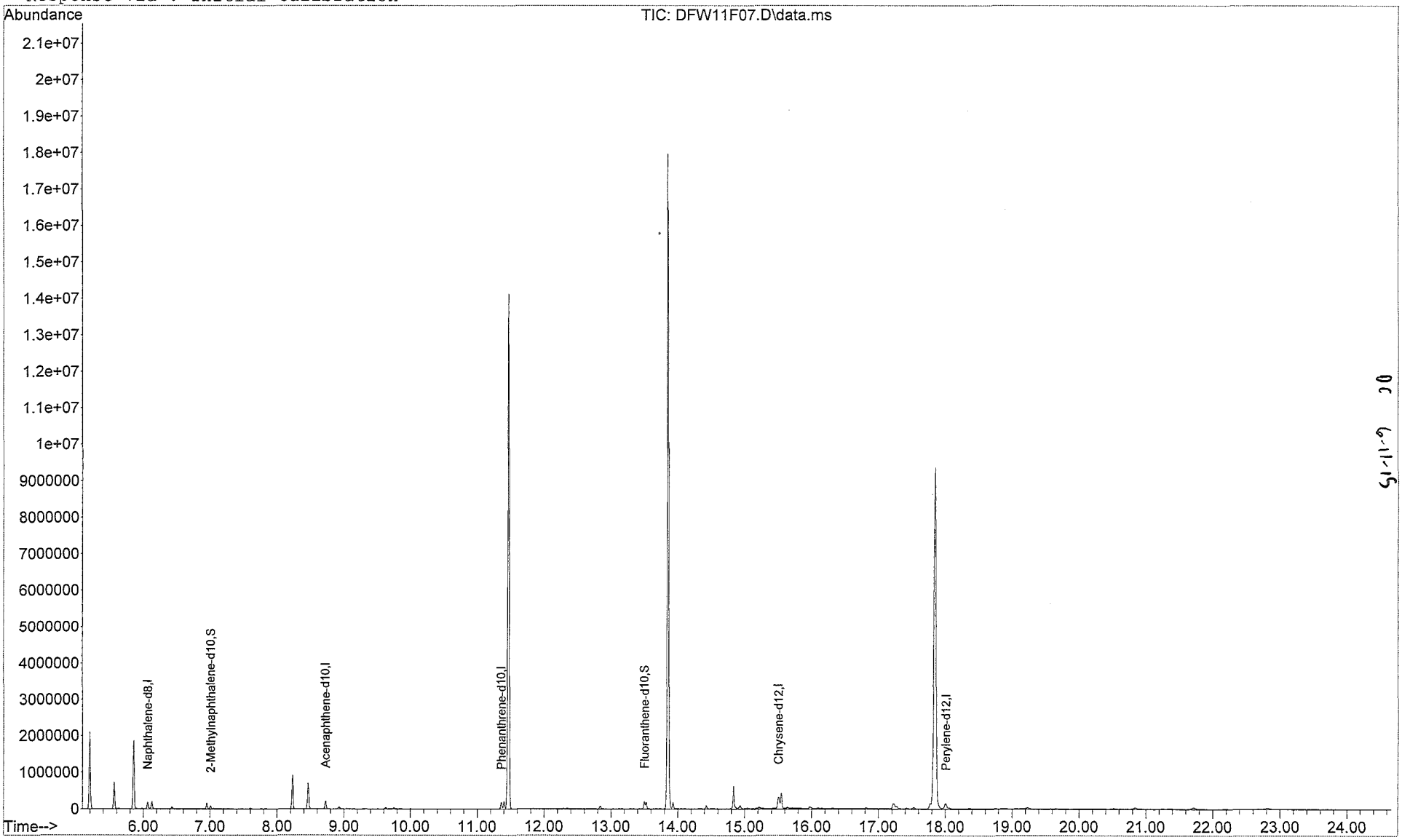
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	0.84	J
208-96-8	Acenaphthylene	1.2	J
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.6	U
85-01-8	Phenanthrene	10.	
120-12-7	Anthracene	1.7	J
206-44-0	Fluoranthene	6.4	
129-00-0	Pyrene	14.	
56-55-3	Benzo(a)anthracene	9.1	
218-01-9	Chrysene	16.	
205-99-2	Benzo(b)fluoranthene	9.2	
207-08-9	Benzo(k)fluoranthene	2.2	J
50-32-8	Benzo(a)pyrene	6.1	
193-39-5	Indeno(1,2,3-cd)pyrene	5.5	
53-70-3	Dibenzo(a,h)anthracene	1.7	J
191-24-2	Benzo(g,h,i)perylene	5.1	

Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW11F07.D Vial: 10
Acq On : 06/08/2015 19:24 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 14:57:53 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

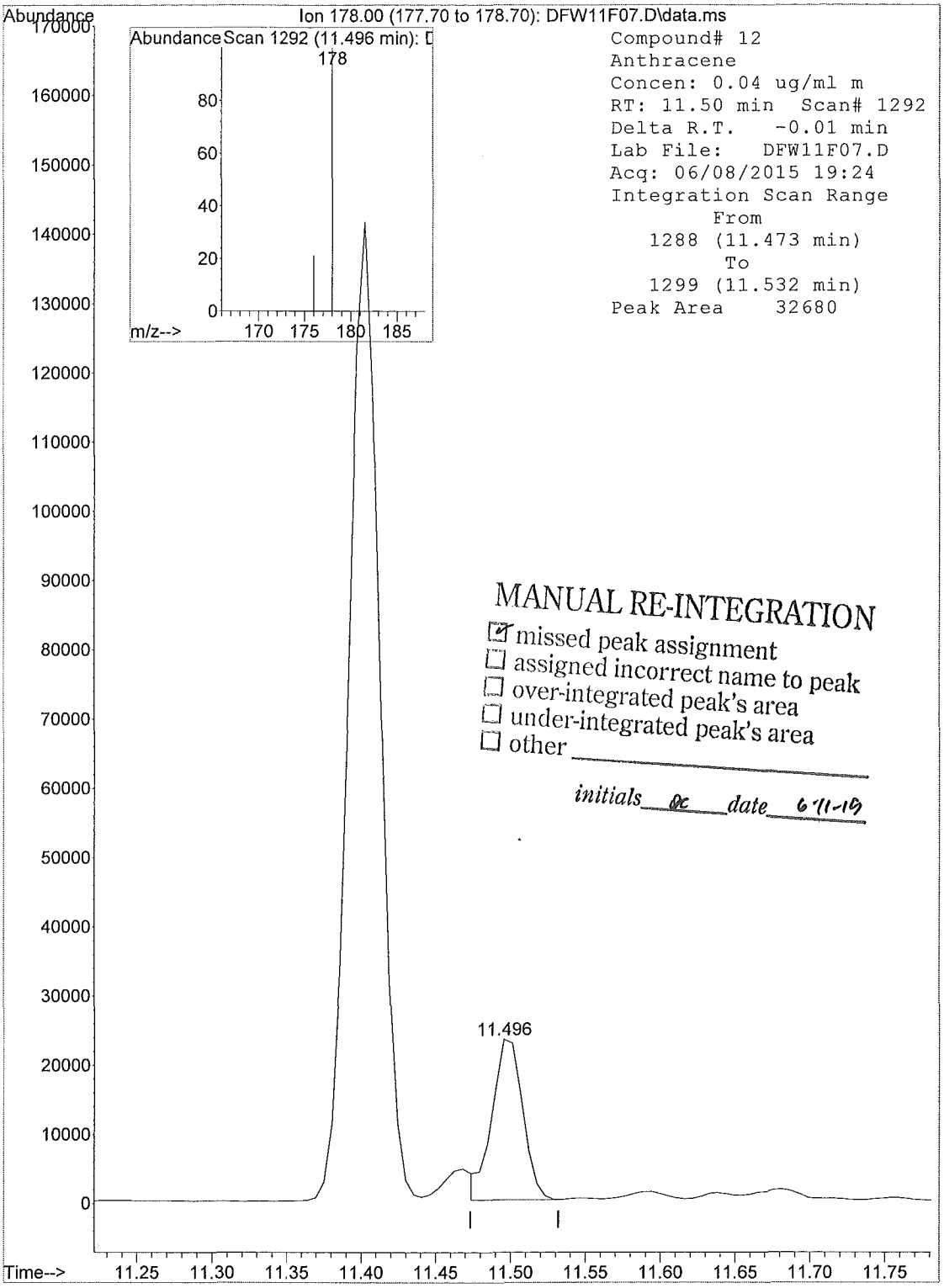
Data File : Z:\D\2015\JUN15\08JUN15\DFW11F07.D Vial: 10
Acq On : 06/08/2015 19:24 Operator: DJC
Sample : 1514293007 F9L64 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:57:53 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Qvalue
1) Naphthalene-d8	6.06	136	205245	0.40 ug/ml		
5) Acenaphthene-d10	8.72	164	145613	0.40 ug/ml		
9) Phenanthrene-d10	11.36	188	259836	0.40 ug/ml		
15) Chrysene-d12	15.51	240	254327	0.40 ug/ml		
19) Perylene-d12	18.01	264	265379	0.40 ug/ml		
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.01	152	93336	0.282ug/mL		
13) Fluoranthene-d10	13.50	212	227472	0.320ug/mL		
Target Compounds						
2) Naphthalene	0.00	128		Not Detected		
4) 2-Methylnaphthalene	7.05	142	7703	0.022ug/ml		99
6) Acenaphthylene	8.49	152	19838	0.031ug/ml		80
7) Acenaphthene	0.00	153		Not Detected		
8) Fluorene	0.00	166		Not Detected		
10) Pentachlorophenol	0.00	266		Not Detected		
11) Phenanthrene	11.40	178	205390	0.275ug/ml		98
12) Anthracene	11.50	178	32680	0.045ug/ml	m	91
14) Fluoranthene	13.53	202	145468	0.171ug/ml	DC 6-11-15	92
16) Pyrene	13.88	202	302418	0.379ug/ml		14
17) Benzo(a)anthracene	15.50	228	163735	0.241ug/ml		86
18) Chrysene	15.55	228	312404	0.436ug/ml		94
20) Benzo(b)fluoranthene	17.23	252	201956	0.244ug/ml		98
21) Benzo(k)fluoranthene	17.27	252	49391	0.058ug/ml	m	98
22) Benzo(a)pyrene	17.89	252	128182	0.162ug/ml	DC 6-11-15	94
23) Indeno(1,2,3-c,d)pyrene	20.84	276	101209	0.146ug/ml		100
24) Dibenzo(a,h)anthracene	20.91	278	33711	0.044ug/ml		97
25) Benzo(g,h,i)perylene	21.71	276	105880	0.136ug/ml		74

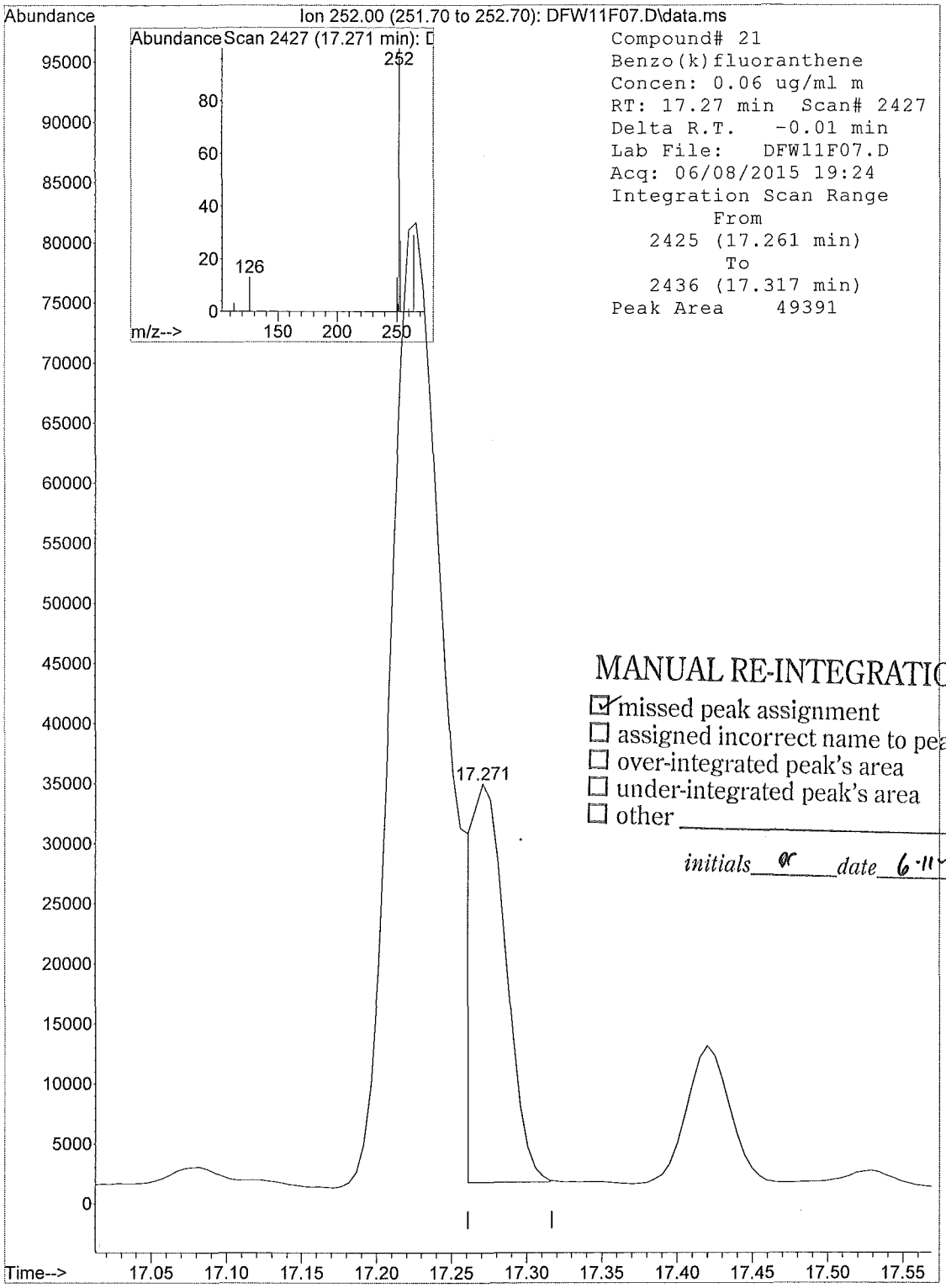
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

M A N U A L I N T E G R A T I O N FOR Anthracene



DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M 1514293007 F9L64 . SOIL SIM

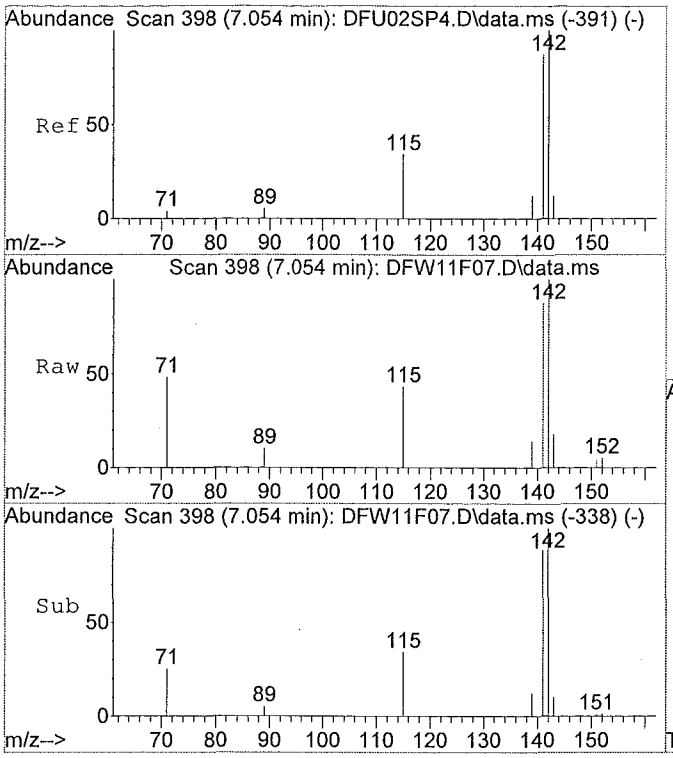
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

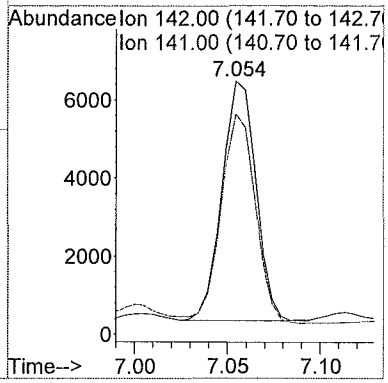
initials QR *date* 6-11-15

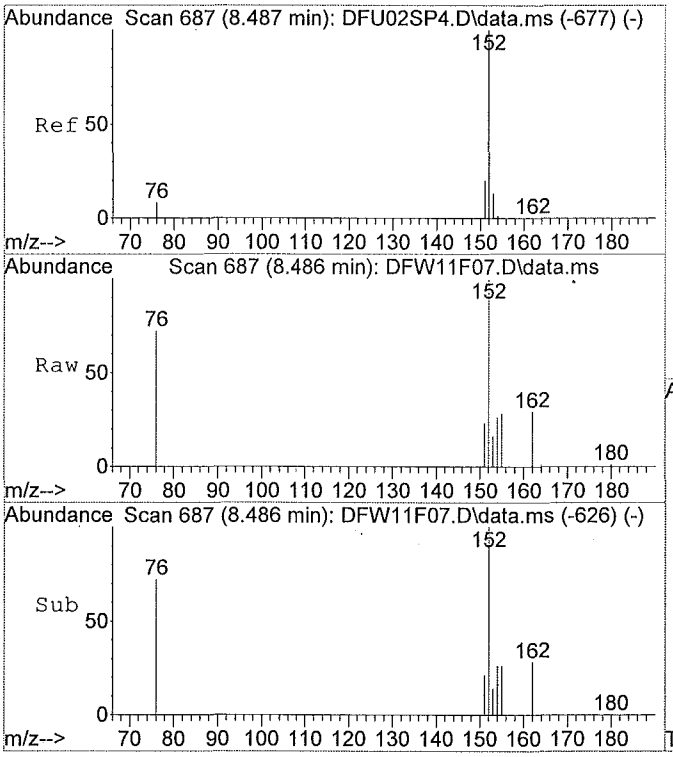


#4
2-Methylnaphthalene
Concen: 0.02 ug/ml
RT: 7.05 min Scan# 398
Delta R.T. -0.00 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:142 Resp: 7703

Ion	Ratio	Lower	Upper
142	100		
141	87.8	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

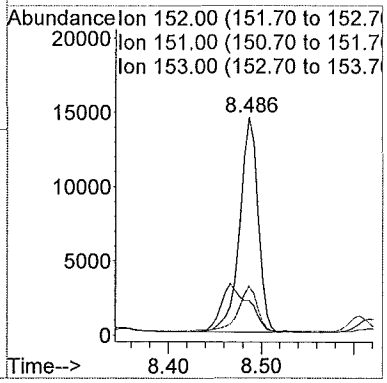


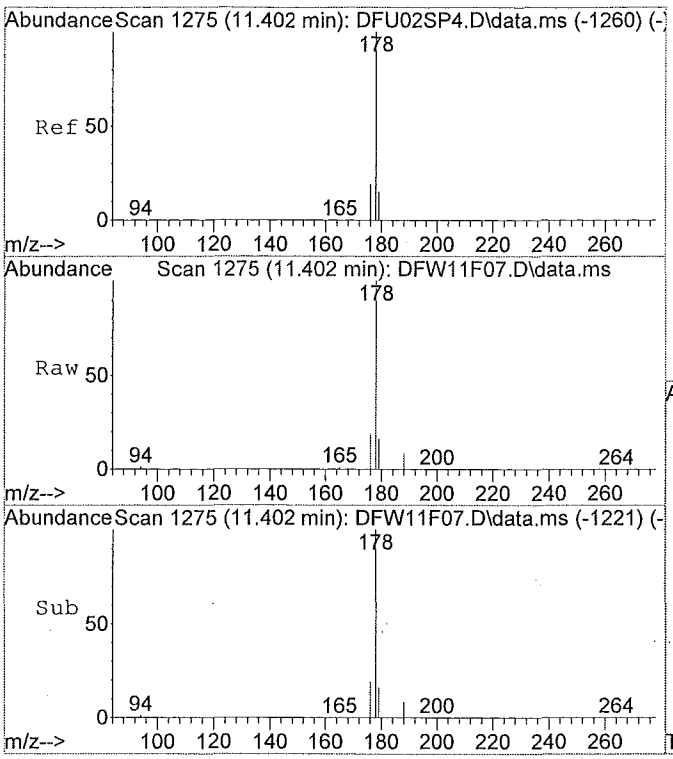


#6
Acenaphthylene
Concen: 0.03 ug/ml
RT: 8.49 min Scan# 687
Delta R.T. 0.00 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:152 Resp: 19838

Ion	Ratio	Lower	Upper
152	100		
151	21.9	15.5	28.7
153	33.8	8.8	16.4#
0	0.0	0.0	0.0

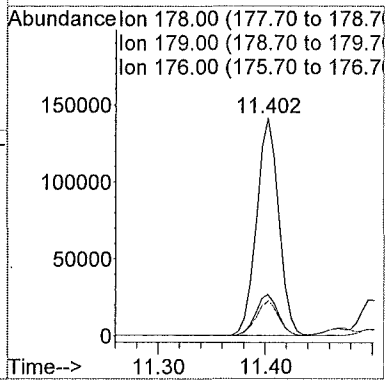


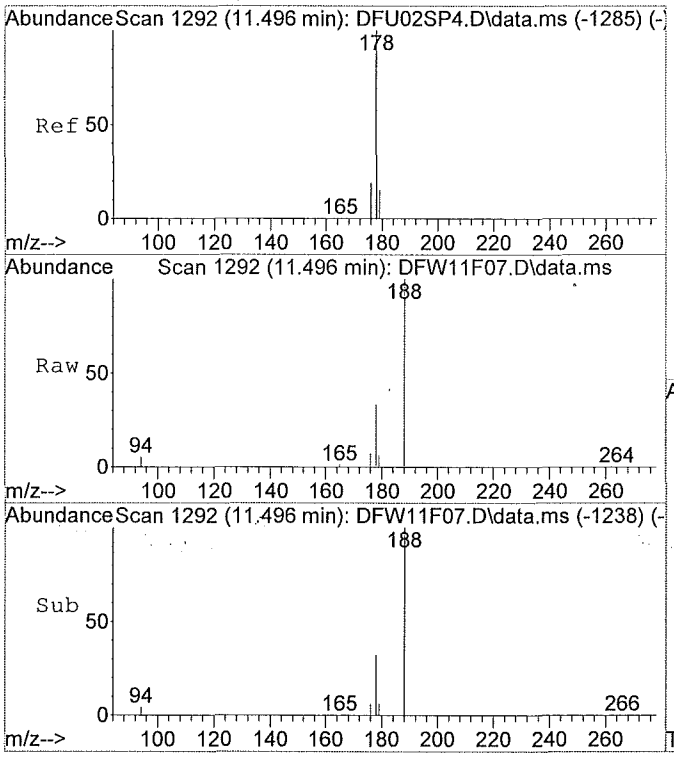


#11
Phenanthrene
Concen: 0.27 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:178 Resp: 205390

Ion	Ratio	Lower	Upper
178	100		
179	16.1	11.1	20.5
176	19.1	14.1	26.1
0	0.0	0.0	0.0

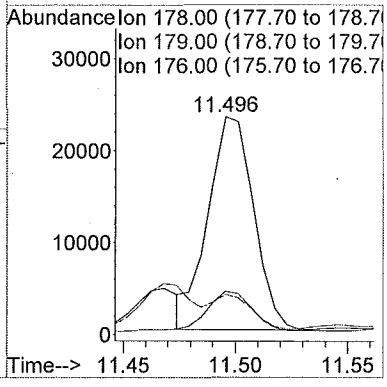


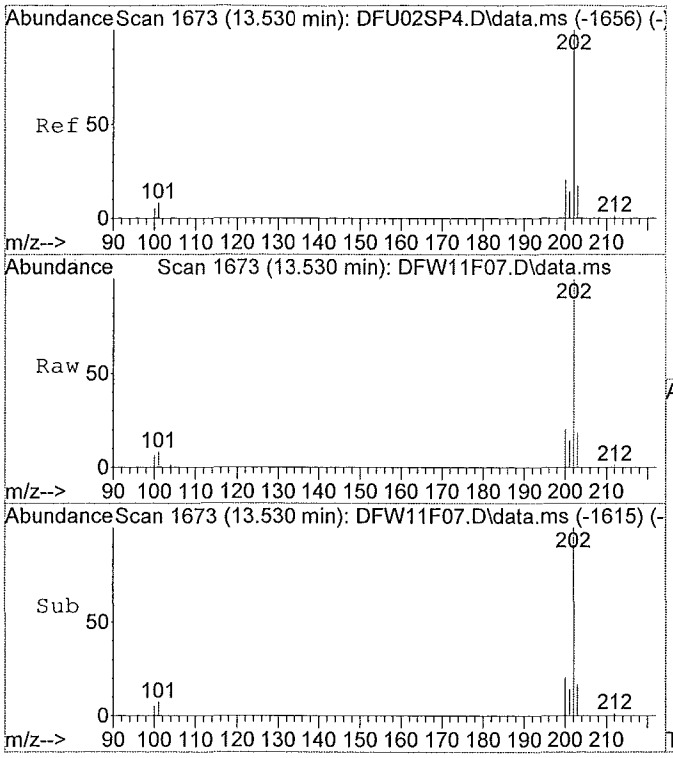


#12
Anthracene
Concen: 0.04 ug/ml m
RT: 11.50 min Scan# 1292
Delta R.T. -0.01 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:178 Resp: 32680

Ion	Ratio	Lower	Upper
178	100		
179	14.4	11.6	21.6
176	19.5	13.9	25.7
0	0.0	0.0	0.0

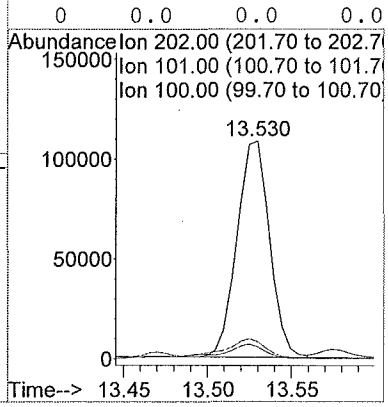


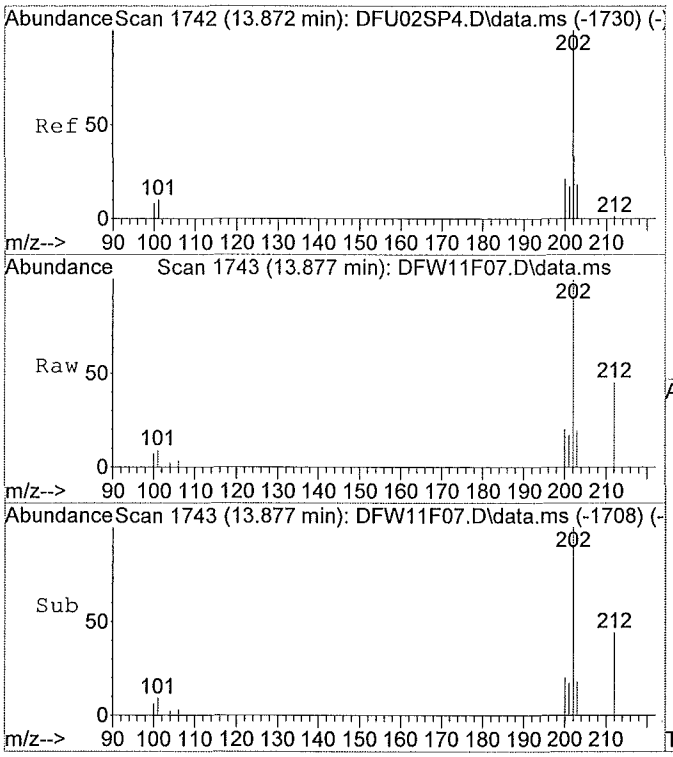


#14
Fluoranthene
Concen: 0.17 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:202 Resp: 145468

Ion	Ratio	Lower	Upper
202	100		
101	10.2	9.4	17.6
100	8.4	0.0	0.0#
0	0.0	0.0	0.0

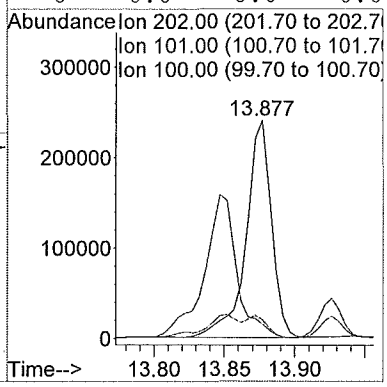


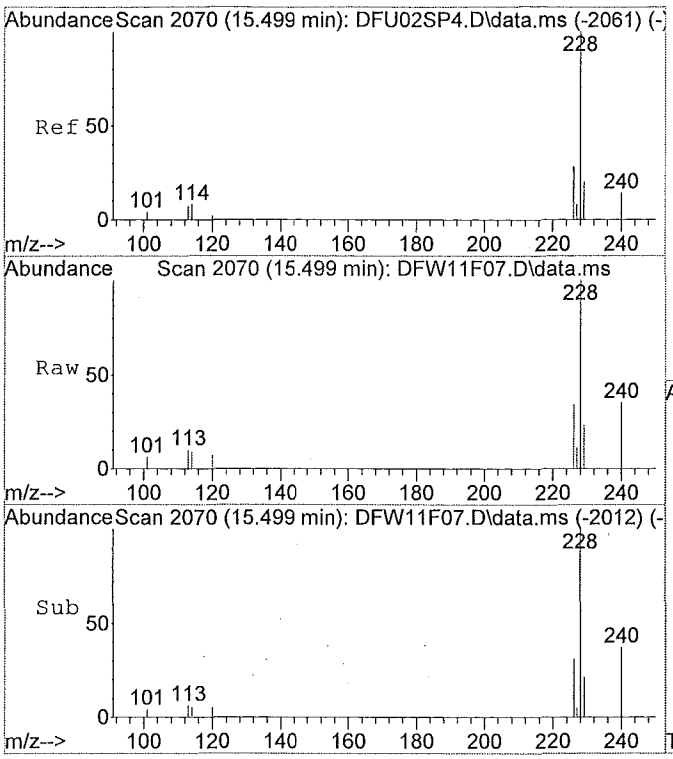


#16
Pyrene
Concen: 0.38 ug/ml
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:202 Resp: 302418

Ion	Ratio	Lower	Upper
202	100		
101	14.8	10.6	19.6
100	86.1	9.4	17.4#
0	0.0	0.0	0.0

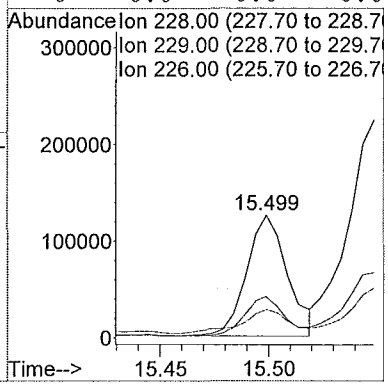


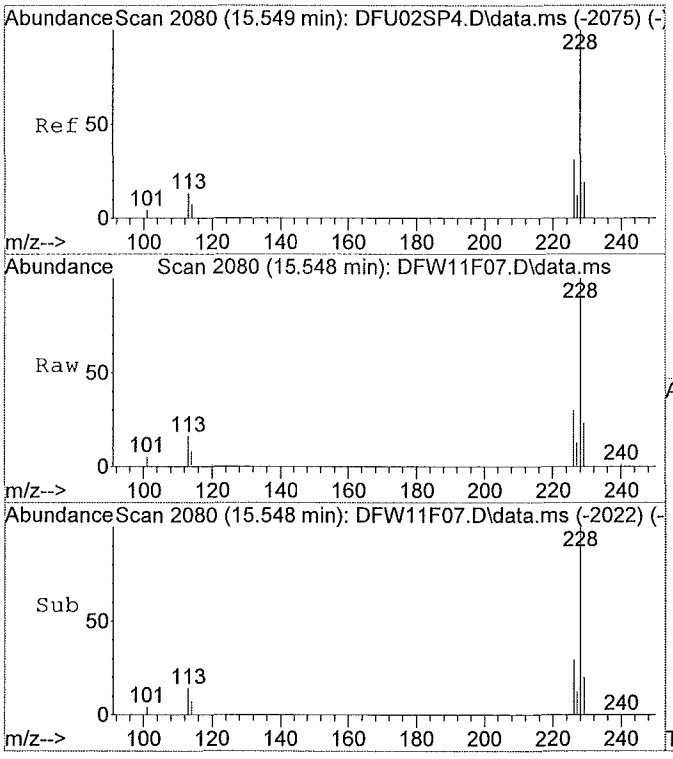


#17
Benzo(a)anthracene
Concen: 0.24 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:228 Resp: 163735

Ion	Ratio	Lower	Upper
228	100		
229	27.2	14.5	26.9#
226	33.8	18.5	34.3
0	0.0	0.0	0.0

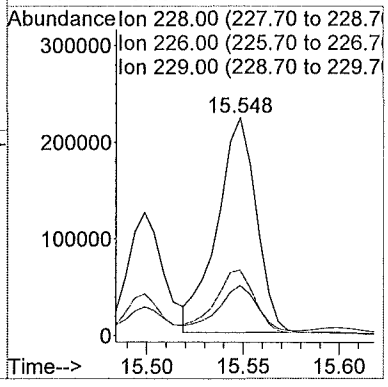


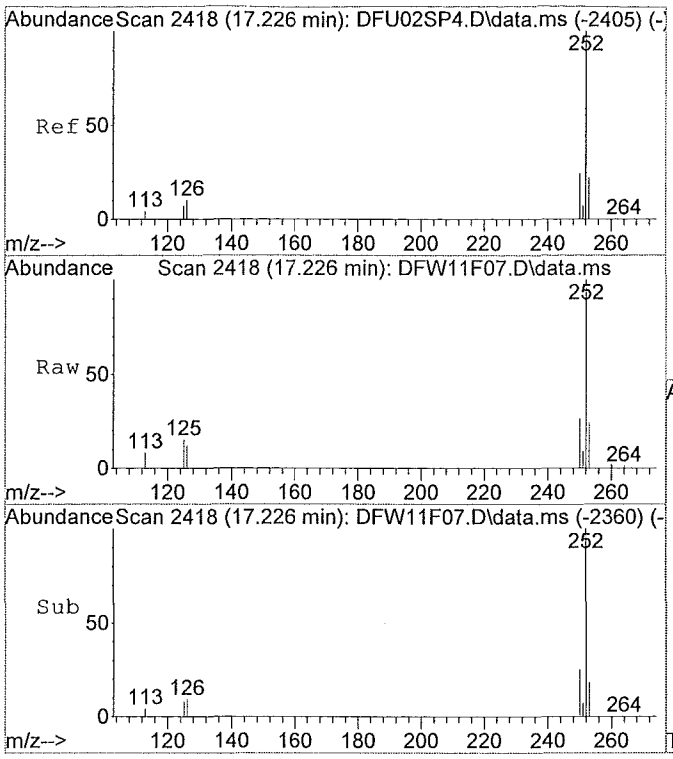


#18
Chrysene
Concen: 0.44 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:228 Resp: 312404

Ion	Ratio	Lower	Upper
228	100		
226	31.4	19.7	36.7
229	23.2	14.5	26.9
0	0.0	0.0	0.0

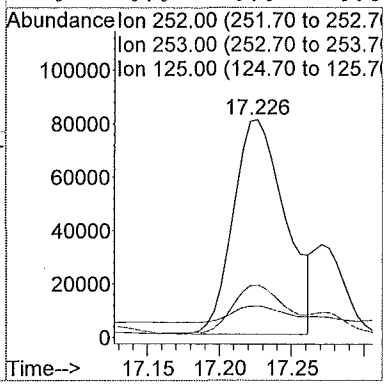


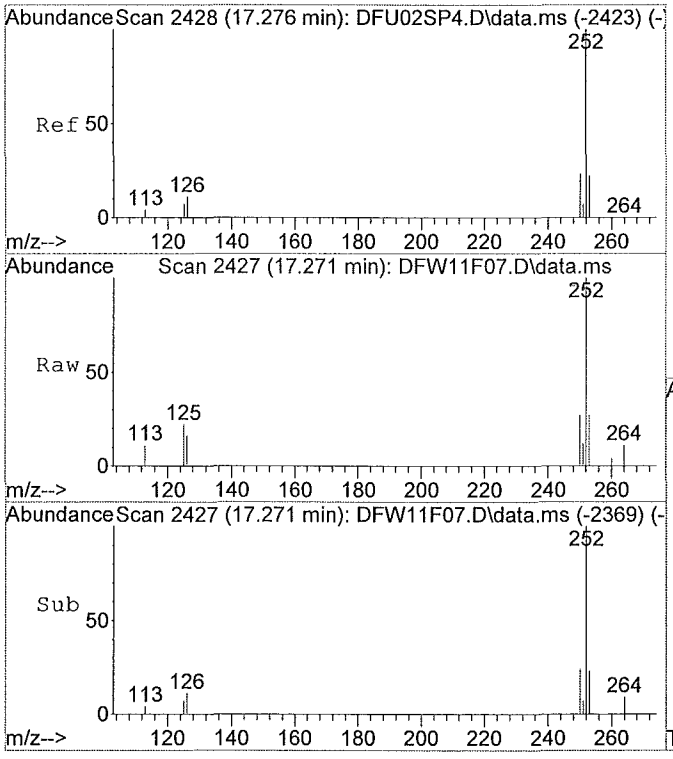


#20
Benzo(b)fluoranthene
Concen: 0.24 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:252 Resp: 201956

Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.3	28.3
125	9.6	0.0	0.0#
0	0.0	0.0	0.0

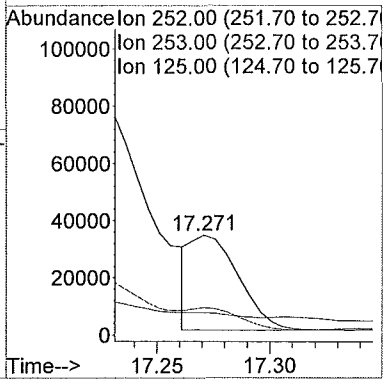


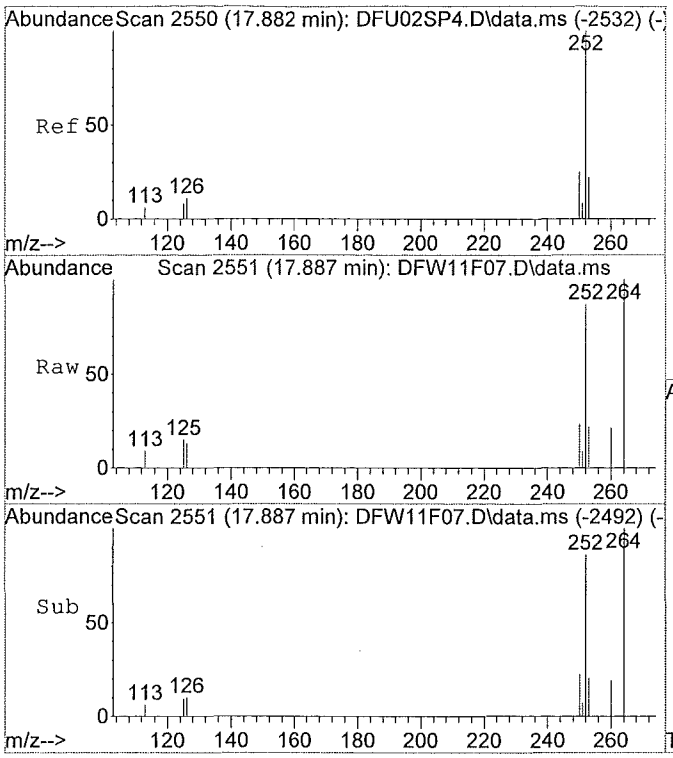


#21
Benzo(k)fluoranthene
Concen: 0.06 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:252 Resp: 49391

Ion	Ratio	Lower	Upper
252	100		
253	92.2	15.0	27.8#
125	39.1	0.0	0.0#
0	0.0	0.0	0.0

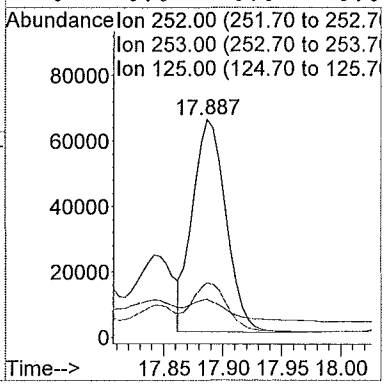


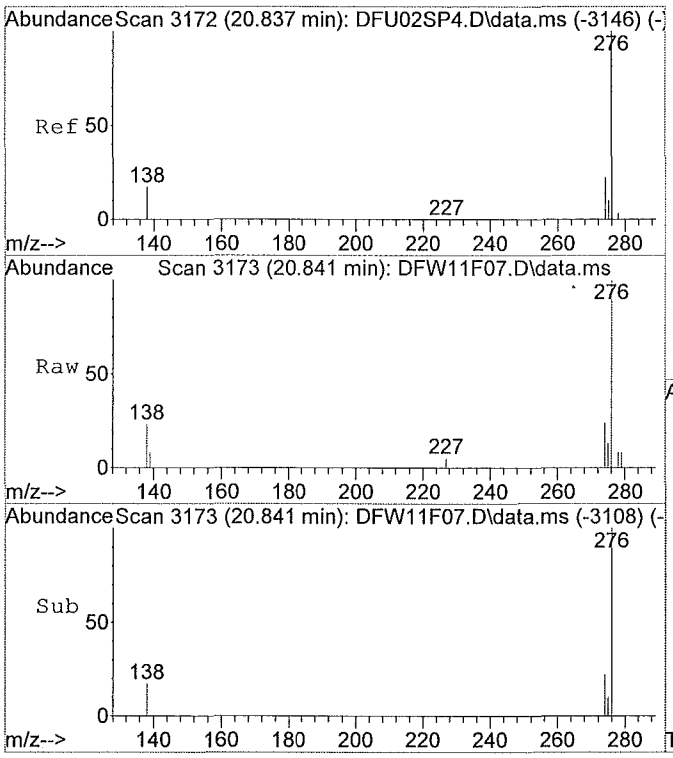


#22
Benzo(a)pyrene
Concen: 0.16 ug/ml
RT: 17.89 min Scan# 2551
Delta R.T. -0.00 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:252 Resp: 128182

Ion	Ratio	Lower	Upper
252	100		
253	24.0	15.0	27.8
125	12.1	0.0	0.0#
0	0.0	0.0	0.0

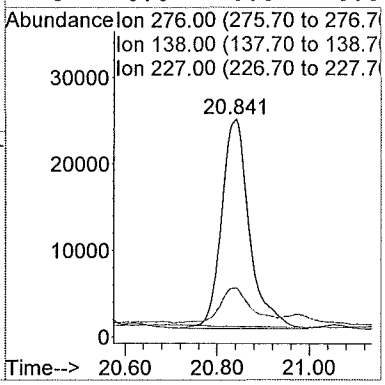


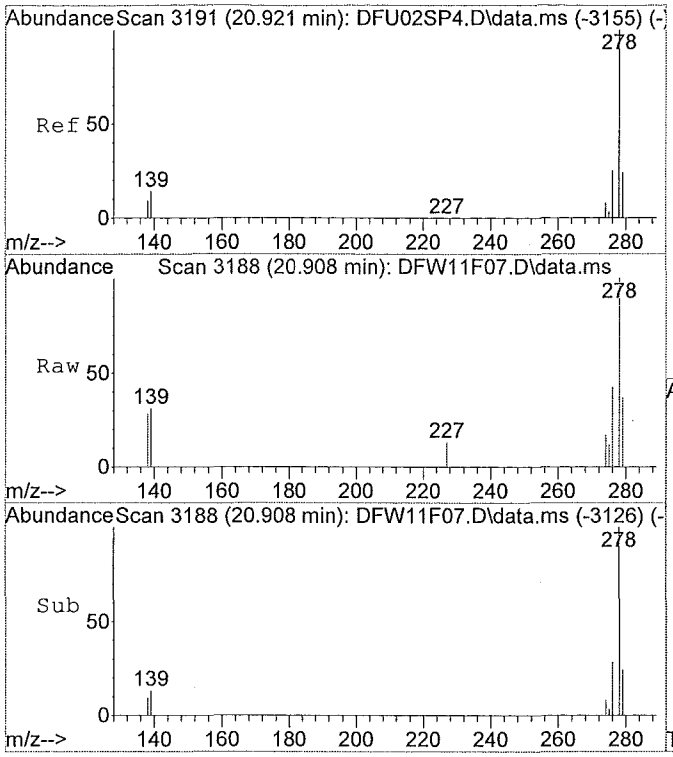


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.15 ug/ml
RT: 20.84 min Scan# 3173
Delta R.T. -0.01 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:276 Resp: 101209

Ion	Ratio	Lower	Upper
276	100		
138	17.4	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

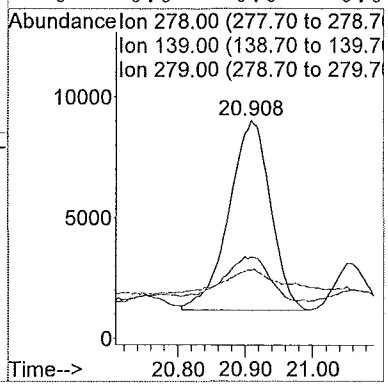


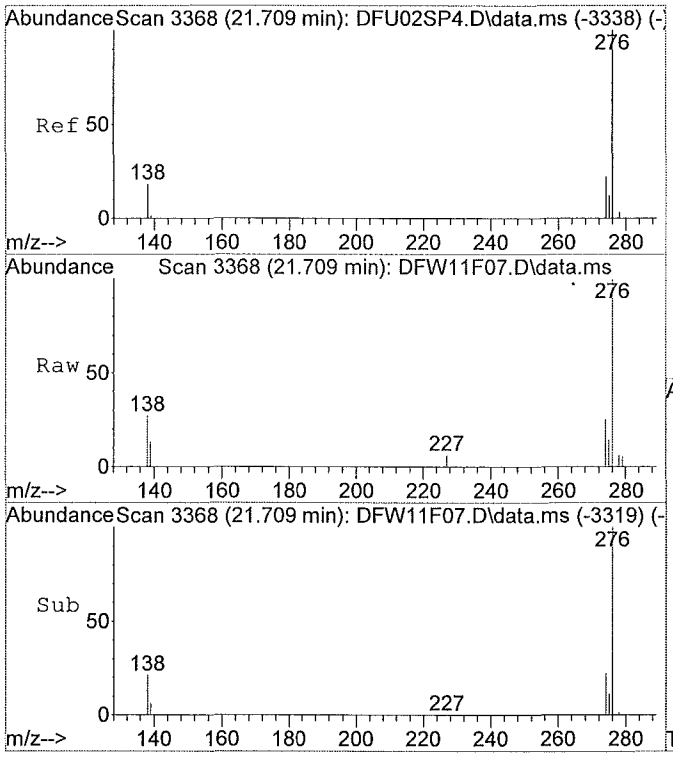


#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.91 min Scan# 3188
Delta R.T. -0.02 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:278 Resp: 33711

Ion	Ratio	Lower	Upper
278	100		
139	11.9	0.0	0.0#
279	23.9	15.8	29.3
0	0.0	0.0	0.0

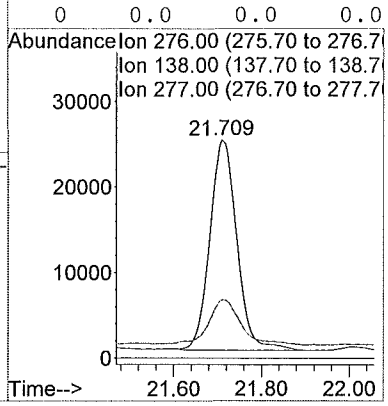




#25
Benzo(g,h,i)perylene
Concen: 0.14 ug/ml
RT: 21.71 min Scan# 3368
Delta R.T. -0.01 min
Lab File: DFW11F07.D
Acq: 06/08/2015 19:24

Tgt Ion:276 Resp: 105880

Ion	Ratio	Lower	Upper
276	100		
138	21.8	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293008

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFW12F08

Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	3.7	U
208-96-8	Acenaphthylene	1.3	J
83-32-9	Acenaphthene	1.4	J
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.5	U
85-01-8	Phenanthrene	1.6	J
120-12-7	Anthracene	1.2	J
206-44-0	Fluoranthene	4.2	
129-00-0	Pyrene	6.0	
56-55-3	Benzo(a)anthracene	5.2	
218-01-9	Chrysene	6.4	
205-99-2	Benzo(b)fluoranthene	9.7	
207-08-9	Benzo(k)fluoranthene	2.4	J
50-32-8	Benzo(a)pyrene	4.6	
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	
53-70-3	Dibenzo(a,h)anthracene	1.1	J
191-24-2	Benzo(g,h,i)perylene	2.7	J

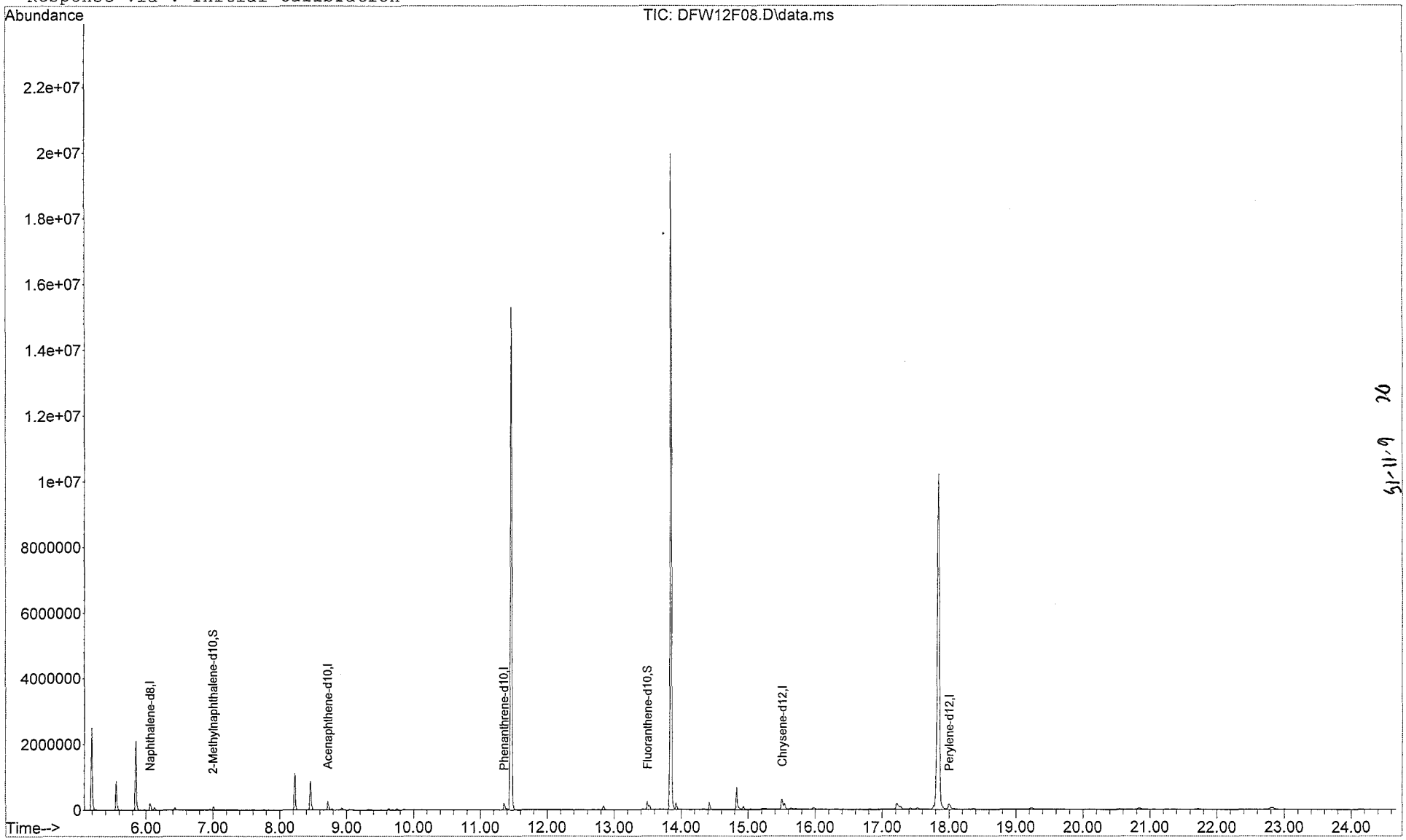
Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW12F08.D
Acq On : 06/08/2015 19:54
Sample : 1514293008 F9L65
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 11
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 14:58:57 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

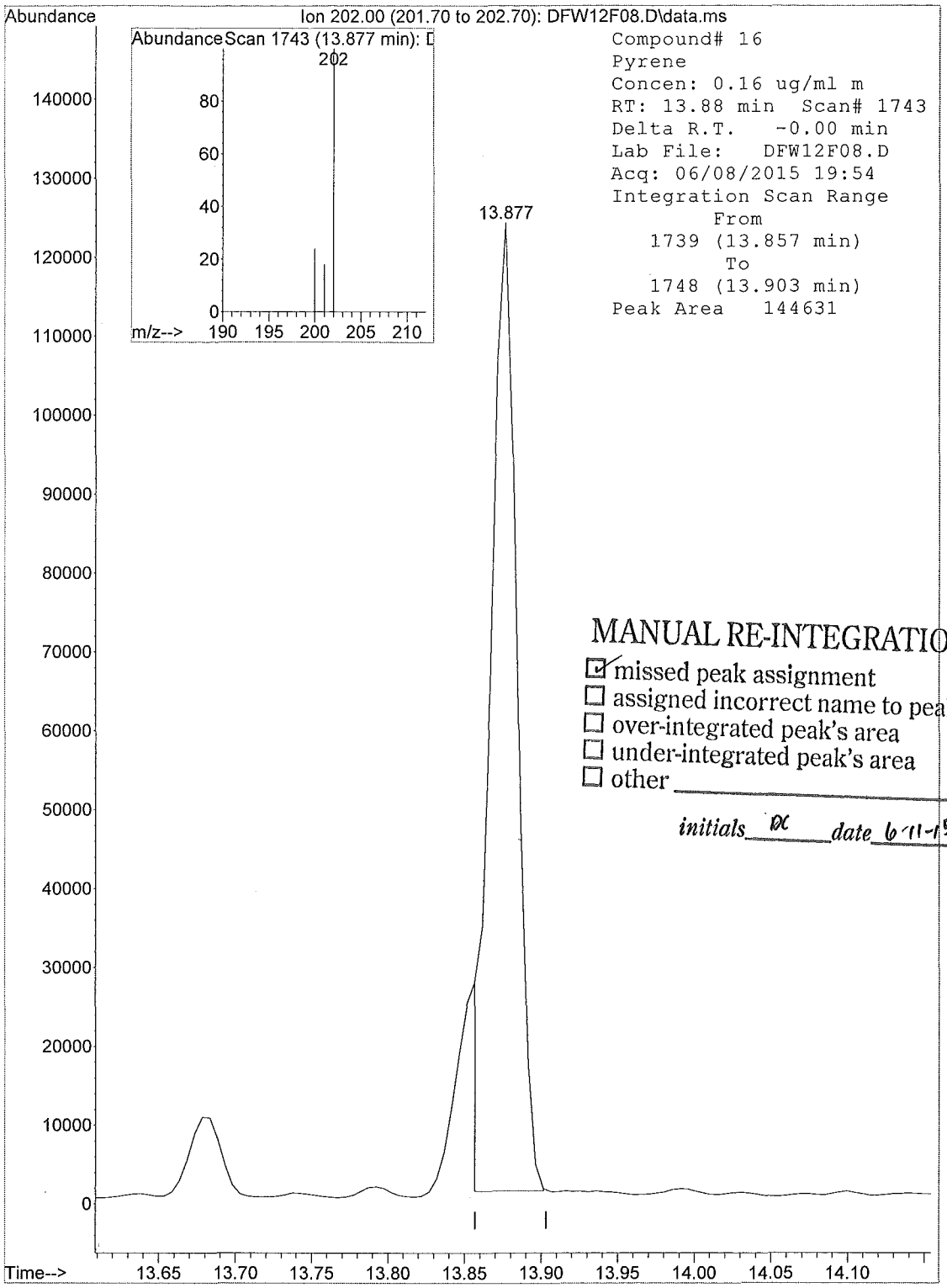
Data File : Z:\D\2015\JUN15\08JUN15\DFW12F08.D Vial: 11
Acq On : 06/08/2015 19:54 Operator: DJC
Sample : 1514293008 F9L65 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 14:58:57 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Qvalue
1) Naphthalene-d8	6.07	136	231617	0.40 ug/ml		
5) Acenaphthene-d10	8.72	164	164962	0.40 ug/ml		
9) Phenanthrene-d10	11.36	188	285473	0.40 ug/ml		
15) Chrysene-d12	15.51	240	287711	0.40 ug/ml		
19) Perylene-d12	18.01	264	299605	0.40 ug/ml		
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.01	152	112521	0.301ug/mL		
13) Fluoranthene-d10	13.50	212	260748	0.334ug/mL		
Target Compounds						Qvalue
2) Naphthalene	0.00	128		Not Detected		
4) 2-Methylnaphthalene	0.00	142		Not Detected		
6) Acenaphthylene	8.49	152	25330	0.035ug/ml		82
7) Acenaphthene	8.78	153	16813	0.036ug/ml		98
8) Fluorene	0.00	166		Not Detected		
10) Pentachlorophenol	0.00	266		Not Detected		
11) Phenanthrene	11.40	178	35918	0.044ug/ml		89
12) Anthracene	11.50	178	26455	0.033ug/ml		93
14) Fluoranthene	13.53	202	106568	0.114ug/ml		66
16) Pyrene	13.88	202	144631	0.160ug/ml	m	1
17) Benzo(a)anthracene	15.50	228	106666	0.139ug/ml	DC 6-11-15	89
18) Chrysene	15.55	228	140242	0.173ug/ml		97
20) Benzo(b)fluoranthene	17.23	252	242487	0.260ug/ml		99
21) Benzo(k)fluoranthene	17.27	252	63475	0.066ug/ml	m	98
22) Benzo(a)pyrene	17.89	252	110770	0.124ug/ml	DC 6-11-15	97
23) Indeno(1,2,3-c,d)pyrene	20.84	276	98074	0.126ug/ml		100
24) Dibenzo(a,h)anthracene	20.91	278	25128	0.029ug/ml		95
25) Benzo(g,h,i)perylene	21.71	276	63271	0.072ug/ml		70

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

M A N U A L I N T E G R A T I O N FOR Pyrene

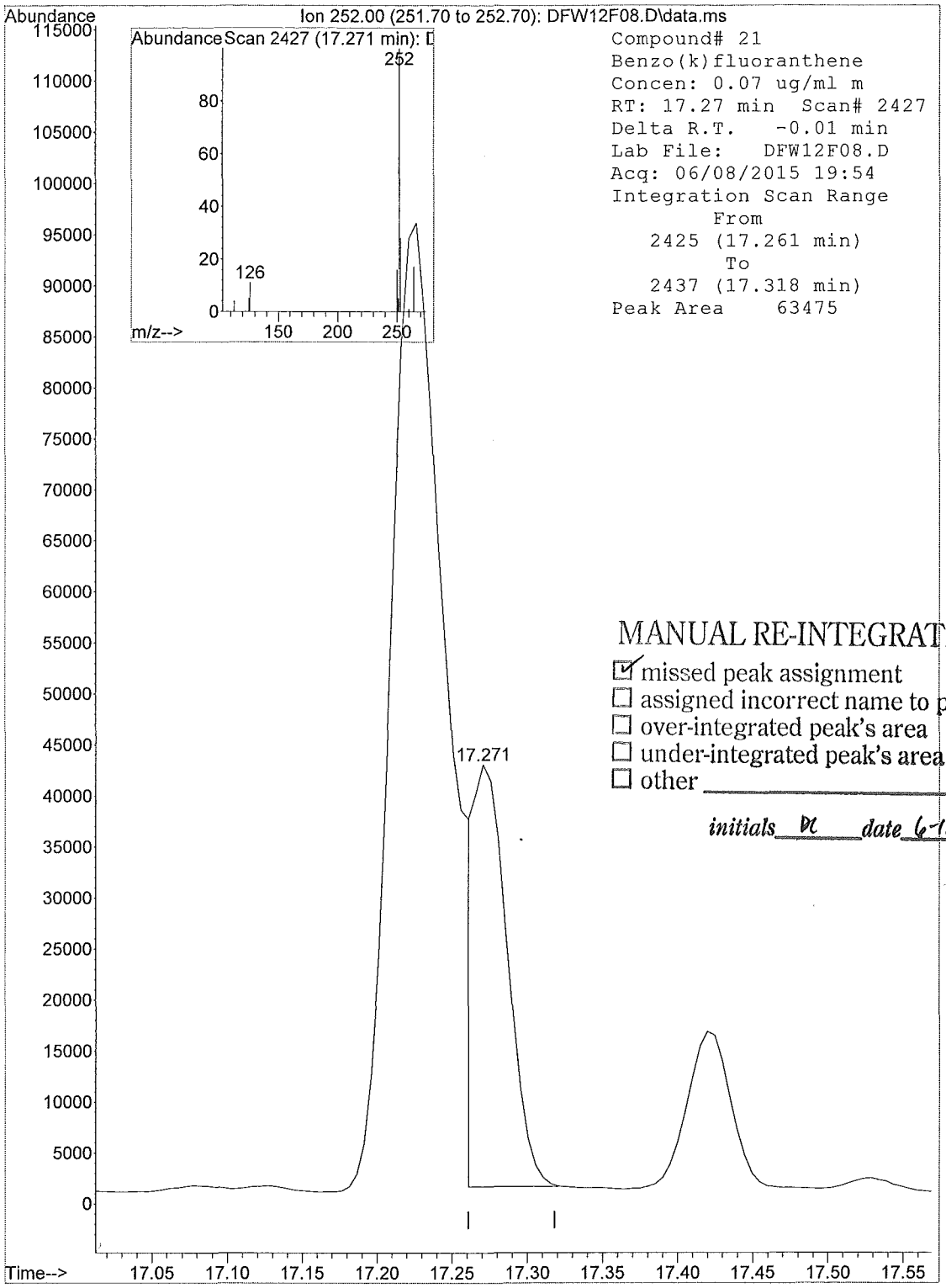


MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials DC *date* 6-11-15

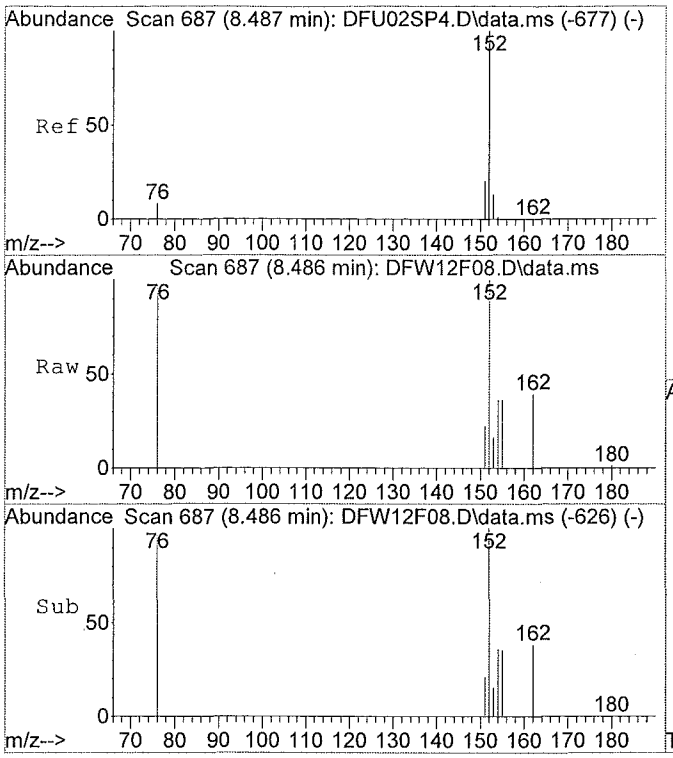
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

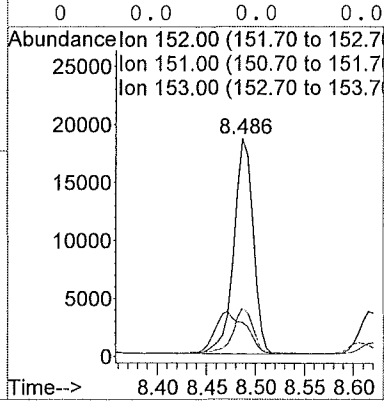
initials DC *date* 6-11-15

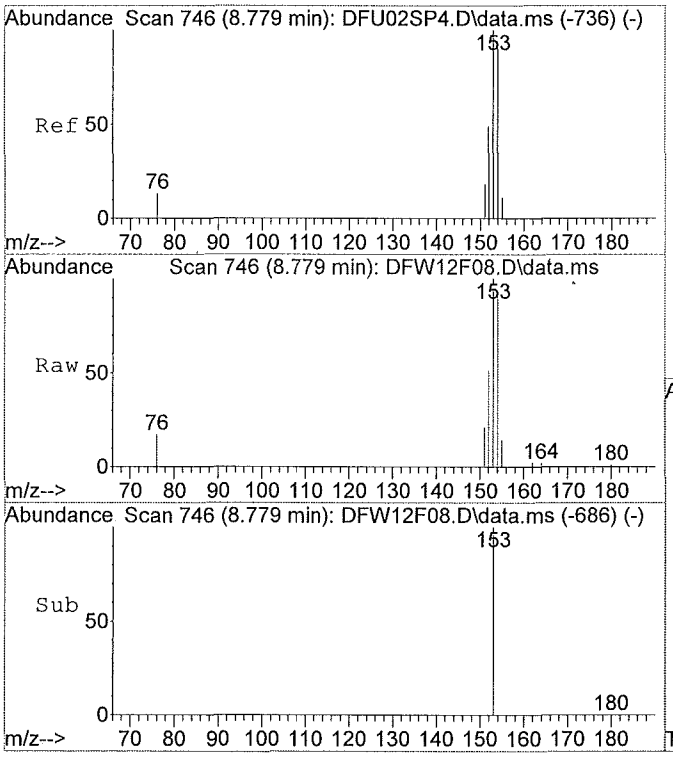


#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.49 min Scan# 687
Delta R.T. -0.00 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:152 Resp: 25330

Ion	Ratio	Lower	Upper
152	100		
151	21.2	15.5	28.7
153	31.1	8.8	16.4#
0	0.0	0.0	0.0

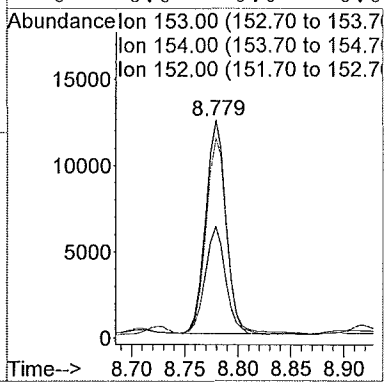


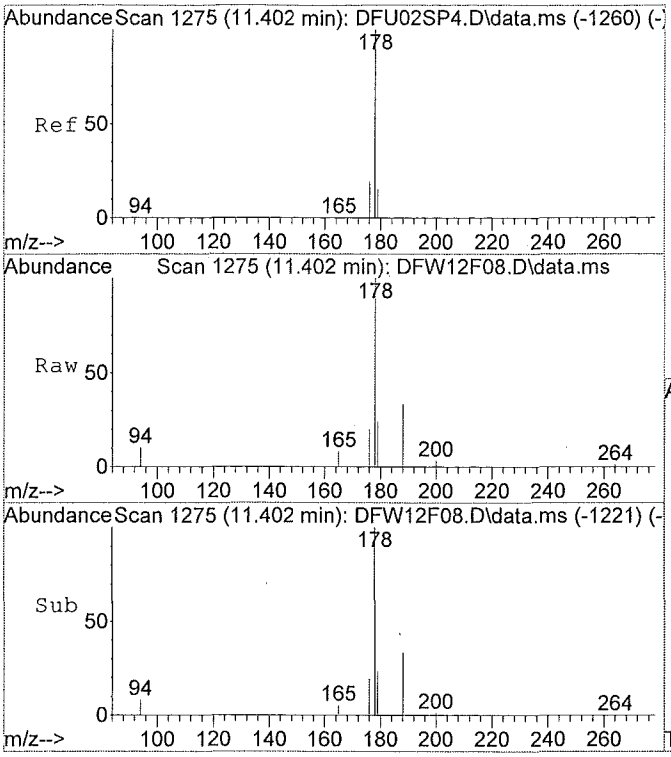


#7
Acenaphthene
Concen: 0.04 ug/ml
RT: 8.78 min Scan# 746
Delta R.T. -0.00 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:153 Resp: 16813

Ion	Ratio	Lower	Upper
153	100		
154	90.3	65.1	120.9
152	49.6	35.2	65.4
0	0.0	0.0	0.0

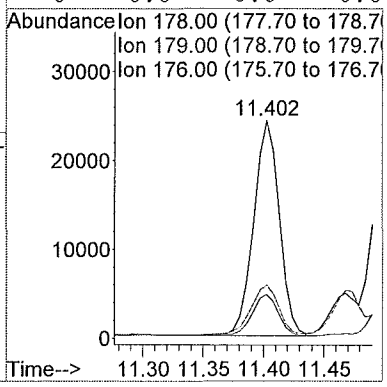


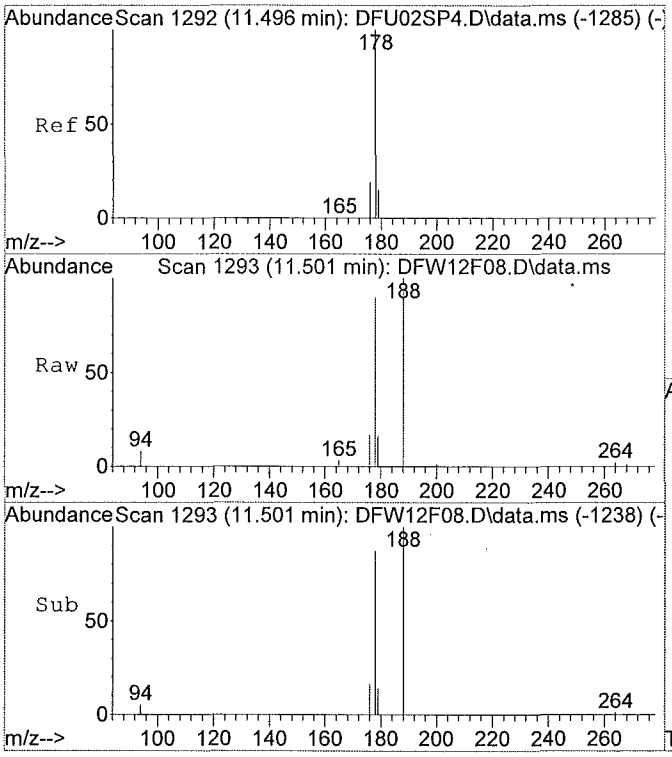


#11
Phenanthrene
Concen: 0.04 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:178 Resp: 35918

Ion	Ratio	Lower	Upper
178	100		
179	25.7	11.1	20.5#
176	20.2	14.1	26.1
0	0.0	0.0	0.0

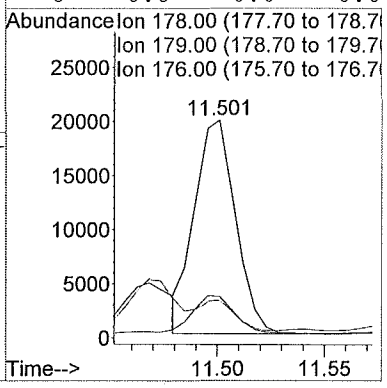


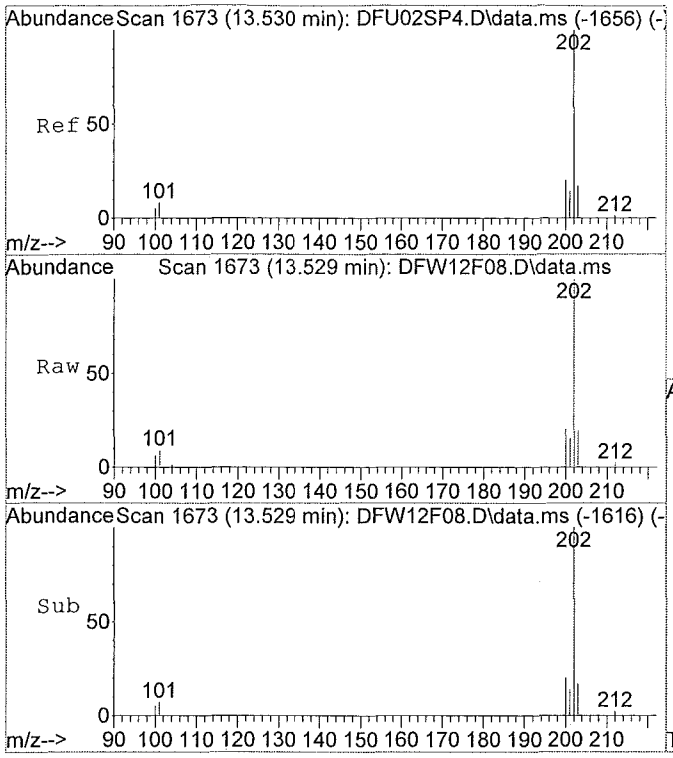


#12
Anthracene
Concen: 0.03 ug/ml
RT: 11.50 min Scan# 1293
Delta R.T. -0.00 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:178 Resp: 26455

Ion	Ratio	Lower	Upper
178	100		
179	12.1	11.6	21.6
176	21.4	13.9	25.7
0	0.0	0.0	0.0

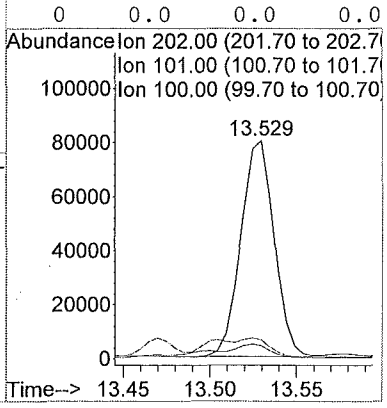


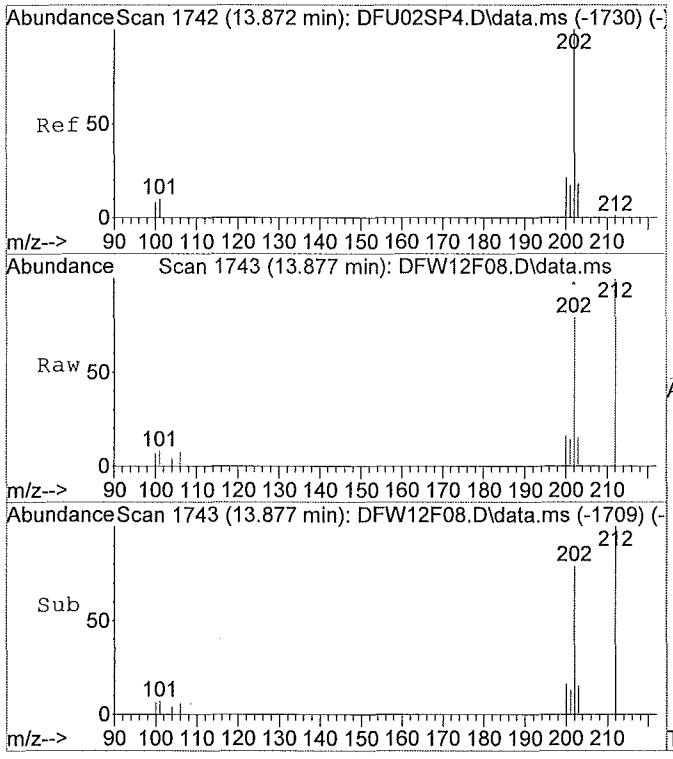


#14
Fluoranthene
Concen: 0.11 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:202 Resp: 106568

Ion	Ratio	Lower	Upper
202	100		
101	0.0	9.4	17.6#
100	6.1	0.0	0.0#
0	0.0	0.0	0.0

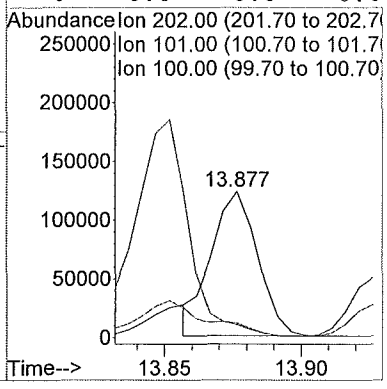


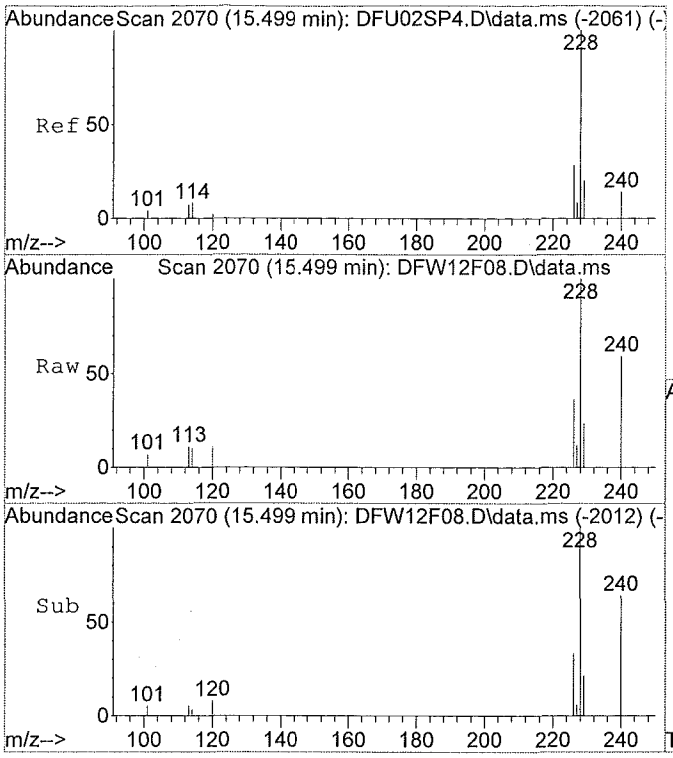


#16
Pyrene
Concen: 0.16 ug/ml m
RT: 13.88 min Scan# 1743
Delta R.T. -0.00 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:202 Resp: 144631

Ion	Ratio	Lower	Upper
202	100		
101	42.9	10.6	19.6#
100	195.6	9.4	17.4#
0	0.0	0.0	0.0

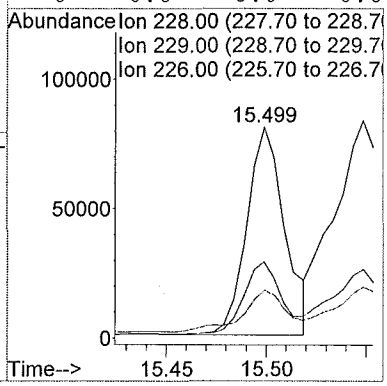


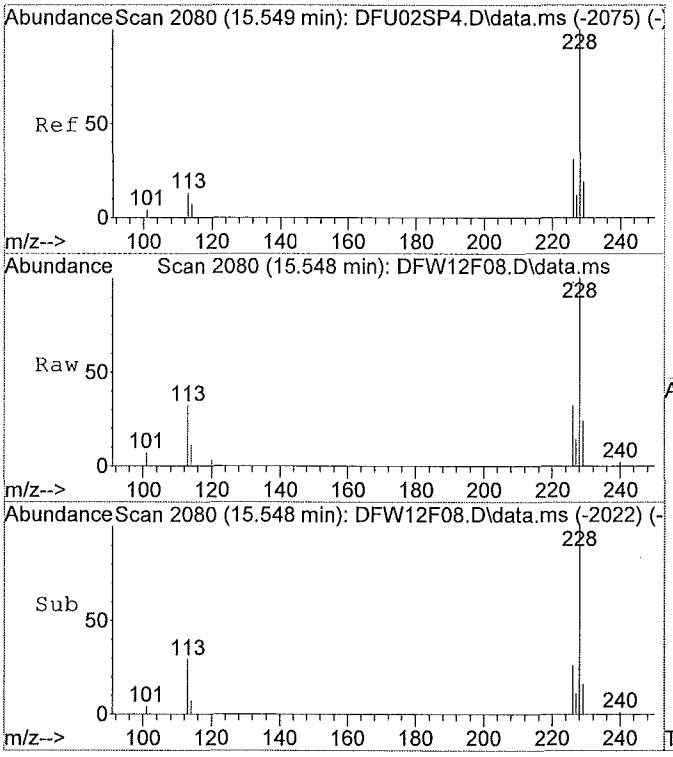


#17
Benzo(a)anthracene
Concen: 0.14 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:228 Resp: 106666

Ion	Ratio	Lower	Upper
228	100		
229	23.8	14.5	26.9
226	33.9	18.5	34.3
0	0.0	0.0	0.0

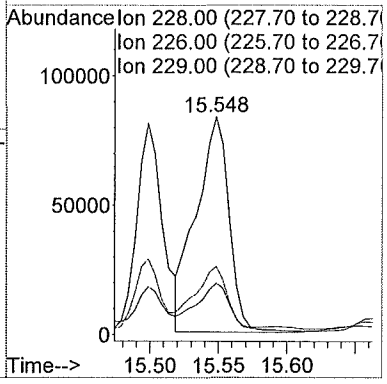


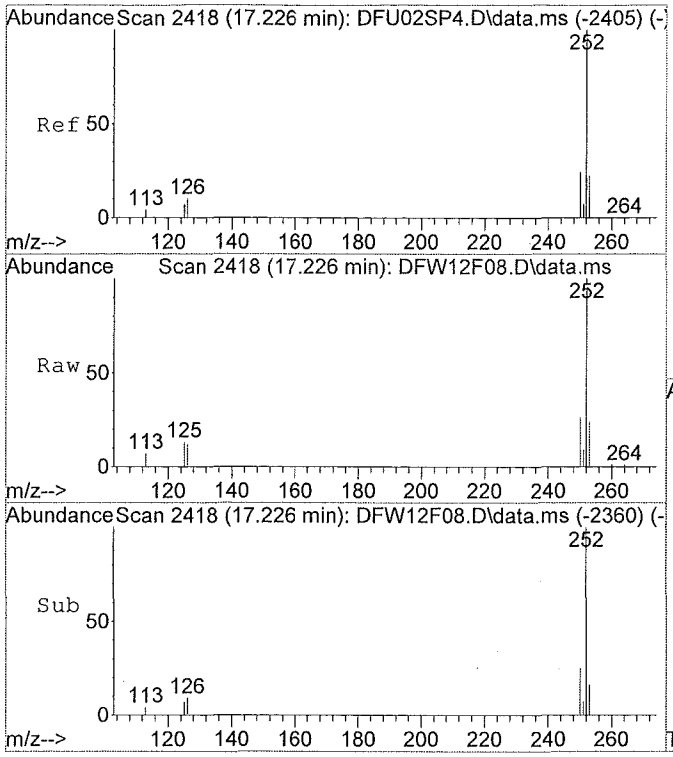


#18
Chrysene
Concen: 0.17 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:228 Resp: 140242

Ion	Ratio	Lower	Upper
228	100		
226	30.7	19.7	36.7
229	20.7	14.5	26.9
0	0.0	0.0	0.0

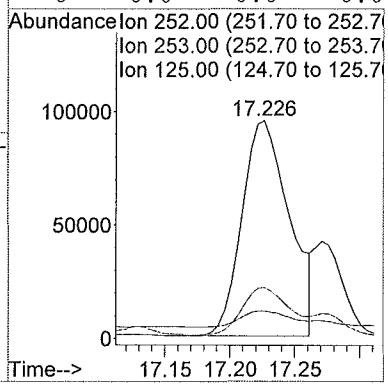


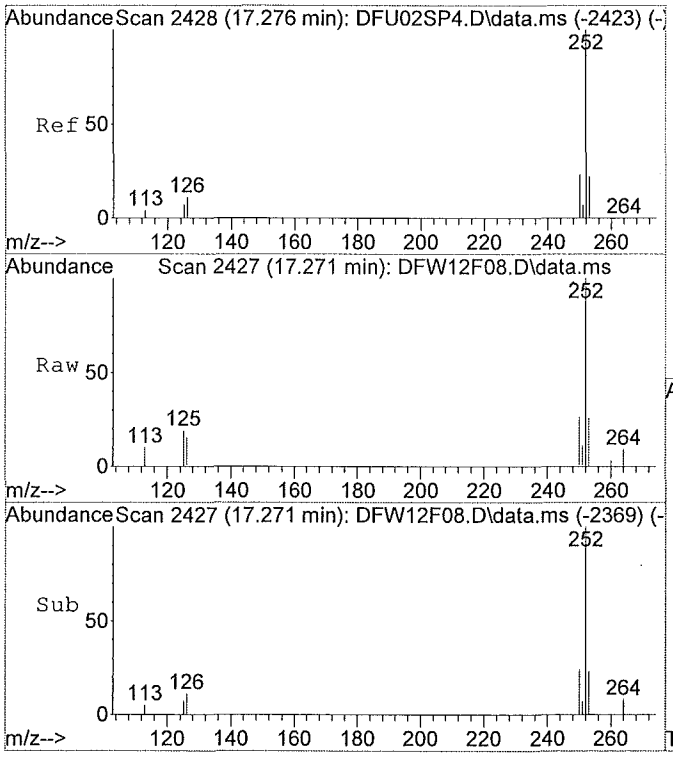


#20
Benzo(b)fluoranthene
Concen: 0.26 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:252 Resp: 242487

Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.3	28.3
125	8.1	0.0	0.0#
0	0.0	0.0	0.0

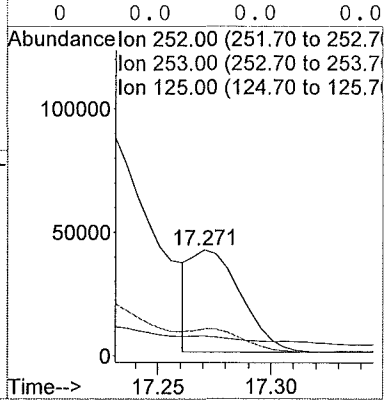


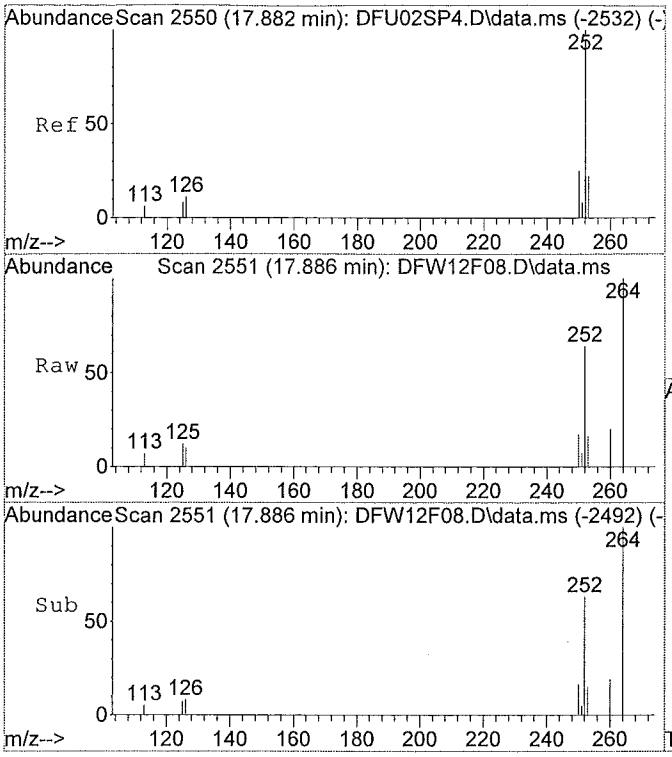


#21
Benzo(k)fluoranthene
Concen: 0.07 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:252 Resp: 63475

Ion	Ratio	Lower	Upper
252	100		
253	85.2	15.0	27.8#
125	30.8	0.0	0.0#
0	0.0	0.0	0.0

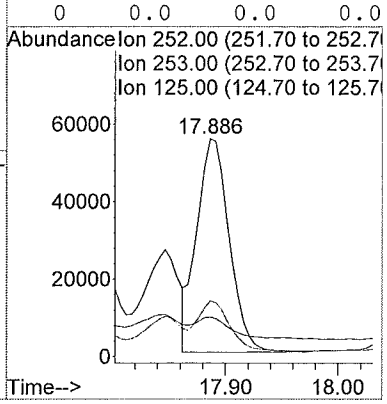


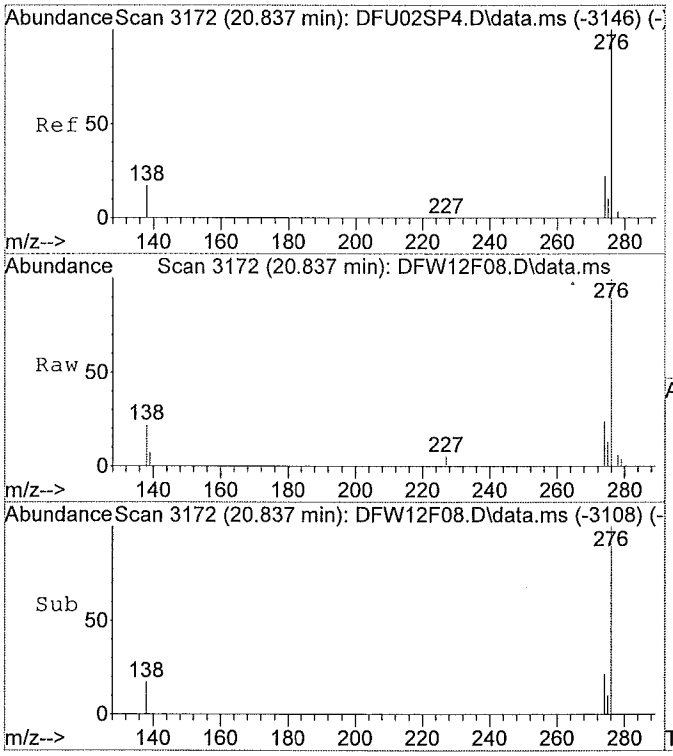


#22
Benzo(a)pyrene
Concen: 0.12 ug/ml
RT: 17.89 min Scan# 2551
Delta R.T. -0.00 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:252 Resp: 110770

Ion	Ratio	Lower	Upper
252	100		
253	23.0	15.0	27.8
125	11.7	0.0	0.0#
0	0.0	0.0	0.0

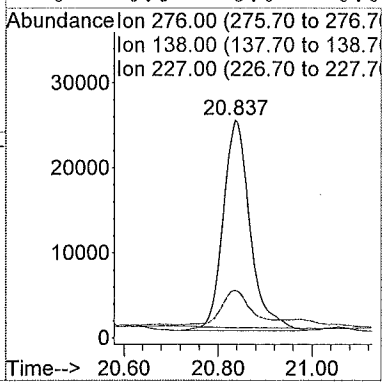


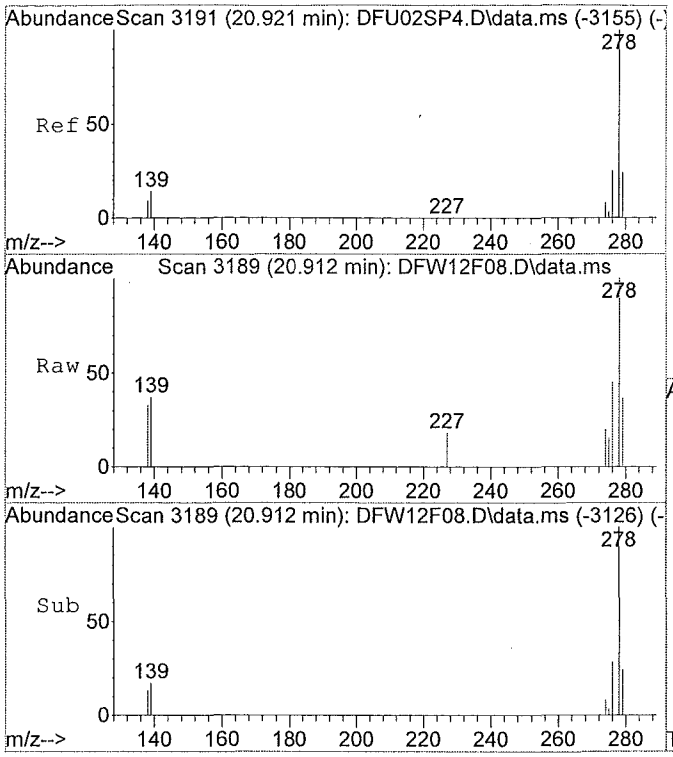


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.13 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:276 Resp: 98074

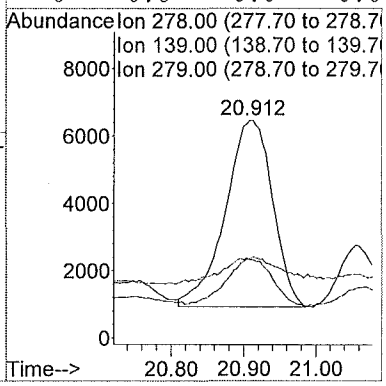
Ion	Ratio	Lower	Upper
276	100		
138	15.2	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

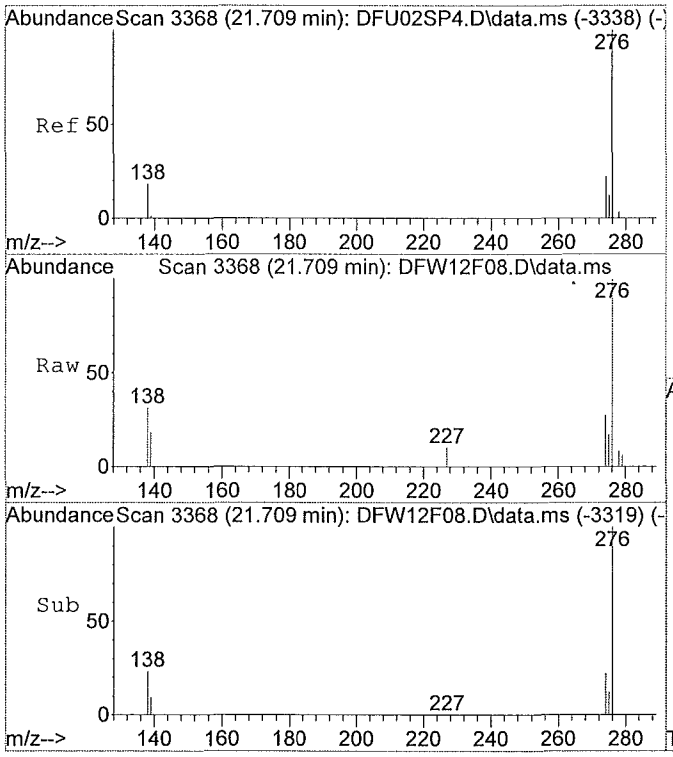




#24
Dibenzo(a,h)anthracene
Concen: 0.03 ug/ml
RT: 20.91 min Scan# 3189
Delta R.T. -0.02 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

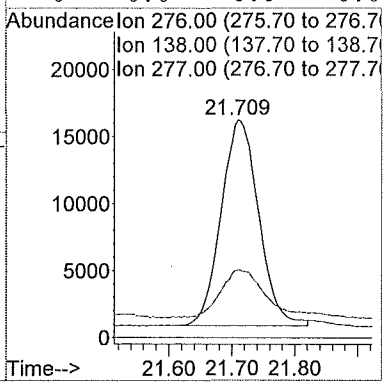
Tgt Ion:278	Resp:	25128	
Ion	Ratio	Lower	Upper
278	100		
139	13.6	0.0	0.0#
279	24.9	15.8	29.3
0	0.0	0.0	0.0





#25
Benzo(g,h,i)perylene
Concen: 0.07 ug/ml
RT: 21.71 min Scan# 3368
Delta R.T. -0.01 min
Lab File: DFW12F08.D
Acq: 06/08/2015 19:54

Tgt Ion:276	Resp:	63271	
Ion	Ratio	Lower	Upper
276	100		
138	29.0	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L66

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293009

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFW13F09

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

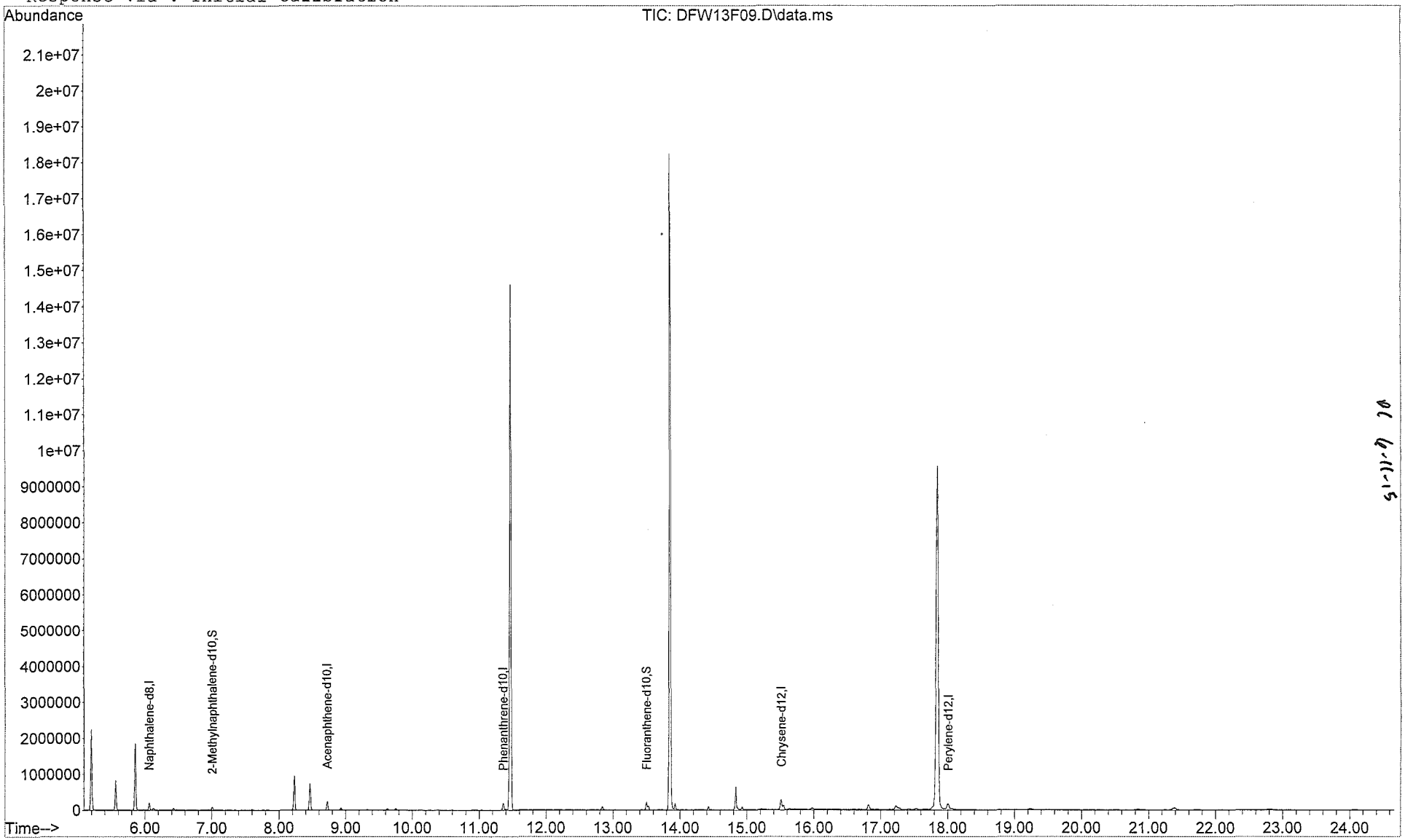
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.9	U
91-57-6	2-Methylnaphthalene	3.9	U
208-96-8	Acenaphthylene	3.9	U
83-32-9	Acenaphthene	3.9	U
86-73-7	Fluorene	3.9	U
87-86-5	Pentachlorophenol	7.8	U
85-01-8	Phenanthrene	1.3	J
120-12-7	Anthracene	3.9	U
206-44-0	Fluoranthene	4.0	
129-00-0	Pyrene	4.5	
56-55-3	Benzo(a)anthracene	3.9	
218-01-9	Chrysene	5.0	
205-99-2	Benzo(b)fluoranthene	5.4	
207-08-9	Benzo(k)fluoranthene	1.3	J
50-32-8	Benzo(a)pyrene	3.4	J
193-39-5	Indeno(1,2,3-cd)pyrene	2.7	J
53-70-3	Dibenzo(a,h)anthracene	3.9	U
191-24-2	Benzo(g,h,i)perylene	1.7	J

Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW13F09.D Vial: 12
Acq On : 06/08/2015 20:24 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 15:00:11 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

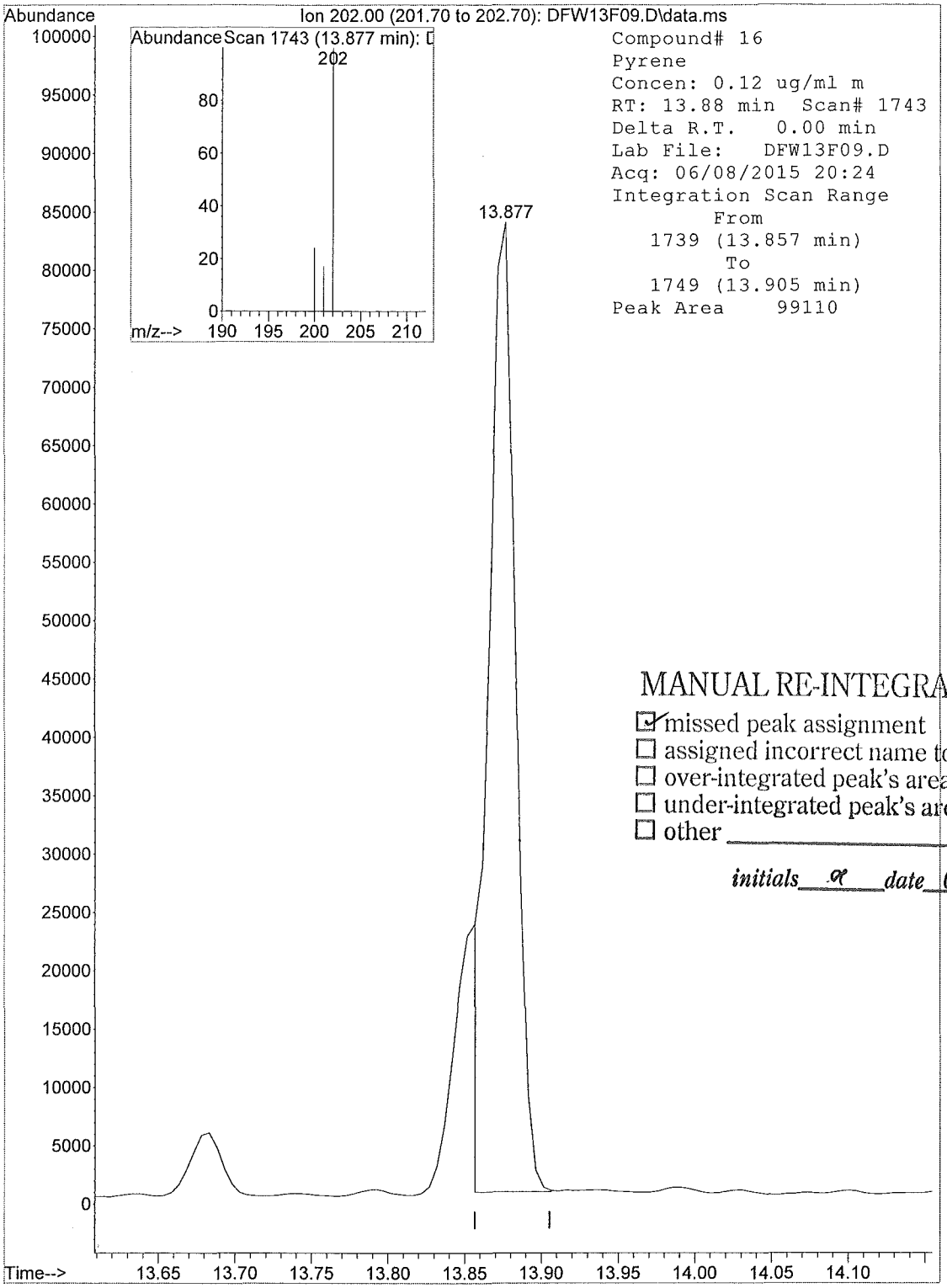
Data File : Z:\D\2015\JUN15\08JUN15\DFW13F09.D Vial: 12
Acq On : 06/08/2015 20:24 Operator: DJC
Sample : 1514293009 F9L66 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:00:11 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Qvalue
1) Naphthalene-d8	6.06	136	223753	0.40 ug/ml		
5) Acenaphthene-d10	8.72	164	156994	0.40 ug/ml		
9) Phenanthrene-d10	11.36	188	266266	0.40 ug/ml		
15) Chrysene-d12	15.51	240	273028	0.40 ug/ml		
19) Perylene-d12	18.01	264	295476	0.40 ug/ml		
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.01	152	97033	0.269ug/mL		
13) Fluoranthene-d10	13.50	212	232611	0.319ug/mL		
Target Compounds						
2) Naphthalene	0.00	128		Not Detected		
4) 2-Methylnaphthalene	0.00	142		Not Detected		
6) Acenaphthylene	0.00	152		Not Detected		
7) Acenaphthene	0.00	153		Not Detected		
8) Fluorene	0.00	166		Not Detected		
10) Pentachlorophenol	0.00	266		Not Detected		
11) Phenanthrene	11.40	178	25007	0.033ug/ml		92
12) Anthracene	0.00	178		Not Detected		
14) Fluoranthene	13.52	202	89735	0.103ug/ml		93
16) Pyrene	13.88	202	99110	0.116ug/ml	m	1
17) Benzo(a)anthracene	15.50	228	73545	0.101ug/ml	DC 6-11-15	93
18) Chrysene	15.55	228	98553	0.128ug/ml		97
20) Benzo(b)fluoranthene	17.22	252	127665	0.139ug/ml		98
21) Benzo(k)fluoranthene	17.27	252	32868	0.034ug/ml	m	97
22) Benzo(a)pyrene	17.89	252	76099	0.086ug/ml	DC 6-11-15	80
23) Indeno(1,2,3-c,d)pyrene	20.84	276	54396	0.071ug/ml		100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected		
25) Benzo(g,h,i)perylene	21.71	276	36848	0.043ug/ml		42

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

M A N U A L I N T E G R A T I O N FOR Pyrene

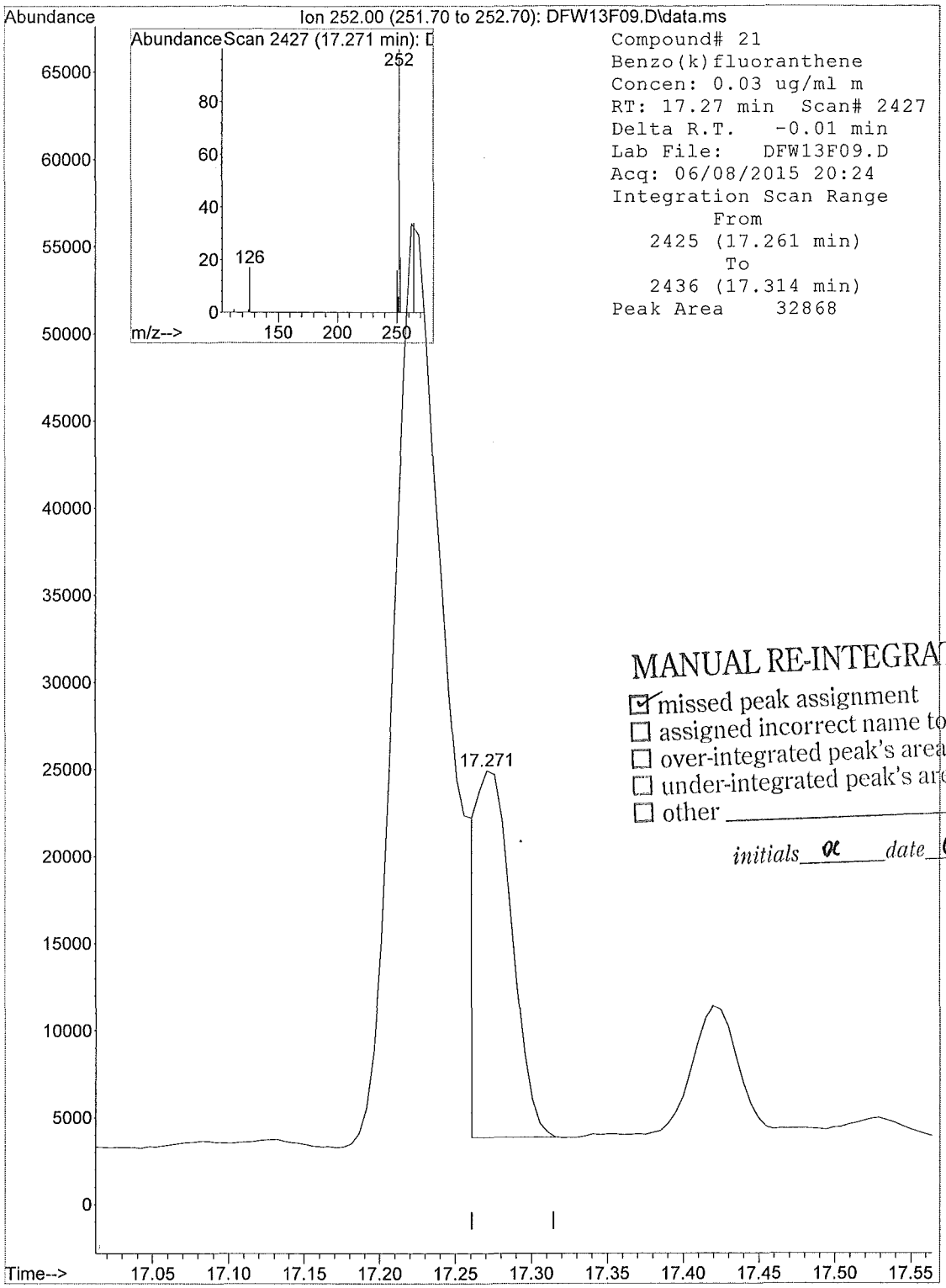


MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials ___ *date* 6-11-15

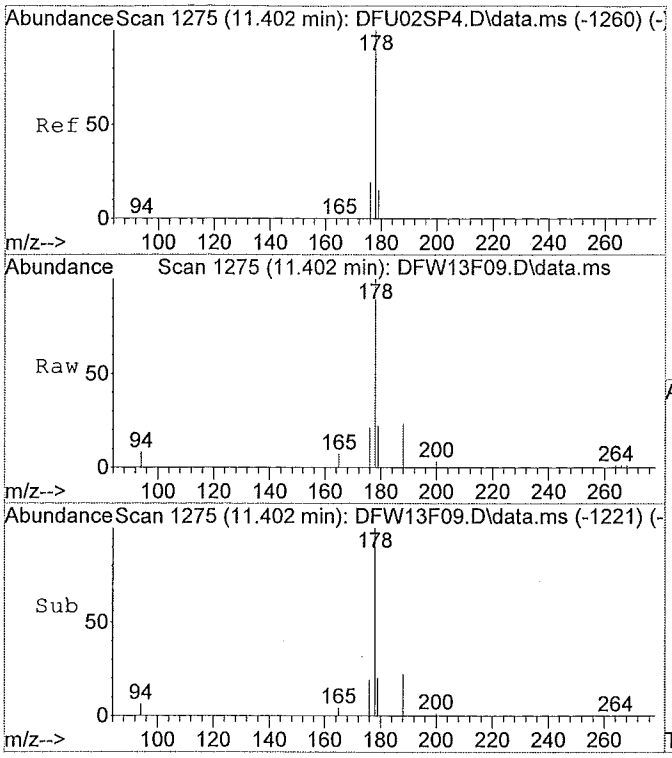
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

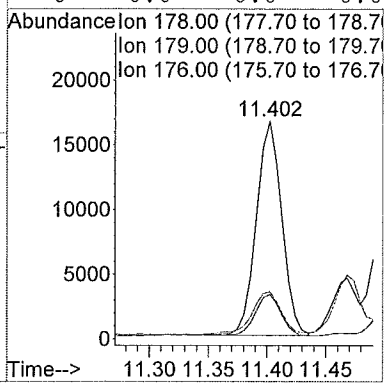
initials QC *date* 6-11-15

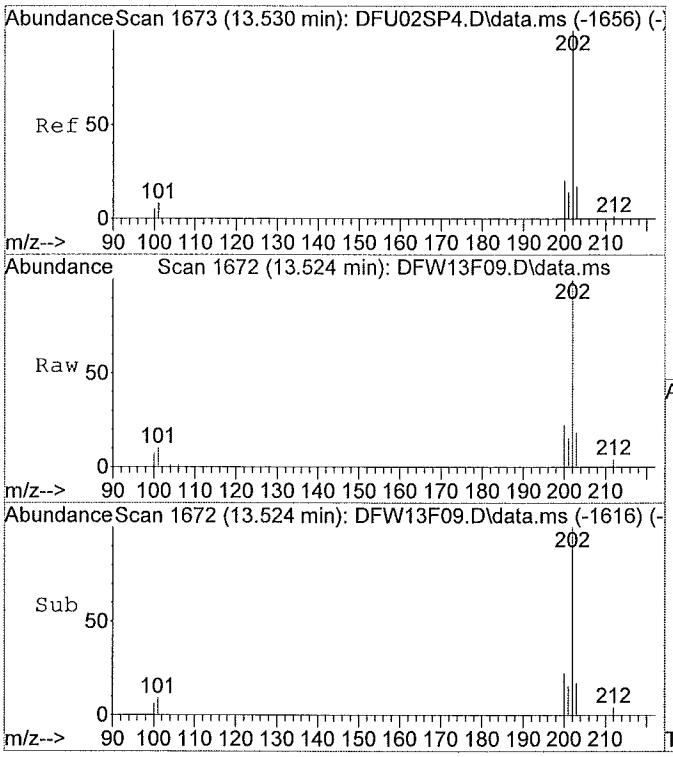


#11
Phenanthrene
Concen: 0.03 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:178 Resp: 25007

Ion	Ratio	Lower	Upper
178	100		
179	23.0	11.1	20.5#
176	20.1	14.1	26.1
0	0.0	0.0	0.0

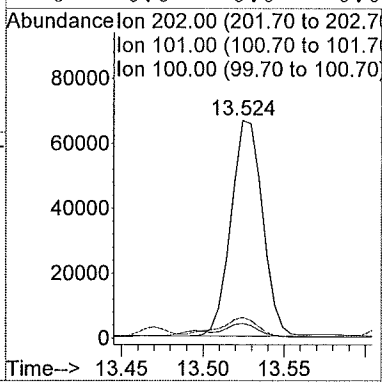


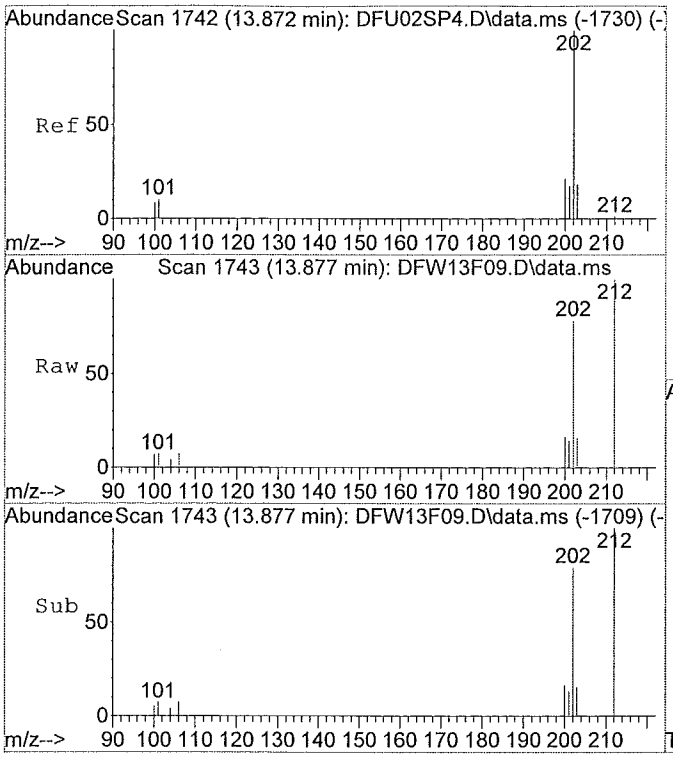


#14
Fluoranthene
Concen: 0.10 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:202 Resp: 89735

Ion	Ratio	Lower	Upper
202	100		
101	10.7	9.4	17.6
100	6.6	0.0	0.0#
0	0.0	0.0	0.0

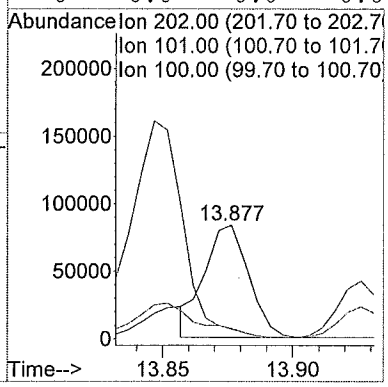


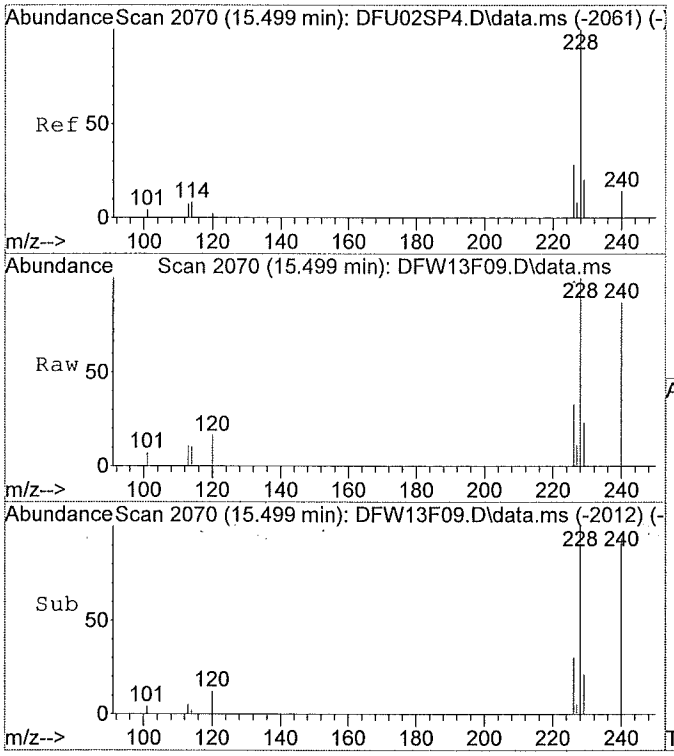


#16
Pyrene
Concen: 0.12 ug/ml m
RT: 13.88 min Scan# 1743
Delta R.T. 0.00 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:202 Resp: 99110

Ion	Ratio	Lower	Upper
202	100		
101	52.3	10.6	19.6#
100	253.7	9.4	17.4#
0	0.0	0.0	0.0

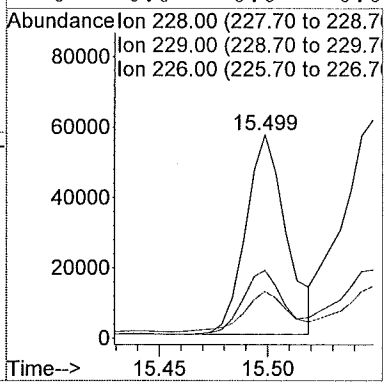


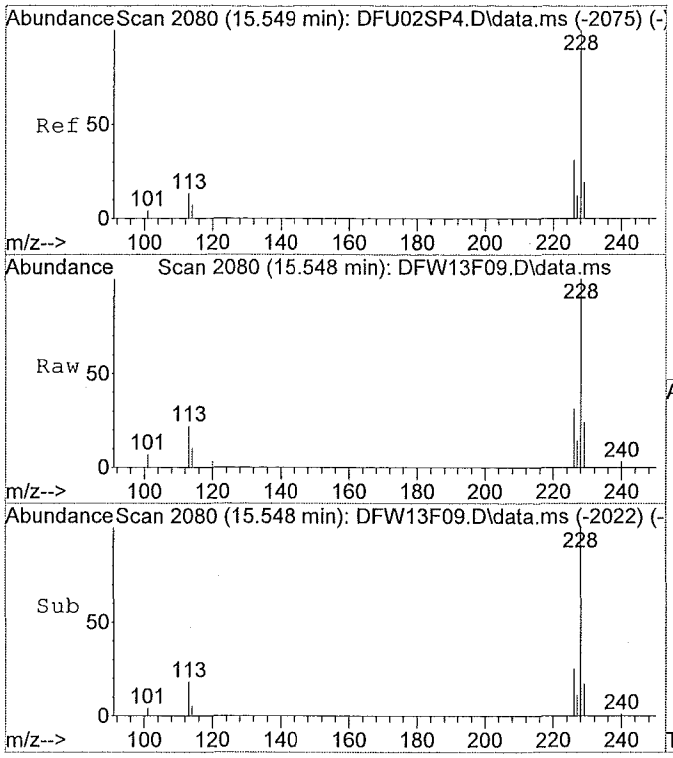


#17
Benzo(a)anthracene
Concen: 0.10 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:228 Resp: 73545

Ion	Ratio	Lower	Upper
228	100		
229	22.0	14.5	26.9
226	31.7	18.5	34.3
0	0.0	0.0	0.0

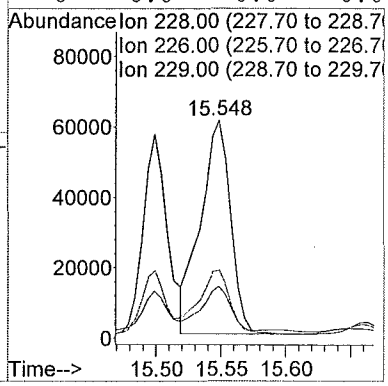


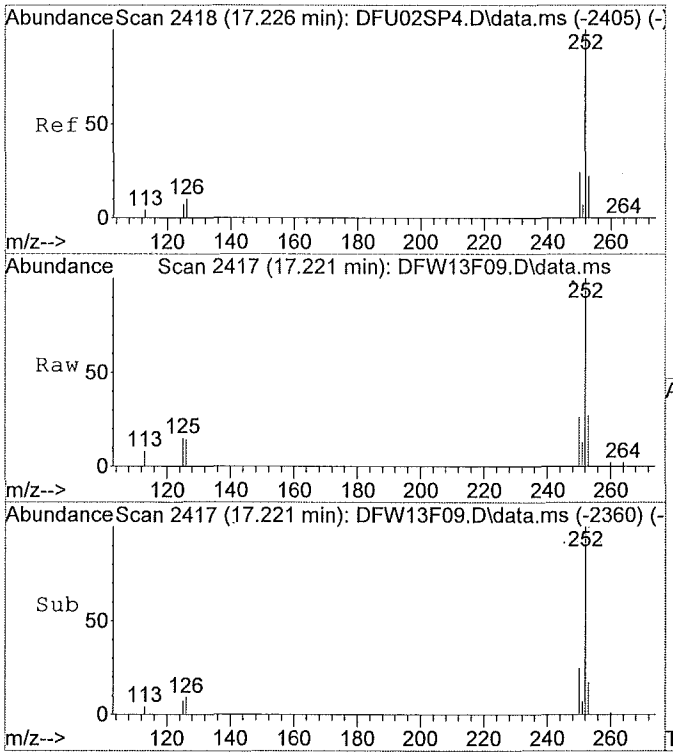


#18
Chrysene
Concen: 0.13 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:228 Resp: 98553

Ion	Ratio	Lower	Upper
228	100		
226	31.0	19.7	36.7
229	20.5	14.5	26.9
0	0.0	0.0	0.0

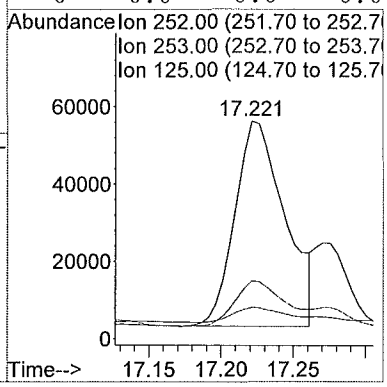


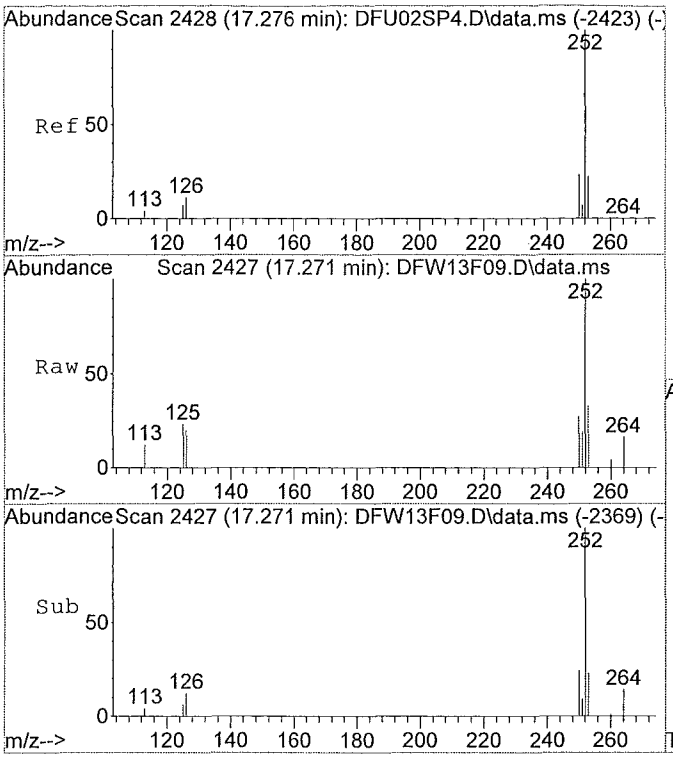


#20
Benzo(b)fluoranthene
Concen: 0.14 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:252 Resp: 127665

Ion	Ratio	Lower	Upper
252	100		
253	22.7	15.3	28.3
125	7.9	0.0	0.0#
0	0.0	0.0	0.0

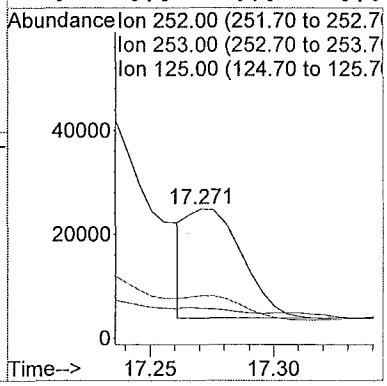


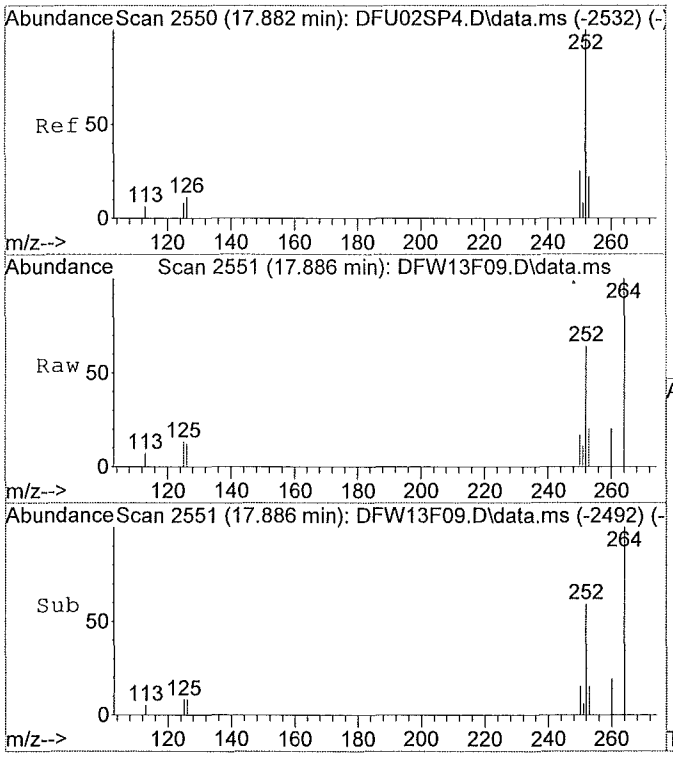


#21
Benzo(k)fluoranthene
Concen: 0.03 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:252 Resp: 32868

Ion	Ratio	Lower	Upper
252	100		
253	88.2	15.0	27.8#
125	30.8	0.0	0.0#
0	0.0	0.0	0.0

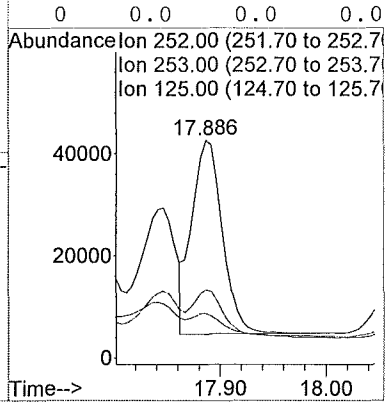


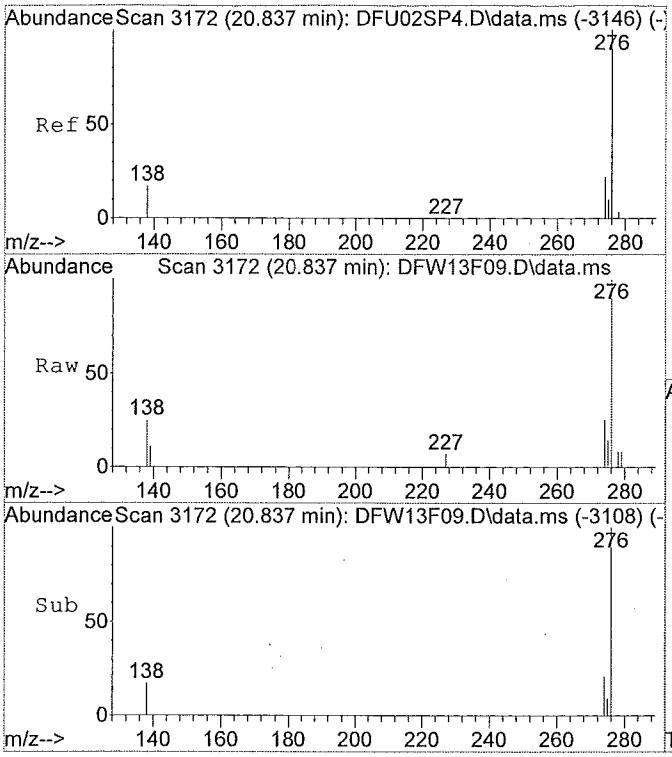


#22
Benzo(a)pyrene
Concen: 0.09 ug/ml
RT: 17.89 min Scan# 2551
Delta R.T. -0.00 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:252 Resp: 76099

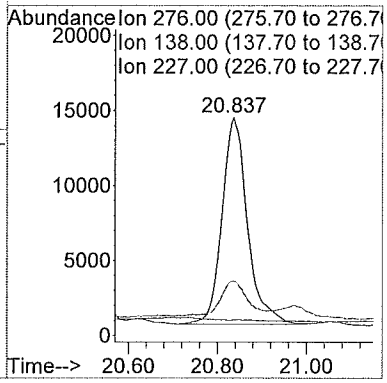
Ion	Ratio	Lower	Upper
252	100		
253	30.7	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

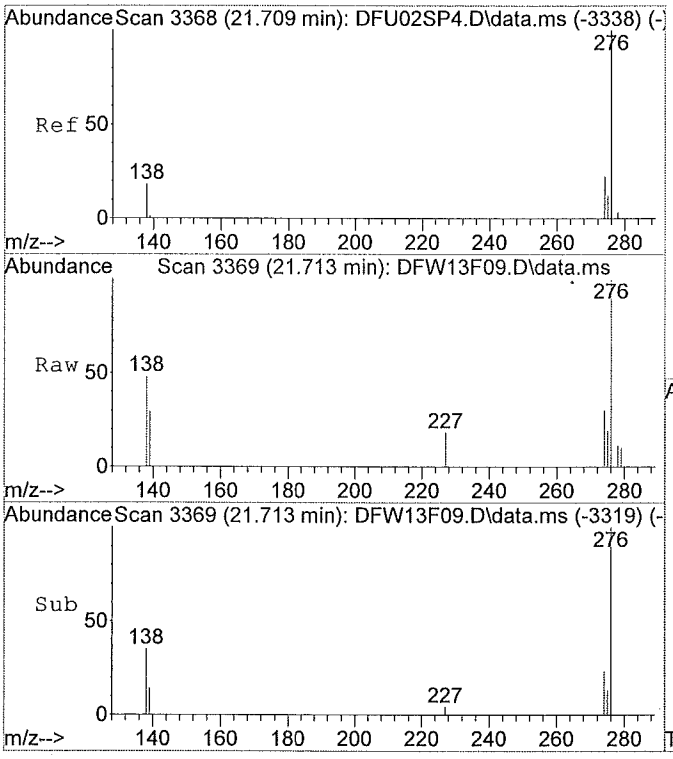




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.07 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

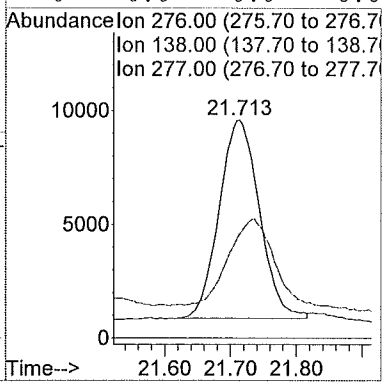
Tgt Ion:276	Resp:	54396	
Ion	Ratio	Lower	Upper
276	100		
138	15.4	0.0	0.0#
227	0.1	0.0	0.0#
0	0.0	0.0	0.0





#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DFW13F09.D
Acq: 06/08/2015 20:24

Tgt Ion:276	Resp:	36848	
Ion	Ratio	Lower	Upper
276	100		
138	56.2	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L67

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293012

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFW14F12

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 10.0

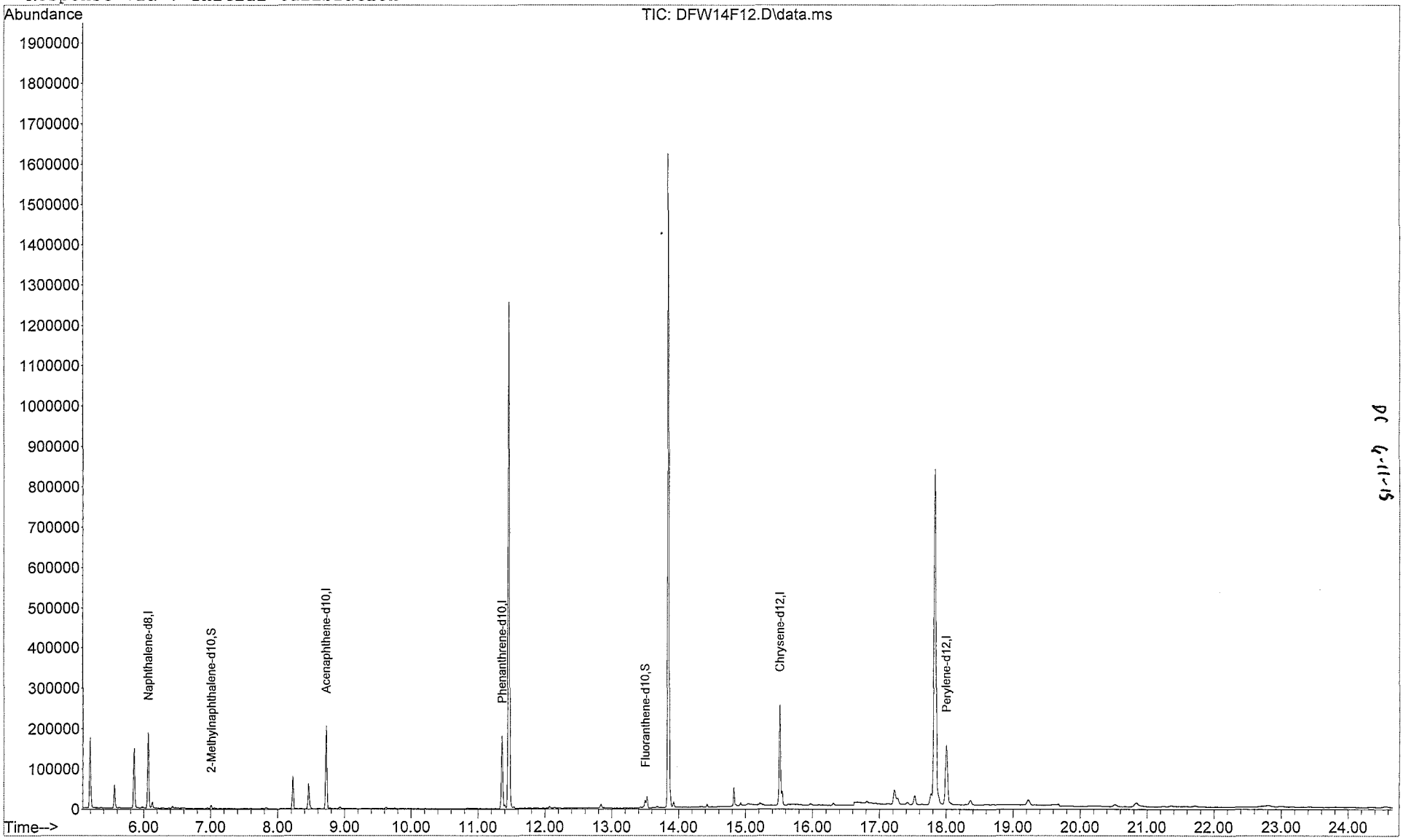
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	38.	U
91-57-6	2-Methylnaphthalene	38.	U
208-96-8	Acenaphthylene	38.	U
83-32-9	Acenaphthene	38.	U
86-73-7	Fluorene	38.	U
87-86-5	Pentachlorophenol	78.	U
85-01-8	Phenanthrene	38.	U
120-12-7	Anthracene	38.	U
206-44-0	Fluoranthene	10.	J
129-00-0	Pyrene	13.	J
56-55-3	Benzo(a)anthracene	10.	J
218-01-9	Chrysene	15.	J
205-99-2	Benzo(b)fluoranthene	22.	J
207-08-9	Benzo(k)fluoranthene	38.	U
50-32-8	Benzo(a)pyrene	9.2	J
193-39-5	Indeno(1,2,3-cd)pyrene	14.	J
53-70-3	Dibenzo(a,h)anthracene	38.	U
191-24-2	Benzo(g,h,i)perylene	38.	U

Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW14F12.D Vial: 13
Acq On : 06/08/2015 20:54 Operator: DJC
Sample : 1514293012 F9L67 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 15:00:54 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



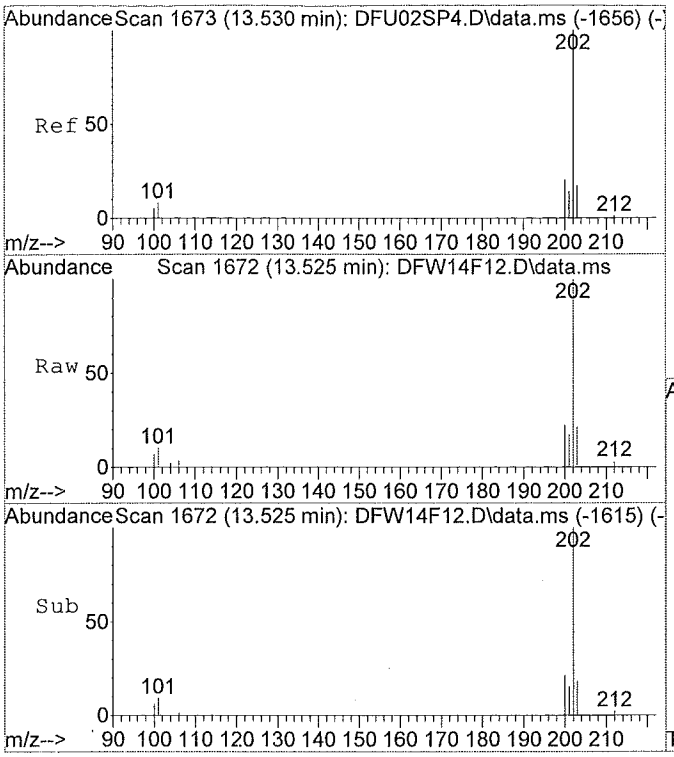
Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW14F12.D Vial: 13
Acq On : 06/08/2015 20:54 Operator: DJC
Sample : 1514293012 F9L67 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:00:54 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Qvalue
1) Naphthalene-d8	6.06	136	215997	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	138399	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	248218	0.40 ug/ml	
15) Chrysene-d12	15.51	240	277227	0.40 ug/ml	
19) Perylene-d12	18.00	264	270313	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	8725	0.025ug/mL	
13) Fluoranthene-d10	13.50	212	19695	0.029ug/mL	
Target Compounds					
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	0.00	178		Not Detected	
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.52	202	21970	0.027ug/ml	84
16) Pyrene	13.87	202	28560	0.033ug/ml	77
17) Benzo(a)anthracene	15.50	228	19827	0.027ug/ml	86
18) Chrysene	15.55	228	30100	0.039ug/ml	95
20) Benzo(b)fluoranthene	17.22	252	47791	0.057ug/ml	98
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.88	252	19142	0.024ug/ml	91
23) Indeno(1,2,3-c,d)pyrene	20.83	276	25587	0.036ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

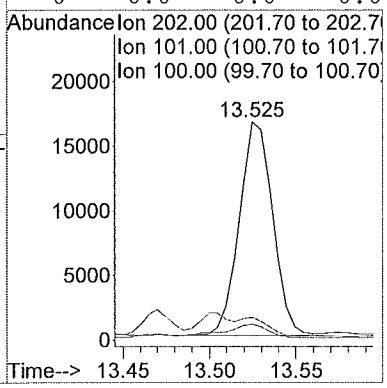
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

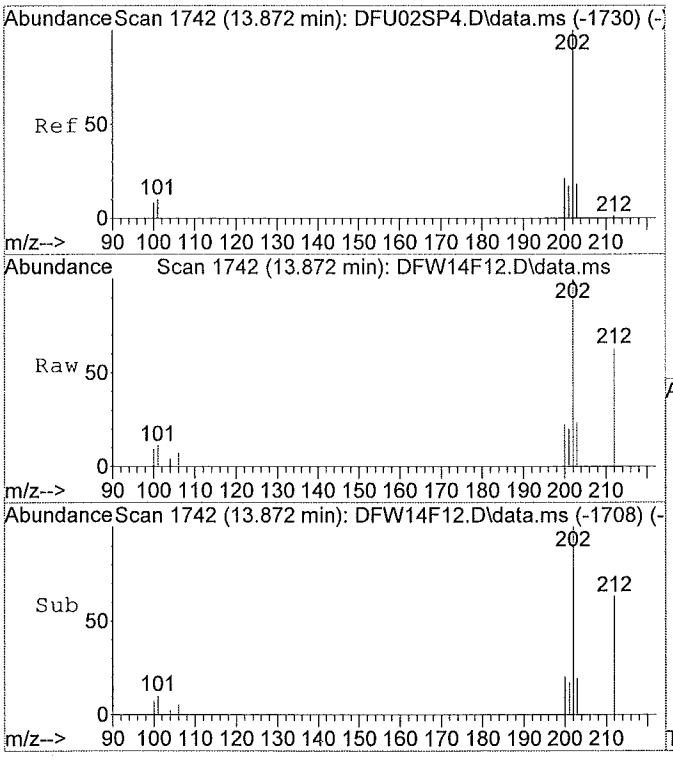


#14
Fluoranthene
Concen: 0.03 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DFW14F12.D
Acq: 06/08/2015 20:54

Tgt Ion:202 Resp: 21970

Ion	Ratio	Lower	Upper
202	100		
101	6.9	9.4	17.6#
100	8.5	0.0	0.0#
0	0.0	0.0	0.0

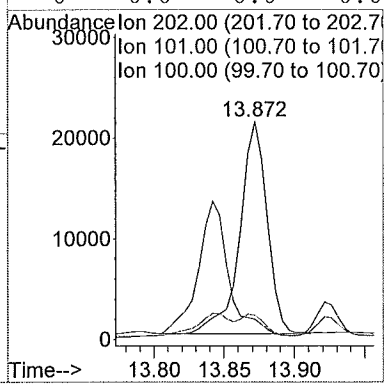


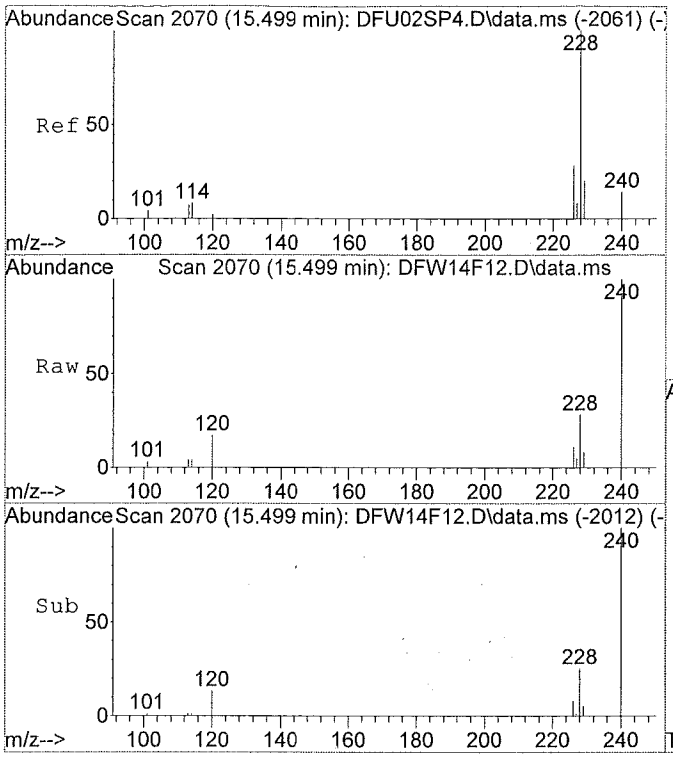


#16
Pyrene
Concen: 0.03 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFW14F12.D
Acq: 06/08/2015 20:54

Tgt Ion:202 Resp: 28560

Ion	Ratio	Lower	Upper
202	100		
101	9.1	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

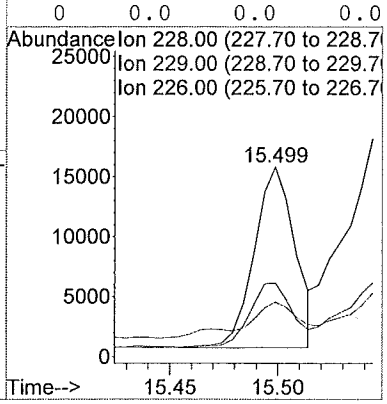


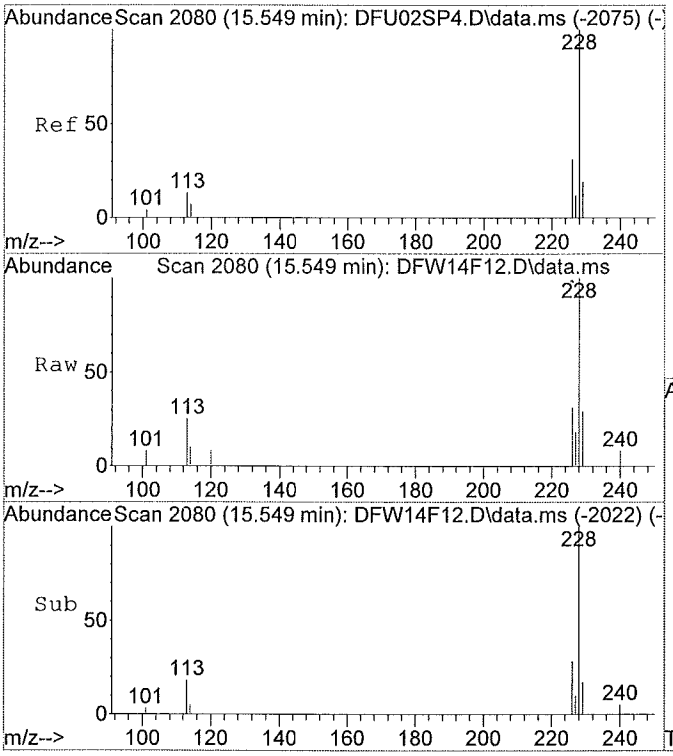


#17
Benzo(a)anthracene
Concen: 0.03 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW14F12.D
Acq: 06/08/2015 20:54

Tgt Ion:228 Resp: 19827

Ion	Ratio	Lower	Upper
228	100		
229	21.7	14.5	26.9
226	38.3	18.5	34.3#
0	0.0	0.0	0.0

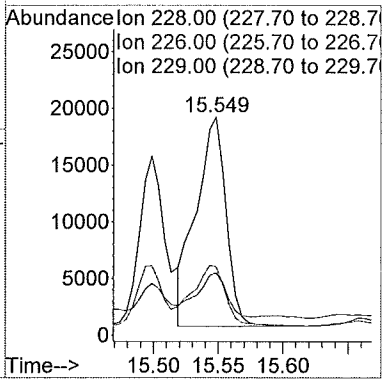


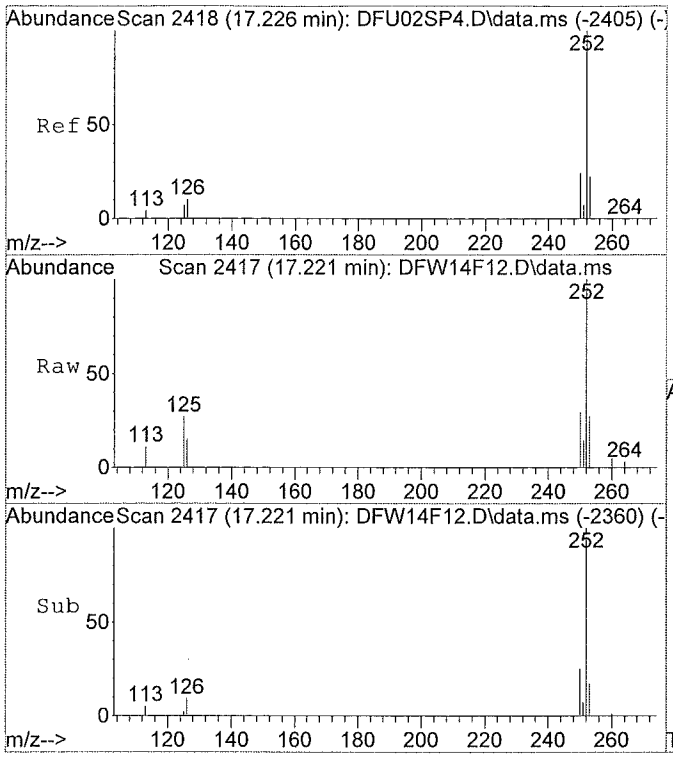


#18
Chrysene
Concen: 0.04 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW14F12.D
Acq: 06/08/2015 20:54

Tgt Ion:228 Resp: 30100

Ion	Ratio	Lower	Upper
228	100		
226	32.6	19.7	36.7
229	20.3	14.5	26.9
0	0.0	0.0	0.0

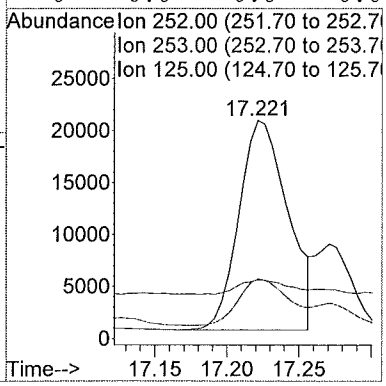


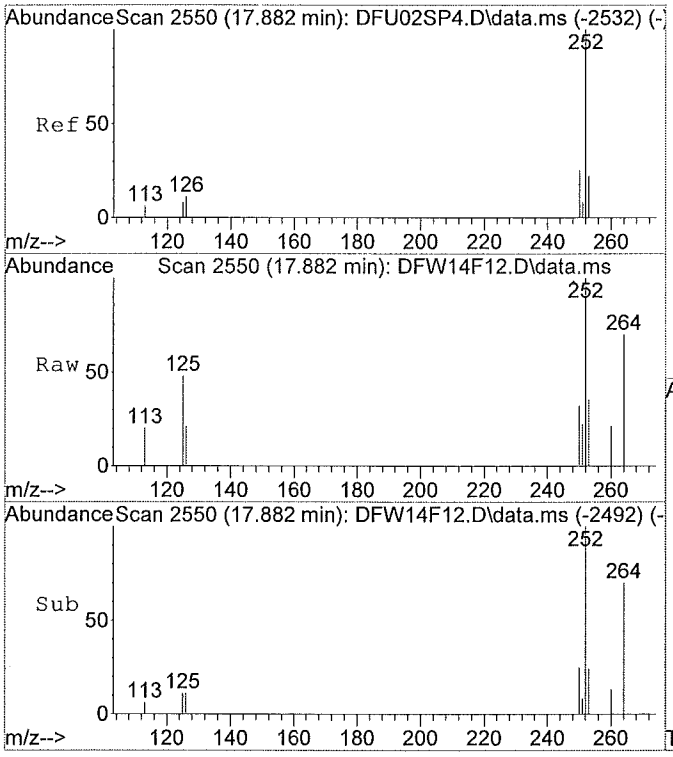


#20
Benzo(b)fluoranthene
Concen: 0.06 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFW14F12.D
Acq: 06/08/2015 20:54

Tgt Ion:252 Resp: 47791

Ion	Ratio	Lower	Upper
252	100		
253	22.7	15.3	28.3
125	6.9	0.0	0.0#
0	0.0	0.0	0.0

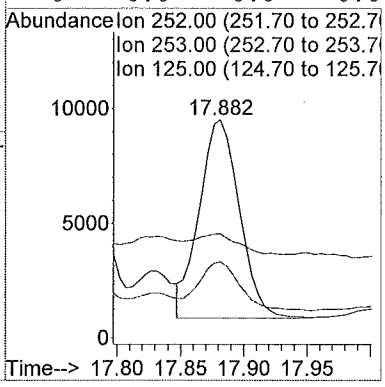


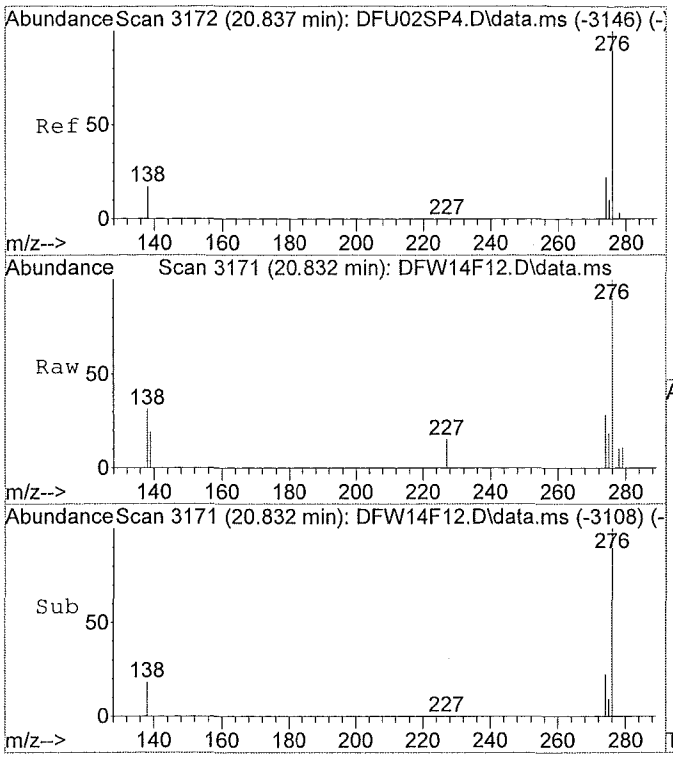


#22
Benzo(a)pyrene
Concen: 0.02 ug/ml
RT: 17.88 min Scan# 2550
Delta R.T. -0.01 min
Lab File: DFW14F12.D
Acq: 06/08/2015 20:54

Tgt Ion:252 Resp: 19142

Ion	Ratio	Lower	Upper
252	100		
253	25.5	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

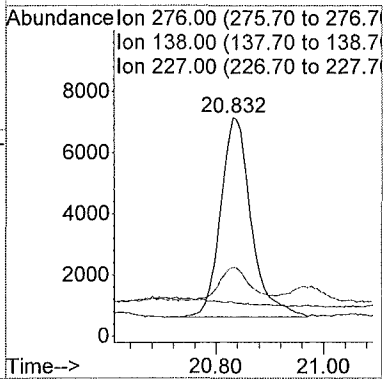




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.04 ug/ml
RT: 20.83 min Scan# 3171
Delta R.T. -0.02 min
Lab File: DFW14F12.D
Acq: 06/08/2015 20:54

Tgt Ion:276 Resp: 25587

Ion	Ratio	Lower	Upper
276	100		
138	16.9	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0



1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L68

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293013

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFW15F13

Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	3.7	U
208-96-8	Acenaphthylene	1.2	J
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.5	U
85-01-8	Phenanthrene	1.2	J
120-12-7	Anthracene	1.3	J
206-44-0	Fluoranthene	3.1	J
129-00-0	Pyrene	4.9	
56-55-3	Benzo(a)anthracene	3.8	
218-01-9	Chrysene	5.6	
205-99-2	Benzo(b)fluoranthene	7.6	
207-08-9	Benzo(k)fluoranthene	2.3	J
50-32-8	Benzo(a)pyrene	2.9	J
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	
53-70-3	Dibenzo(a,h)anthracene	1.0	J
191-24-2	Benzo(g,h,i)perylene	3.7	U

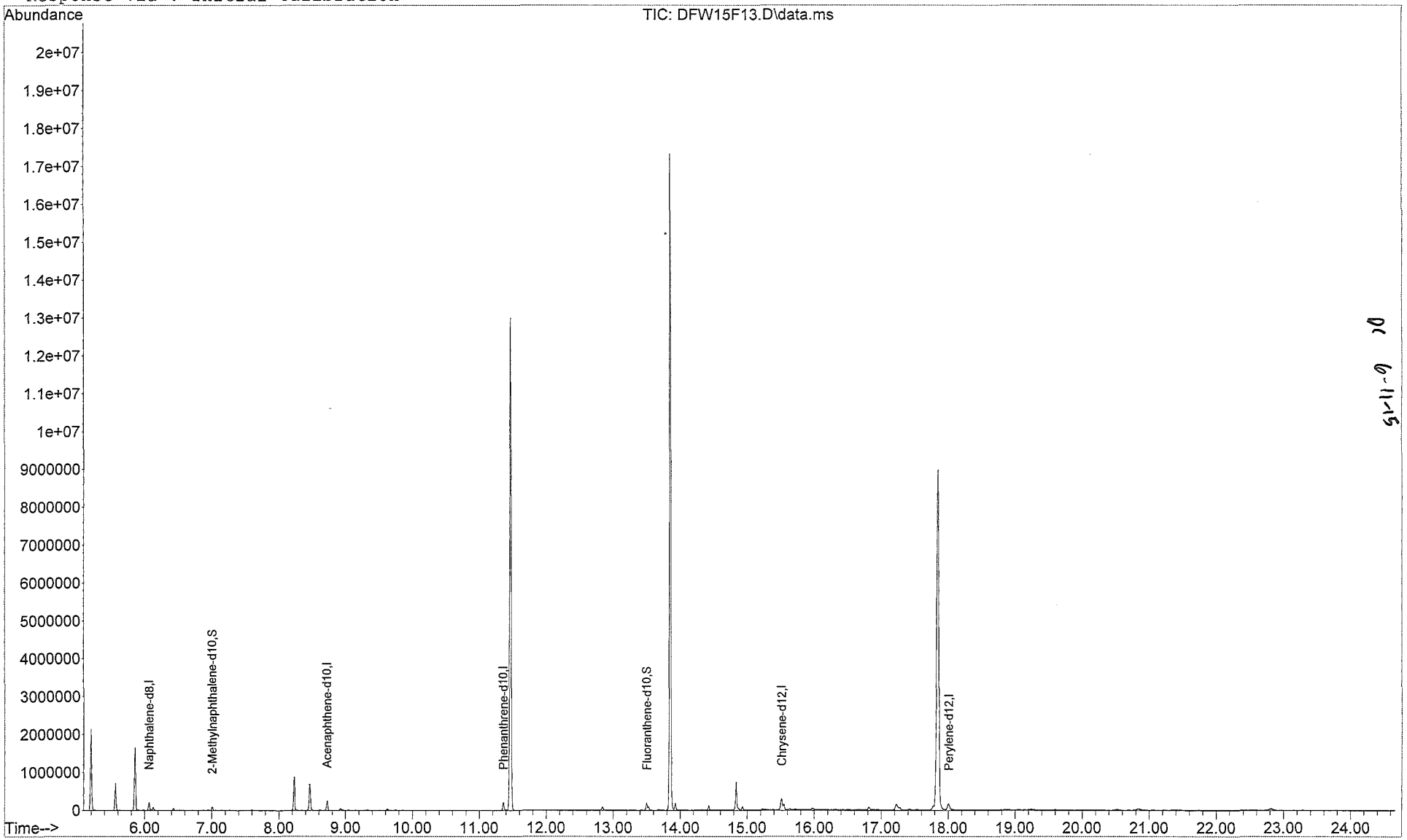
Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW15F13.D
Acq On : 06/08/2015 21:23
Sample : 1514293013 F9L68
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 14
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 15:01:51 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



6-11-15 JD

Quantitation Report

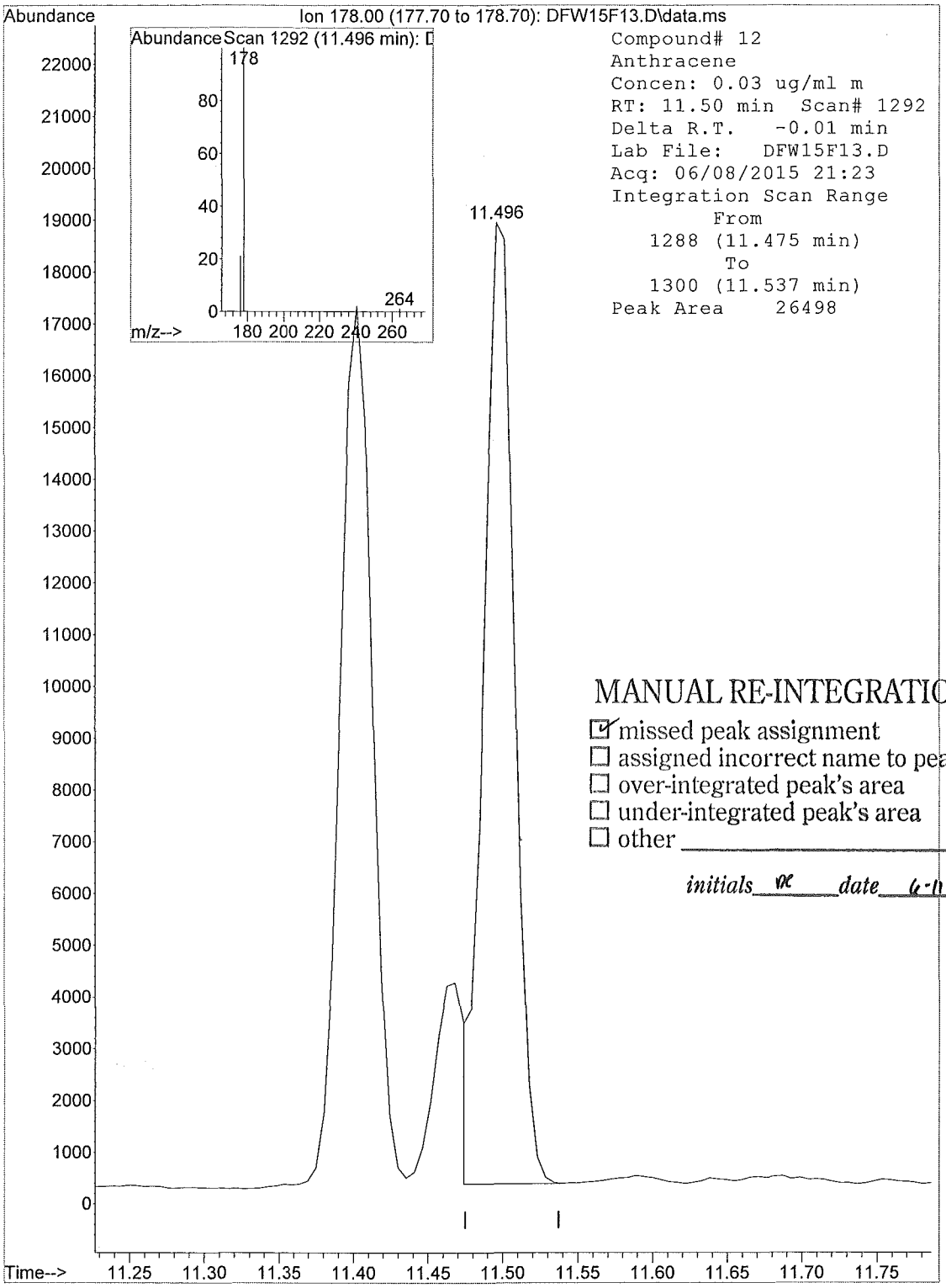
Data File : Z:\D\2015\JUN15\08JUN15\DFW15F13.D Vial: 14
Acq On : 06/08/2015 21:23 Operator: DJC
Sample : 1514293013 F9L68 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:01:51 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Qvalue
1) Naphthalene-d8	6.06	136	228688	0.40 ug/ml		
5) Acenaphthene-d10	8.72	164	159480	0.40 ug/ml		
9) Phenanthrene-d10	11.36	188	272272	0.40 ug/ml		
15) Chrysene-d12	15.51	240	281631	0.40 ug/ml		
19) Perylene-d12	18.01	264	297904	0.40 ug/ml		
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.01	152	95660	0.259ug/mL		
13) Fluoranthene-d10	13.50	212	210134	0.282ug/mL		
Target Compounds						Qvalue
2) Naphthalene	0.00	128		Not Detected		
4) 2-Methylnaphthalene	0.00	142		Not Detected		
6) Acenaphthylene	8.49	152	22514	0.032ug/ml		83
7) Acenaphthene	0.00	153		Not Detected		
8) Fluorene	0.00	166		Not Detected		
10) Pentachlorophenol	0.00	266		Not Detected		
11) Phenanthrene	11.40	178	26066	0.033ug/ml		95
12) Anthracene	11.50	178	26498	0.035ug/ml	m	92
14) Fluoranthene	13.52	202	74910	0.084ug/ml	DC 6-11-15	93
16) Pyrene	13.87	202	115657	0.131ug/ml		1
17) Benzo(a)anthracene	15.50	228	77436	0.103ug/ml		89
18) Chrysene	15.55	228	120087	0.151ug/ml		96
20) Benzo(b)fluoranthene	17.23	252	189809	0.204ug/ml		100
21) Benzo(k)fluoranthene	17.27	252	58118	0.060ug/ml	m	99
22) Benzo(a)pyrene	17.89	252	69813	0.079ug/ml	DC 6-11-15	98
23) Indeno(1,2,3-c,d)pyrene	20.84	276	98283	0.127ug/ml		100
24) Dibenzo(a,h)anthracene	20.91	278	23660	0.028ug/ml		97
25) Benzo(g,h,i)perylene	0.00	276		Not Detected		

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

MANUAL INTEGRATION FOR Anthracene

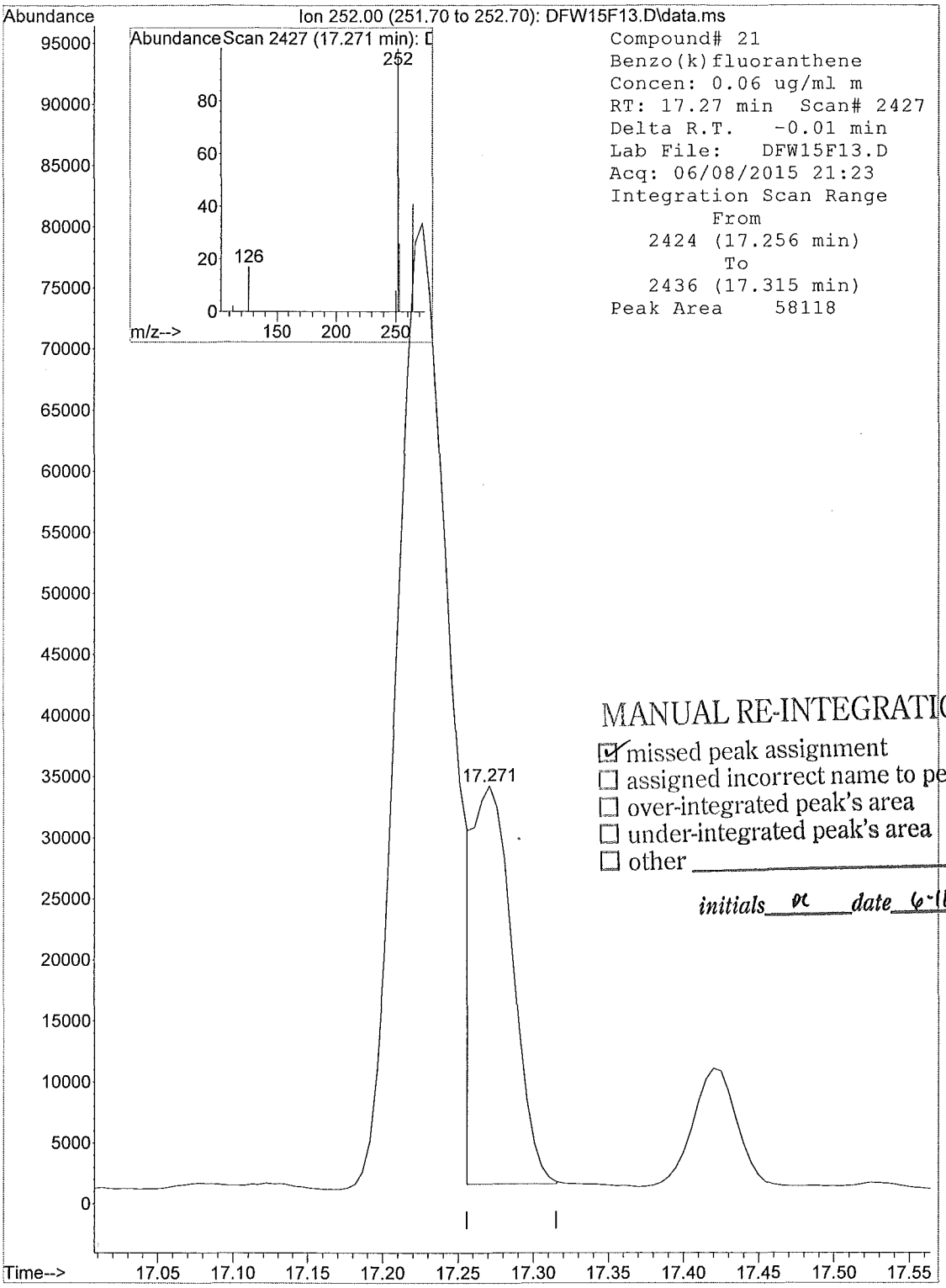


MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials VC *date* 6-11-15

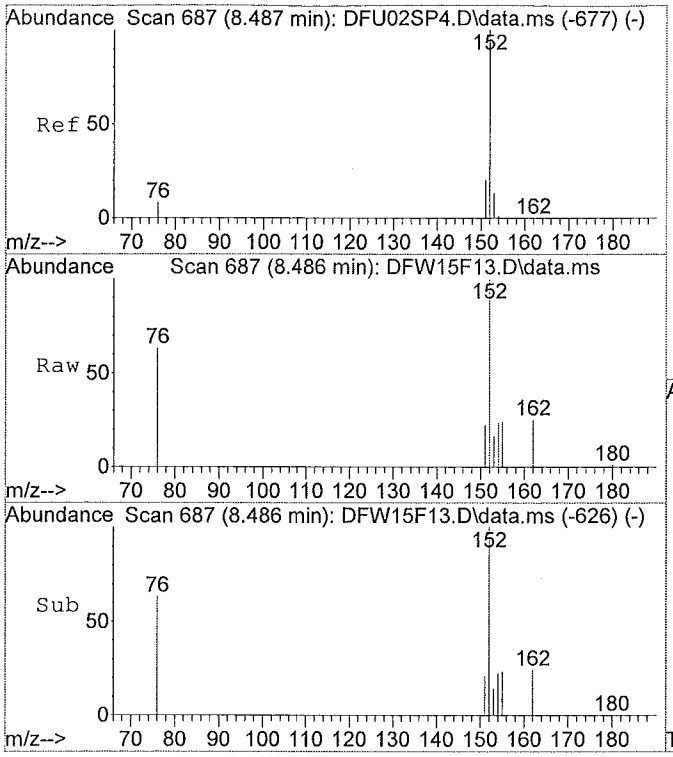
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

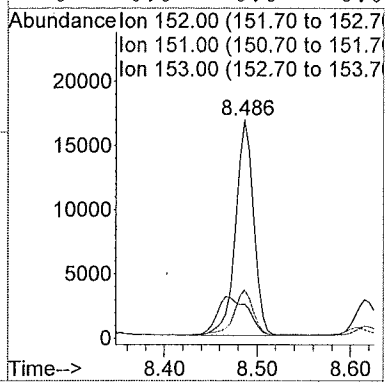
initials DC *date* 6-11-15

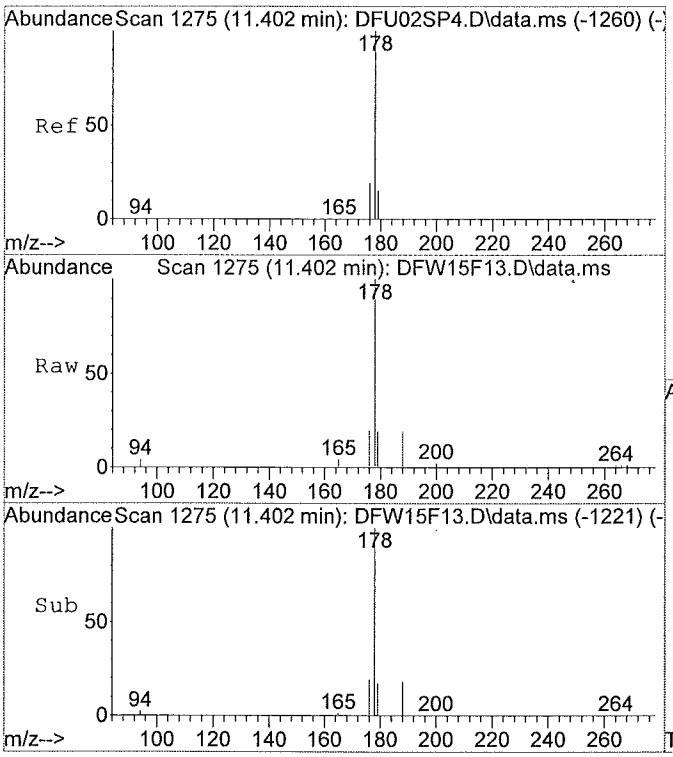


#6
Acenaphthylene
Concen: 0.03 ug/ml
RT: 8.49 min Scan# 687
Delta R.T. 0.00 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:152 Resp: 22514

Ion	Ratio	Lower	Upper
152	100		
151	21.9	15.5	28.7
153	30.6	8.8	16.4#
0	0.0	0.0	0.0

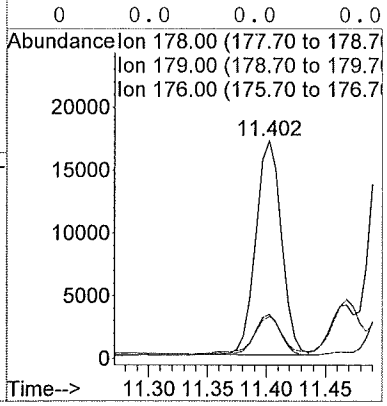


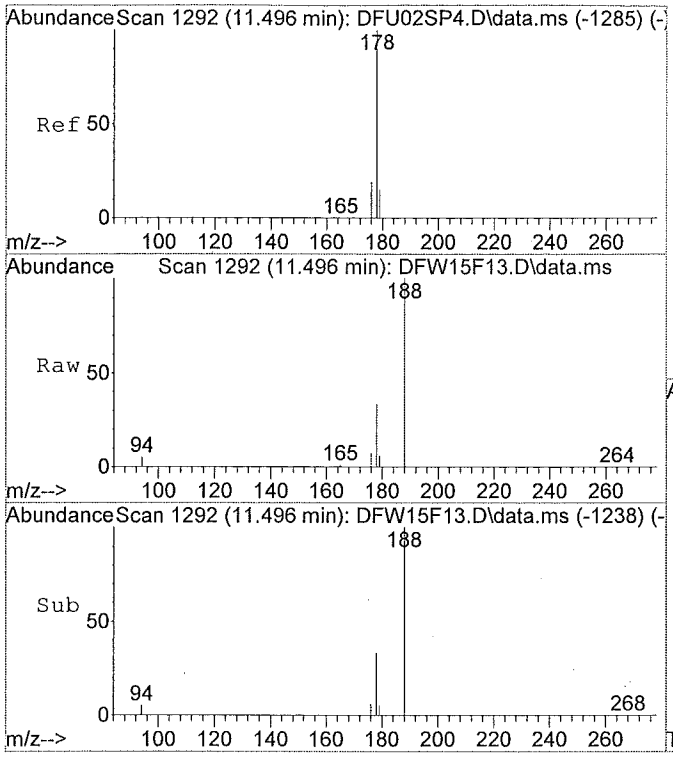


#11
Phenanthrene
Concen: 0.03 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:178 Resp: 26066

Ion	Ratio	Lower	Upper
178	100		
179	18.8	11.1	20.5
176	18.7	14.1	26.1
0	0.0	0.0	0.0

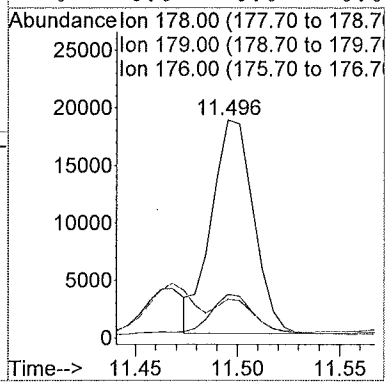


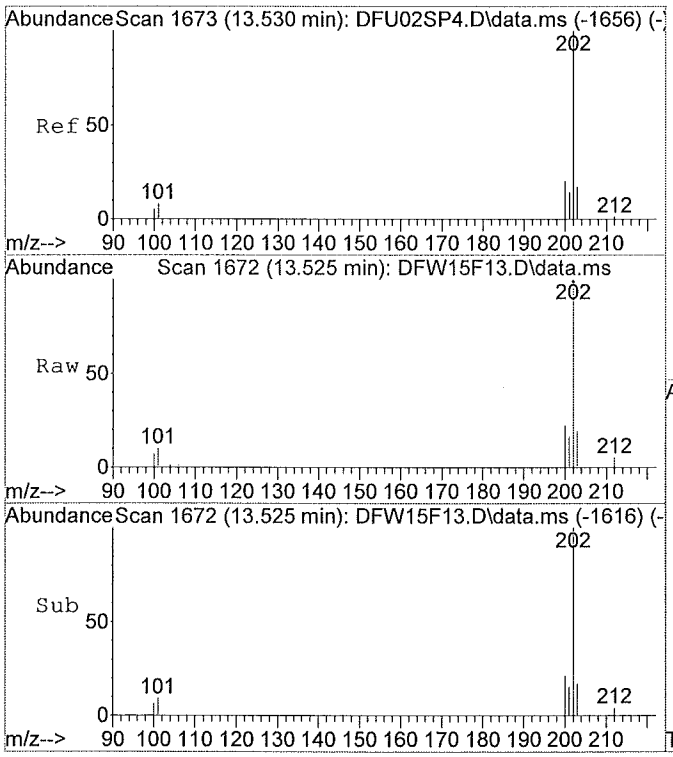


#12
Anthracene
Concen: 0.03 ug/ml m
RT: 11.50 min Scan# 1292
Delta R.T. -0.01 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:178 Resp: 26498

Ion	Ratio	Lower	Upper
178	100		
179	14.2	11.6	21.6
176	21.2	13.9	25.7
0	0.0	0.0	0.0

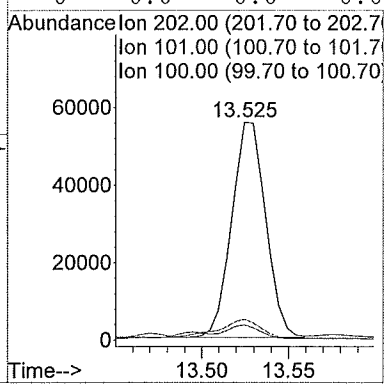


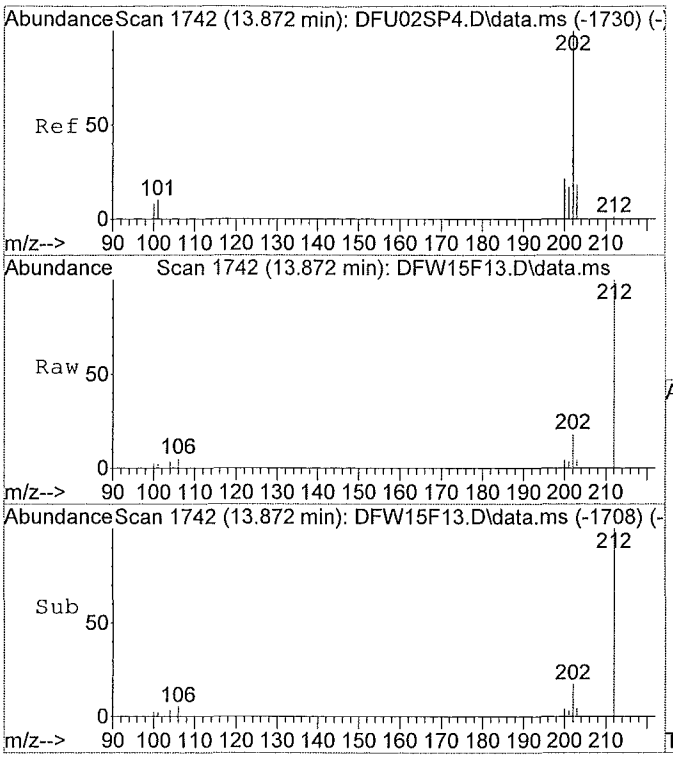


#14
Fluoranthene
Concen: 0.08 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:202 Resp: 74910

Ion	Ratio	Lower	Upper
202	100		
101	10.6	9.4	17.6
100	6.4	0.0	0.0#
0	0.0	0.0	0.0

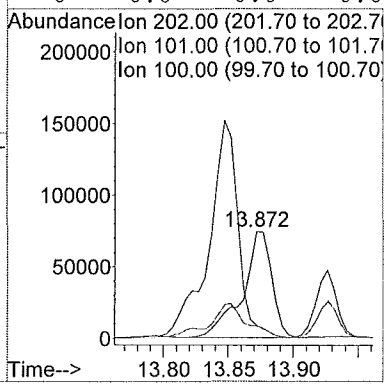


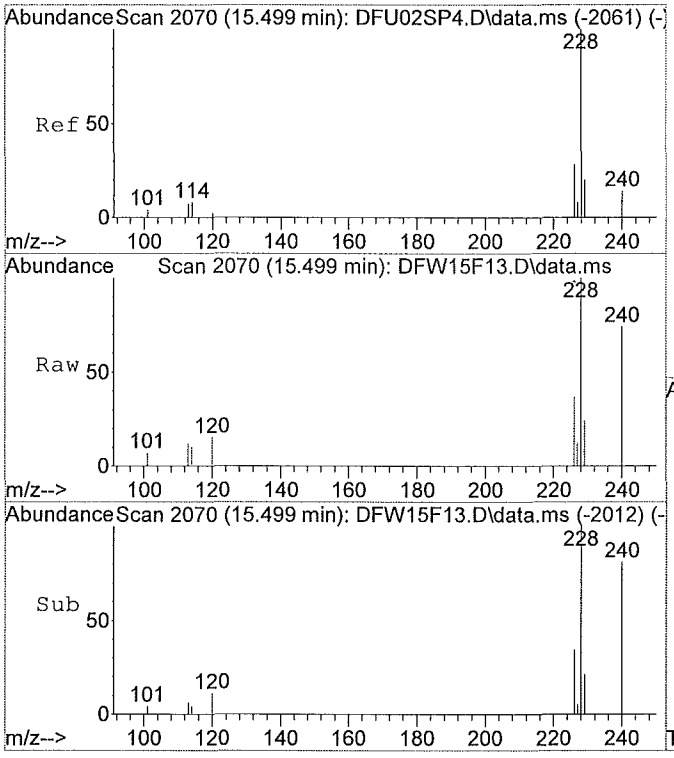


#16
Pyrene
Concen: 0.13 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:202 Resp: 115657

Ion	Ratio	Lower	Upper
202	100		
101	42.7	10.6	19.6#
100	206.7	9.4	17.4#
0	0.0	0.0	0.0

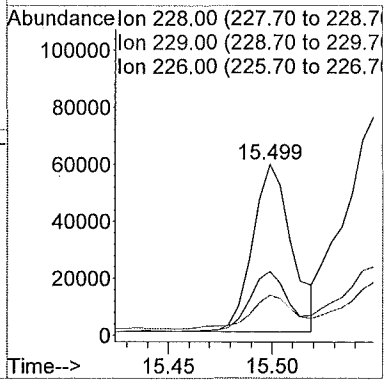


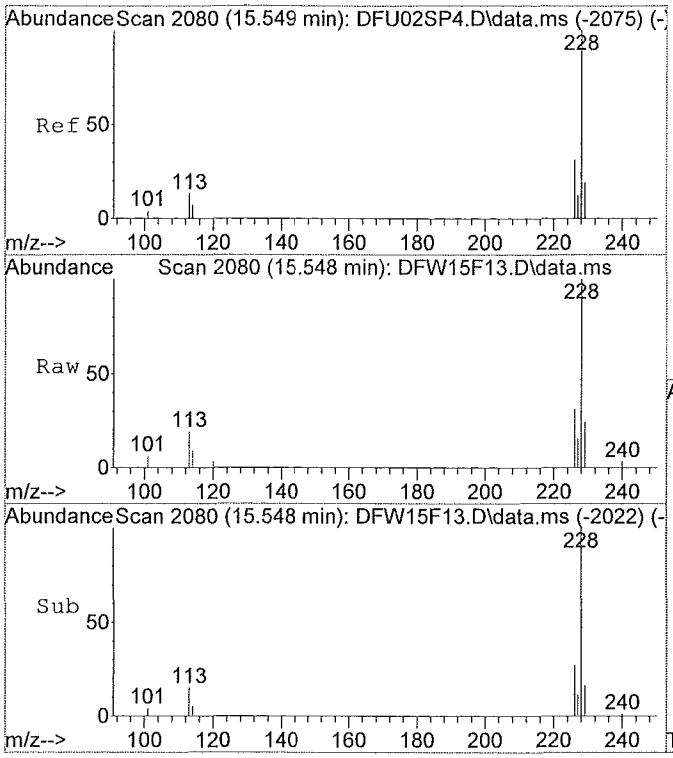


#17
Benzo(a)anthracene
Concen: 0.10 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:228 Resp: 77436

Ion	Ratio	Lower	Upper
228	100		
229	21.9	14.5	26.9
226	35.4	18.5	34.3#
0	0.0	0.0	0.0

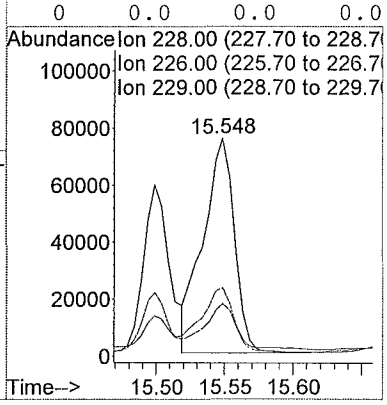


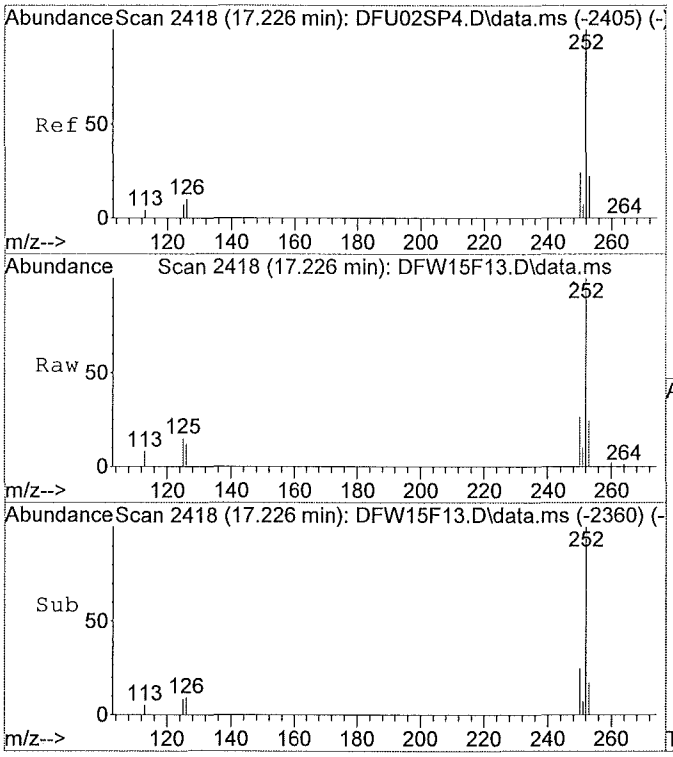


#18
Chrysene
Concen: 0.15 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:228 Resp: 120087

Ion	Ratio	Lower	Upper
228	100		
226	30.4	19.7	36.7
229	19.5	14.5	26.9
0	0.0	0.0	0.0

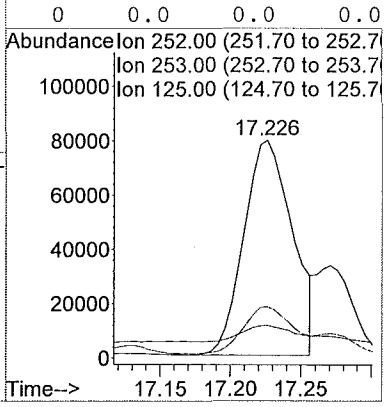


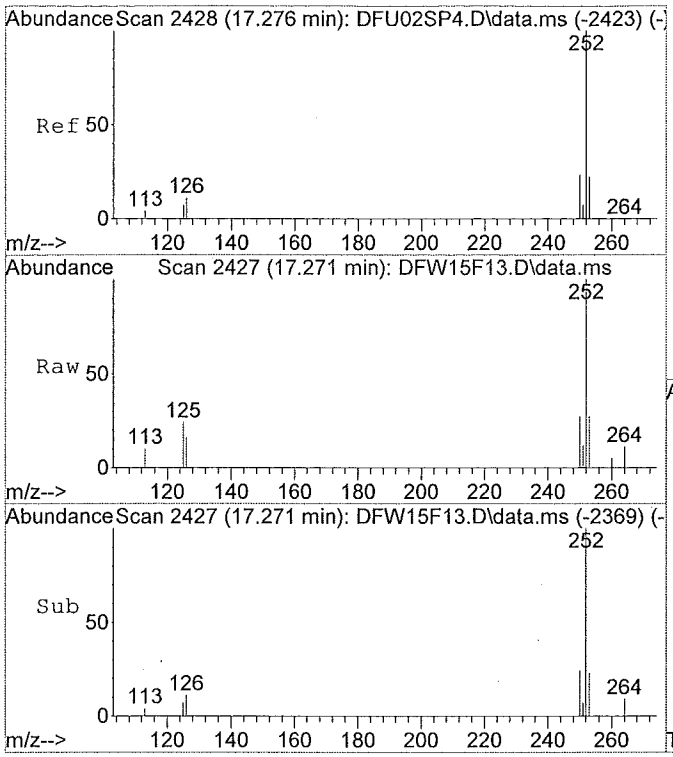


#20
Benzo(b)fluoranthene
Concen: 0.20 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:252 Resp: 189809

Ion	Ratio	Lower	Upper
252	100		
253	22.0	15.3	28.3
125	12.5	0.0	0.0#
0	0.0	0.0	0.0

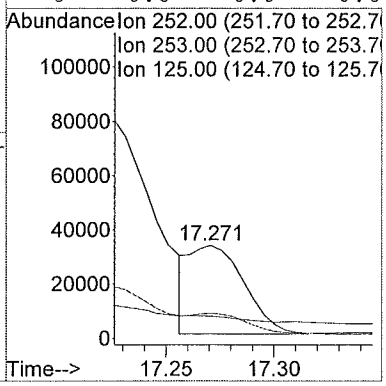


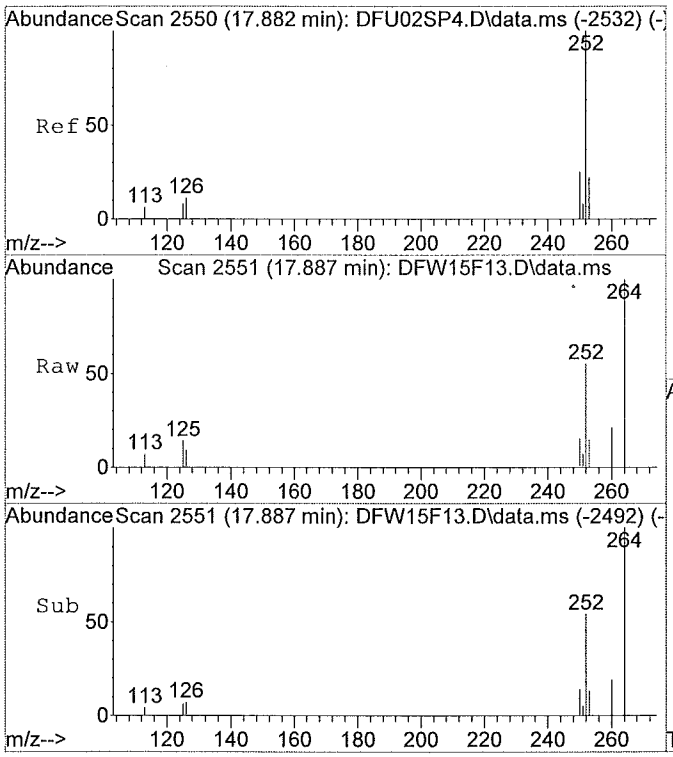


#21
Benzo(k)fluoranthene
Concen: 0.06 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:252 Resp: 58118

Ion	Ratio	Lower	Upper
252	100		
253	71.8	15.0	27.8#
125	40.9	0.0	0.0#
0	0.0	0.0	0.0

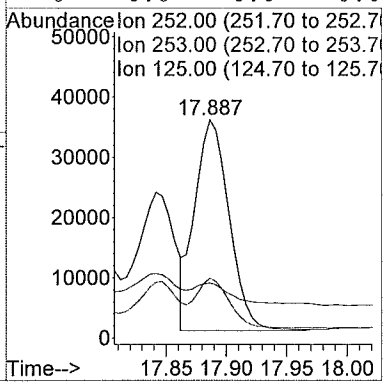


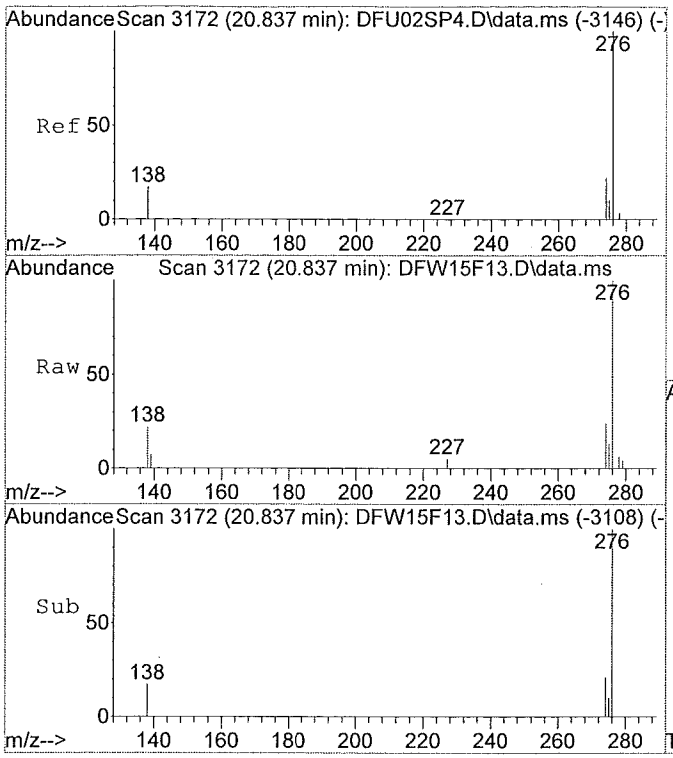


#22
Benzo(a)pyrene
Concen: 0.08 ug/ml
RT: 17.89 min Scan# 2551
Delta R.T. -0.00 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:252 Resp: 69813

Ion	Ratio	Lower	Upper
252	100		
253	22.2	15.0	27.8
125	9.7	0.0	0.0#
0	0.0	0.0	0.0

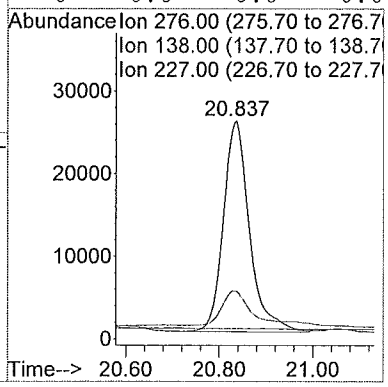


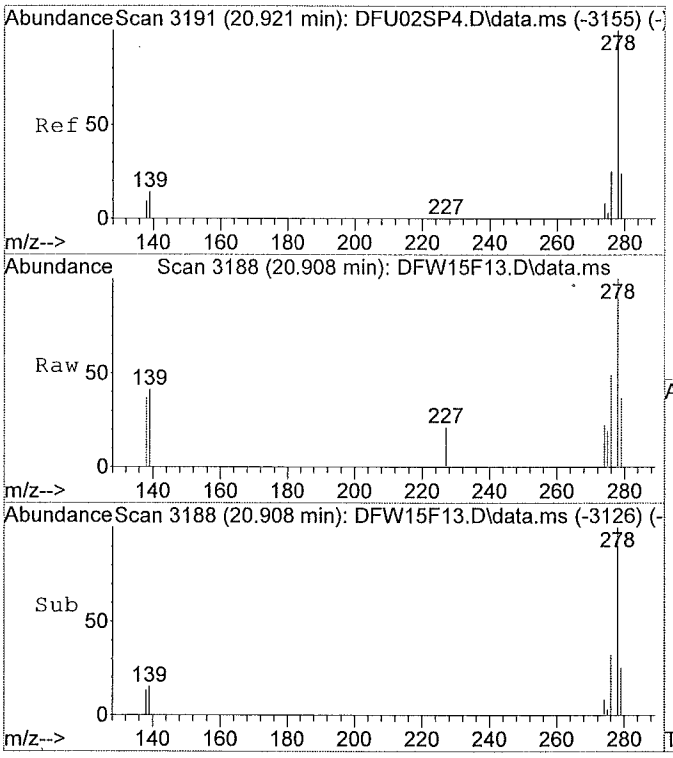


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.13 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:276 Resp: 98283

Ion	Ratio	Lower	Upper
276	100		
138	17.2	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

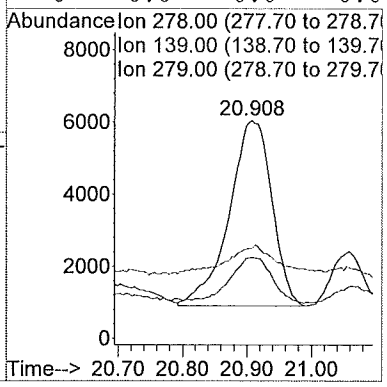




#24
Dibenzo(a,h)anthracene
Concen: 0.03 ug/ml
RT: 20.91 min Scan# 3188
Delta R.T. -0.02 min
Lab File: DFW15F13.D
Acq: 06/08/2015 21:23

Tgt Ion:278 Resp: 23660

Ion	Ratio	Lower	Upper
278	100		
139	17.4	0.0	0.0#
279	24.2	15.8	29.3
0	0.0	0.0	0.0



1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L69

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293014

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFW16F14

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

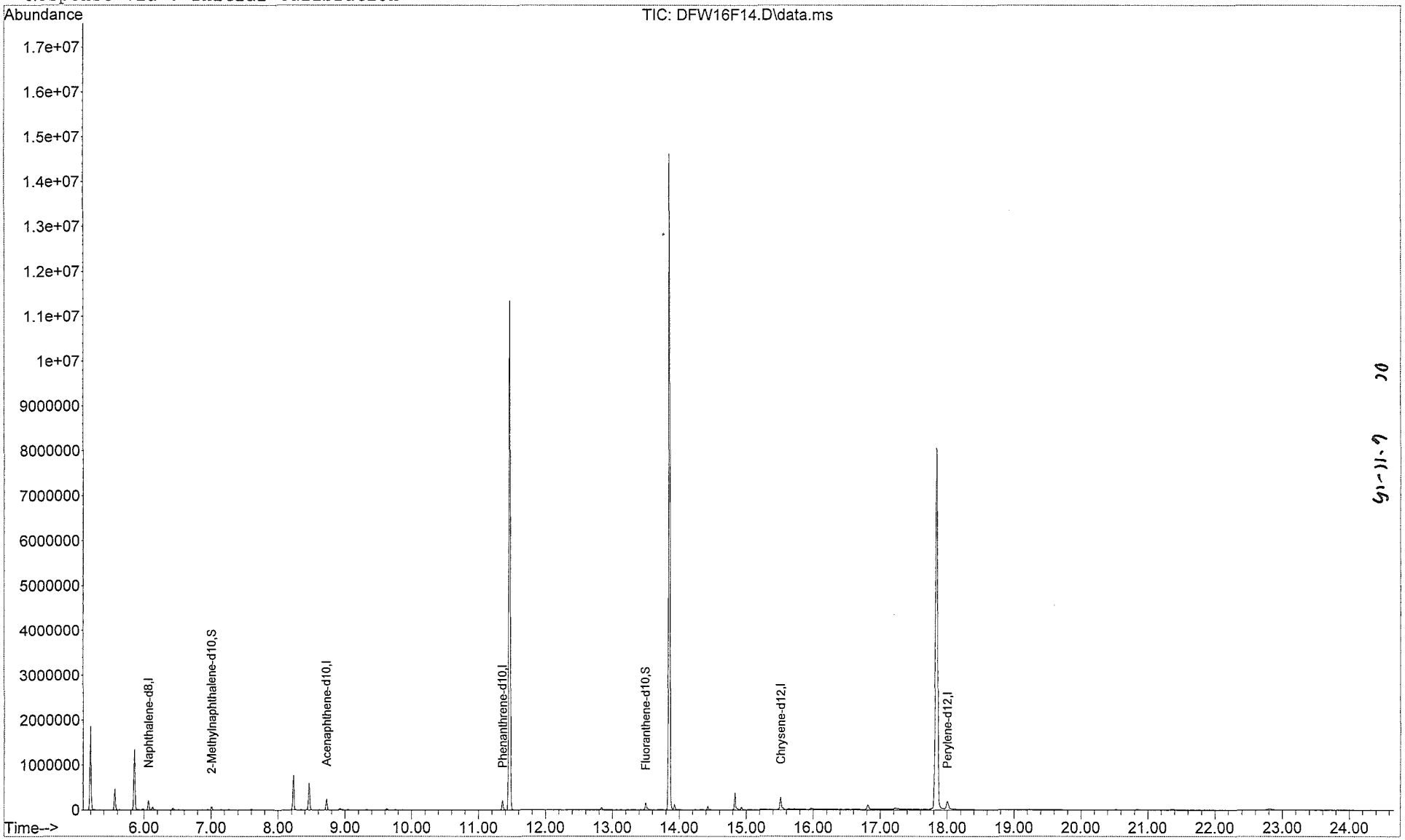
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	3.7	U
208-96-8	Acenaphthylene	3.7	U
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.6	U
85-01-8	Phenanthrene	3.7	U
120-12-7	Anthracene	3.7	U
206-44-0	Fluoranthene	1.2	J
129-00-0	Pyrene	1.2	J
56-55-3	Benzo(a)anthracene	1.1	J
218-01-9	Chrysene	1.2	J
205-99-2	Benzo(b)fluoranthene	1.6	J
207-08-9	Benzo(k)fluoranthene	3.7	U
50-32-8	Benzo(a)pyrene	0.91	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.94	J
53-70-3	Dibenzo(a,h)anthracene	3.7	U
191-24-2	Benzo(g,h,i)perylene	3.7	U

Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW16F14.D Vial: 15
Acq On : 06/08/2015 21:53 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 15:02:42 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



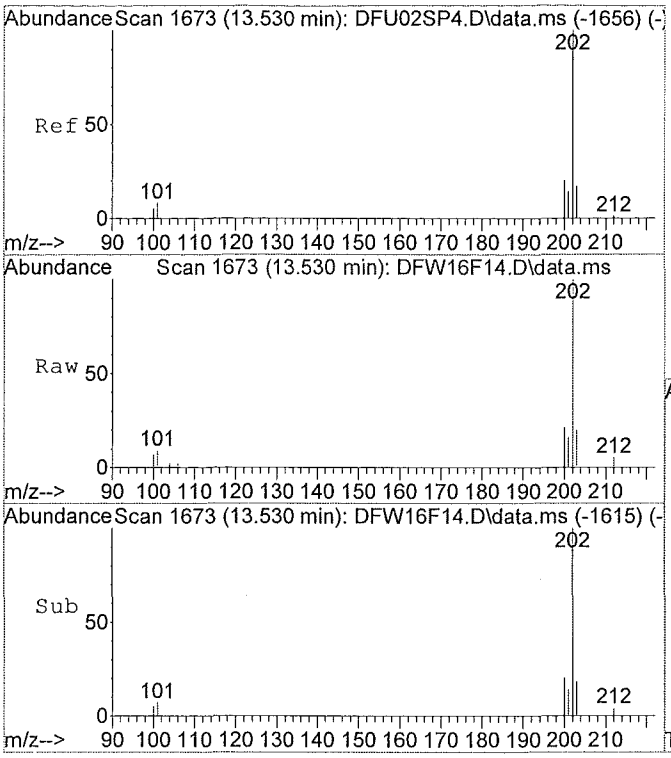
Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW16F14.D Vial: 15
Acq On : 06/08/2015 21:53 Operator: DJC
Sample : 1514293014 F9L69 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:02:42 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	231993	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	159934	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	272412	0.40 ug/ml	
15) Chrysene-d12	15.51	240	298204	0.40 ug/ml	
19) Perylene-d12	18.00	264	314129	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	80448	0.215ug/mL	
13) Fluoranthene-d10	13.49	212	178533	0.240ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	0.00	178		Not Detected	
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.53	202	28349	0.032ug/ml	87
16) Pyrene	13.87	202	30323	0.032ug/ml	65
17) Benzo(a)anthracene	15.50	228	22760	0.029ug/ml	89
18) Chrysene	15.55	228	27750	0.033ug/ml	96
20) Benzo(b)fluoranthene	17.23	252	41423	0.042ug/ml	98
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.89	252	22555	0.024ug/ml	55
23) Indeno(1,2,3-c,d)pyrene	20.83	276	20380	0.025ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	0.00	276		Not Detected	

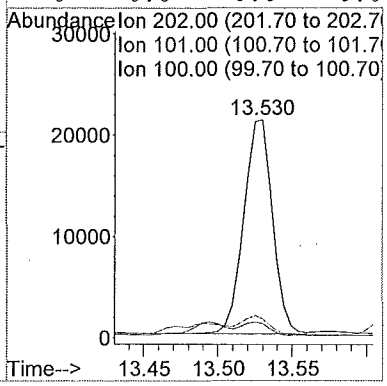
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

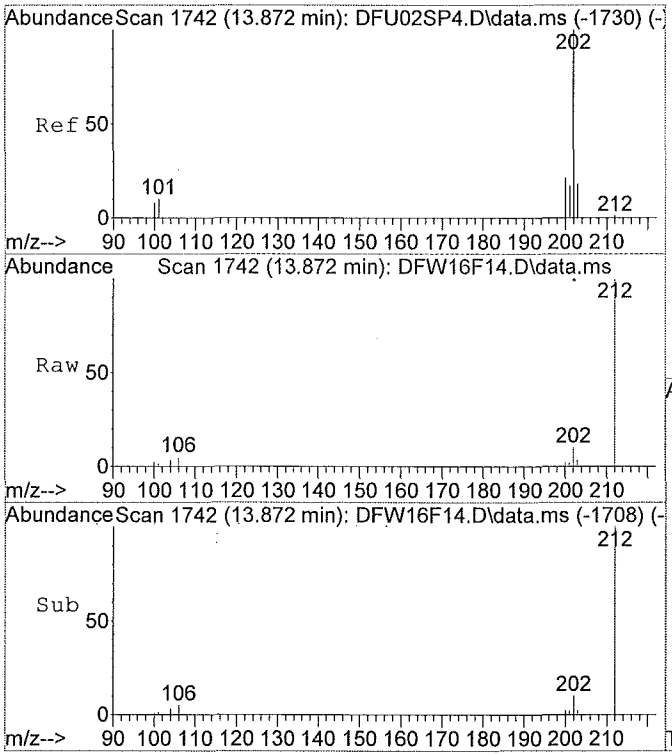


#14
Fluoranthene
Concen: 0.03 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DFW16F14.D
Acq: 06/08/2015 21:53

Tgt Ion:202 Resp: 28349

Ion	Ratio	Lower	Upper
202	100		
101	8.3	9.4	17.6#
100	6.0	0.0	0.0#
0	0.0	0.0	0.0

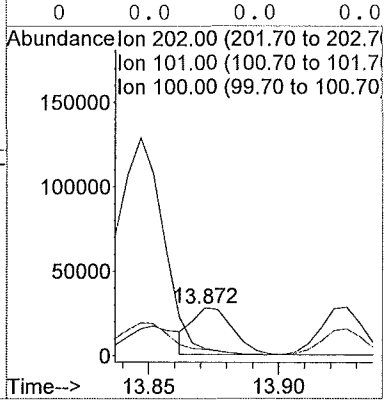


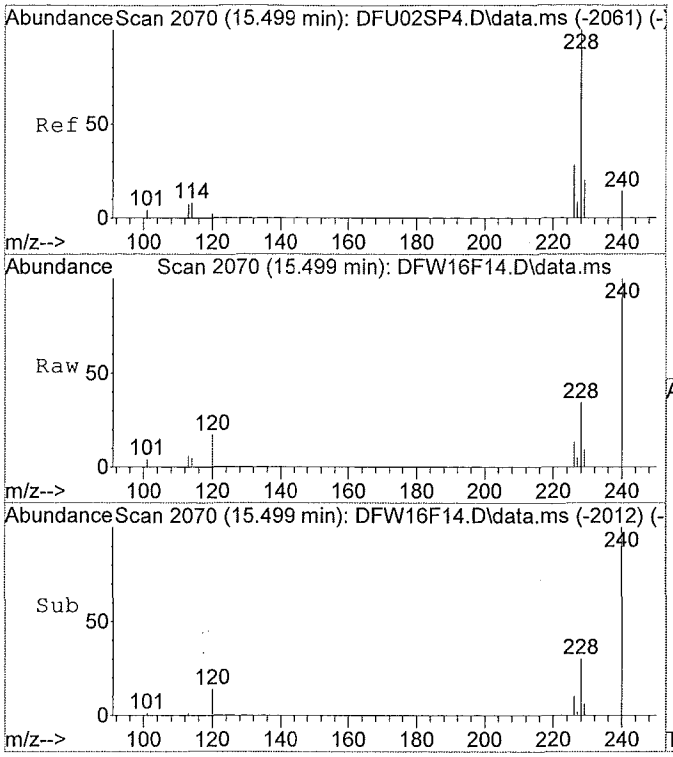


#16
Pyrene
Concen: 0.03 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFW16F14.D
Acq: 06/08/2015 21:53

Tgt Ion:202 Resp: 30323

Ion	Ratio	Lower	Upper
202	100		
101	0.0	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

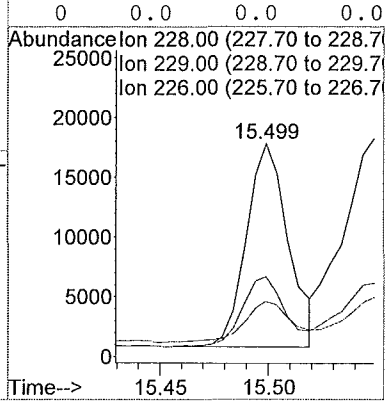


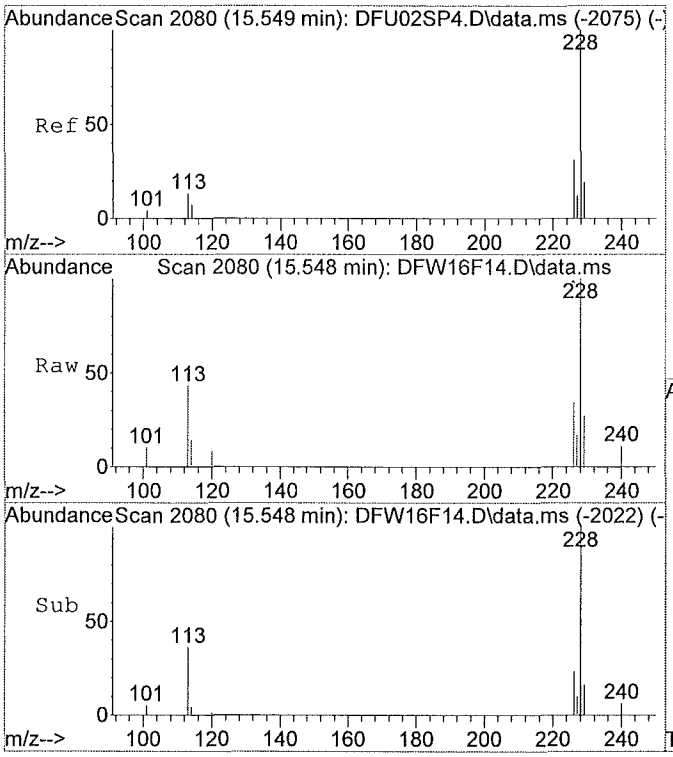


#17
Benzo(a)anthracene
Concen: 0.03 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW16F14.D
Acq: 06/08/2015 21:53

Tgt Ion:228 Resp: 22760

Ion	Ratio	Lower	Upper
228	100		
229	21.7	14.5	26.9
226	35.6	18.5	34.3#
0	0.0	0.0	0.0

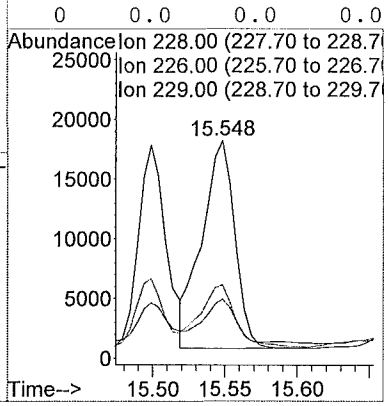


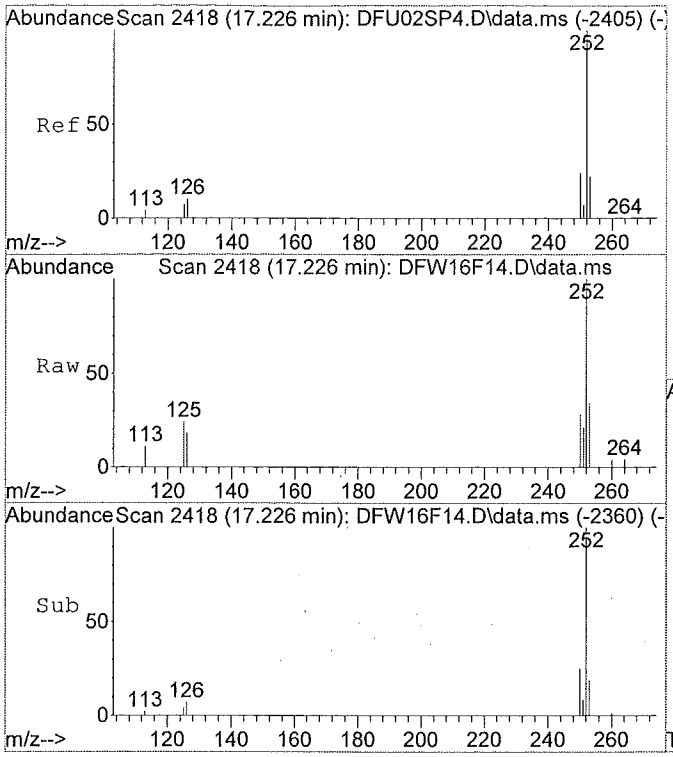


#18
Chrysene
Concen: 0.03 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW16F14.D
Acq: 06/08/2015 21:53

Tgt Ion:228 Resp: 27750

Ion	Ratio	Lower	Upper
228	100		
226	31.4	19.7	36.7
229	19.8	14.5	26.9
0	0.0	0.0	0.0

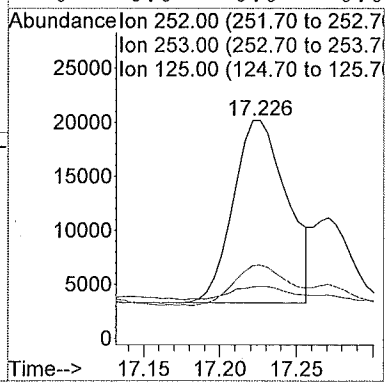


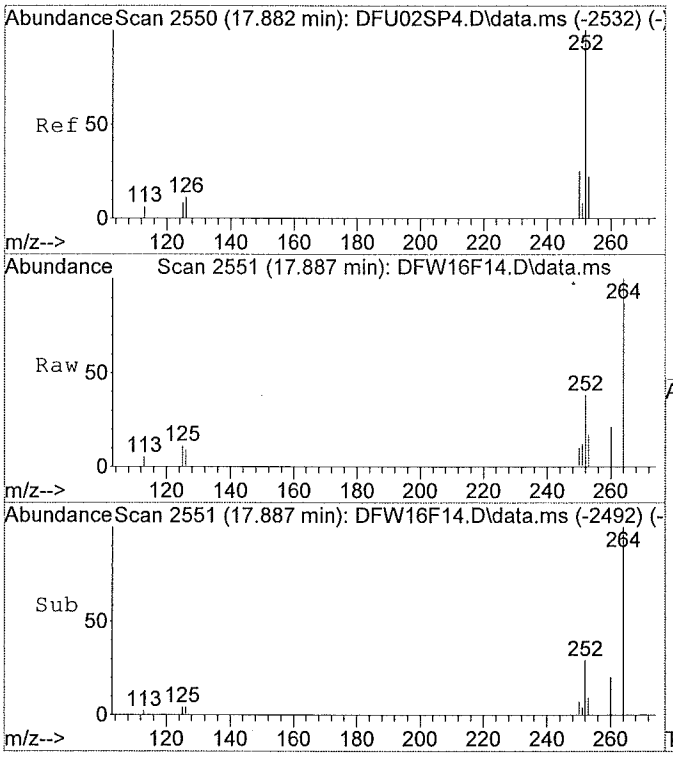


#20
Benzo(b)fluoranthene
Concen: 0.04 ug/ml
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DFW16F14.D
Acq: 06/08/2015 21:53

Tgt Ion:252 Resp: 41423

Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.3	28.3
125	14.5	0.0	0.0#
0	0.0	0.0	0.0

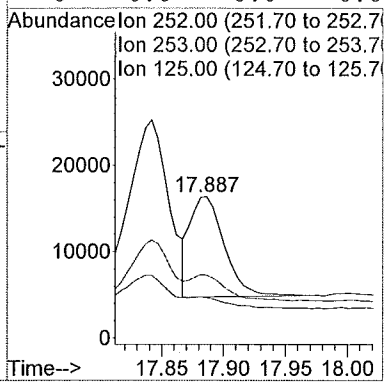


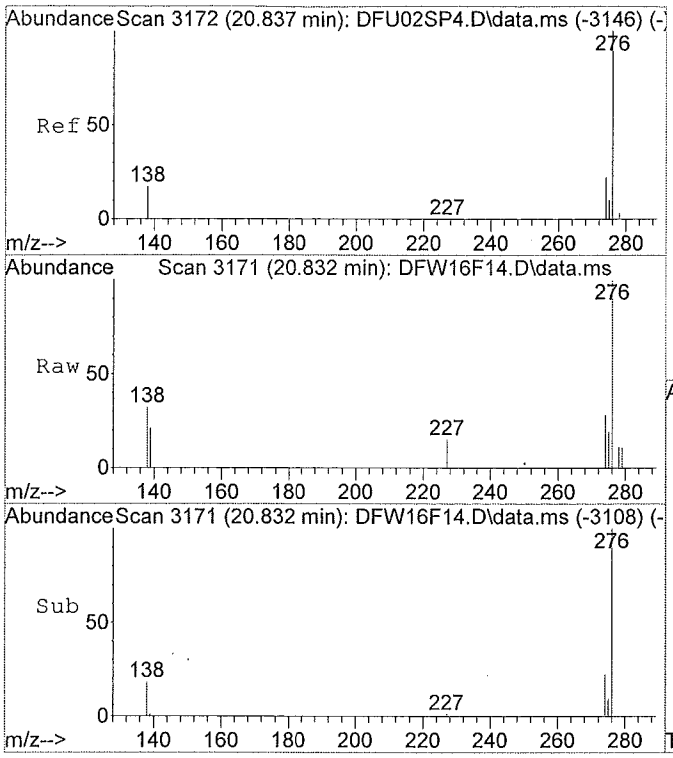


#22
Benzo(a)pyrene
Concen: 0.02 ug/ml
RT: 17.89 min Scan# 2551
Delta R.T. -0.00 min
Lab File: DFW16F14.D
Acq: 06/08/2015 21:53

Tgt Ion:252 Resp: 22555

Ion	Ratio	Lower	Upper
252	100		
253	0.0	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

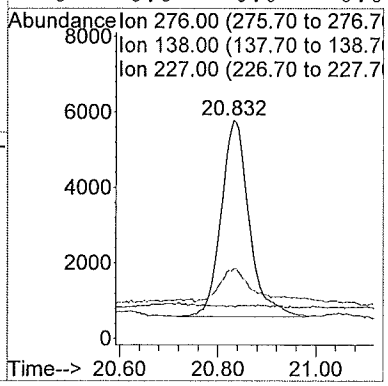




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.02 ug/ml
RT: 20.83 min Scan# 3171
Delta R.T. -0.02 min
Lab File: DFW16F14.D
Acq: 06/08/2015 21:53

Tgt Ion:276 Resp: 20380

Ion	Ratio	Lower	Upper
276	100		
138	17.1	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0



1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L70

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293015

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFW17F15

Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 10.0

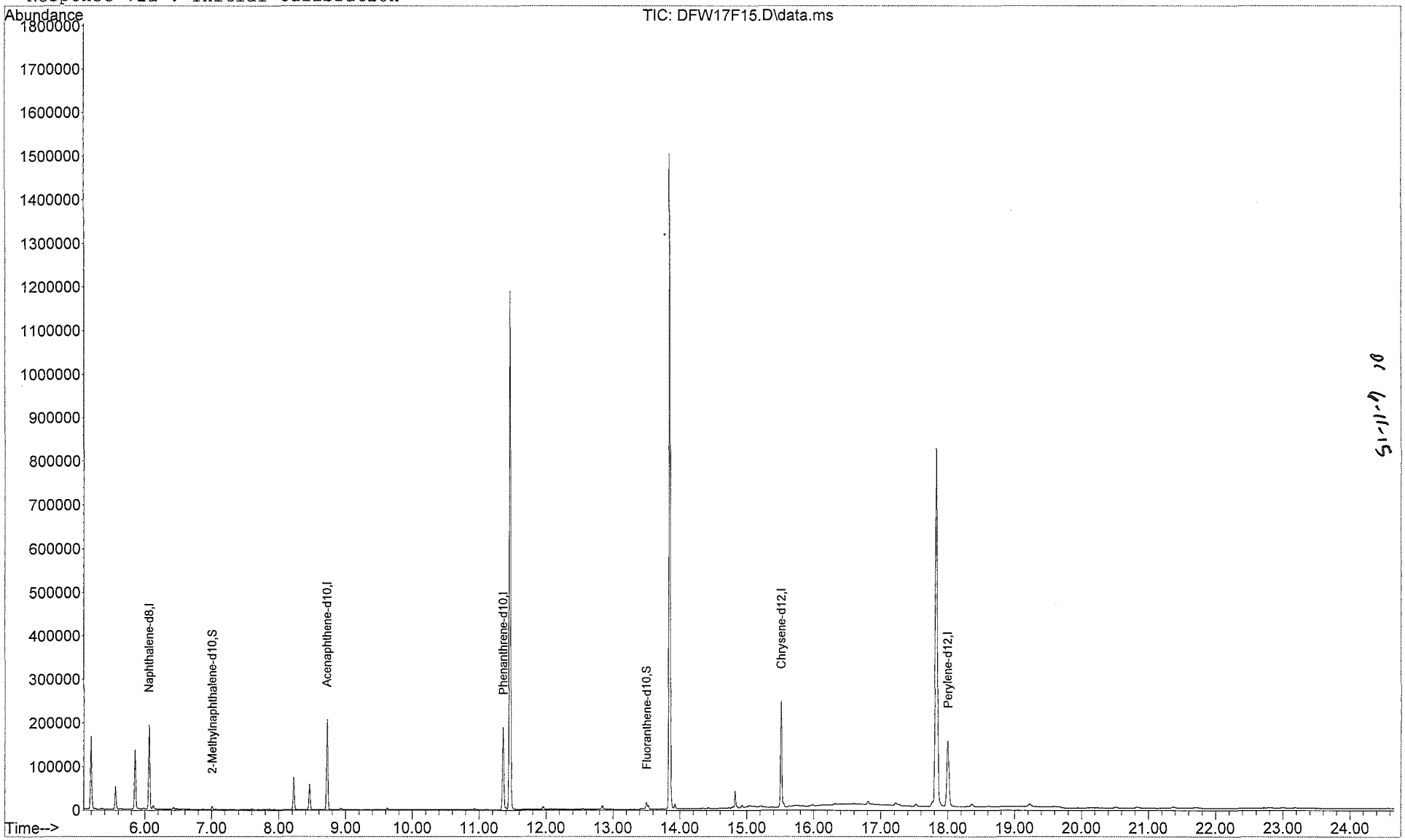
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	37.	U
91-57-6	2-Methylnaphthalene	37.	U
208-96-8	Acenaphthylene	37.	U
83-32-9	Acenaphthene	37.	U
86-73-7	Fluorene	37.	U
87-86-5	Pentachlorophenol	75.	U
85-01-8	Phenanthrene	37.	U
120-12-7	Anthracene	37.	U
206-44-0	Fluoranthene	37.	U
129-00-0	Pyrene	37.	U
56-55-3	Benzo(a)anthracene	37.	U
218-01-9	Chrysene	37.	U
205-99-2	Benzo(b)fluoranthene	37.	U
207-08-9	Benzo(k)fluoranthene	37.	U
50-32-8	Benzo(a)pyrene	37.	U
193-39-5	Indeno(1,2,3-cd)pyrene	37.	U
53-70-3	Dibenzo(a,h)anthracene	37.	U
191-24-2	Benzo(g,h,i)perylene	37.	U

Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW17F15.D Vial: 16
Acq On : 06/08/2015 22:23 Operator: DJC
Sample : 1514293015 F9L70 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 08 22:48:03 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



6-11-15

Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW17F15.D Vial: 16
Acq On : 06/08/2015 22:23 Operator: DJC
Sample : 1514293015 F9L70 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 08 22:48:03 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	219371	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	140364	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	251934	0.40 ug/ml
15) Chrysene-d12	15.51	240	279148	0.40 ug/ml
19) Perylene-d12	18.00	264	271992	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	8235	0.023ug/mL
13) Fluoranthene-d10	13.50	212	18207	0.026ug/mL
Target Compounds				Qvalue
2) Naphthalene	0.00	128		Not Detected
4) 2-Methylnaphthalene	0.00	142		Not Detected
6) Acenaphthylene	0.00	152		Not Detected
7) Acenaphthene	0.00	153		Not Detected
8) Fluorene	0.00	166		Not Detected
10) Pentachlorophenol	0.00	266		Not Detected
11) Phenanthrene	0.00	178		Not Detected
12) Anthracene	0.00	178		Not Detected
14) Fluoranthene	0.00	202		Not Detected
16) Pyrene	0.00	202		Not Detected
17) Benzo(a)anthracene	0.00	228		Not Detected
18) Chrysene	0.00	228		Not Detected
20) Benzo(b)fluoranthene	0.00	252		Not Detected
21) Benzo(k)fluoranthene	0.00	252		Not Detected
22) Benzo(a)pyrene	0.00	252		Not Detected
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected
25) Benzo(g,h,i)perylene	0.00	276		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293016

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFW18F16

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

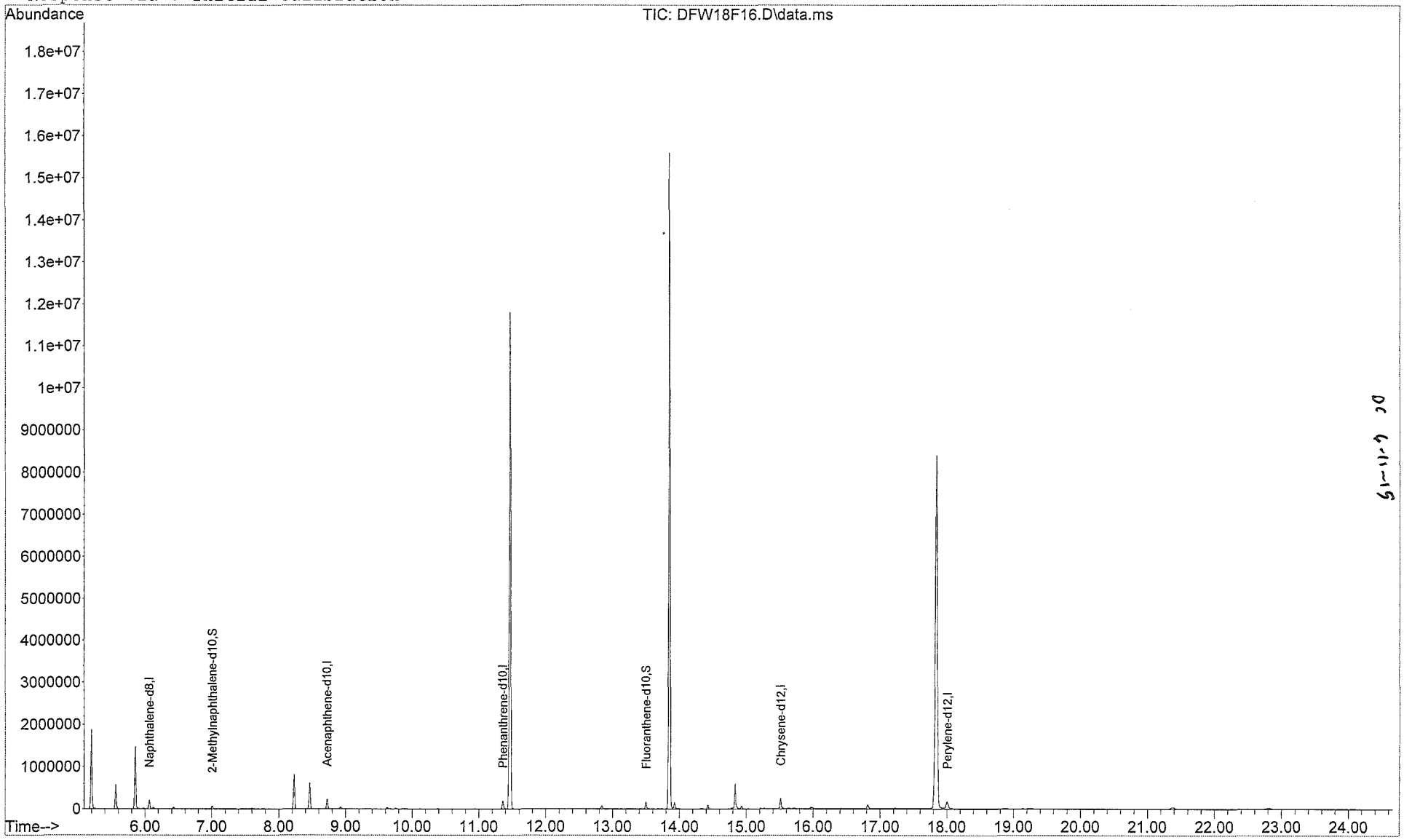
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.9	U
91-57-6	2-Methylnaphthalene	3.9	U
208-96-8	Acenaphthylene	3.9	U
83-32-9	Acenaphthene	3.9	U
86-73-7	Fluorene	3.9	U
87-86-5	Pentachlorophenol	7.8	U
85-01-8	Phenanthrene	3.9	U
120-12-7	Anthracene	3.9	U
206-44-0	Fluoranthene	3.9	U
129-00-0	Pyrene	3.9	U
56-55-3	Benzo(a)anthracene	3.9	U
218-01-9	Chrysene	3.9	U
205-99-2	Benzo(b)fluoranthene	3.9	U
207-08-9	Benzo(k)fluoranthene	3.9	U
50-32-8	Benzo(a)pyrene	3.9	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.9	U
53-70-3	Dibenzo(a,h)anthracene	3.9	U
191-24-2	Benzo(g,h,i)perylene	3.9	U

Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW18F16.D Vial: 17
Acq On : 06/08/2015 22:52 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 15:11:06 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW18F16.D Vial: 17
Acq On : 06/08/2015 22:52 Operator: DJC
Sample : 1514293016 F9L71 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:11:06 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	223849	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	152977	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	258487	0.40 ug/ml
15) Chrysene-d12	15.51	240	263922	0.40 ug/ml
19) Perylene-d12	18.01	264	296220	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	78420	0.217ug/mL
13) Fluoranthene-d10	13.50	212	188761	0.267ug/mL
Target Compounds				Qvalue
2) Naphthalene	0.00	128		Not Detected
4) 2-Methylnaphthalene	0.00	142		Not Detected
6) Acenaphthylene	0.00	152		Not Detected
7) Acenaphthene	0.00	153		Not Detected
8) Fluorene	0.00	166		Not Detected
10) Pentachlorophenol	0.00	266		Not Detected
11) Phenanthrene	0.00	178		Not Detected
12) Anthracene	0.00	178		Not Detected
14) Fluoranthene	0.00	202		Not Detected
16) Pyrene	0.00	202		Not Detected
17) Benzo(a)anthracene	0.00	228		Not Detected
18) Chrysene	0.00	228		Not Detected
20) Benzo(b)fluoranthene	0.00	252		Not Detected
21) Benzo(k)fluoranthene	0.00	252		Not Detected
22) Benzo(a)pyrene	0.00	252		Not Detected
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected
25) Benzo(g,h,i)perylene	0.00	276		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293017

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFW19F17

Extraction: (Type) SONC

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: 6.2 Dilution Factor: 1.0

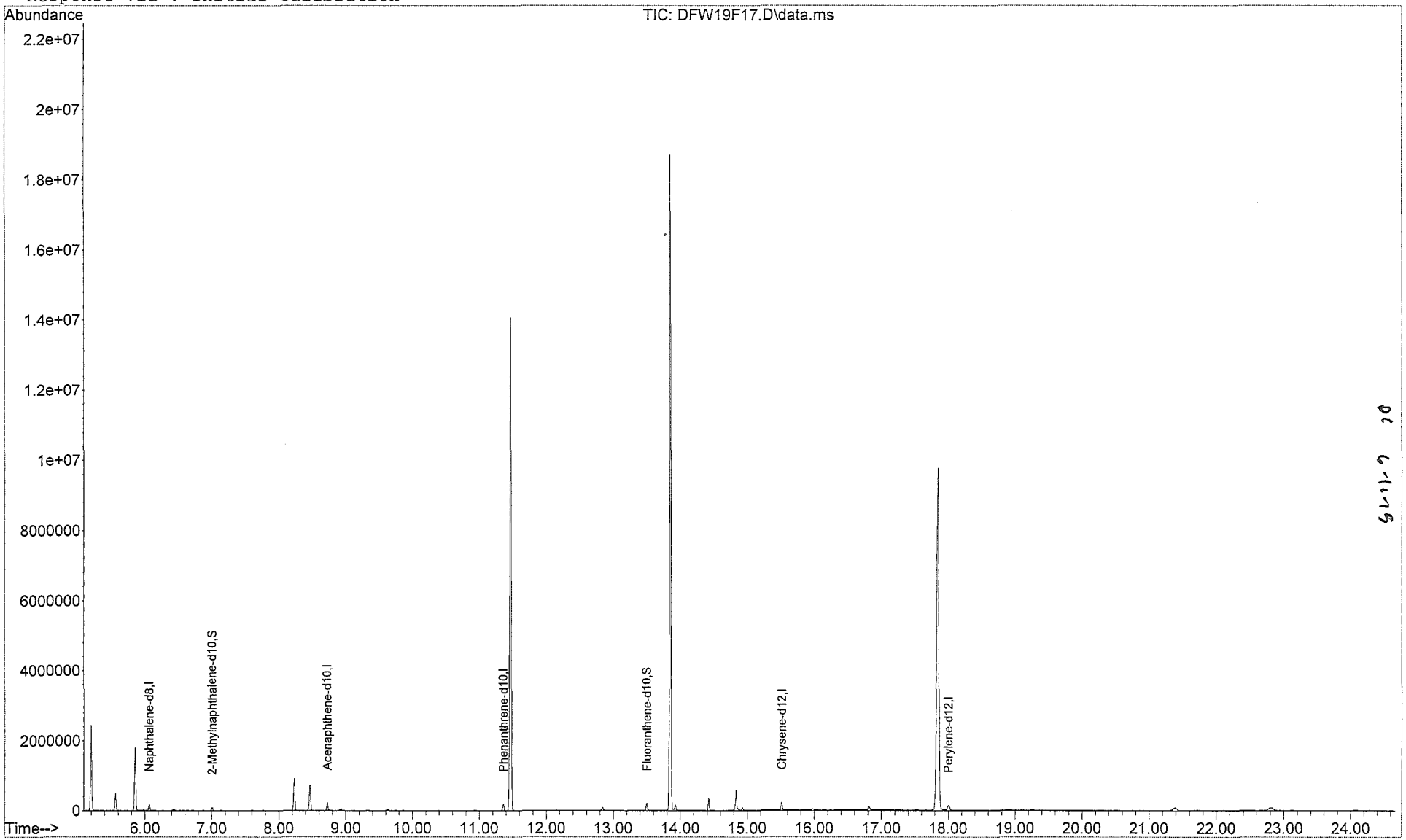
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	3.8	U
208-96-8	Acenaphthylene	3.8	U
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.8	U
85-01-8	Phenanthrene	3.8	U
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	3.8	U
129-00-0	Pyrene	3.8	U
56-55-3	Benzo(a)anthracene	3.8	U
218-01-9	Chrysene	3.8	U
205-99-2	Benzo(b)fluoranthene	3.8	U
207-08-9	Benzo(k)fluoranthene	3.8	U
50-32-8	Benzo(a)pyrene	3.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.8	U
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	1.1	J

Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW19F17.D Vial: 18
Acq On : 06/08/2015 23:22 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 15:11:14 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



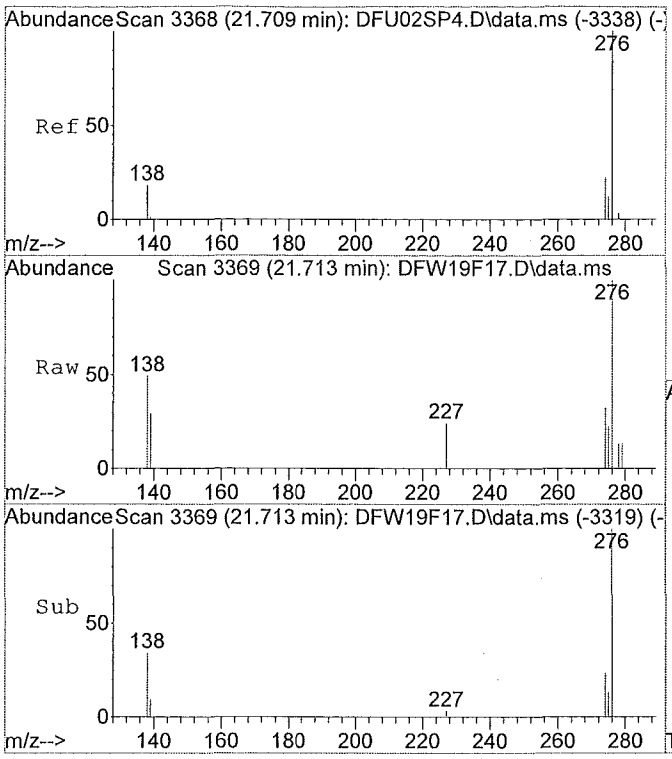
Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW19F17.D Vial: 18
Acq On : 06/08/2015 23:22 Operator: DJC
Sample : 1514293017 F9L72 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:11:14 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	
1) Naphthalene-d8	6.06	136	206483	0.40	ug/ml	
5) Acenaphthene-d10	8.72	164	146625	0.40	ug/ml	
9) Phenanthrene-d10	11.36	188	240091	0.40	ug/ml	
15) Chrysene-d12	15.51	240	247473	0.40	ug/ml	
19) Perylene-d12	18.00	264	263911	0.40	ug/ml	
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.00	152	105616	0.317	ug/mL	
13) Fluoranthene-d10	13.50	212	229691	0.350	ug/mL	
Target Compounds						Qvalue
2) Naphthalene	0.00	128		Not Detected		
4) 2-Methylnaphthalene	0.00	142		Not Detected		
6) Acenaphthylene	0.00	152		Not Detected		
7) Acenaphthene	0.00	153		Not Detected		
8) Fluorene	0.00	166		Not Detected		
10) Pentachlorophenol	0.00	266		Not Detected		
11) Phenanthrene	0.00	178		Not Detected		
12) Anthracene	0.00	178		Not Detected		
14) Fluoranthene	0.00	202		Not Detected		
16) Pyrene	0.00	202		Not Detected		
17) Benzo(a)anthracene	0.00	228		Not Detected		
18) Chrysene	0.00	228		Not Detected		
20) Benzo(b)fluoranthene	0.00	252		Not Detected		
21) Benzo(k)fluoranthene	0.00	252		Not Detected		
22) Benzo(a)pyrene	0.00	252		Not Detected		
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected		
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected		
25) Benzo(g,h,i)perylene	21.71	276	22568	0.029	ug/ml	51

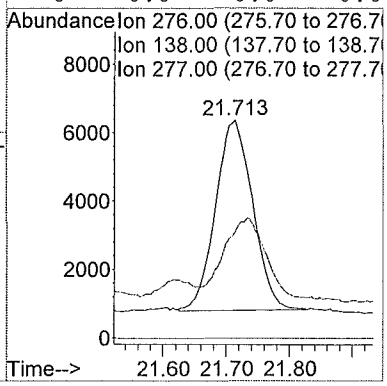
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#25
Benzo(g,h,i)perylene
Concen: 0.03 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DFW19F17.D
Acq: 06/08/2015 23:22

Tgt Ion:276 Resp: 22568

Ion	Ratio	Lower	Upper
276	100		
138	47.1	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293018

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFW24F18

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/09/2015

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

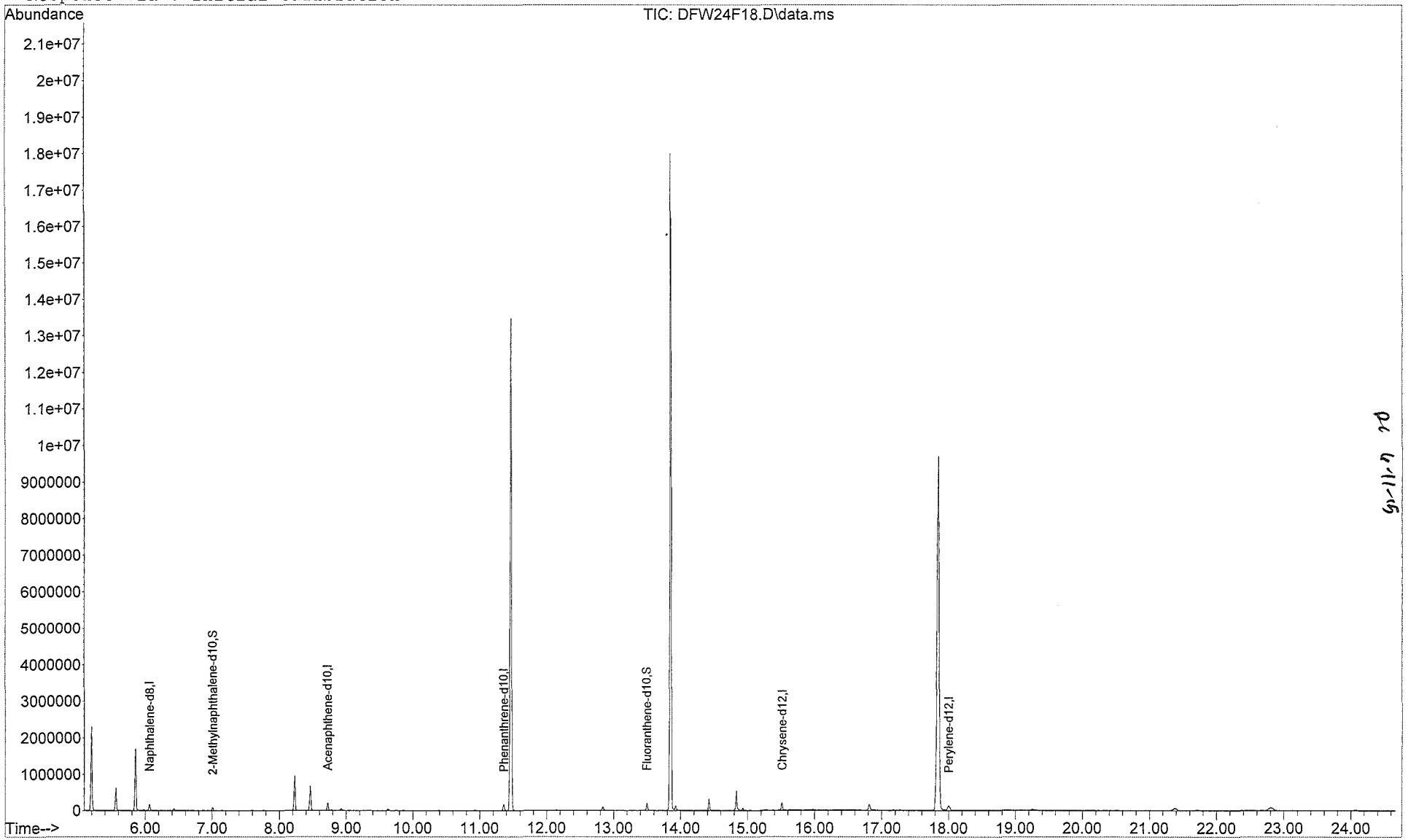
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	3.8	U
208-96-8	Acenaphthylene	3.8	U
83-32-9	Acenaphthene	0.79	J
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.7	U
85-01-8	Phenanthrene	3.8	U
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	3.8	U
129-00-0	Pyrene	3.8	U
56-55-3	Benzo(a)anthracene	3.8	U
218-01-9	Chrysene	3.8	U
205-99-2	Benzo(b)fluoranthene	3.8	U
207-08-9	Benzo(k)fluoranthene	3.8	U
50-32-8	Benzo(a)pyrene	3.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.8	U
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	1.4	J

Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW24F18.D Vial: 19
Acq On : 06/09/2015 01:20 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 15:09:29 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



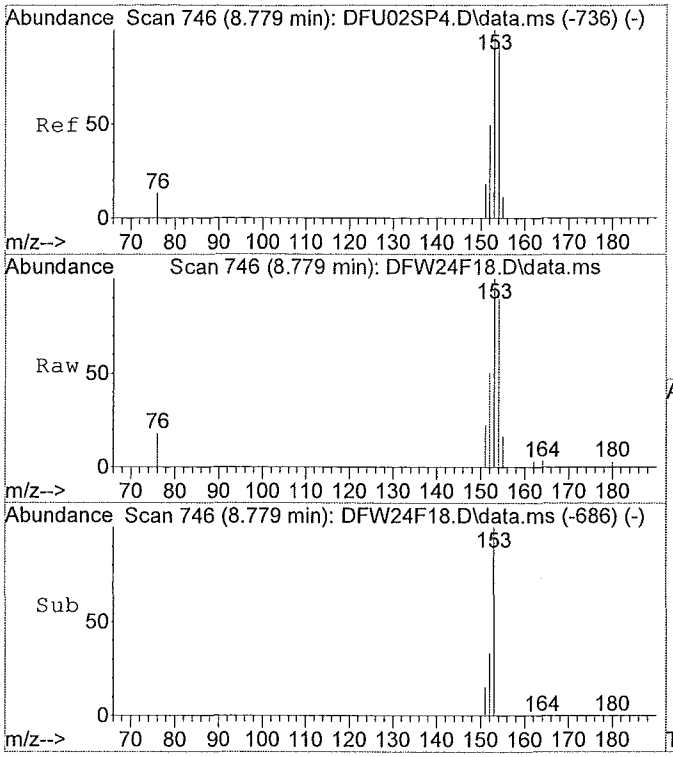
Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW24F18.D Vial: 19
Acq On : 06/09/2015 01:20 Operator: DJC
Sample : 1514293018 F9L73 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:09:29 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	
1) Naphthalene-d8	6.06	136	188322	0.40	ug/ml	
5) Acenaphthene-d10	8.72	164	132837	0.40	ug/ml	
9) Phenanthrene-d10	11.36	188	215212	0.40	ug/ml	
15) Chrysene-d12	15.51	240	227206	0.40	ug/ml	
19) Perylene-d12	18.00	264	248517	0.40	ug/ml	
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.00	152	90187	0.297	ug/mL	
13) Fluoranthene-d10	13.49	212	222147	0.377	ug/mL	
Target Compounds						Qvalue
2) Naphthalene	0.00	128		Not Detected		
4) 2-Methylnaphthalene	0.00	142		Not Detected		
6) Acenaphthylene	0.00	152		Not Detected		
7) Acenaphthene	8.78	153	7662	0.021	ug/ml	97
8) Fluorene	0.00	166		Not Detected		
10) Pentachlorophenol	0.00	266		Not Detected		
11) Phenanthrene	0.00	178		Not Detected		
12) Anthracene	0.00	178		Not Detected		
14) Fluoranthene	0.00	202		Not Detected		
16) Pyrene	0.00	202		Not Detected		
17) Benzo(a)anthracene	0.00	228		Not Detected		
18) Chrysene	0.00	228		Not Detected		
20) Benzo(b)fluoranthene	0.00	252		Not Detected		
21) Benzo(k)fluoranthene	0.00	252		Not Detected		
22) Benzo(a)pyrene	0.00	252		Not Detected		
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected		
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected		
25) Benzo(g,h,i)perylene	21.71	276	26666	0.037	ug/ml	65

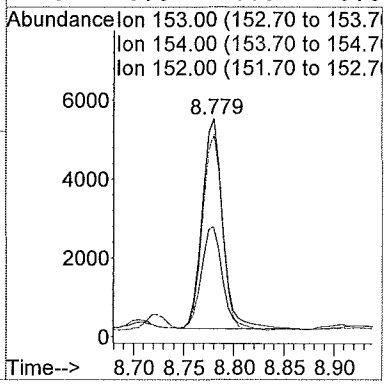
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

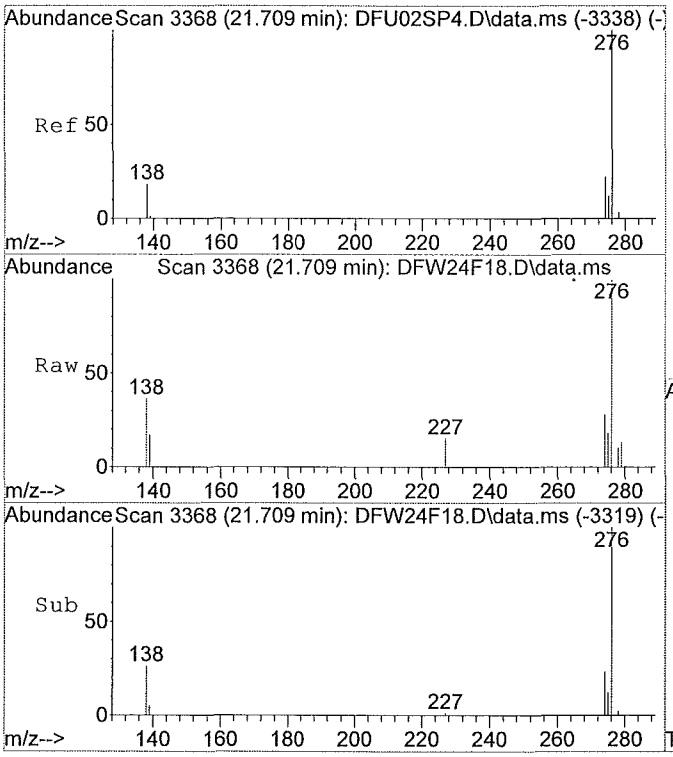


#7
Acenaphthene
Concen: 0.02 ug/ml
RT: 8.78 min Scan# 746
Delta R.T. -0.00 min
Lab File: DFW24F18.D
Acq: 06/09/2015 01:20

Tgt Ion:153 Resp: 7662

Ion	Ratio	Lower	Upper
153	100		
154	89.5	65.1	120.9
152	49.7	35.2	65.4
0	0.0	0.0	0.0

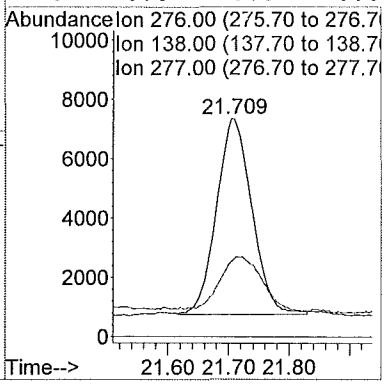




#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 21.71 min Scan# 3368
Delta R.T. -0.01 min
Lab File: DFW24F18.D
Acq: 06/09/2015 01:20

Tgt Ion:276 Resp: 26666

Ion	Ratio	Lower	Upper
276	100		
138	33.5	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L75

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293019

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFW25F19

Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/09/2015

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

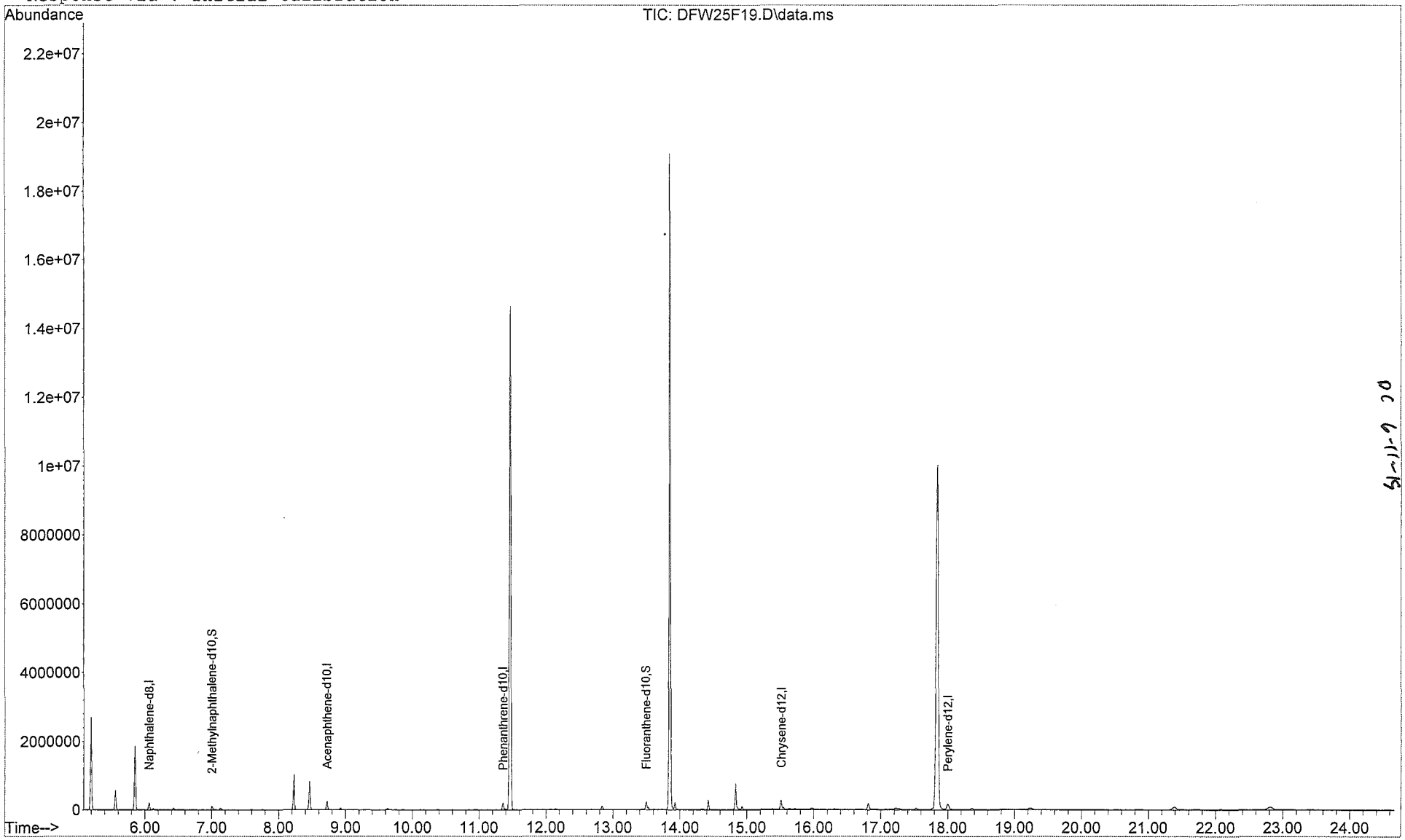
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	3.8	U
208-96-8	Acenaphthylene	3.8	U
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.6	U
85-01-8	Phenanthrene	1.3	J
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	2.4	J
129-00-0	Pyrene	2.5	J
56-55-3	Benzo(a)anthracene	1.8	J
218-01-9	Chrysene	2.2	J
205-99-2	Benzo(b)fluoranthene	2.4	J
207-08-9	Benzo(k)fluoranthene	3.8	U
50-32-8	Benzo(a)pyrene	1.4	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.5	J
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	1.7	J

Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW25F19.D Vial: 20
Acq On : 06/09/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 15:05:31 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW25F19.D Vial: 20
Acq On : 06/09/2015 01:50 Operator: DJC
Sample : 1514293019 F9L75 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:05:31 2015 Results File: DSOM_SIMJ2.RES

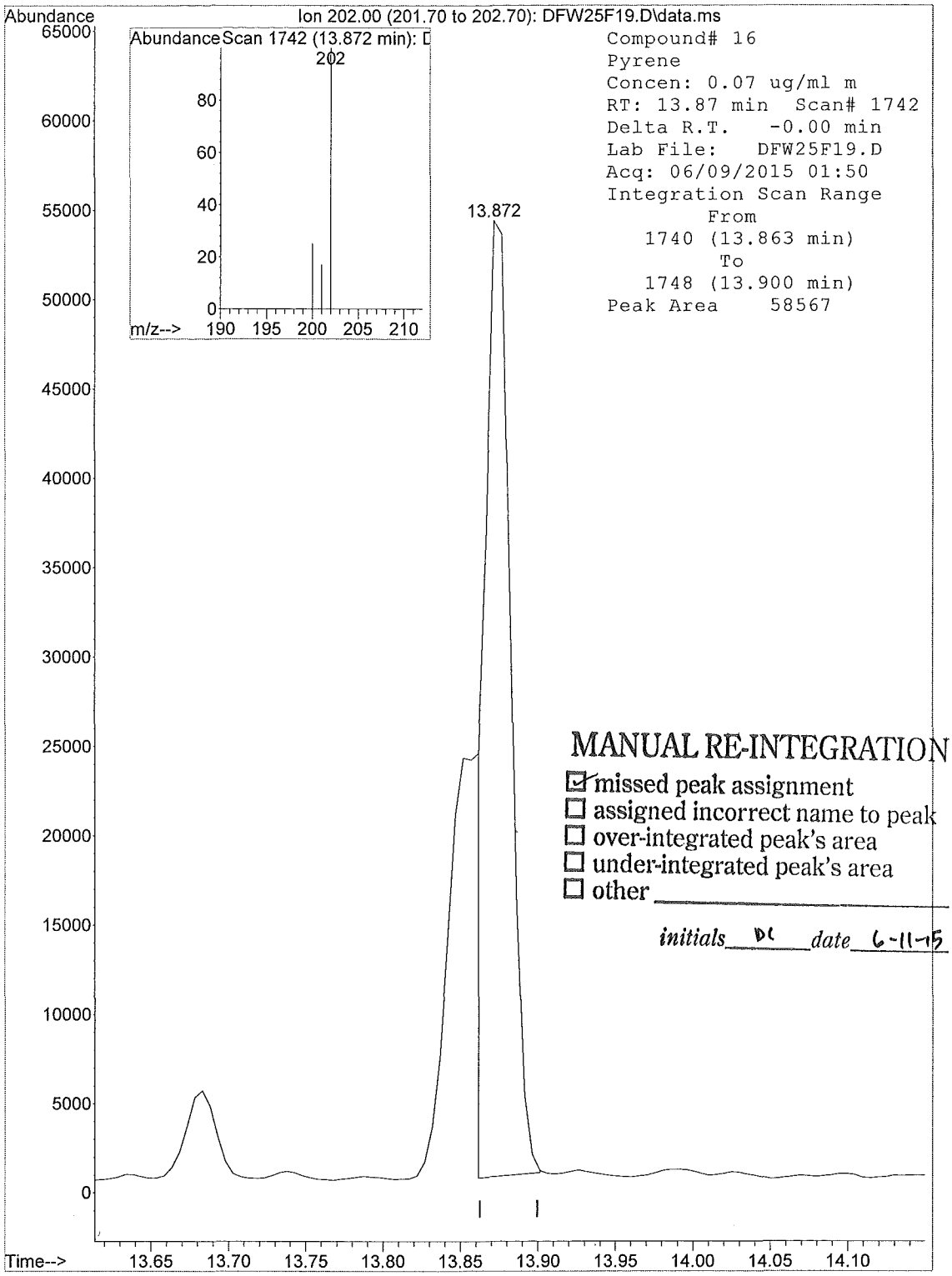
Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	230562	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	163032	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	272824	0.40 ug/ml	
15) Chrysene-d12	15.51	240	278600	0.40 ug/ml	
19) Perylene-d12	18.00	264	296946	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	114920	0.309ug/mL	
13) Fluoranthene-d10	13.49	212	251422	0.337ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	25996	0.033ug/ml	90
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.52	202	55713	0.062ug/ml	66
16) Pyrene	13.87	202	58567	0.067ug/ml m	1
17) Benzo(a)anthracene	15.50	228	34617	0.047ug/ml	92
18) Chrysene	15.54	228	44641	0.057ug/ml	94
20) Benzo(b)fluoranthene	17.22	252	59370	0.064ug/ml	99
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.89	252	32552	0.037ug/ml	94
23) Indeno(1,2,3-c,d)pyrene	20.84	276	31185	0.040ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.71	276	39394	0.045ug/ml	59

DC 6-11-15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

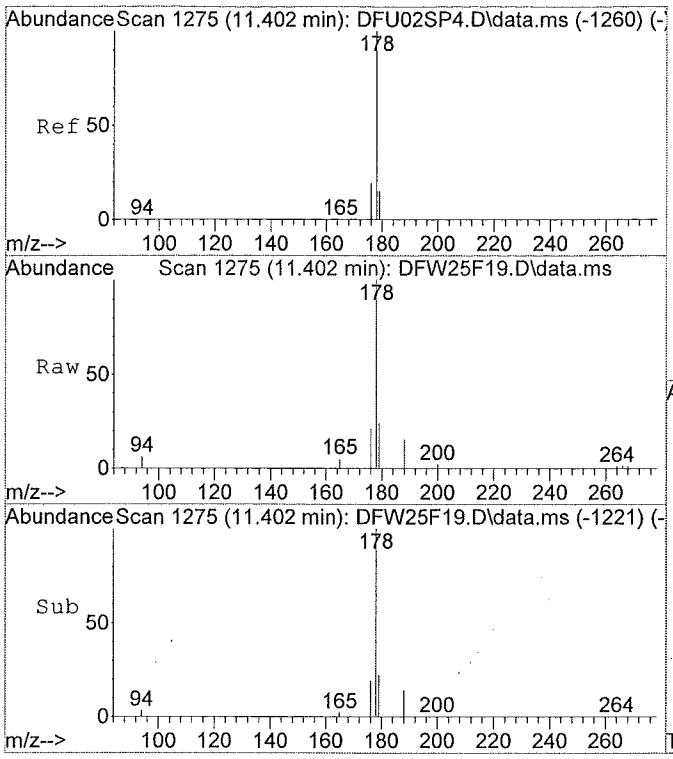
M A N U A L I N T E G R A T I O N FOR Pyrene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

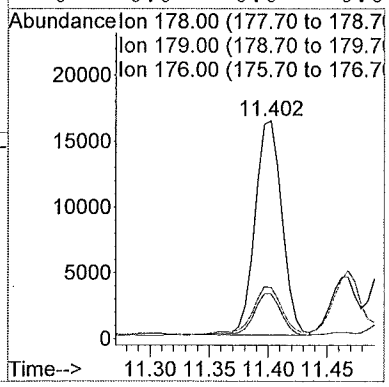
initials DC *date* 6-11-15

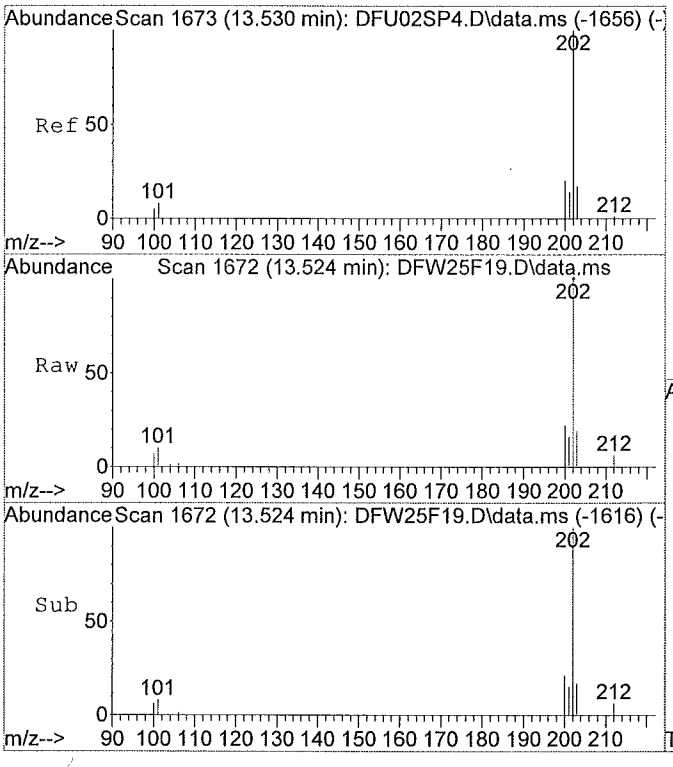


#11
Phenanthrene
Concen: 0.03 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:178 Resp: 25996

Ion	Ratio	Lower	Upper
178	100		
179	23.6	11.1	20.5#
176	18.9	14.1	26.1
0	0.0	0.0	0.0

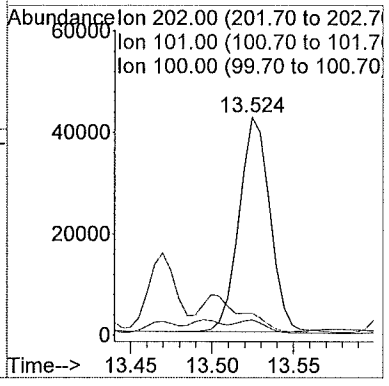


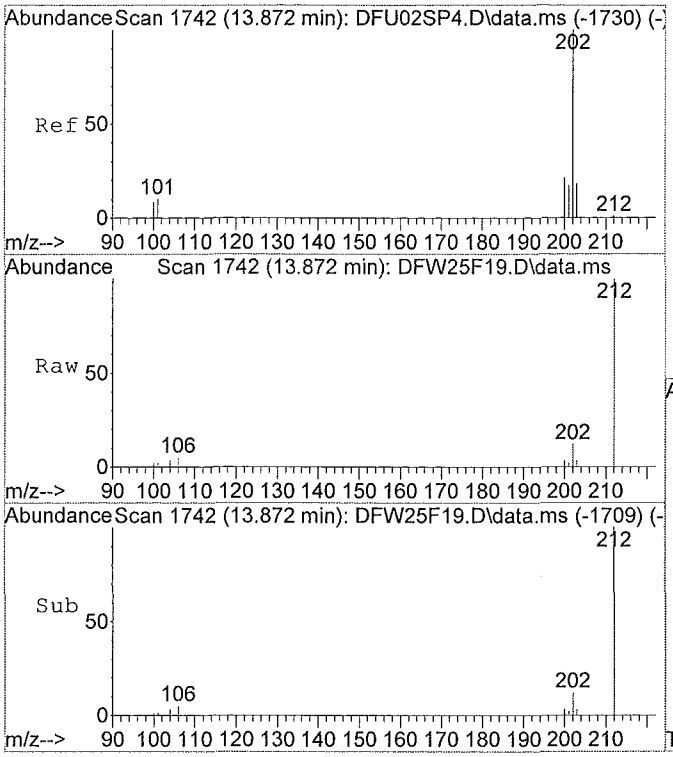


#14
Fluoranthene
Concen: 0.06 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:202 Resp: 55713

Ion	Ratio	Lower	Upper
202	100		
101	0.0	9.4	17.6#
100	6.2	0.0	0.0#
0	0.0	0.0	0.0

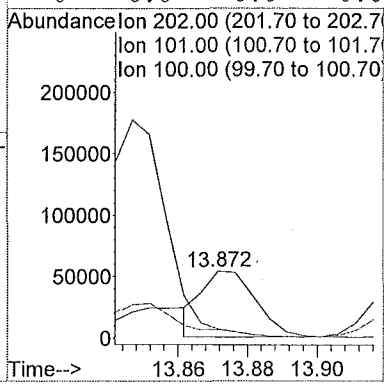


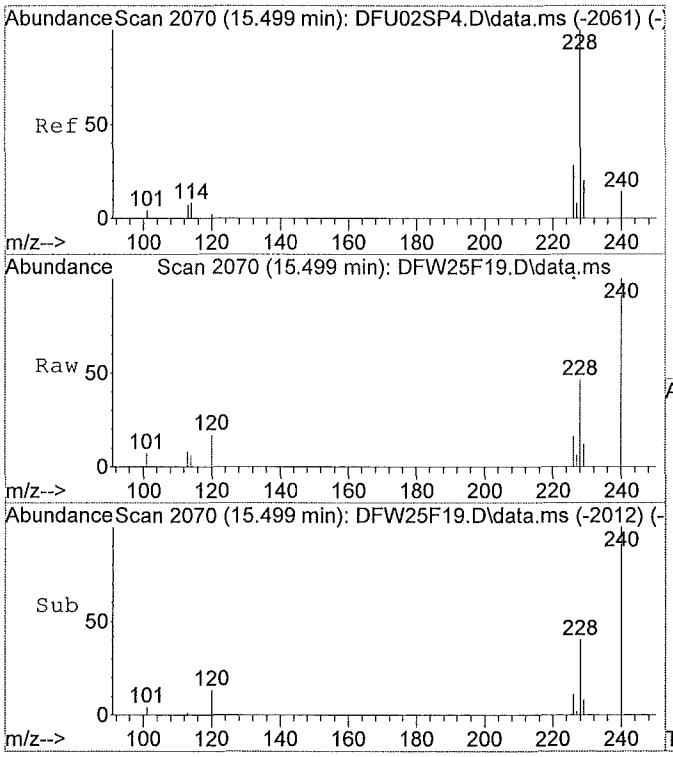


#16
Pyrene
Concen: 0.07 ug/ml m
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:202 Resp: 58567

Ion	Ratio	Lower	Upper
202	100		
101	90.7	10.6	19.6#
100	462.6	9.4	17.4#
0	0.0	0.0	0.0

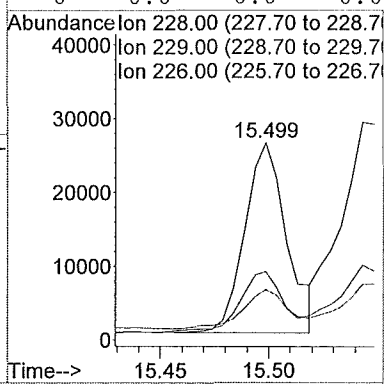


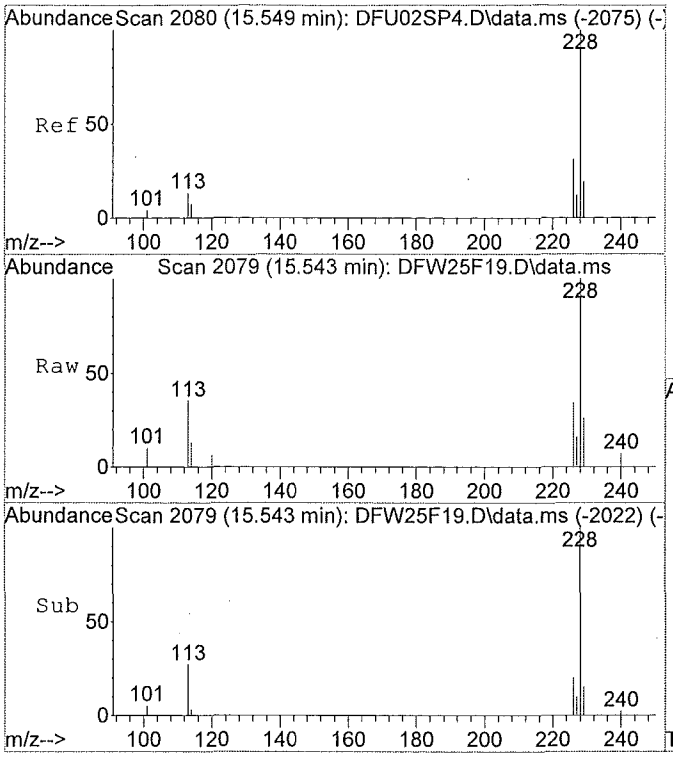


#17
Benzo(a)anthracene
Concen: 0.05 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:228 Resp: 34617

Ion	Ratio	Lower	Upper
228	100		
229	21.8	14.5	26.9
226	32.5	18.5	34.3
0	0.0	0.0	0.0

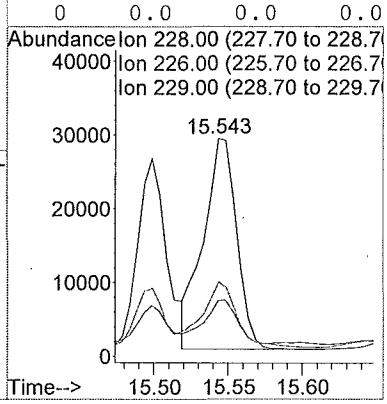


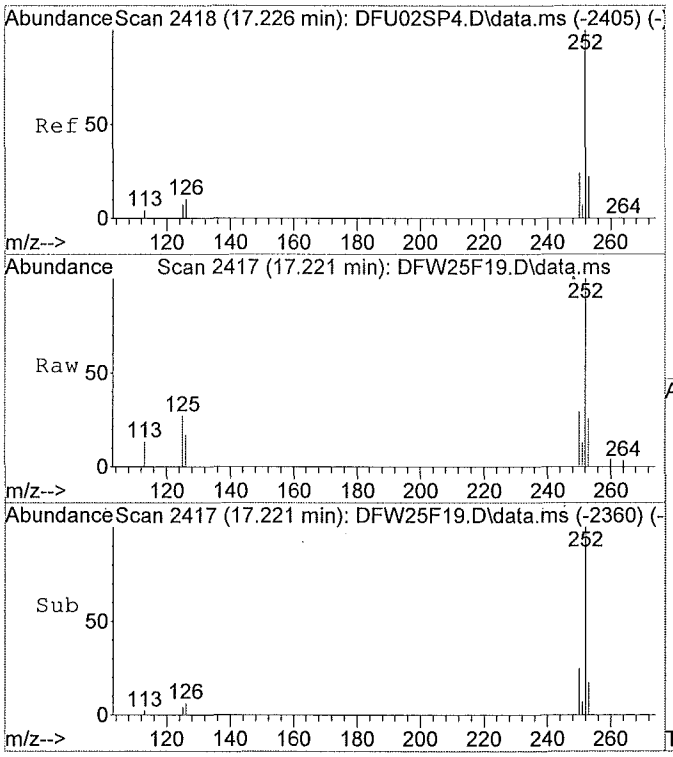


#18
Chrysene
Concen: 0.06 ug/ml
RT: 15.54 min Scan# 2079
Delta R.T. -0.01 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:228 Resp: 44641

Ion	Ratio	Lower	Upper
228	100		
226	33.2	19.7	36.7
229	20.0	14.5	26.9
0	0.0	0.0	0.0

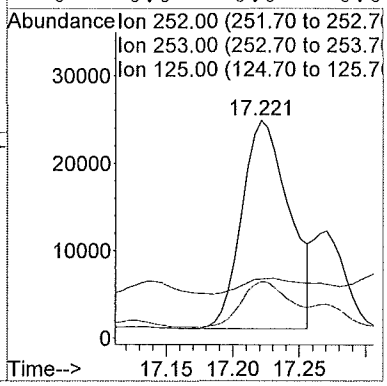


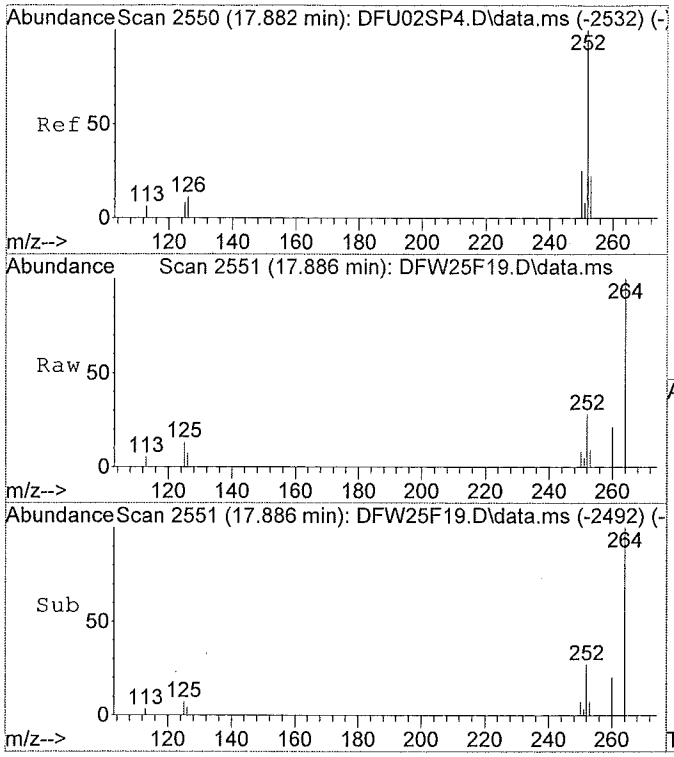


#20
Benzo(b)fluoranthene
Concen: 0.06 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:252 Resp: 59370

Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.3	28.3
125	16.9	0.0	0.0#
0	0.0	0.0	0.0

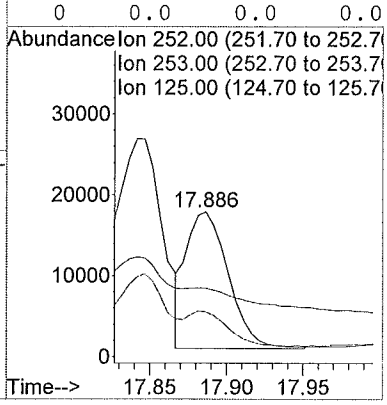


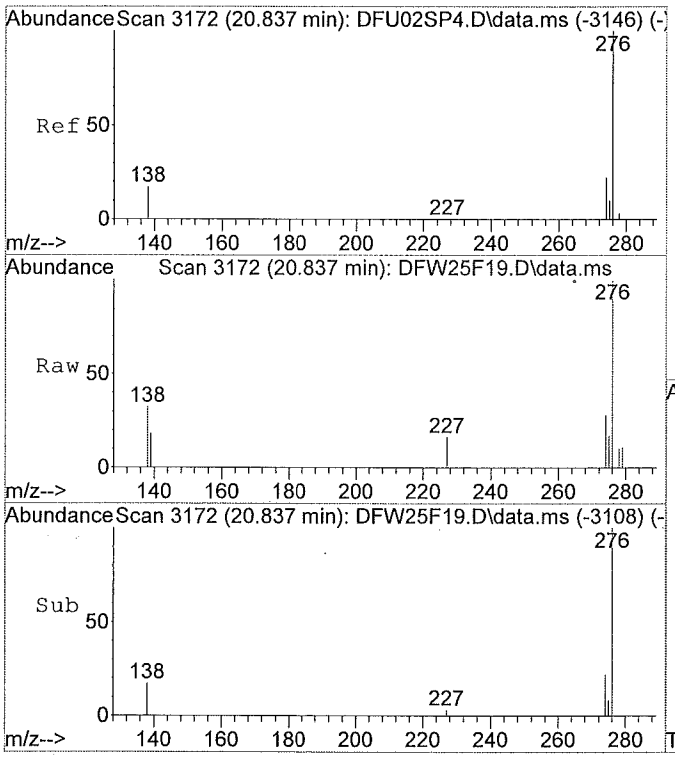


#22
Benzo(a)pyrene
Concen: 0.04 ug/ml
RT: 17.89 min Scan# 2551
Delta R.T. -0.00 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:252 Resp: 32552

Ion	Ratio	Lower	Upper
252	100		
253	24.2	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

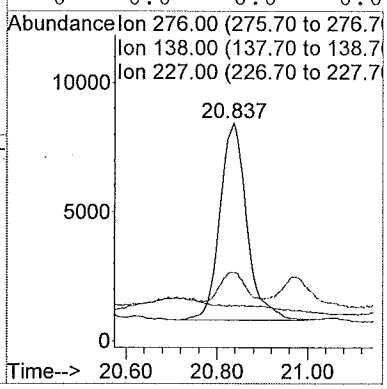


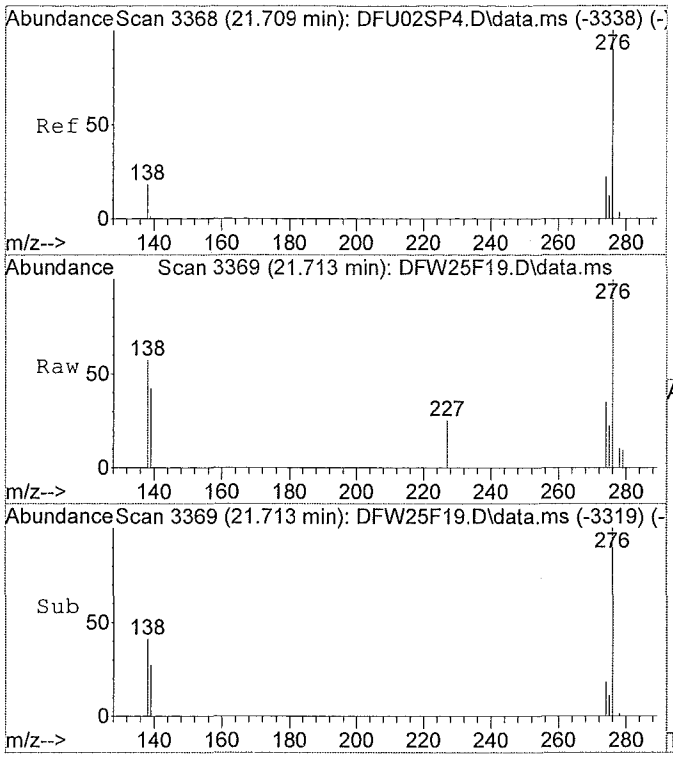


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.04 ug/ml
RT: 20.84 min Scan# 3172
Delta R.T. -0.01 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:276 Resp: 31185

Ion	Ratio	Lower	Upper
276	100		
138	13.1	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

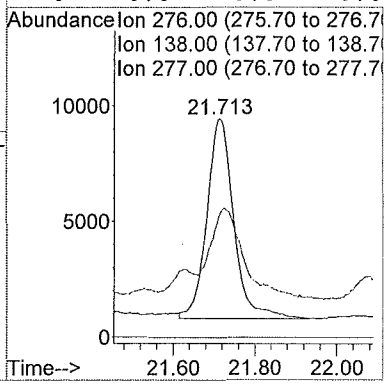




#25
Benzo(g,h,i)perylene
Concen: 0.05 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DFW25F19.D
Acq: 06/09/2015 01:50

Tgt Ion:276 Resp: 39394

Ion	Ratio	Lower	Upper
276	100		
138	39.8	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293020

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFW26F20

Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/09/2015

GPC Cleanup: (Y/N) Y pH: 6.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	3.7	U
208-96-8	Acenaphthylene	3.7	U
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.5	U
85-01-8	Phenanthrene	3.7	U
120-12-7	Anthracene	3.7	U
206-44-0	Fluoranthene	3.7	U
129-00-0	Pyrene	3.7	U
56-55-3	Benzo(a)anthracene	3.7	U
218-01-9	Chrysene	3.7	U
205-99-2	Benzo(b)fluoranthene	3.7	U
207-08-9	Benzo(k)fluoranthene	3.7	U
50-32-8	Benzo(a)pyrene	3.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.7	U
53-70-3	Dibenzo(a,h)anthracene	3.7	U
191-24-2	Benzo(g,h,i)perylene	3.7	U

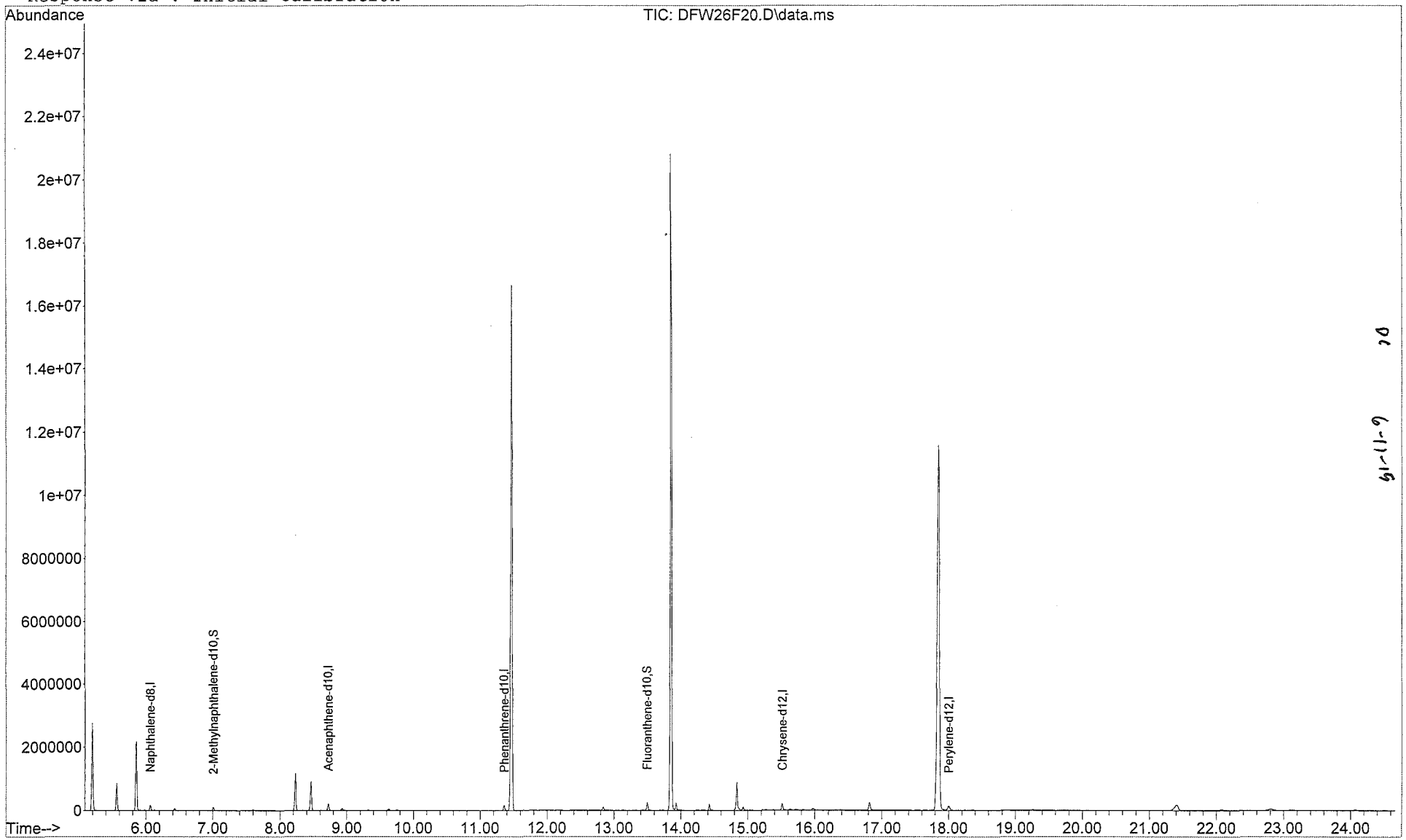
Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW26F20.D
Acq On : 06/09/2015 02:19
Sample : 1514293020 F9L77
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 21
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 15:09:43 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW26F20.D Vial: 21
Acq On : 06/09/2015 02:19 Operator: DJC
Sample : 1514293020 F9L77 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:09:43 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	187311	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	137367	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	223287	0.40 ug/ml
15) Chrysene-d12	15.51	240	230422	0.40 ug/ml
19) Perylene-d12	18.00	264	251094	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	115702	0.383ug/mL
13) Fluoranthene-d10	13.49	212	281180	0.460ug/mL
Target Compounds				Qvalue
2) Naphthalene	0.00	128		Not Detected
4) 2-Methylnaphthalene	0.00	142		Not Detected
6) Acenaphthylene	0.00	152		Not Detected
7) Acenaphthene	0.00	153		Not Detected
8) Fluorene	0.00	166		Not Detected
10) Pentachlorophenol	0.00	266		Not Detected
11) Phenanthrene	0.00	178		Not Detected
12) Anthracene	0.00	178		Not Detected
14) Fluoranthene	0.00	202		Not Detected
16) Pyrene	0.00	202		Not Detected
17) Benzo(a)anthracene	0.00	228		Not Detected
18) Chrysene	0.00	228		Not Detected
20) Benzo(b)fluoranthene	0.00	252		Not Detected
21) Benzo(k)fluoranthene	0.00	252		Not Detected
22) Benzo(a)pyrene	0.00	252		Not Detected
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected
25) Benzo(g,h,i)perylene	0.00	276		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293021

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFW27F21

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/09/2015

GPC Cleanup: (Y/N) Y pH: 6.8 Dilution Factor: 1.0

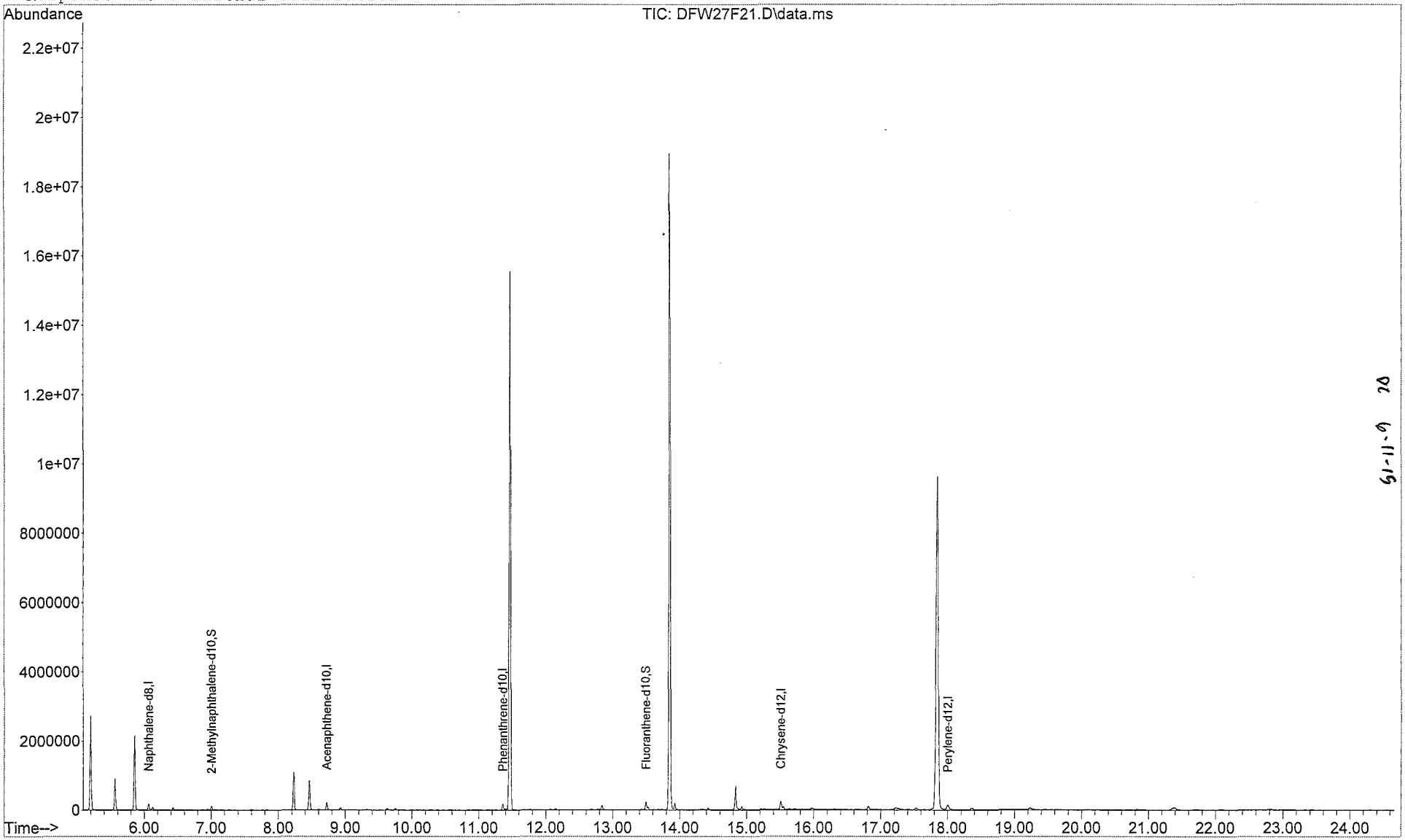
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.8	U
91-57-6	2-Methylnaphthalene	3.8	U
208-96-8	Acenaphthylene	0.87	J
83-32-9	Acenaphthene	3.8	U
86-73-7	Fluorene	3.8	U
87-86-5	Pentachlorophenol	7.7	U
85-01-8	Phenanthrene	1.8	J
120-12-7	Anthracene	3.8	U
206-44-0	Fluoranthene	3.0	J
129-00-0	Pyrene	3.9	
56-55-3	Benzo(a)anthracene	2.7	J
218-01-9	Chrysene	3.5	J
205-99-2	Benzo(b)fluoranthene	3.8	J
207-08-9	Benzo(k)fluoranthene	1.1	J
50-32-8	Benzo(a)pyrene	2.1	J
193-39-5	Indeno(1,2,3-cd)pyrene	2.5	J
53-70-3	Dibenzo(a,h)anthracene	3.8	U
191-24-2	Benzo(g,h,i)perylene	1.8	J

Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW27F21.D Vial: 22
Acq On : 06/09/2015 02:49 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jun 10 15:07:25 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

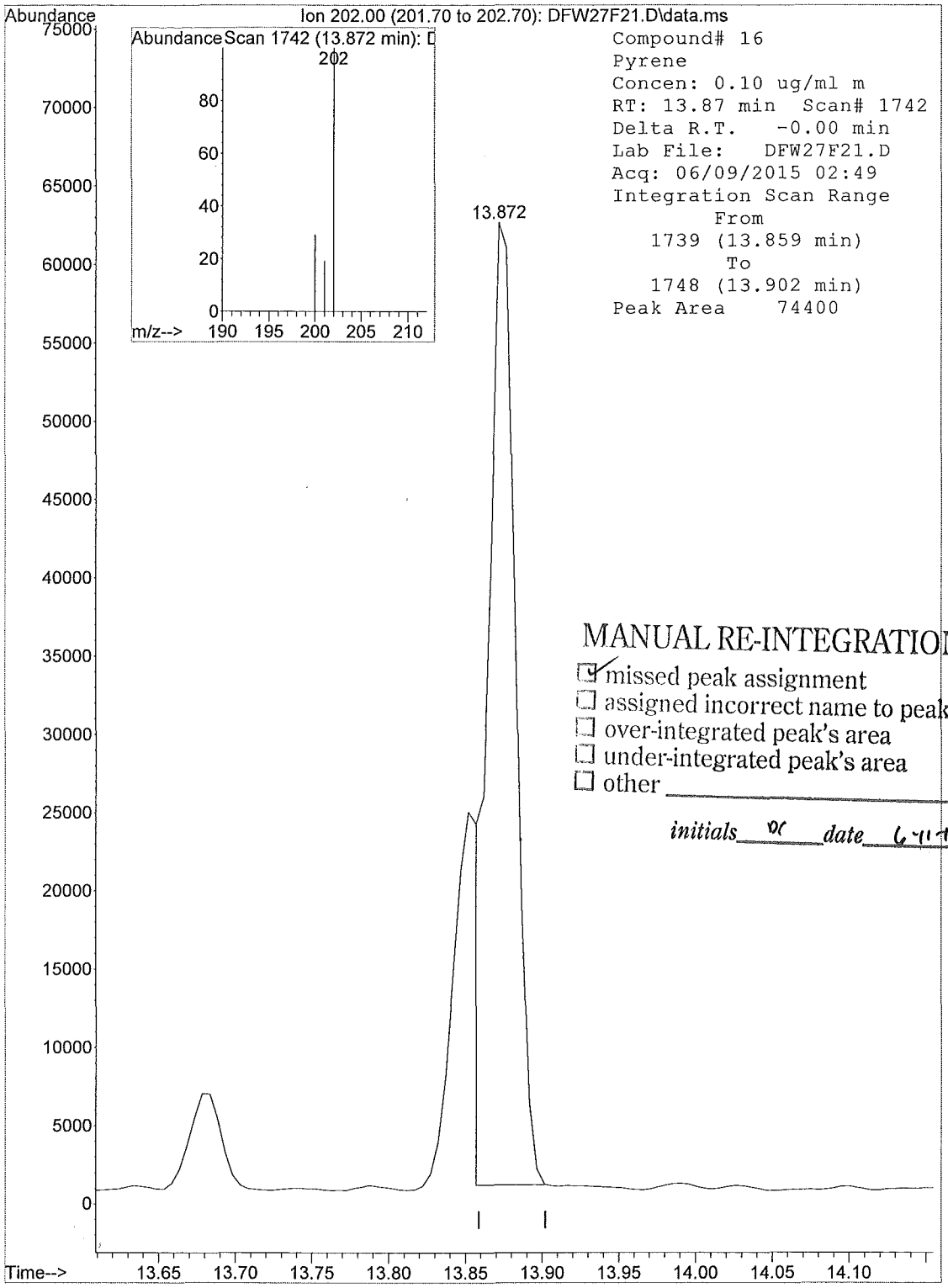
Data File : Z:\D\2015\JUN15\08JUN15\DFW27F21.D Vial: 22
Acq On : 06/09/2015 02:49 Operator: DJC
Sample : 1514293021 F9L78 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:07:25 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	195645	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	140589	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	235774	0.40 ug/ml	
15) Chrysene-d12	15.51	240	235801	0.40 ug/ml	
19) Perylene-d12	18.00	264	256400	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	116241	0.368ug/mL	
13) Fluoranthene-d10	13.49	212	250193	0.388ug/mL	
Target Compounds					Qvalue
2) Naphthalene	0.00	128		Not Detected	
4) 2-Methylnaphthalene	0.00	142		Not Detected	
6) Acenaphthylene	8.49	152	13921	0.023ug/ml	68
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	32053	0.047ug/ml	94
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.52	202	59478	0.077ug/ml	66
16) Pyrene	13.87	202	74400	0.101ug/ml m	1
17) Benzo(a)anthracene	15.50	228	43925	0.070ug/ml DC 6-11-15	93
18) Chrysene	15.55	228	61052	0.092ug/ml	96
20) Benzo(b)fluoranthene	17.22	252	79067	0.099ug/ml	99
21) Benzo(k)fluoranthene	17.27	252	24599	0.030ug/ml m	98
22) Benzo(a)pyrene	17.89	252	41138	0.054ug/ml DC 6-11-15	96
23) Indeno(1,2,3-c,d)pyrene	20.83	276	42656	0.064ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	21.71	276	34921	0.046ug/ml	74

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

M A N U A L I N T E G R A T I O N FOR Pyrene

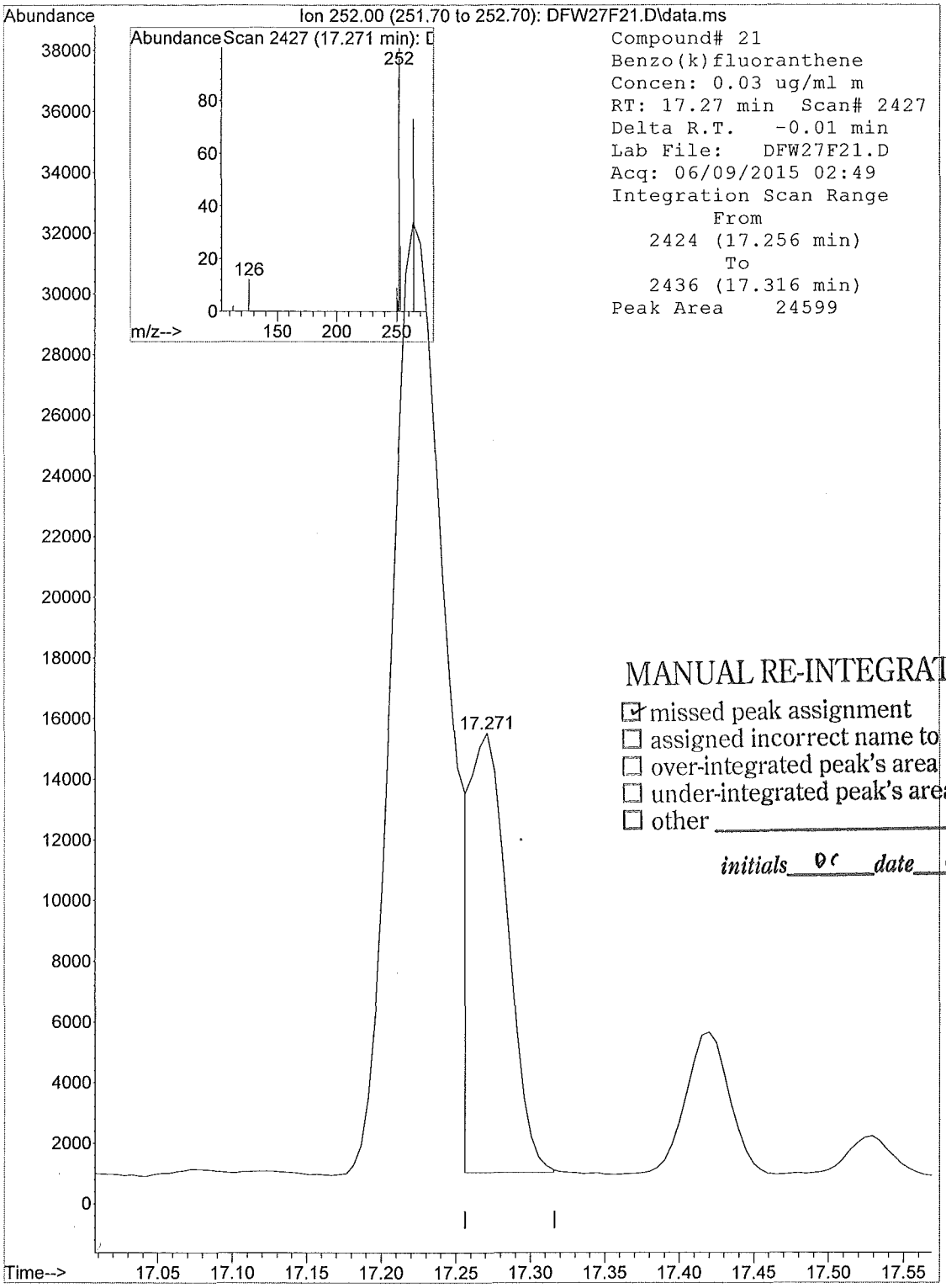


MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials DC *date* 6-11-15

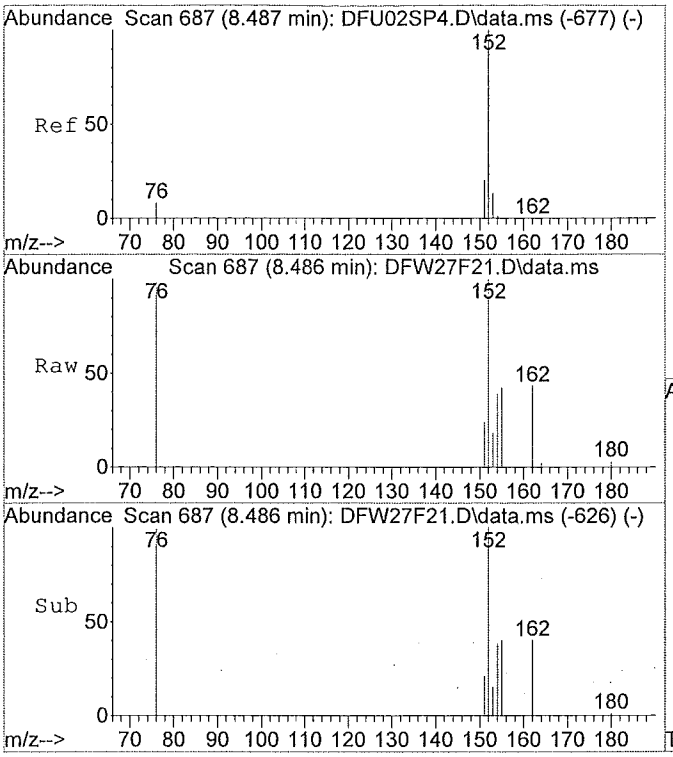
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

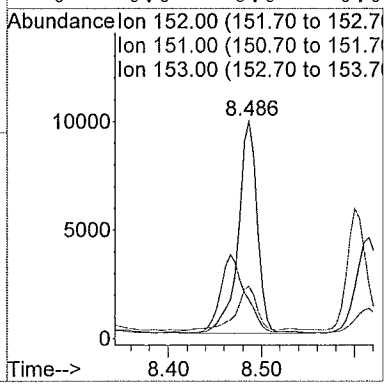
initials DC *date* 6-11-15

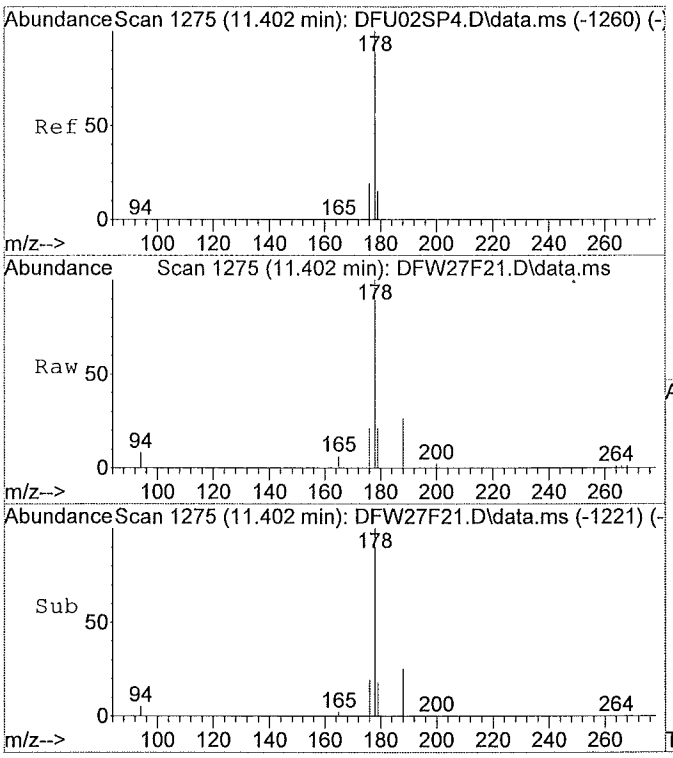


#6
Acenaphthylene
Concen: 0.02 ug/ml
RT: 8.49 min Scan# 687
Delta R.T. 0.00 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:152 Resp: 13921

Ion	Ratio	Lower	Upper
152	100		
151	22.5	15.5	28.7
153	47.3	8.8	16.4#
0	0.0	0.0	0.0

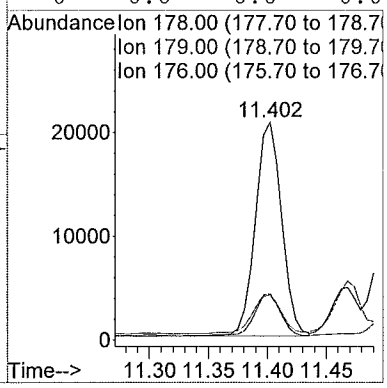


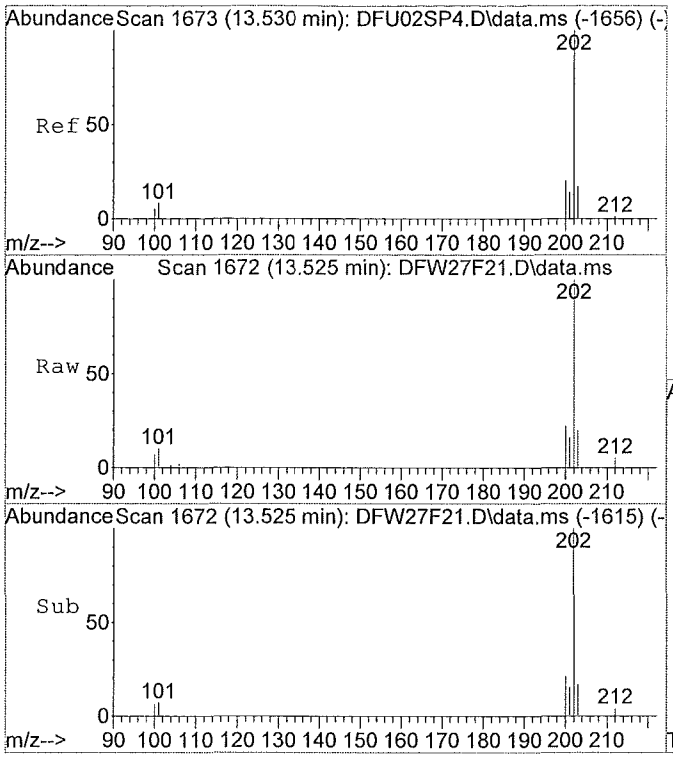


#11
Phenanthrene
Concen: 0.05 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:178 Resp: 32053

Ion	Ratio	Lower	Upper
178	100		
179	20.5	11.1	20.5
176	21.3	14.1	26.1
0	0.0	0.0	0.0

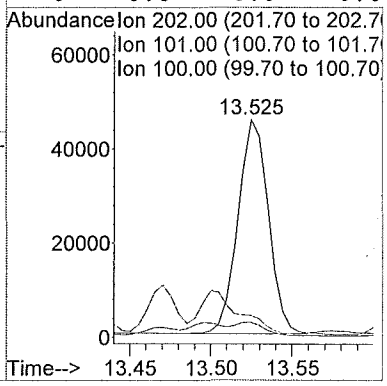


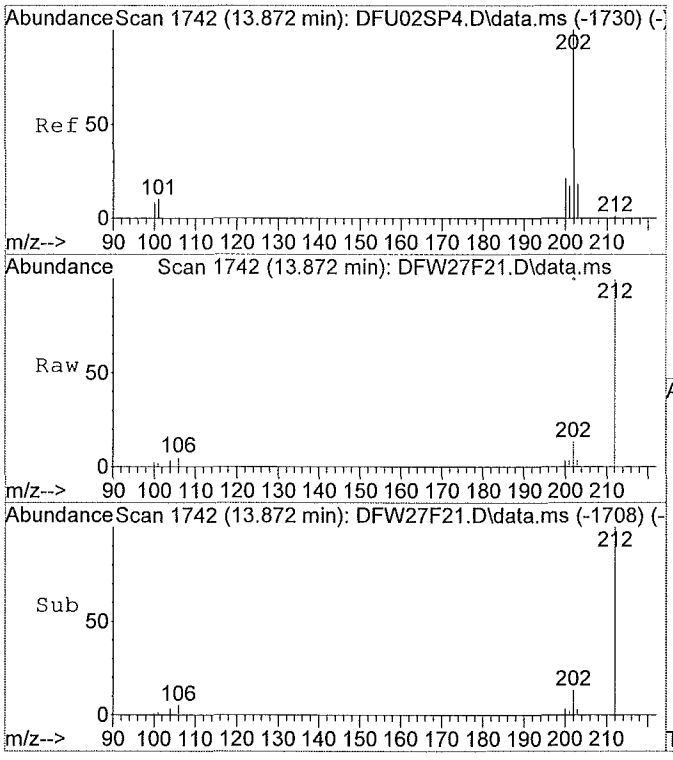


#14
Fluoranthene
Concen: 0.08 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:202 Resp: 59478

Ion	Ratio	Lower	Upper
202	100		
101	0.0	9.4	17.6#
100	6.3	0.0	0.0#
0	0.0	0.0	0.0

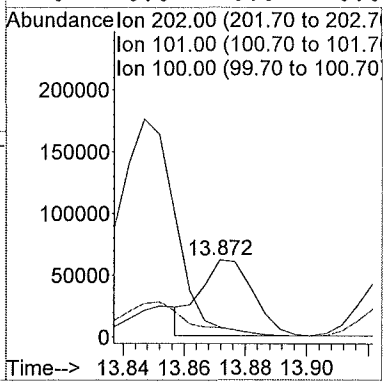


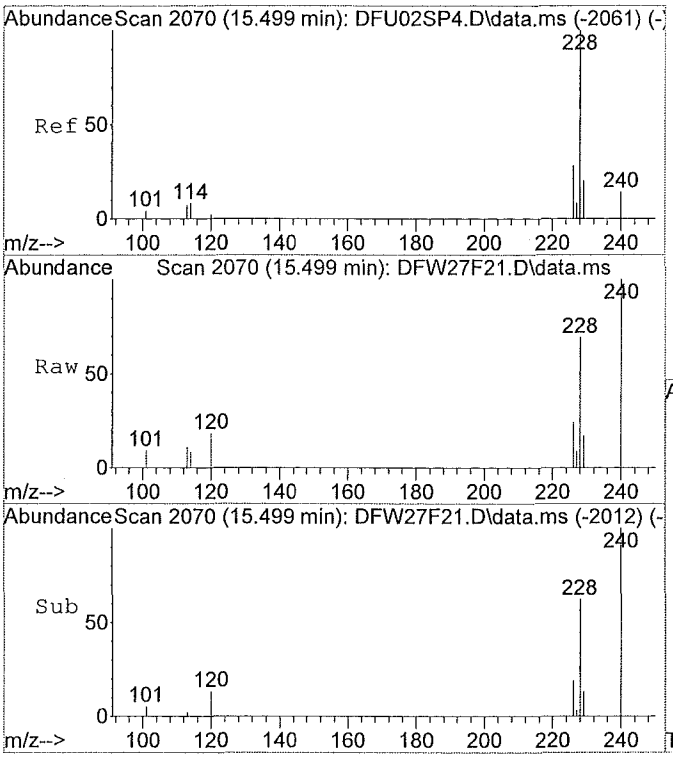


#16
Pyrene
Concen: 0.10 ug/ml m
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:202 Resp: 74400

Ion	Ratio	Lower	Upper
202	100		
101	72.9	10.6	19.6#
100	365.2	9.4	17.4#
0	0.0	0.0	0.0

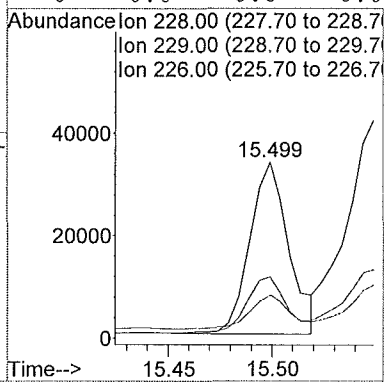


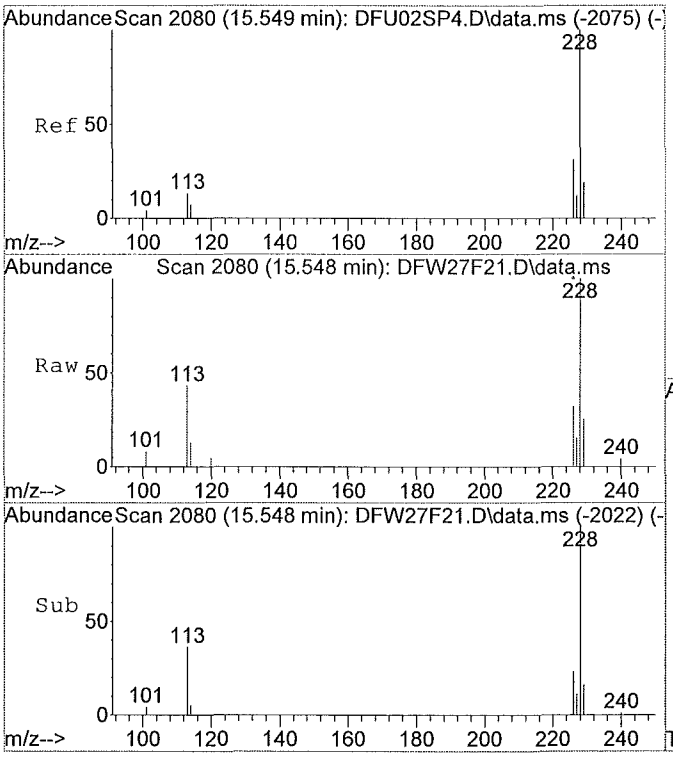


#17
Benzo(a)anthracene
Concen: 0.07 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:228 Resp: 43925

Ion	Ratio	Lower	Upper
228	100		
229	21.1	14.5	26.9
226	32.7	18.5	34.3
0	0.0	0.0	0.0

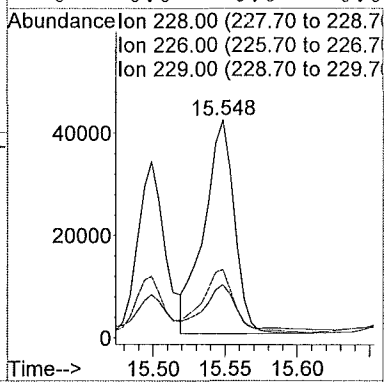


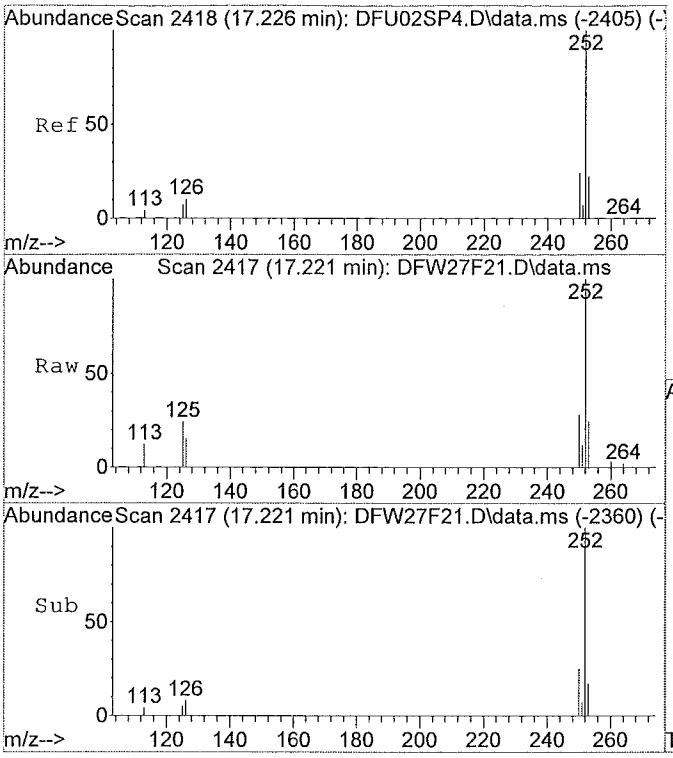


#18
Chrysene
Concen: 0.09 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:228 Resp: 61052

Ion	Ratio	Lower	Upper
228	100		
226	30.9	19.7	36.7
229	22.0	14.5	26.9
0	0.0	0.0	0.0

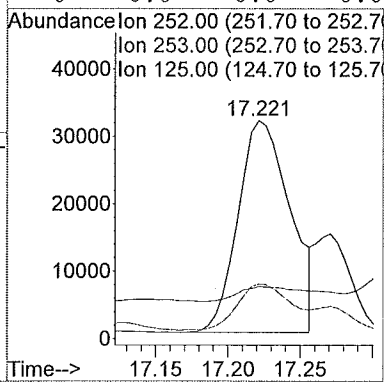


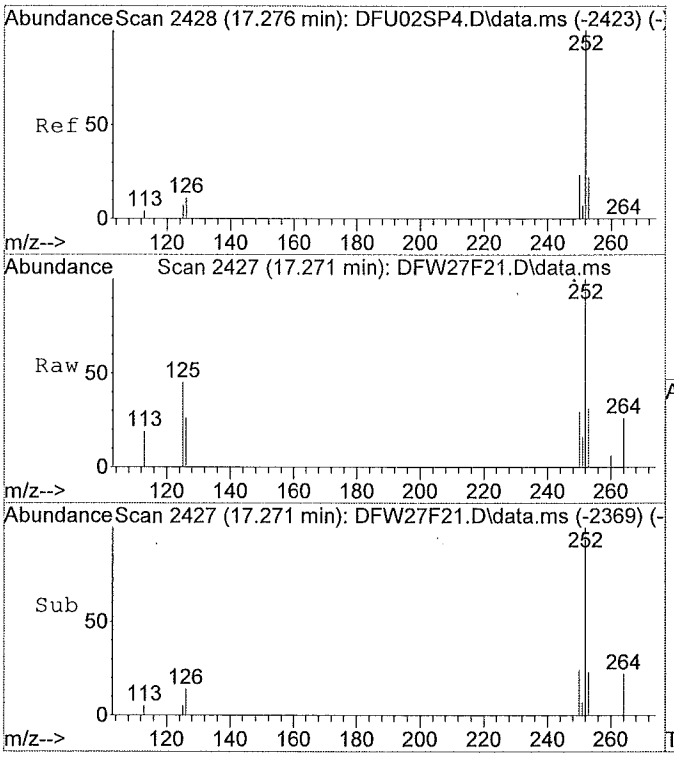


#20
Benzo(b)fluoranthene
Concen: 0.10 ug/ml
RT: 17.22 min Scan# 2417
Delta R.T. -0.01 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:252 Resp: 79067

Ion	Ratio	Lower	Upper
252	100		
253	22.2	15.3	28.3
125	12.0	0.0	0.0#
0	0.0	0.0	0.0

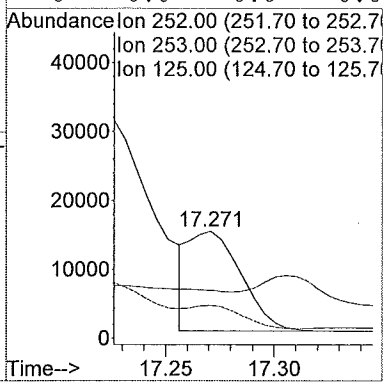


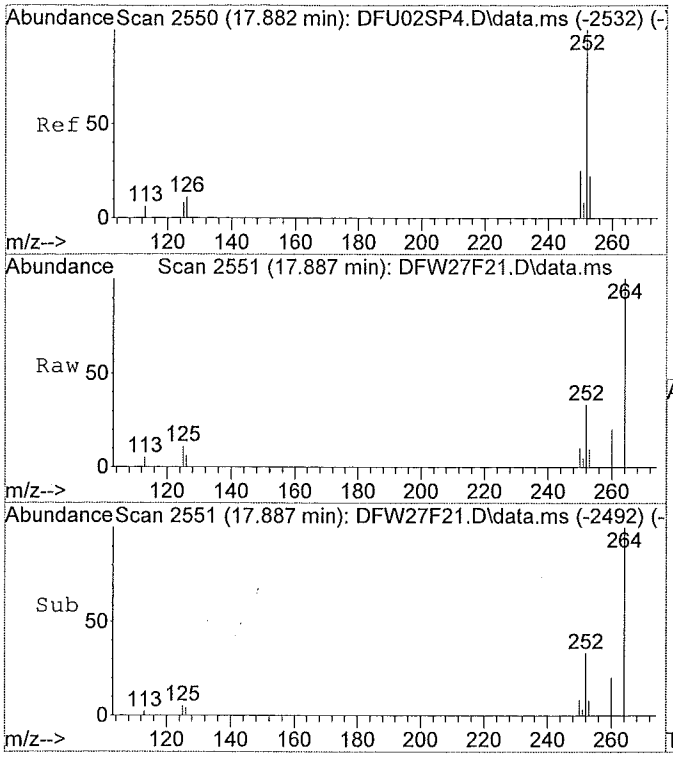


#21
Benzo(k)fluoranthene
Concen: 0.03 ug/ml m
RT: 17.27 min Scan# 2427
Delta R.T. -0.01 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:252 Resp: 24599

Ion	Ratio	Lower	Upper
252	100		
253	71.4	15.0	27.8#
125	34.0	0.0	0.0#
0	0.0	0.0	0.0

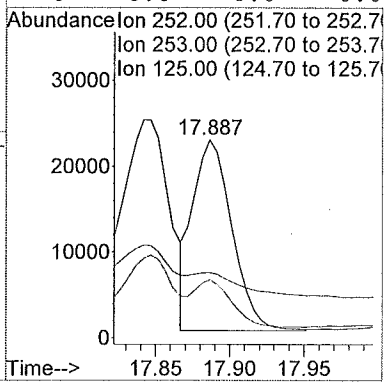


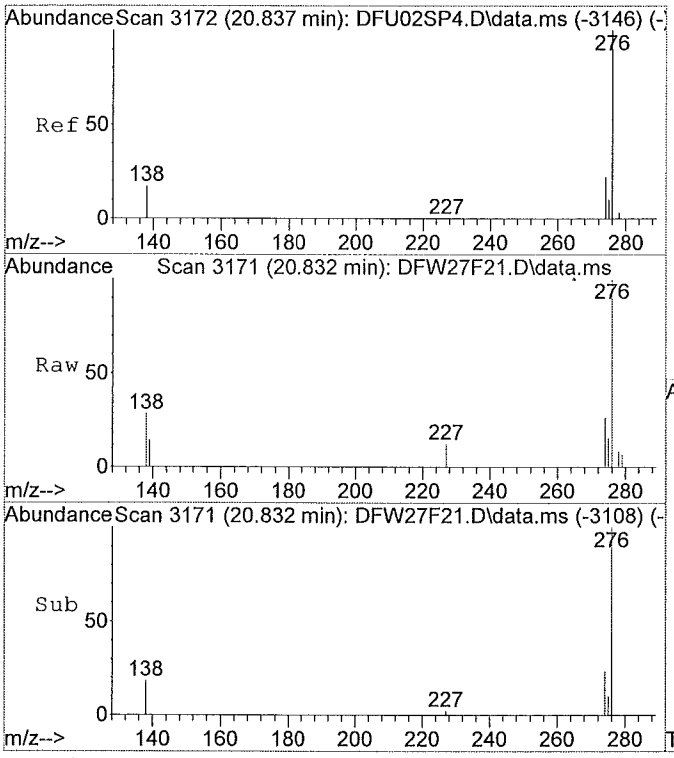


#22
Benzo(a)pyrene
Concen: 0.05 ug/ml
RT: 17.89 min Scan# 2551
Delta R.T. -0.00 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:252 Resp: 41138

Ion	Ratio	Lower	Upper
252	100		
253	23.5	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

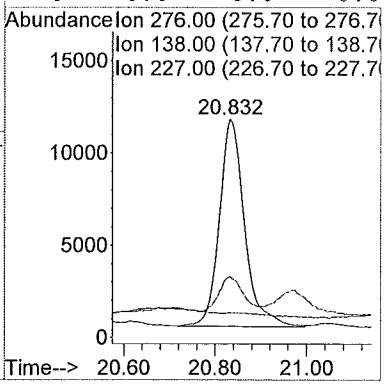


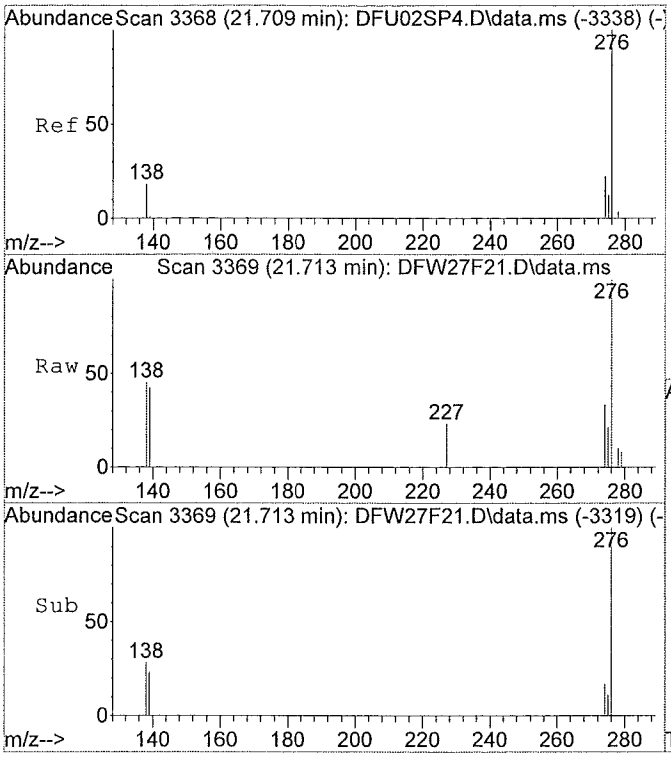


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.06 ug/ml
RT: 20.83 min Scan# 3171
Delta R.T. -0.02 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:276 Resp: 42656

Ion	Ratio	Lower	Upper
276	100		
138	15.3	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

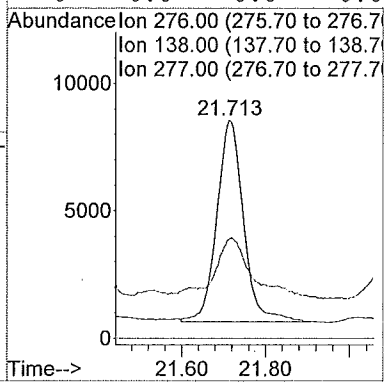




#25
Benzo(g,h,i)perylene
Concen: 0.05 ug/ml
RT: 21.71 min Scan# 3369
Delta R.T. -0.01 min
Lab File: DFW27F21.D
Acq: 06/09/2015 02:49

Tgt Ion:276 Resp: 34921

Ion	Ratio	Lower	Upper
276	100		
138	25.0	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



1F - FORM I SV-SIM

SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L79

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293022

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFW28F22

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/09/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.7	U
91-57-6	2-Methylnaphthalene	3.7	U
208-96-8	Acenaphthylene	3.7	U
83-32-9	Acenaphthene	3.7	U
86-73-7	Fluorene	3.7	U
87-86-5	Pentachlorophenol	7.6	U
85-01-8	Phenanthrene	3.7	U
120-12-7	Anthracene	3.7	U
206-44-0	Fluoranthene	3.7	U
129-00-0	Pyrene	3.7	U
56-55-3	Benzo(a)anthracene	3.7	U
218-01-9	Chrysene	0.78	J
205-99-2	Benzo(b)fluoranthene	3.7	U
207-08-9	Benzo(k)fluoranthene	3.7	U
50-32-8	Benzo(a)pyrene	3.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.7	U
53-70-3	Dibenzo(a,h)anthracene	3.7	U
191-24-2	Benzo(g,h,i)perylene	3.7	U

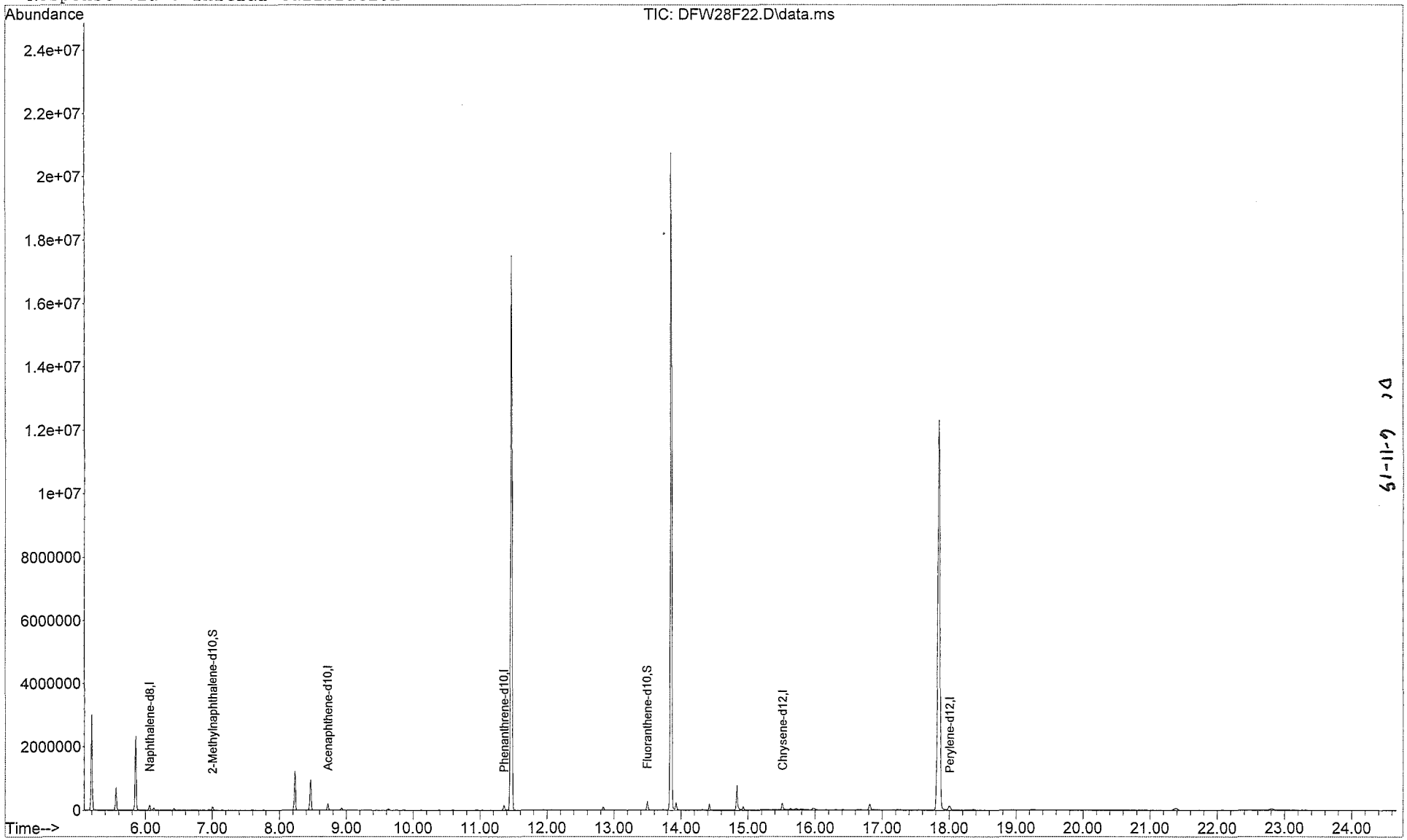
Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW28F22.D
Acq On : 06/09/2015 03:18
Sample : 1514293022 F9L79
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 23
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 10 15:08:17 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



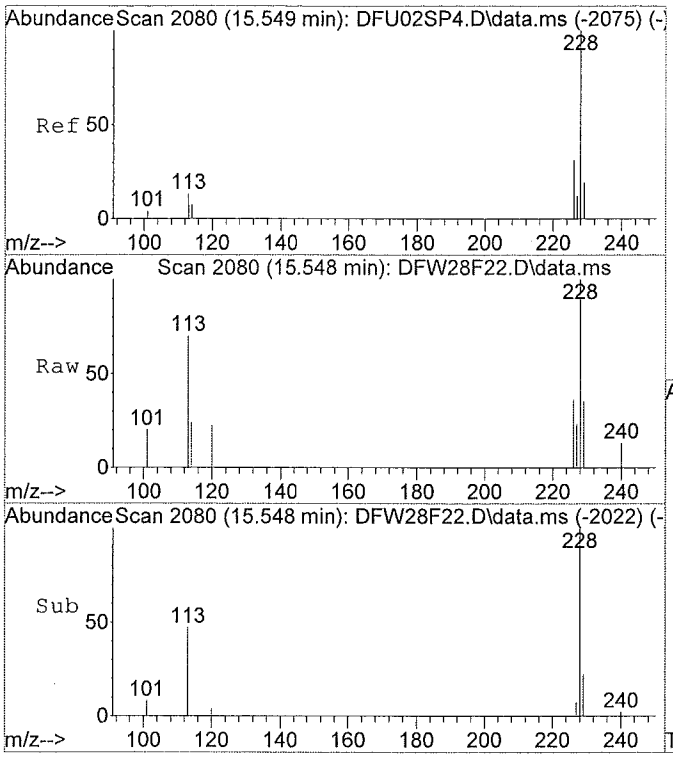
Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW28F22.D Vial: 23
Acq On : 06/09/2015 03:18 Operator: DJC
Sample : 1514293022 F9L79 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 10 15:08:17 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	
1) Naphthalene-d8	6.06	136	185085	0.40	ug/ml	
5) Acenaphthene-d10	8.72	164	136512	0.40	ug/ml	
9) Phenanthrene-d10	11.36	188	221683	0.40	ug/ml	
15) Chrysene-d12	15.51	240	227133	0.40	ug/ml	
19) Perylene-d12	18.01	264	249901	0.40	ug/ml	
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.00	152	123563	0.414	ug/mL	
13) Fluoranthene-d10	13.49	212	287244	0.474	ug/mL	
Target Compounds						Qvalue
2) Naphthalene	0.00	128		Not Detected		
4) 2-Methylnaphthalene	0.00	142		Not Detected		
6) Acenaphthylene	0.00	152		Not Detected		
7) Acenaphthene	0.00	153		Not Detected		
8) Fluorene	0.00	166		Not Detected		
10) Pentachlorophenol	0.00	266		Not Detected		
11) Phenanthrene	0.00	178		Not Detected		
12) Anthracene	0.00	178		Not Detected		
14) Fluoranthene	0.00	202		Not Detected		
16) Pyrene	0.00	202		Not Detected		
17) Benzo(a)anthracene	0.00	228		Not Detected		
18) Chrysene	15.55	228	13282	0.021	ug/ml	93
20) Benzo(b)fluoranthene	0.00	252		Not Detected		
21) Benzo(k)fluoranthene	0.00	252		Not Detected		
22) Benzo(a)pyrene	0.00	252		Not Detected		
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected		
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected		
25) Benzo(g,h,i)perylene	0.00	276		Not Detected		

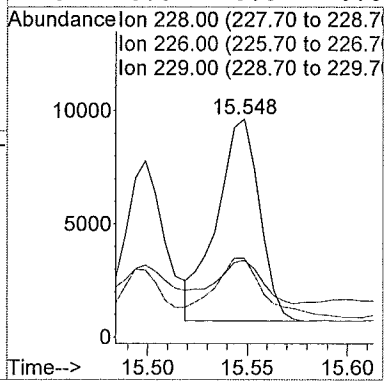
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#18
Chrysene
Concen: 0.02 ug/ml
RT: 15.55 min Scan# 2080
Delta R.T. -0.01 min
Lab File: DFW28F22.D
Acq: 06/09/2015 03:18

Tgt Ion:228 Resp: 13282

Ion	Ratio	Lower	Upper
228	100		
226	34.0	19.7	36.7
229	21.2	14.5	26.9
0	0.0	0.0	0.0



6H - FORM VI SV-SIM
SEMIVOLATILE ORGANICS SIM INITIAL CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-D Calibration Date(s): 03/25/2015 03/25/2015

Calibration Time(s): 09:26 11:25

LAB FILE ID: RRF 0.1 = DDG01SP1 RRF 0.2 = DDG02SP2
RRF 0.4 = DDG03SP4 RRF 0.8 = DDG04SP8 RRF 1.0 = DDG05S01

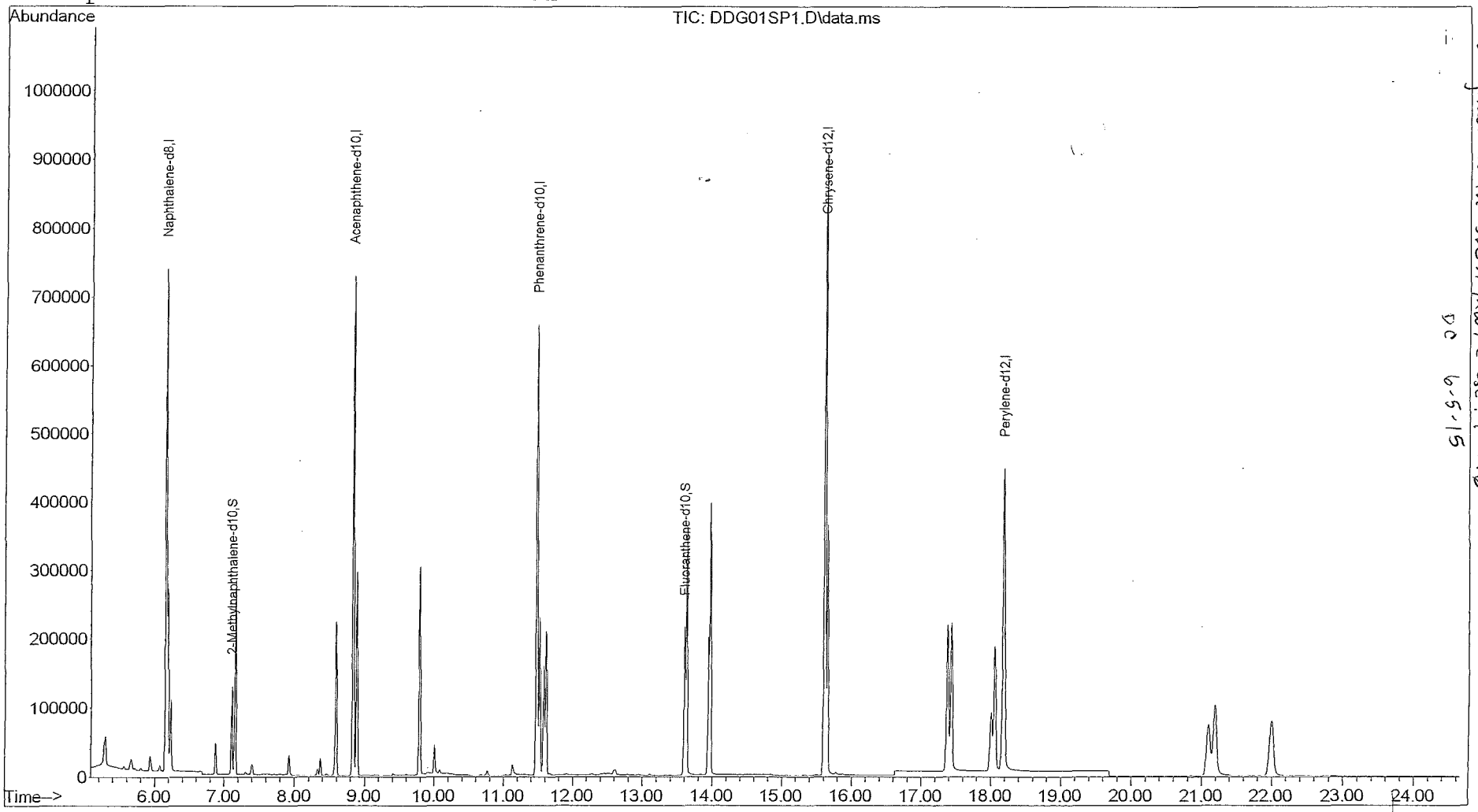
COMPOUND	RRF 0.1	RRF 0.2	RRF 0.4	RRF 0.8	RRF 1.0	$\overline{RRF}$	%RSD
Naphthalene	1.070	1.060	1.047	1.004	1.034	1.043	2.5
2-Methylnaphthalene	0.678	0.680	0.672	0.652	0.676	0.672	1.7
Acenaphthylene	1.712	1.721	1.747	1.737	1.836	1.750	2.8
Acenaphthene	1.121	1.125	1.118	1.093	1.144	1.120	1.6
Fluorene	1.280	1.294	1.298	1.276	1.346	1.299	2.1
Pentachlorophenol		0.056	0.056	0.061	0.068	0.060	9.2
Phenanthrene	1.131	1.155	1.151	1.137	1.185	1.152	1.8
Anthracene	1.055	1.099	1.118	1.135	1.193	1.120	4.5
Fluoranthene	1.292	1.281	1.291	1.320	1.370	1.311	2.8
Pyrene	1.283	1.240	1.247	1.229	1.277	1.255	1.9
Benzo(a)anthracene	1.071	1.062	1.060	1.047	1.093	1.067	1.6
Chrysene	1.126	1.135	1.131	1.101	1.143	1.127	1.4
Benzo(b)fluoranthene	1.217	1.236	1.239	1.236	1.306	1.247	2.8
Benzo(k)fluoranthene	1.226	1.279	1.305	1.295	1.353	1.292	3.6
Benzo(a)pyrene	1.103	1.165	1.201	1.211	1.276	1.191	5.3
Indeno(1,2,3-cd)pyrene	0.970	1.023	1.043	1.058	1.119	1.043	5.2
Dibenzo(a,h)anthracene	1.077	1.103	1.168	1.179	1.241	1.153	5.6
Benzo(g,h,i)perylene	1.118	1.158	1.177	1.174	1.236	1.172	3.6
Fluoranthene-d10	1.098	1.079	1.076	1.082	1.134	1.094	2.2
2-Methylnaphthalene-d10	0.656	0.654	0.647	0.624	0.646	0.645	1.9

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG01SP1.D Vial: 1
Acq On : 03/25/2015 09:26 Operator: DJC
Sample : SSTD0.1DG 27491 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 10:15:56 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Original with SDG; F9KW7 Case: 45316
DC 6-5-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG01SP1.D Vial: 1
Acq On : 03/25/2015 09:26 Operator: DJC
Sample : SSTD0.1DG 27491 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 10:15:56 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	826415	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	500325	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	876849	0.40 ug/ml	
15) Chrysene-d12	15.61	240	937520	0.40 ug/ml	
19) Perylene-d12	18.17	264	804866	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	135515	0.100ug/mL	
13) Fluoranthene-d10	13.60	212	240674	0.100ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	221005	0.100ug/ml	93
4) 2-Methylnaphthalene	7.16	142	140108	0.100ug/ml	97
6) Acenaphthylene	8.59	152	214086	0.100ug/ml	96
7) Acenaphthene	8.89	153	140194	0.100ug/ml	98
8) Fluorene	9.79	166	160159	0.100ug/ml	100
10) Pentachlorophenol	0.00	266		No Calib #	
11) Phenanthrene	11.52	178	247892	0.100ug/ml	98
12) Anthracene	11.61	178	231218	0.100ug/ml	96
14) Fluoranthene	13.63	202	283310	0.100ug/ml	91
16) Pyrene	13.97	202	300663	0.100ug/ml	92
17) Benzo(a)anthracene	15.60	228	251019	0.100ug/ml	99
18) Chrysene	15.65	228	263840	0.100ug/ml	98
20) Benzo(b)fluoranthene	17.37	252	244834	0.100ug/ml	100
21) Benzo(k)fluoranthene	17.42	252	246626	0.100ug/ml	99
22) Benzo(a)pyrene	18.05	252	221886	0.100ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.09	276	195170	0.100ug/ml	100
24) Dibenzo(a,h)anthracene	21.19	278	216701	0.100ug/ml	99
25) Benzo(g,h,i)perylene	21.99	276	224998	0.100ug/ml	72

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

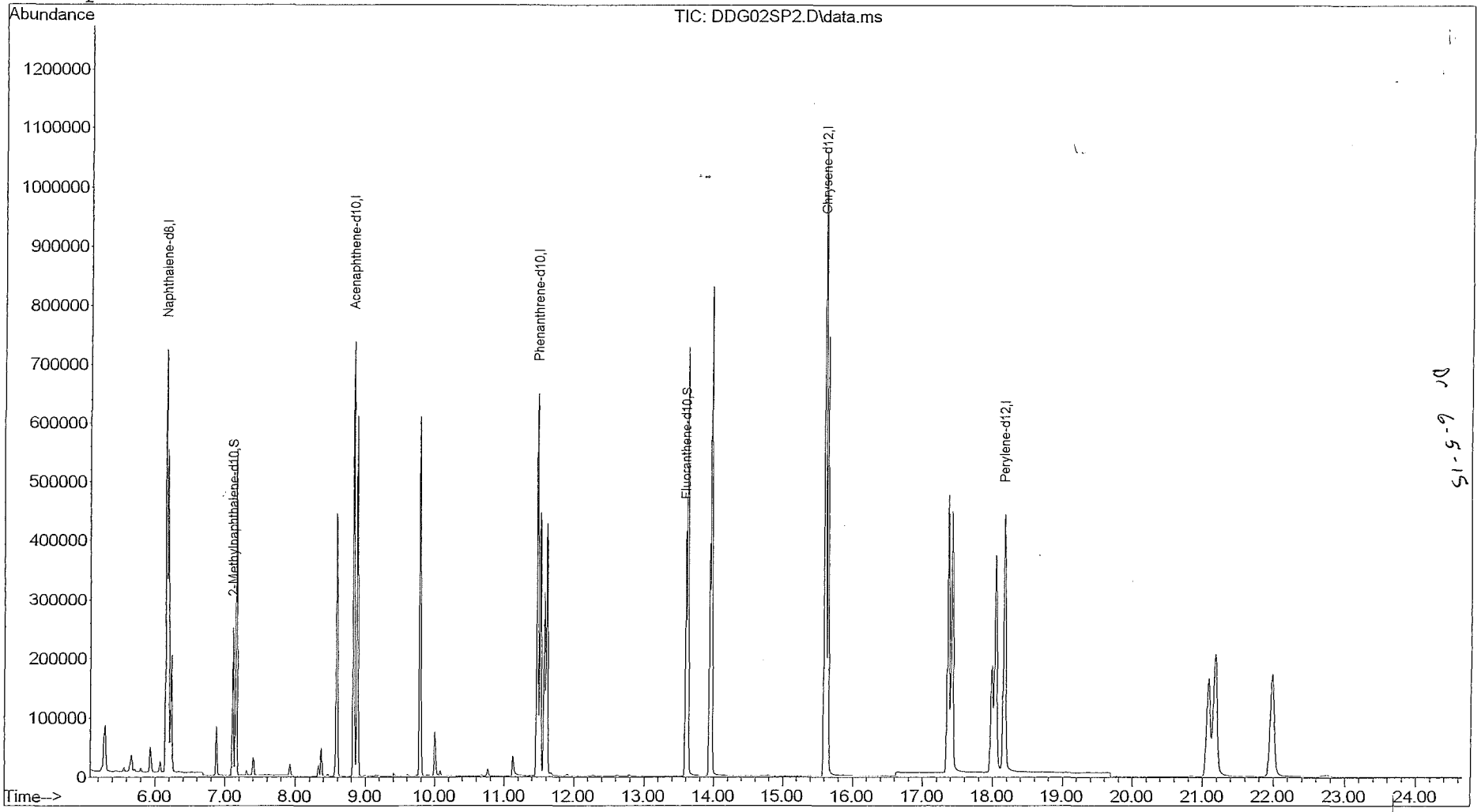
0094

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG02SP2.D Vial: 2
Acq On : 03/25/2015 09:55 Operator: DJC
Sample : SSTD0.2DG 27492 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 10:22:59 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG02SP2.D Vial: 2
Acq On : 03/25/2015 09:55 Operator: DJC
Sample : SSTD0.2DG 27492 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 10:22:59 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	829500	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	499450	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	862919	0.40 ug/ml	
15) Chrysene-d12	15.61	240	943009	0.40 ug/ml	
19) Perylene-d12	18.16	264	803959	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	271205	0.200ug/mL	
13) Fluoranthene-d10	13.60	212	465423	0.198ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	439776	0.199ug/ml	93
4) 2-Methylnaphthalene	7.16	142	282058	0.200ug/ml	97
6) Acenaphthylene	8.59	152	429820	0.201ug/ml	96
7) Acenaphthene	8.89	153	281062	0.200ug/ml	98
8) Fluorene	9.79	166	323083	0.201ug/ml	98
10) Pentachlorophenol	11.12	266	24051	0.200ug/ml	100
11) Phenanthrene	11.52	178	498239	0.202ug/ml	97
12) Anthracene	11.61	178	474196	0.204ug/ml	96
14) Fluoranthene	13.62	202	552655	0.199ug/ml	91
16) Pyrene	13.97	202	584822	0.197ug/ml	92
17) Benzo(a)anthracene	15.59	228	500525	0.199ug/ml	99
18) Chrysene	15.64	228	535322	0.201ug/ml	99
20) Benzo(b)fluoranthene	17.36	252	496663	0.202ug/ml	100
21) Benzo(k)fluoranthene	17.41	252	513953	0.204ug/ml	100
22) Benzo(a)pyrene	18.04	252	468152	0.205ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.09	276	411348	0.205ug/ml	100
24) Dibenzo(a,h)anthracene	21.17	278	443264	0.202ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	465413	0.203ug/ml	72

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

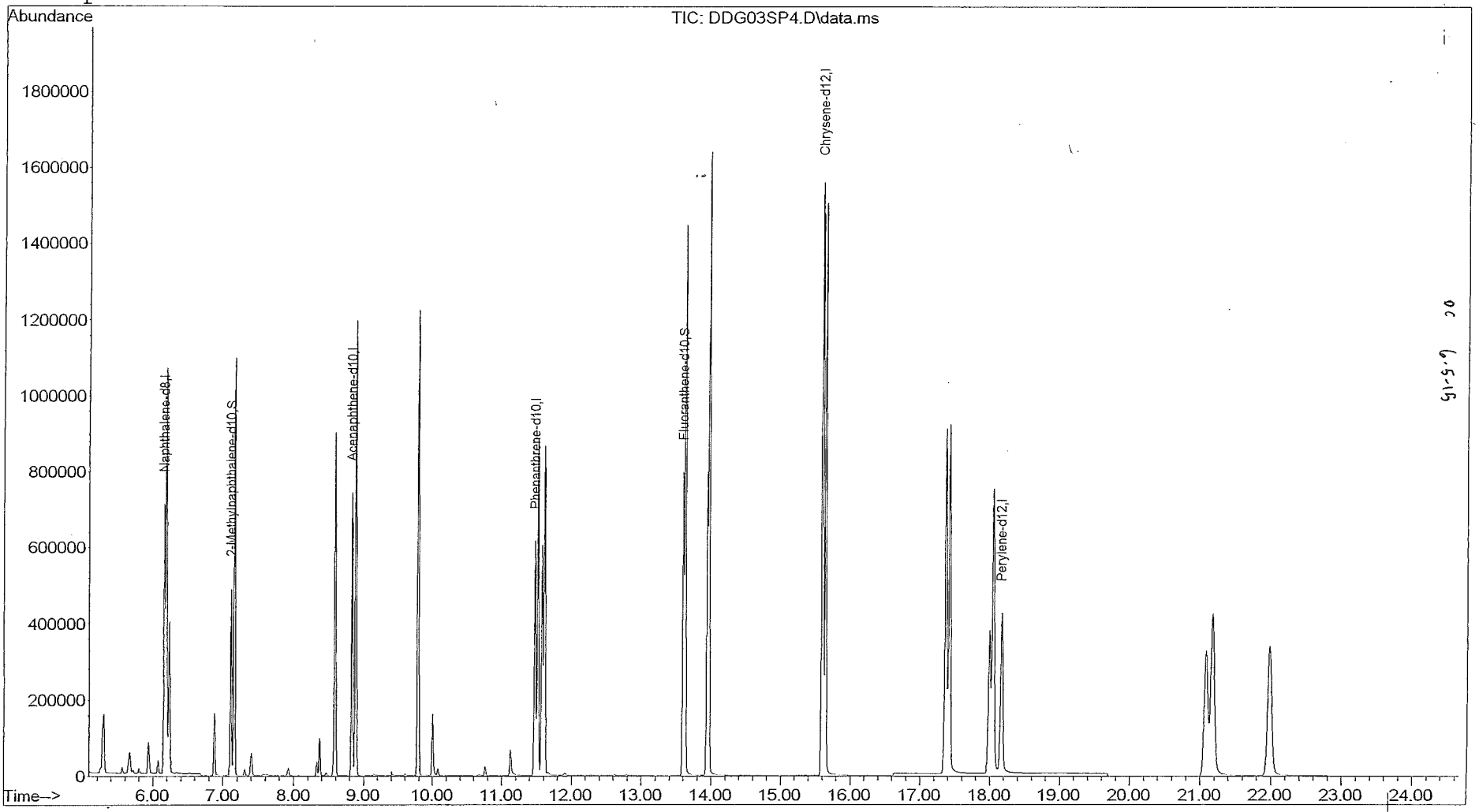
00545

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG03SP4.D Vial: 3
Acq On : 03/25/2015 10:25 Operator: DJC
Sample : SSTD0.4DG 27493 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 10:53:15 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG03SP4.D Vial: 3
Acq On : 03/25/2015 10:25 Operator: DJC
Sample : SSTD0.4DG 27493 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 10:53:15 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	829952	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	496519	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	848812	0.40 ug/ml	
15) Chrysene-d12	15.61	240	931096	0.40 ug/ml	
19) Perylene-d12	18.16	264	790297	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	536757	0.395ug/mL	
13) Fluoranthene-d10	13.59	212	913687	0.396ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	868862	0.393ug/ml	93
4) 2-Methylnaphthalene	7.16	142	557588	0.396ug/ml	97
6) Acenaphthylene	8.59	152	867224	0.407ug/ml	96
7) Acenaphthene	8.89	153	555337	0.398ug/ml	98
8) Fluorene	9.79	166	644612	0.403ug/ml	98
10) Pentachlorophenol	11.12	266	47584	0.402ug/ml	100
11) Phenanthrene	11.51	178	976988	0.403ug/ml	97
12) Anthracene	11.61	178	948693	0.415ug/ml	96
14) Fluoranthene	13.62	202	1095908	0.401ug/ml	91
16) Pyrene	13.97	202	1160679	0.395ug/ml	92
17) Benzo(a)anthracene	15.59	228	986511	0.397ug/ml	99
18) Chrysene	15.64	228	1052641	0.400ug/ml	98
20) Benzo(b)fluoranthene	17.36	252	978791	0.404ug/ml	98
21) Benzo(k)fluoranthene	17.41	252	1031697	0.417ug/ml	99
22) Benzo(a)pyrene	18.04	252	949466	0.424ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.08	276	824139	0.419ug/ml	100
24) Dibenzo(a,h)anthracene	21.18	278	922854	0.429ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	930201	0.414ug/ml	72

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

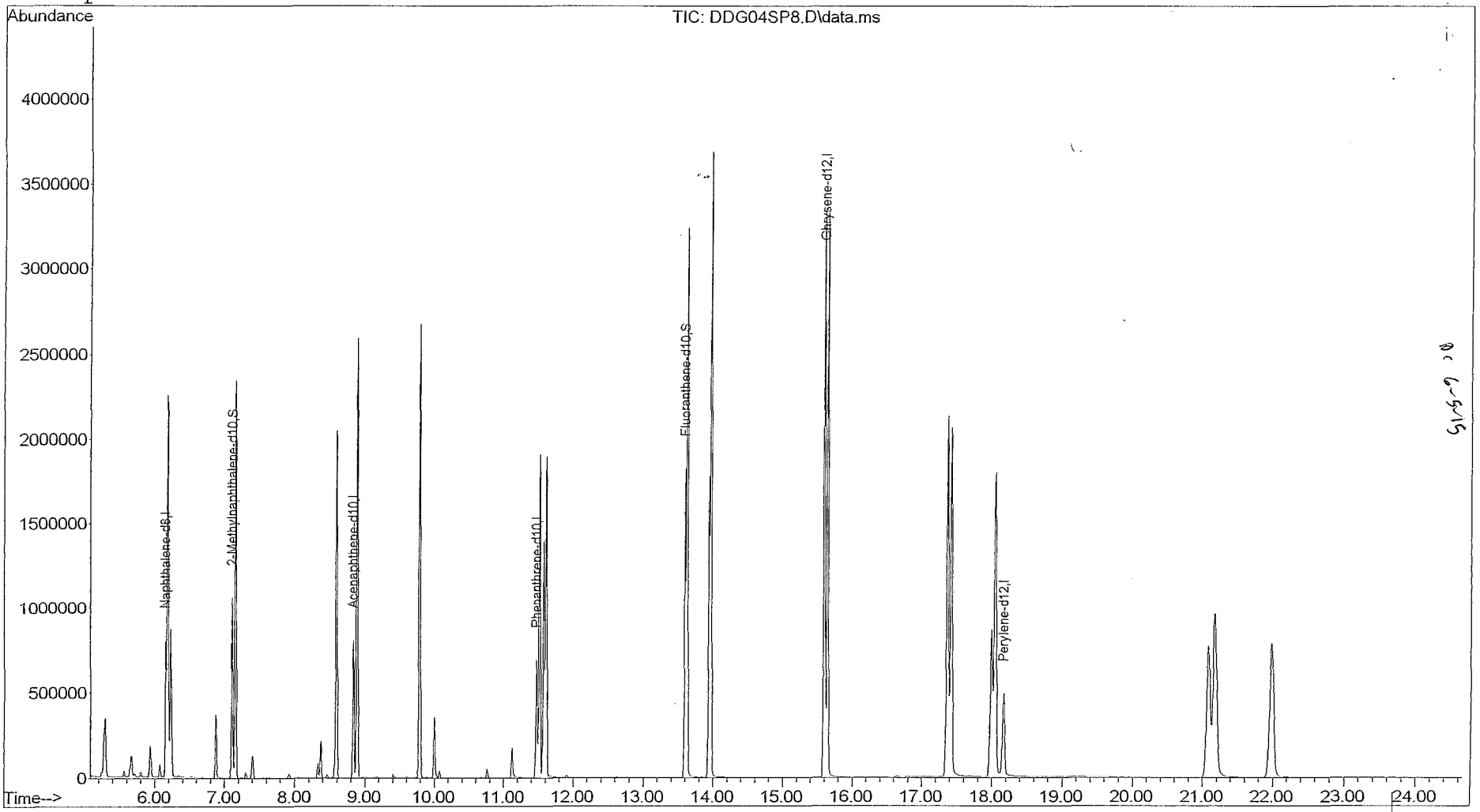
00351

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG04SP8.D Vial: 4
Acq On : 03/25/2015 10:55 Operator: DJC
Sample : SSTD0.8DG 27494 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 11:20:22 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG04SP8.D Vial: 4
Acq On : 03/25/2015 10:55 Operator: DJC
Sample : SSTD0.8DG 27494 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 11:20:22 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	920941	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	551221	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	930295	0.40 ug/ml	
15) Chrysene-d12	15.61	240	1059796	0.40 ug/ml	
19) Perylene-d12	18.16	264	900237	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	1150033	0.766ug/mL	
13) Fluoranthene-d10	13.60	212	2013973	0.799ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	1849404	0.759ug/ml	93
4) 2-Methylnaphthalene	7.16	142	1201438	0.771ug/ml	97
6) Acenaphthylene	8.59	152	1914904	0.805ug/ml	96
7) Acenaphthene	8.89	153	1204425	0.779ug/ml	98
8) Fluorene	9.79	166	1407005	0.791ug/ml	97
10) Pentachlorophenol	11.12	266	113063	0.870ug/ml	100
11) Phenanthrene	11.51	178	2115316	0.794ug/ml	97
12) Anthracene	11.61	178	2112202	0.833ug/ml	96
14) Fluoranthene	13.62	202	2456577	0.820ug/ml	91
16) Pyrene	13.97	202	2604313	0.782ug/ml	91
17) Benzo(a)anthracene	15.59	228	2220157	0.788ug/ml	99
18) Chrysene	15.64	228	2333590	0.779ug/ml	99
20) Benzo(b)fluoranthene	17.36	252	2225635	0.804ug/ml	100
21) Benzo(k)fluoranthene	17.41	252	2331572	0.816ug/ml	100
22) Benzo(a)pyrene	18.04	252	2180024	0.838ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.08	276	1904485	0.836ug/ml	100
24) Dibenzo(a,h)anthracene	21.17	278	2122556	0.845ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	2112907	0.816ug/ml	72

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

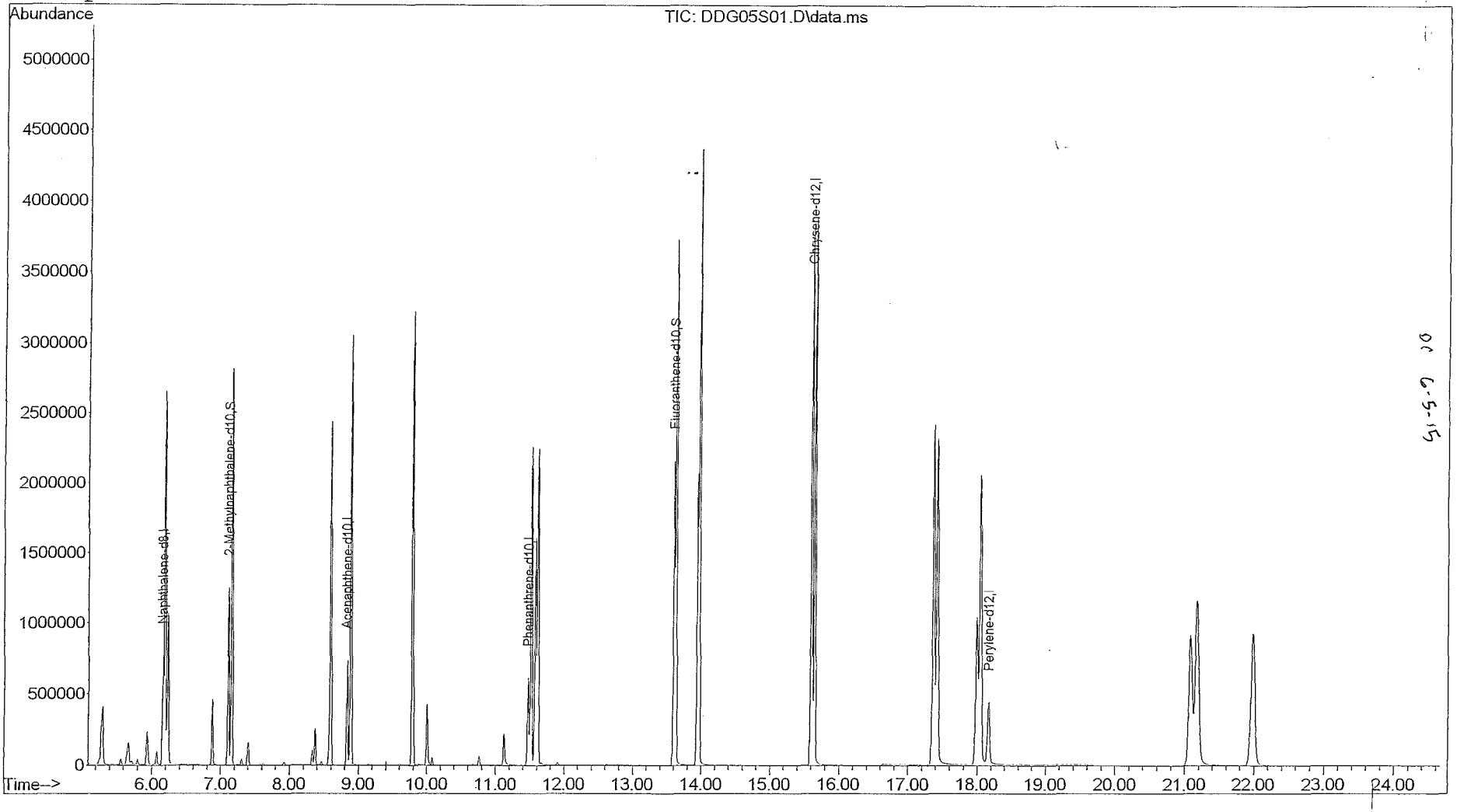
00553

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG05S01.D Vial: 5
Acq On : 03/25/2015 11:25 Operator: DJC
Sample : SSTD001DG 27495 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Mar 25 11:50:19 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\25MAR15D\DDG05S01.D Vial: 5
Acq On : 03/25/2015 11:25 Operator: DJC
Sample : SSTD001DG 27495 Inst : 5975-D
Misc : . X:04/24/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Mar 25 11:50:19 2015 Results File: DSOM_SIMJ1.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Fri Jun 05 09:18:20 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.16	136	848708	0.40 ug/ml	
5) Acenaphthene-d10	8.83	164	499984	0.40 ug/ml	
9) Phenanthrene-d10	11.47	188	848866	0.40 ug/ml	
15) Chrysene-d12	15.61	240	967696	0.40 ug/ml	
19) Perylene-d12	18.16	264	809238	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.11	152	1370896	1.001ug/mL	
13) Fluoranthene-d10	13.59	212	2406449	1.046ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.19	128	2194653	0.990ug/ml	93
4) 2-Methylnaphthalene	7.16	142	1433760	1.008ug/ml	97
6) Acenaphthylene	8.59	152	2294412	1.062ug/ml	96
7) Acenaphthene	8.89	153	1429745	1.026ug/ml	98
8) Fluorene	9.79	166	1682594	1.046ug/ml	97
10) Pentachlorophenol	11.12	266	143501	1.176ug/ml	100
11) Phenanthrene	11.51	178	2514177	1.036ug/ml	97
12) Anthracene	11.61	178	2532691	1.083ug/ml	96
14) Fluoranthene	13.62	202	2908132	1.057ug/ml	91
16) Pyrene	13.97	202	3088951	1.022ug/ml	91
17) Benzo(a)anthracene	15.59	228	2644584	1.031ug/ml	99
18) Chrysene	15.64	228	2764927	1.018ug/ml	98
20) Benzo(b)fluoranthene	17.36	252	2644337	1.061ug/ml	100
21) Benzo(k)fluoranthene	17.41	252	2738771	1.061ug/ml	99
22) Benzo(a)pyrene	18.04	252	2582631	1.091ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	21.08	276	2264899	1.094ug/ml	100
24) Dibenzo(a,h)anthracene	21.17	278	2511813	1.097ug/ml	98
25) Benzo(g,h,i)perylene	21.98	276	2501128	1.069ug/ml	72

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00353

7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-D Calibration Date: 06/08/2015 Time: 14:36

Lab File ID: DFW02SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DW Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

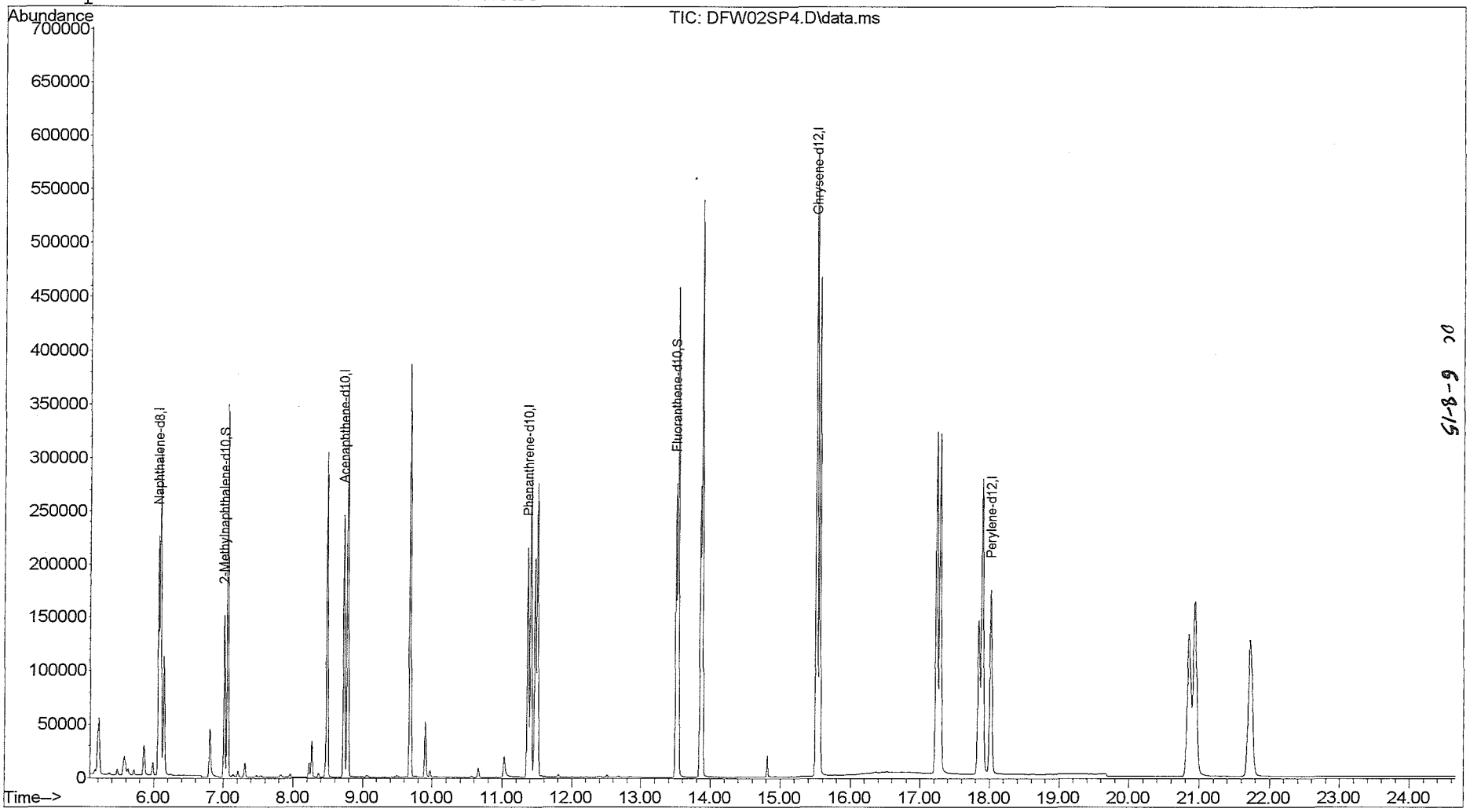
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.994	0.700	-4.7	25.0
2-Methylnaphthalene	0.672	0.664	0.400	-1.1	25.0
Acenaphthylene	1.750	1.683	0.900	-3.9	25.0
Acenaphthene	1.120	1.076	0.900	-3.9	25.0
Fluorene	1.299	1.229	0.900	-5.4	25.0
Pentachlorophenol	0.060	0.057	0.050	-4.5	25.0
Phenanthrene	1.152	1.052	0.700	-8.6	25.0
Anthracene	1.120	1.035	0.700	-7.6	25.0
Fluoranthene	1.311	1.244	0.600	-5.1	25.0
Pyrene	1.255	1.175	0.600	-6.4	25.0
Benzo(a)anthracene	1.067	1.090	0.800	2.2	25.0
Chrysene	1.127	1.039	0.700	-7.8	25.0
Benzo(b)fluoranthene	1.247	1.136	0.700	-8.9	25.0
Benzo(k)fluoranthene	1.292	1.152	0.700	-10.8	25.0
Benzo(a)pyrene	1.191	1.086	0.700	-8.9	25.0
Indeno(1,2,3-cd)pyrene	1.043	1.054	0.500	1.1	25.0
Dibenzo(a,h)anthracene	1.153	1.078	0.400	-6.5	25.0
Benzo(g,h,i)perylene	1.172	1.107	0.500	-5.5	25.0
Fluoranthene-d10	1.094	1.075	0.010	-1.8	25.0
2-Methylnaphthalene-d10	0.645	0.652	0.010	1.0	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\08JUN15\DFW02SP4.D Vial: 1
Acq On : 06/08/2015 14:36 Operator: DJC
Sample : SSTD0.4DW 28258 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 08 15:01:38 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Mon Jun 08 16:07:33 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\08JUN15\DFW02SP4.D Vial: 1
Acq On : 06/08/2015 14:36 Operator: DJC
Sample : SSTD0.4DW 28258 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 08 15:01:38 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Mon Jun 08 16:07:33 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.07	136	255654	0.40 ug/ml	
5) Acenaphthene-d10	8.73	164	164783	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	293343	0.40 ug/ml	
15) Chrysene-d12	15.52	240	329128	0.40 ug/ml	
19) Perylene-d12	18.02	264	309275	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.01	152	166599	0.404ug/mL	
13) Fluoranthene-d10	13.50	212	315227	0.393ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	254080	0.381ug/ml	95
4) 2-Methylnaphthalene	7.06	142	169792	0.396ug/ml	98
6) Acenaphthylene	8.49	152	277313	0.385ug/ml	97
7) Acenaphthene	8.78	153	177388	0.384ug/ml	99
8) Fluorene	9.68	166	202525	0.378ug/ml	100
10) Pentachlorophenol	11.03	266	16825	0.382ug/ml	100
11) Phenanthrene	11.41	178	308646	0.365ug/ml	98
12) Anthracene	11.50	178	303569	0.370ug/ml	97
14) Fluoranthene	13.53	202	364789	0.379ug/ml	88
16) Pyrene	13.88	202	386806	0.375ug/ml	88
17) Benzo(a)anthracene	15.51	228	358606	0.409ug/ml	98
18) Chrysene	15.56	228	342128	0.369ug/ml	97
20) Benzo(b)fluoranthene	17.23	252	351233	0.364ug/ml	100
21) Benzo(k)fluoranthene	17.28	252	356187	0.357ug/ml	100
22) Benzo(a)pyrene	17.89	252	335723	0.365ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.85	276	325869	0.404ug/ml	100
24) Dibenzo(a,h)anthracene	20.93	278	333384	0.374ug/ml	99
25) Benzo(g,h,i)perylene	21.72	276	342495	0.378ug/ml	70

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00558

7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-D Calibration Date: 06/08/2015 Time: 23:52

Lab File ID: DFW20SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4W1 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

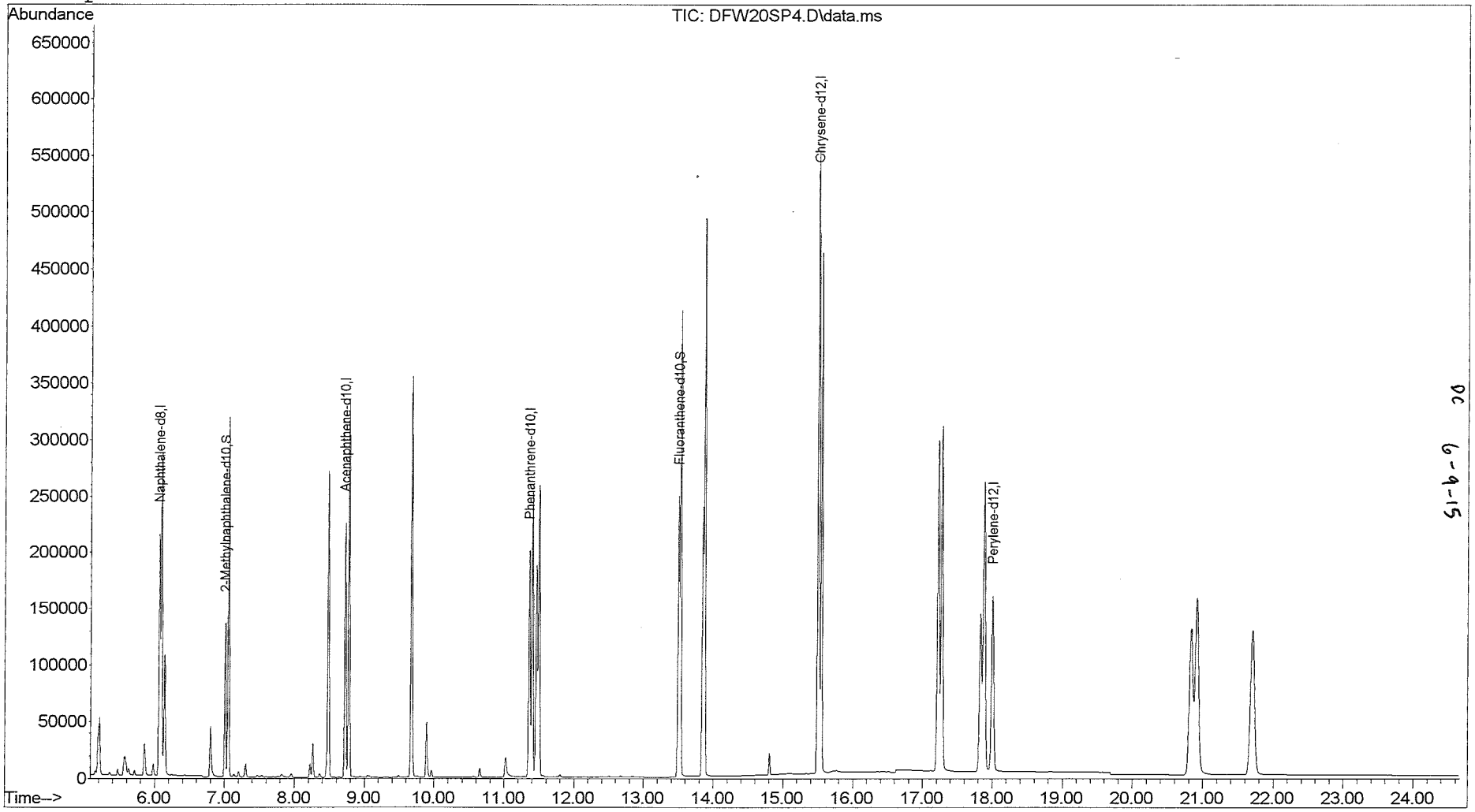
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.000	0.700	-4.2	25.0
2-Methylnaphthalene	0.672	0.664	0.400	-1.2	25.0
Acenaphthylene	1.750	1.722	0.900	-1.6	25.0
Acenaphthene	1.120	1.084	0.900	-3.2	25.0
Fluorene	1.299	1.256	0.900	-3.3	25.0
Pentachlorophenol	0.060	0.059	0.050	-1.5	25.0
Phenanthrene	1.152	1.053	0.700	-8.6	25.0
Anthracene	1.120	1.048	0.700	-6.5	25.0
Fluoranthene	1.311	1.236	0.600	-5.7	25.0
Pyrene	1.255	1.169	0.600	-6.8	25.0
Benzo(a)anthracene	1.067	1.104	0.800	3.5	25.0
Chrysene	1.127	1.034	0.700	-8.3	25.0
Benzo(b)fluoranthene	1.247	1.133	0.700	-9.1	25.0
Benzo(k)fluoranthene	1.292	1.118	0.700	-13.4	25.0
Benzo(a)pyrene	1.191	1.086	0.700	-8.8	25.0
Indeno(1,2,3-cd)pyrene	1.043	1.113	0.500	6.7	25.0
Dibenzo(a,h)anthracene	1.153	1.128	0.400	-2.2	25.0
Benzo(g,h,i)perylene	1.172	1.155	0.500	-1.5	25.0
Fluoranthene-d10	1.094	1.071	0.010	-2.1	25.0
2-Methylnaphthalene-d10	0.645	0.651	0.010	0.9	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\08JUN15\DFW20SP4.D Vial: 1
Acq On : 06/08/2015 23:52 Operator: DJC
Sample : SSTD0.4W1 28258 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 09 00:16:54 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Tue Jun 09 09:17:54 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\08JUN15\DFW20SP4.D Vial: 1
Acq On : 06/08/2015 23:52 Operator: DJC
Sample : SSTD0.4W1 28258 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 09 00:16:54 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Tue Jun 09 09:17:54 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	
1) Naphthalene-d8	6.06	136	234657	0.40	ug/ml	
5) Acenaphthene-d10	8.72	164	148025	0.40	ug/ml	
9) Phenanthrene-d10	11.36	188	267450	0.40	ug/ml	
15) Chrysene-d12	15.51	240	298211	0.40	ug/ml	
19) Perylene-d12	18.00	264	287556	0.40	ug/ml	
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.01	152	152873	0.404	ug/mL	
13) Fluoranthene-d10	13.50	212	286502	0.392	ug/mL	
Target Compounds						Qvalue
2) Naphthalene	6.09	128	234597	0.383	ug/ml	94
4) 2-Methylnaphthalene	7.05	142	155761	0.395	ug/ml	98
6) Acenaphthylene	8.48	152	254925	0.394	ug/ml	97
7) Acenaphthene	8.78	153	160521	0.387	ug/ml	99
8) Fluorene	9.67	166	185922	0.387	ug/ml	100
10) Pentachlorophenol	11.02	266	15814	0.394	ug/ml	100
11) Phenanthrene	11.40	178	281623	0.366	ug/ml	98
12) Anthracene	11.50	178	280207	0.374	ug/ml	97
14) Fluoranthene	13.52	202	330651	0.377	ug/ml	88
16) Pyrene	13.87	202	348753	0.373	ug/ml	88
17) Benzo(a)anthracene	15.50	228	329242	0.414	ug/ml	98
18) Chrysene	15.55	228	308377	0.367	ug/ml	97
20) Benzo(b)fluoranthene	17.22	252	325816	0.364	ug/ml	100
21) Benzo(k)fluoranthene	17.27	252	321457	0.346	ug/ml	99
22) Benzo(a)pyrene	17.88	252	312335	0.365	ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.84	276	320023	0.427	ug/ml	100
24) Dibenzo(a,h)anthracene	20.91	278	324356	0.391	ug/ml	98
25) Benzo(g,h,i)perylene	21.70	276	332231	0.394	ug/ml	70

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00561

7H - FORM VII SV-SIM
SEMIVOLATILE SIM CONTINUING CALIBRATION DATA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: 5975-D Calibration Date: 06/09/2015 Time: 03:48

Lab File ID: DFW29SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4W2 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

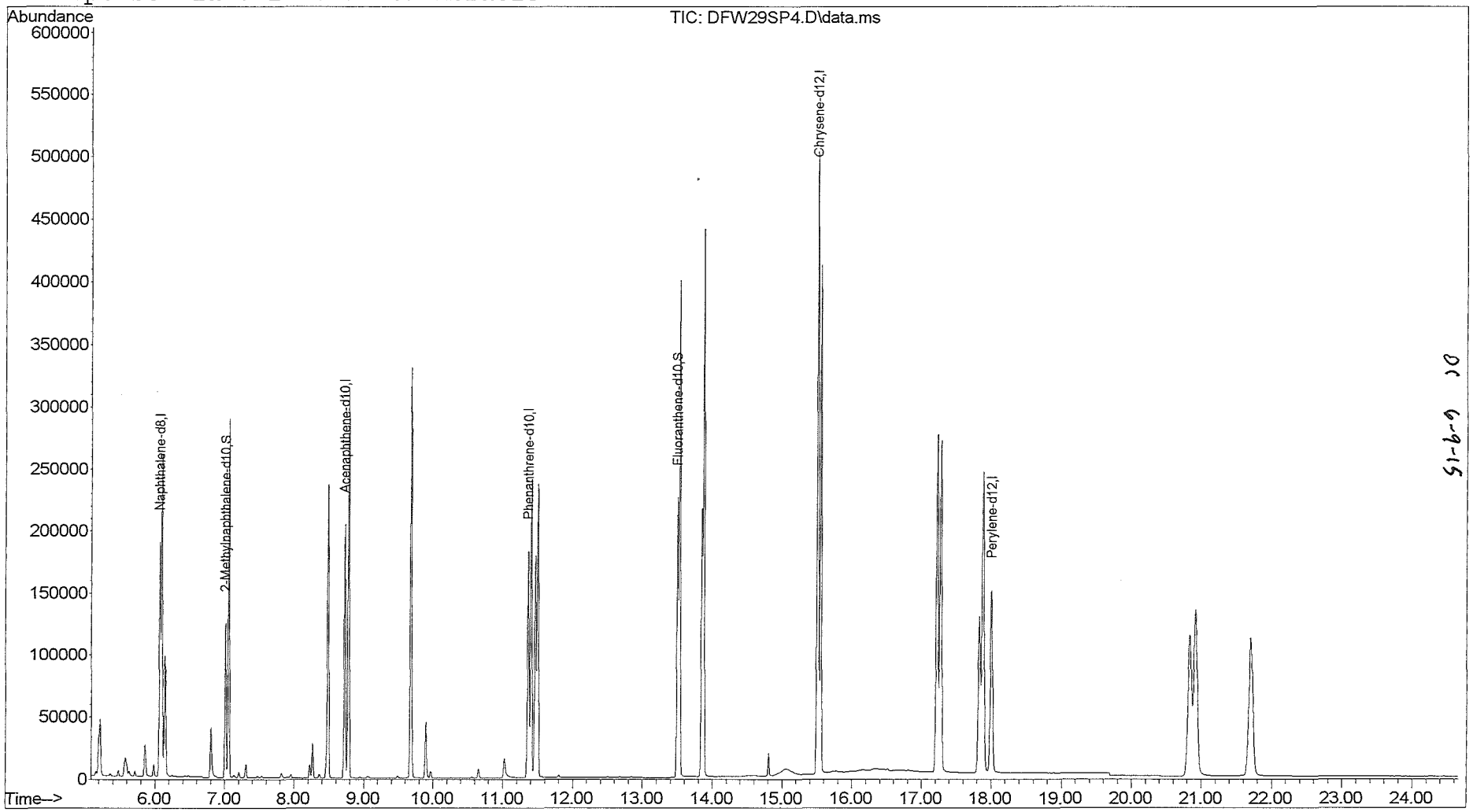
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	0.999	0.010	-4.3	50.0
2-Methylnaphthalene	0.672	0.668	0.010	-0.6	50.0
Acenaphthylene	1.750	1.714	0.010	-2.1	50.0
Acenaphthene	1.120	1.084	0.010	-3.2	50.0
Fluorene	1.299	1.258	0.010	-3.1	50.0
Pentachlorophenol	0.060	0.055	0.010	-8.5	50.0
Phenanthrene	1.152	1.054	0.010	-8.5	50.0
Anthracene	1.120	1.044	0.010	-6.8	50.0
Fluoranthene	1.311	1.235	0.010	-5.8	50.0
Pyrene	1.255	1.165	0.010	-7.2	50.0
Benzo(a)anthracene	1.067	1.107	0.010	3.8	50.0
Chrysene	1.127	1.037	0.010	-8.0	50.0
Benzo(b)fluoranthene	1.247	1.152	0.010	-7.6	50.0
Benzo(k)fluoranthene	1.292	1.107	0.010	-14.3	50.0
Benzo(a)pyrene	1.191	1.088	0.010	-8.6	50.0
Indeno(1,2,3-cd)pyrene	1.043	1.025	0.010	-1.7	50.0
Dibenzo(a,h)anthracene	1.153	1.047	0.010	-9.2	50.0
Benzo(g,h,i)perylene	1.172	1.074	0.010	-8.4	50.0
Fluoranthene-d10	1.094	1.072	0.010	-2.0	50.0
2-Methylnaphthalene-d10	0.645	0.653	0.010	1.2	50.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\08JUN15\DFW29SP4.D Vial: 24
Acq On : 06/09/2015 03:48 Operator: DJC
Sample : SSTD0.4W2 28258 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 09 04:13:12 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Tue Jun 09 09:18:16 2015
Response via : Initial Calibration



6-9-15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...15\08JUN15\DFW29SP4.D Vial: 24
Acq On : 06/09/2015 03:48 Operator: DJC
Sample : SSTD0.4W2 28258 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 09 04:13:12 2015 Results File: DSOM_SIMJ2.RES

Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Tue Jun 09 09:18:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	
1) Naphthalene-d8	6.06	136	212657	0.40	ug/ml	
5) Acenaphthene-d10	8.72	164	135615	0.40	ug/ml	
9) Phenanthrene-d10	11.36	188	247022	0.40	ug/ml	
15) Chrysene-d12	15.51	240	276523	0.40	ug/ml	
19) Perylene-d12	18.00	264	264851	0.40	ug/ml	
System Monitoring Compounds						
3) 2-Methylnaphthalene-d10	7.01	152	138948	0.405	ug/mL	
13) Fluoranthene-d10	13.49	212	264711	0.392	ug/mL	
Target Compounds						Qvalue
2) Naphthalene	6.09	128	212378	0.383	ug/ml	94
4) 2-Methylnaphthalene	7.05	142	141980	0.398	ug/ml	98
6) Acenaphthylene	8.48	152	232506	0.392	ug/ml	97
7) Acenaphthene	8.78	153	146983	0.387	ug/ml	99
8) Fluorene	9.67	166	170638	0.387	ug/ml	100
10) Pentachlorophenol	11.02	266	13567	0.366	ug/ml	100
11) Phenanthrene	11.40	178	260373	0.366	ug/ml	98
12) Anthracene	11.50	178	257842	0.373	ug/ml	97
14) Fluoranthene	13.52	202	305021	0.377	ug/ml	88
16) Pyrene	13.87	202	322075	0.371	ug/ml	88
17) Benzo(a)anthracene	15.50	228	306003	0.415	ug/ml	98
18) Chrysene	15.55	228	286753	0.368	ug/ml	97
20) Benzo(b)fluoranthene	17.22	252	305193	0.370	ug/ml	100
21) Benzo(k)fluoranthene	17.27	252	293142	0.343	ug/ml	99
22) Benzo(a)pyrene	17.88	252	288203	0.365	ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.83	276	271388	0.393	ug/ml	100
24) Dibenzo(a,h)anthracene	20.91	278	277286	0.363	ug/ml	98
25) Benzo(g,h,i)perylene	21.70	276	284538	0.366	ug/ml	71

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00564

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK83

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 448483

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFW03BLK

Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 05/28/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/08/2015

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.3	U
91-57-6	2-Methylnaphthalene	3.3	U
208-96-8	Acenaphthylene	3.3	U
83-32-9	Acenaphthene	3.3	U
86-73-7	Fluorene	3.3	U
87-86-5	Pentachlorophenol	6.7	U
85-01-8	Phenanthrene	3.3	U
120-12-7	Anthracene	3.3	U
206-44-0	Fluoranthene	3.3	U
129-00-0	Pyrene	3.3	U
56-55-3	Benzo(a)anthracene	3.3	U
218-01-9	Chrysene	3.3	U
205-99-2	Benzo(b)fluoranthene	3.3	U
207-08-9	Benzo(k)fluoranthene	3.3	U
50-32-8	Benzo(a)pyrene	3.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.3	U
53-70-3	Dibenzo(a,h)anthracene	3.3	U
191-24-2	Benzo(g,h,i)perylene	3.3	U

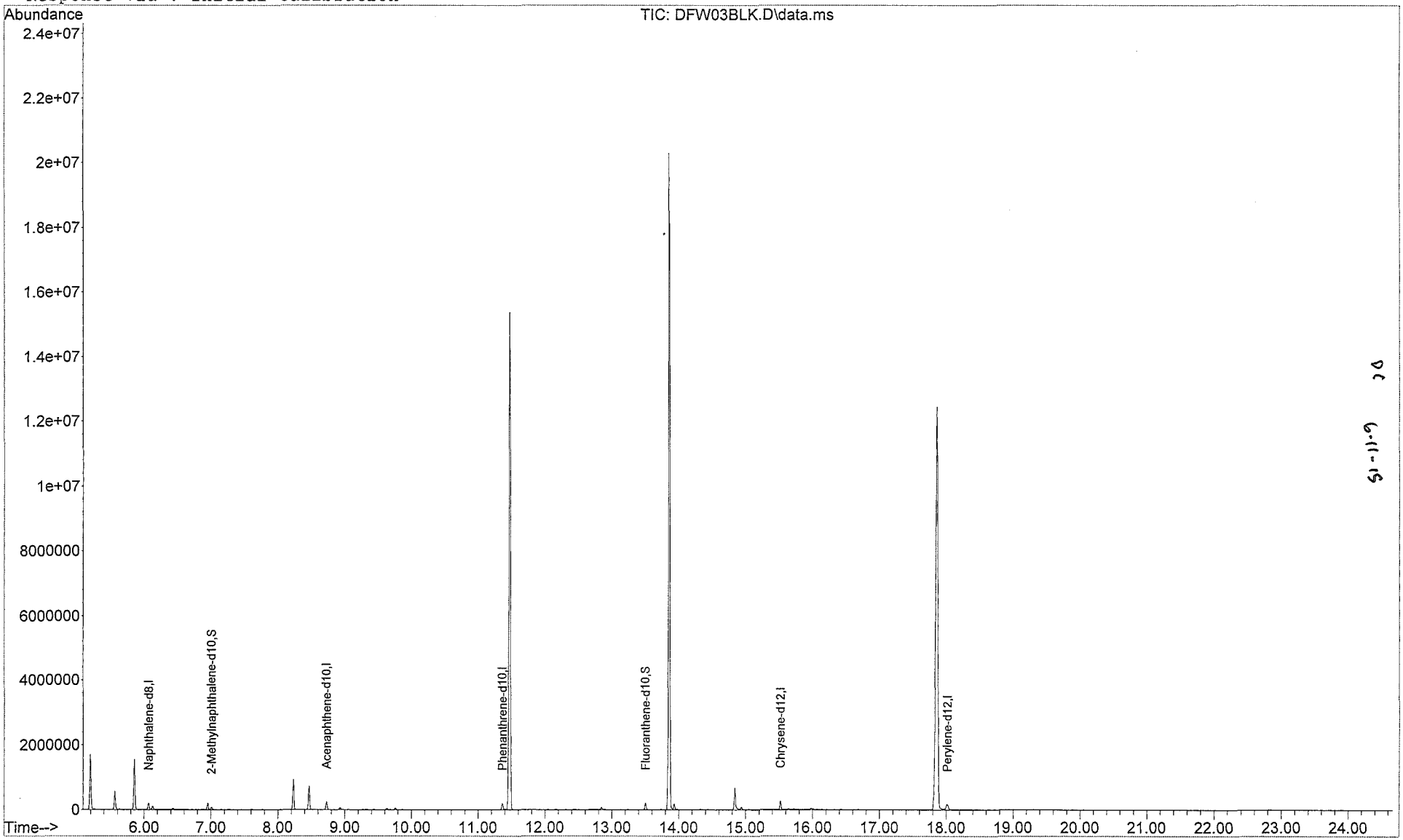
Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW03BLK.D
Acq On : 06/08/2015 15:20
Sample : 448483 SBLK83
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 2
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 11 10:17:16 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW03BLK.D Vial: 2
Acq On : 06/08/2015 15:20 Operator: DJC
Sample : 448483 SBLK83 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 11 10:17:16 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	235007	0.40 ug/ml
5) Acenaphthene-d10	8.73	164	165935	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	283214	0.40 ug/ml
15) Chrysene-d12	15.52	240	301402	0.40 ug/ml
19) Perylene-d12	18.02	264	314083	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.01	152	85368	0.225ug/mL
13) Fluoranthene-d10	13.50	212	253049	0.327ug/mL
Target Compounds				Qvalue
2) Naphthalene	0.00	128		Not Detected
4) 2-Methylnaphthalene	0.00	142		Not Detected
6) Acenaphthylene	0.00	152		Not Detected
7) Acenaphthene	0.00	153		Not Detected
8) Fluorene	0.00	166		Not Detected
10) Pentachlorophenol	0.00	266		Not Detected
11) Phenanthrene	0.00	178		Not Detected
12) Anthracene	0.00	178		Not Detected
14) Fluoranthene	0.00	202		Not Detected
16) Pyrene	0.00	202		Not Detected
17) Benzo(a)anthracene	0.00	228		Not Detected
18) Chrysene	0.00	228		Not Detected
20) Benzo(b)fluoranthene	0.00	252		Not Detected
21) Benzo(k)fluoranthene	0.00	252		Not Detected
22) Benzo(a)pyrene	0.00	252		Not Detected
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected
25) Benzo(g,h,i)perylene	0.00	276		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Batch Worklist

Batch: ENVX/ 21692 Created: 5/31/2015 11:01 Instrument: GPC07 HBN: 149589
Rule: GPC SVOA Analyst: L. Edwards Status: NA

Workorder: 1514293 SDG: F9L58 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	449153	GB for HBN 149589 [ENVX/21692]				GB	4		E.GPC.SV.P	6158		5/29/2015	5/31/2015
2	448483	MB for HBN 149318 [ENVX/21659]	30 grams	.5 mL		MB	4		E.GPC.SV.P	6158		5/29/2015	5/31/2015
3	1514293001	F9L58	30.09 grams	.5 mL		SAMPLE	4	1514293001-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
4	1514293002	F9L59	30.23 grams	.5 mL		SAMPLE	4	1514293002-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
5	1514293003	F9L60	30.19 grams	.5 mL		SAMPLE	4	1514293003-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
6	1514293004	F9L61	30.34 grams	.5 mL		SAMPLE	4	1514293004-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
7	1514293005	F9L62	30.03 grams	.5 mL		SAMPLE	4	1514293005-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
8	1514293006	F9L63	30.23 grams	.5 mL		SAMPLE	4	1514293006-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
9	1514293007	F9L64	30.3 grams	.5 mL		SAMPLE	4	1514293007-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
10	1514293008	F9L65	30.28 grams	.5 mL		SAMPLE	4	1514293008-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
11	1514293009	F9L66	30.26 grams	.5 mL		SAMPLE	4	1514293009-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
12	1514293012	F9L67	30.29 grams	.5 mL		SAMPLE	4	1514293012-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
13	1514293013	F9L68	30.16 grams	.5 mL		SAMPLE	4	1514293013-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
14	1514293014	F9L69	30.02 grams	.5 mL		SAMPLE	4	1514293014-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
15	1514293015	F9L70	30.2 grams	.5 mL		SAMPLE	4	1514293015-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
16	1514293016	F9L71	30.03 grams	.5 mL		SAMPLE	4	1514293016-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
17	1514293017	F9L72	30.35 grams	.5 mL		SAMPLE	4	1514293017-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
18	1514293018	F9L73	30.32 grams	.5 mL		SAMPLE	4	1514293018-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
19	1514293019	F9L75	30.3 grams	.5 mL		SAMPLE	4	1514293019-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
20	1514293020	F9L77	30.22 grams	.5 mL		SAMPLE	4	1514293020-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
21	1514293021	F9L78	30.24 grams	.5 mL		SAMPLE	4	1514293021-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
22	1514293022	F9L79	30.06 grams	.5 mL		SAMPLE	4	1514293022-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015

ALS Laboratory Group GPC Injection Logbook

Method:	SOM01.2	**Analytical Method**	SVOA	**Work Order ID:**	1514293	**Horizon Batch ID:**	149589
Account:	08201	**Instrument ID:**	GPC07	**Column ID:**	8171860-3 545929-11	**Flow Rate:**	5mL/min.
Load Date:	5/31/15	**Load Time:**	10:36	**Pressure (PSI)**	150	**PST/ARO Weekly ID:**	

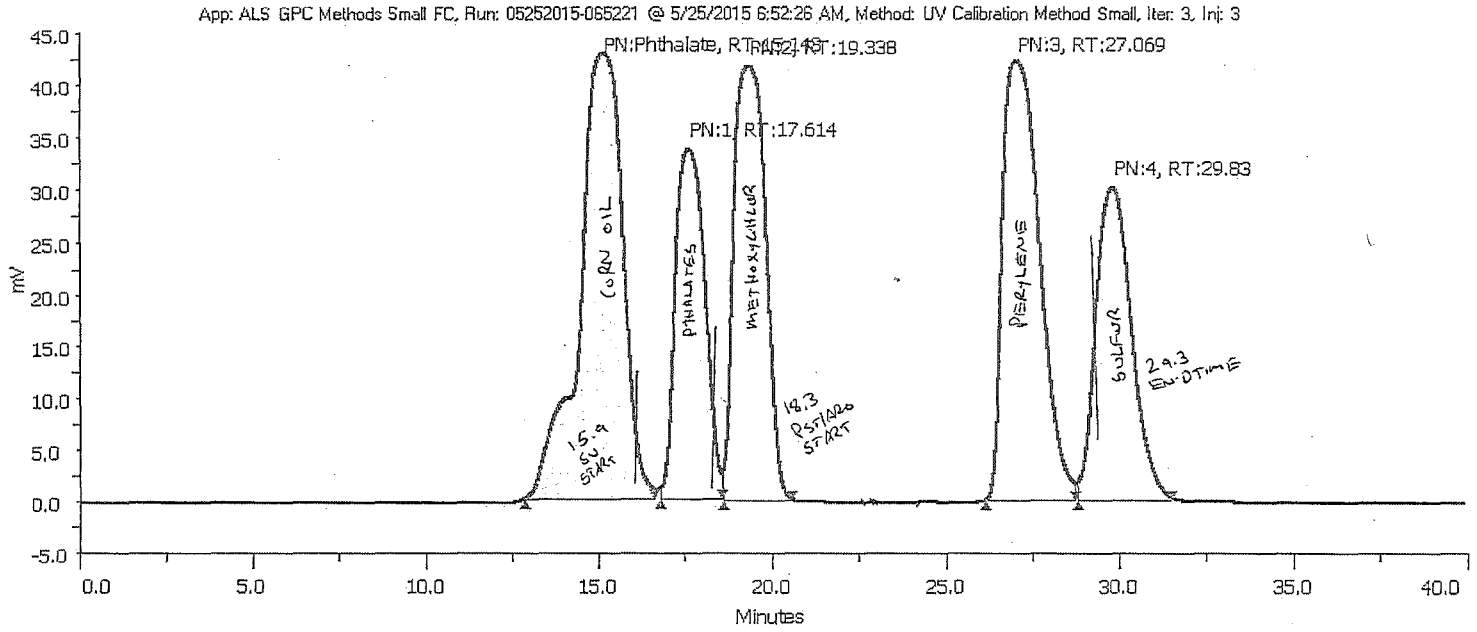
Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	449153	GPC07 Blank	
2	1514293001	F9L58	
3	1514293002	F9L59	
4	1514293003	F9L60	
5	1514293004	F9L61	
6	1514293005	F9L62	
7	1514293006	F9L63	
8	1514293007	F9L64	
9	1514293008	F9L65	
10	1514293009	F9L66	
11	1514293012	F9L67	
12	1514293013	F9L68	
13	1514293014	F9L69	
14	1514293015	F9L70	
15	1514293016	F9L71	
16	1514293017	F9L72	
17	1514293018	F9L73	
18	1514293019	F9L75	
19	1514293020	F9L77	
20	1514293021	F9L78	
21	1514293022	F9L79	
22	Rinse		Column Wash
23	448483	MB for HBN 149318	
24	Rinse		Column Wash

$MeCl_2$ Lot:	**97623**	**General Comments:**
Dump Time (min.):	**15.9**	if noted above - 1:10 dilutions made to protect GPC column
Collect Time (min.):	**29.3**	Analyst - Lyle Edwards
Wash Time(min.):	**10**	
GPC Standard ID:	**195WS38822**	

Graph

Sample Name	GPC Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	4
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 7 TRACE
Somo 1.2/2.2
5/25/15
Lee Edmond
STD # 195WS38823



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC Weekly	Sample Zone->1	Phthalate	12.888	15.143	6185062.9167	42.65	0	90.122
3	GPC Weekly	Sample Zone->1	1	16.776	17.614	3298919.1667	33.43	90.122	91.565
3	GPC Weekly	Sample Zone->1	2	18.578	19.338	4422131.25	41.52	91.565	342.046
3	GPC Weekly	Sample Zone->1	3	26.172	27.069	5238672.5	42.14	342.046	106.152
3	GPC Weekly	Sample Zone->1	4	28.819	29.83	3595322.9167	29.99	106.152	0

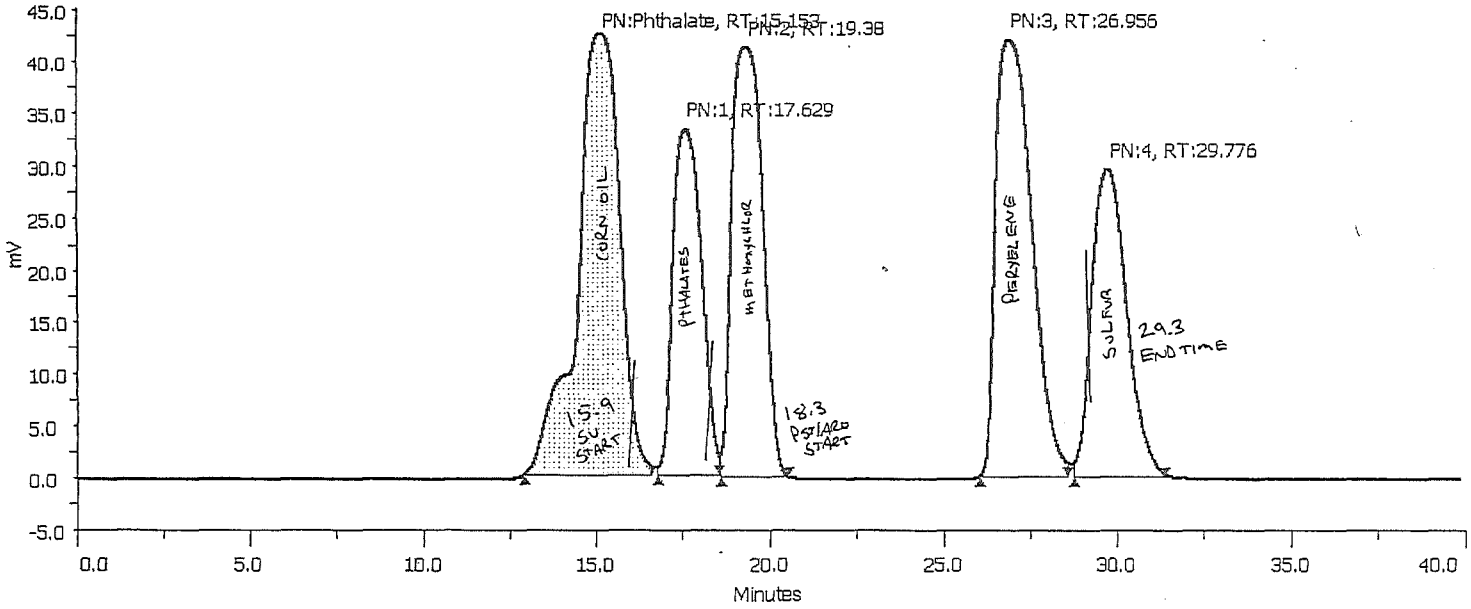
Run Variables

Graph

Sample Name	GPC Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	4
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 7 TRACE
Somo 1.2/2.2
5/19/2015
Lyle Edwards
STD #195WS38823

App: ALS GPC Methods Small FC, Run: 05192015-073001 @ 5/19/2015 7:30:06 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC Weekly	Sample Zone->1	Phthalate	12.918	15.153	6016804.5833	42.32	0	90.801
3	GPC Weekly	Sample Zone->1	1	16.791	17.629	3186677.0833	33.02	90.801	93.482
3	GPC Weekly	Sample Zone->1	2	18.595	19.38	4279507.5	41.13	93.482	335.833
3	GPC Weekly	Sample Zone->1	3	26.065	26.956	5067876.25	41.86	335.833	109.091
3	GPC Weekly	Sample Zone->1	4	28.769	29.776	3454598.3333	29.52	109.091	0

Run Variables

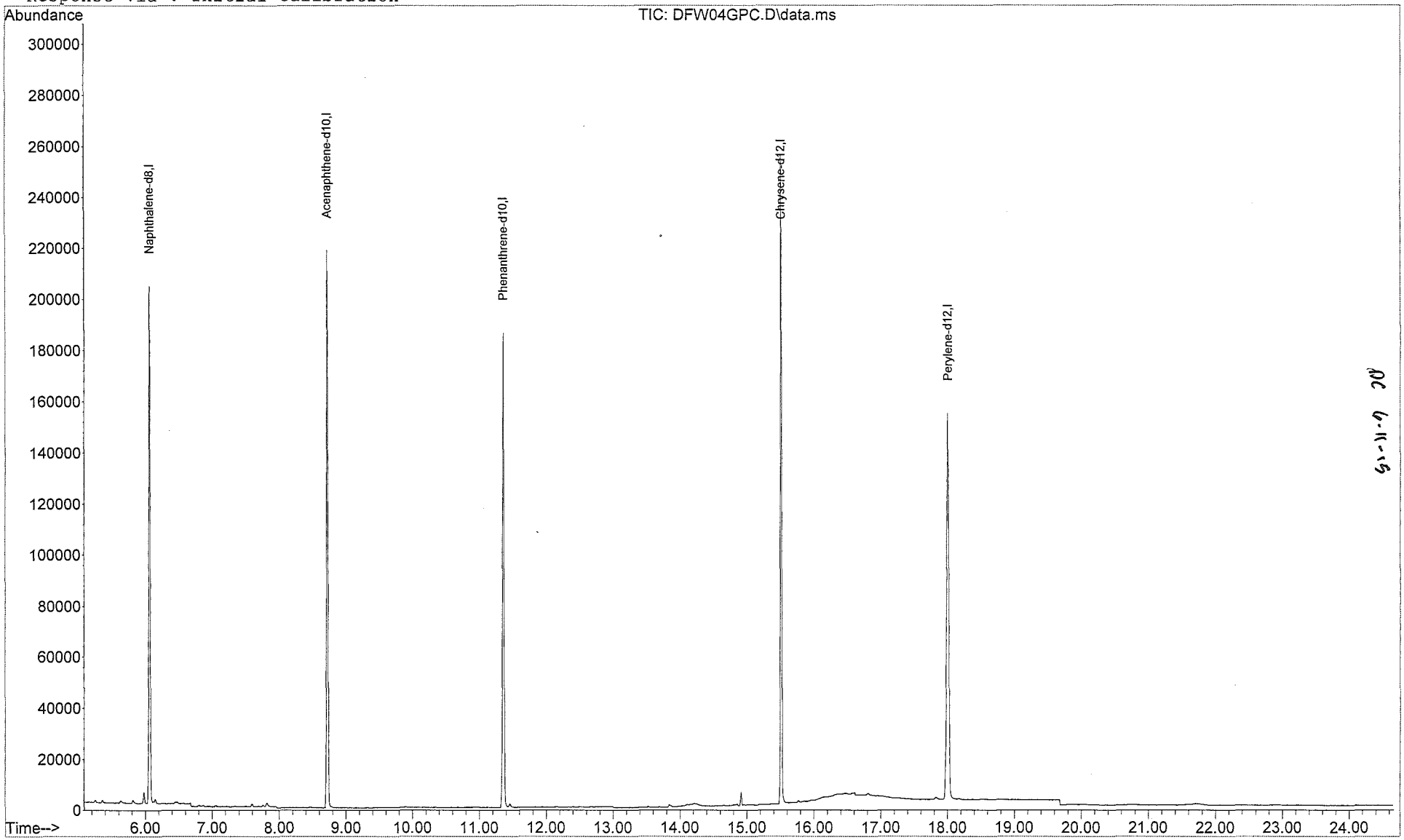
Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW04GPC.D
Acq On : 06/08/2015 15:50
Sample : 449153 GBLK53
Misc : . SOIL SIM
MS Integration Params: rteint.p

Vial: 3
Operator: DJC
Inst : 5975-D
Injection volume : 1uL
Column Identifier: DB-5MS

Quant Time: Jun 08 16:15:01 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration



DFW04GPC.D DSOM_SIMJ2.M Thu Jun 11 09:30:35 2015 Page 2

Quantitation Report

Data File : Z:\D\2015\JUN15\08JUN15\DFW04GPC.D Vial: 3
Acq On : 06/08/2015 15:50 Operator: DJC
Sample : 449153 GBLK53 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jun 08 16:15:01 2015 Results File: DSOM_SIMJ2.RES

Method : Z:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Apr 08 13:45:23 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.07	136	236446	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	149158	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	260579	0.40 ug/ml
15) Chrysene-d12	15.51	240	281481	0.40 ug/ml
19) Perylene-d12	18.01	264	268980	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.15	152	68	0.000ug/mL
13) Fluoranthene-d10	0.00	212	0	0.000ug/mL
Target Compounds				Qvalue
2) Naphthalene	0.00	128		Not Detected
4) 2-Methylnaphthalene	0.00	142		Not Detected
6) Acenaphthylene	0.00	152		Not Detected
7) Acenaphthene	0.00	153		Not Detected
8) Fluorene	0.00	166		Not Detected
10) Pentachlorophenol	0.00	266		Not Detected
11) Phenanthrene	0.00	178		Not Detected
12) Anthracene	0.00	178		Not Detected
14) Fluoranthene	0.00	202		Not Detected
16) Pyrene	0.00	202		Not Detected
17) Benzo(a)anthracene	0.00	228		Not Detected
18) Chrysene	0.00	228		Not Detected
20) Benzo(b)fluoranthene	0.00	252		Not Detected
21) Benzo(k)fluoranthene	0.00	252		Not Detected
22) Benzo(a)pyrene	0.00	252		Not Detected
23) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected
25) Benzo(g,h,i)perylene	0.00	276		Not Detected

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

2P - FORM II PEST-2
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKS1	54	58	92	93			0
02	PLCSS1	63	69	84	77			0
03	F9L58	55	61	69	59			0
04	F9L59	58	61	66	63			0
05	F9L60	58	66	75	67			0
06	F9L61	57	63	70	69			0
07	F9L62	49	51	61	53			0
08	F9L63	50	55	58	57			0
09	F9L64	53	54	60	58			0
10	F9L65	63	66	73	67			0
11	F9L66	53	56	63	54			0
12	F9L67	61	72	62	68			0
13	F9L68	49	55	54	59			0
14	F9L69	52	56	56	61			0
15	F9L70	82	88	85	80			0
16	F9L71	73	76	78	79			0
17	F9L72	70	75	70	77			0
18	F9L73	74	79	74	84			0
19	F9L75	66	66	64	66			0
20	F9L77	64	68	64	72			0
21	F9L78	73	78	79	78			0
22	F9L79	51	51	55	59			0
23	F9L66MS	67	72	75	75			0
24	F9L66MSD	51	53	60	58			0
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3H - FORM III PEST-2

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix Spike - EPA Sample No.: F9L66

Instrument ID: GCE21 GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
gamma-BHC (Lindane)	20.	0	17.	84	46-127
Heptachlor	20.	0.49	16.	81	35-130
Aldrin	20.	0.35	17.	85	34-132
Dieldrin	39.	0.38	29.	73	31-134
Endrin	39.	0	34.	87	42-139
4,4'-DDT	39.	2.2	39.	94	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	19.	12.	64	27	0-50	46-127
Heptachlor	19.	12.	61	28	0-31	35-130
Aldrin	19.	13.	64	28	0-43	34-132
Dieldrin	39.	23.	58	22	0-38	31-134
Endrin	39.	26.	68	24	0-45	42-139
4,4'-DDT	39.	31.	75	22	0-50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS:

3H - FORM III PEST-2

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix Spike - EPA Sample No.: F9L66

Instrument ID: GCE21 GC Column: RTXCLP2 ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
gamma-BHC (Lindane)	20.	0.021	18.	90	46-127
Heptachlor	20.	0.097	17.	87	35-130
Aldrin	20.	0	15.	77	34-132
Dieldrin	39.	0.82	37.	92	31-134
Endrin	39.	0.76	37.	92	42-139
4,4'-DDT	39.	1.3	37.	90	23-134

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
gamma-BHC (Lindane)	19.	13.	67	29	0-50	46-127
Heptachlor	19.	12.	63	32 *	0-31	35-130
Aldrin	19.	11.	57	30	0-43	34-132
Dieldrin	39.	30.	74	21	0-38	31-134
Endrin	39.	28.	71	25	0-45	42-139
4,4'-DDT	39.	29.	71	24	0-50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS:

3M - FORM III PEST-4

SOIL PESTICIDE LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

PLCSS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 448475 LCS Lot No.:

Date Extracted: 05/27/2015 Date Analyzed (1): 06/04/2015

Instrument ID (1): GCE21 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.3	77	50-120
Heptachlor epoxide	1.7	1.6	96	50-150
Dieldrin	3.3	3.1	94	30-130
4,4'-DDE	3.3	3.1	93	50-150
Endrin	3.3	3.4	102	50-120
Endosulfan sulfate	3.3	2.8	83	50-120
gamma-Chlordane	1.7	1.7	101	30-130

Instrument ID (2): GCE21 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 06/04/2015

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
gamma-BHC (Lindane)	1.7	1.3	79	50-120
Heptachlor epoxide	1.7	1.4	85	50-150
Dieldrin	3.3	3.0	90	30-130
4,4'-DDE	3.3	2.7	81	50-150
Endrin	3.3	2.7	81	50-120
Endosulfan sulfate	3.3	2.5	74	50-120
gamma-Chlordane	1.7	1.4	86	30-130

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 14 outside limits.

COMMENTS:

4E - FORM IV PEST

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: 21150604A018,21150604B018 Lab Sample ID: 448474

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 05/27/2015

Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) Y

Date Analyzed (1): 06/04/2015 Date Analyzed (2): 06/04/2015

Time Analyzed (1): 23:10 Time Analyzed (2): 23:31

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column(1): RTXCLP ID: 0.32 (mm) GC Column(2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	PLCSS1	448475	06/04/2015	06/04/2015
02	F9L58	1514293001	06/04/2015	06/05/2015
03	F9L59	1514293002	06/05/2015	06/05/2015
04	F9L60	1514293003	06/05/2015	06/05/2015
05	F9L61	1514293004	06/05/2015	06/05/2015
06	F9L62	1514293005	06/05/2015	06/05/2015
07	F9L63	1514293006	06/05/2015	06/05/2015
08	F9L64	1514293007	06/05/2015	06/05/2015
09	F9L65	1514293008	06/05/2015	06/05/2015
10	F9L66	1514293009	06/05/2015	06/05/2015
11	F9L67	1514293012	06/08/2015	06/08/2015
12	F9L68	1514293013	06/08/2015	06/08/2015
13	F9L69	1514293014	06/08/2015	06/08/2015
14	F9L70	1514293015	06/08/2015	06/08/2015
15	F9L71	1514293016	06/08/2015	06/08/2015
16	F9L72	1514293017	06/08/2015	06/08/2015
17	F9L73	1514293018	06/08/2015	06/08/2015
18	F9L75	1514293019	06/08/2015	06/08/2015
19	F9L77	1514293020	06/08/2015	06/08/2015
20	F9L78	1514293021	06/08/2015	06/08/2015
21	F9L79	1514293022	06/08/2015	06/08/2015
22	F9L66MS	1514293010	06/05/2015	06/05/2015
23	F9L66MSD	1514293011	06/05/2015	06/05/2015
24				
25				
26				

COMMENTS:

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L58

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293001

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 21150604A020,21150604B020

% Moisture: 17. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

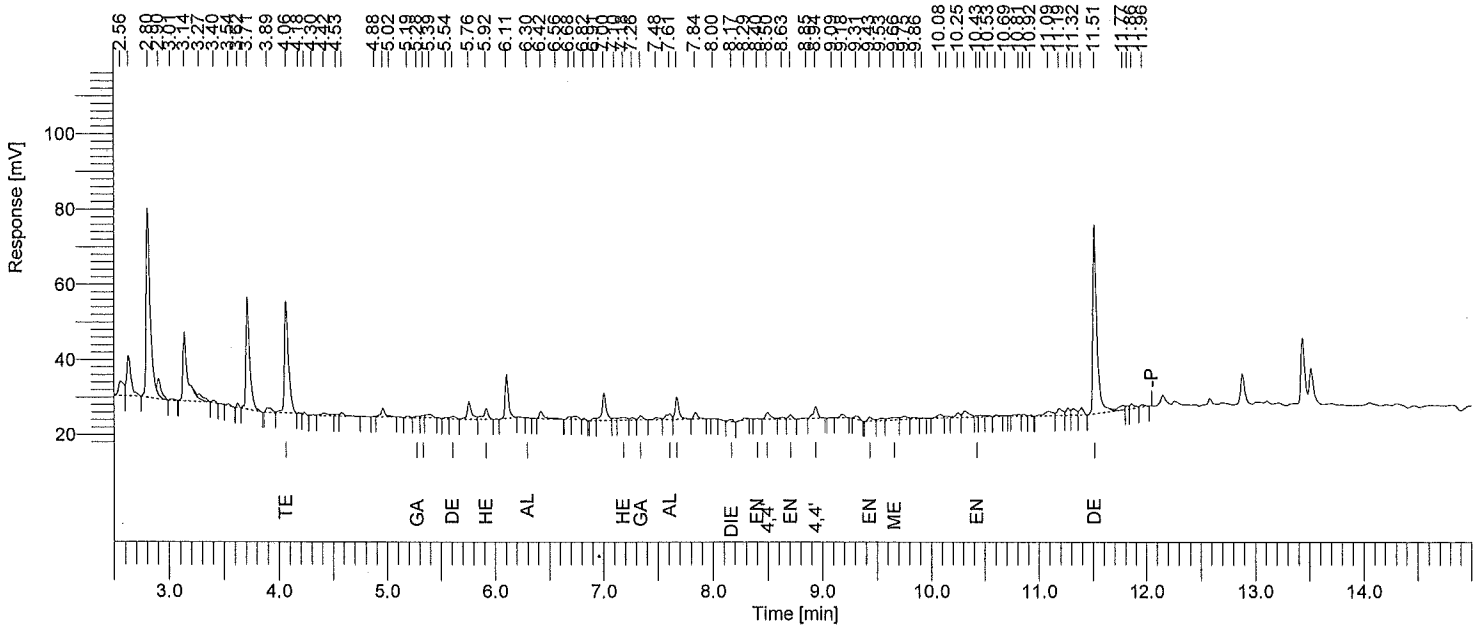
Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	0.36	JBP
58-89-9	gamma-BHC (Lindane)	0.21	JP
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	0.42	JP
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.35	JBP
72-55-9	4,4'-DDE	3.2	JP
72-20-8	Endrin	0.079	JP
33213-65-9	Endosulfan II	0.70	JBP
72-54-8	4,4'-DDD	1.1	JP
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	2.2	J
72-43-5	Methoxychlor	2.3	J
53494-70-5	Endrin ketone	0.20	JBP
7421-93-4	Endrin aldehyde	0.77	JBP
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.56	JBP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:11
Operator	: sagers	Sample Name	: 1514293001
Sample Number	: 020	Study	: F9L58
AutoSampler	: HP7673A	Rack/Vial	: 0/20
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 23:51:28	Dilution Factor	: 1.00
		Cycle	: 4

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604A_020.raw <Modified>
Result File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604A_020.rst
Inst Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som_acq_pest from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604A_020.raw
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604A_020.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604A_020.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150604\21_RPT_2UL\21_som_soil_sample_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604_SOM012_PEST_F9K58_A.seq



Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.06	Tetrachloro-m-xylene	76658	0.03287301	1	10	0.03015	0.995	1.6584	10.90315	19.90	54.8
4.81	alpha-BHC	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
5.28	gamma-BHC	1389	5.3317e-04	1	10	0.03015	0.995	1.6584	0.17684	0.00	------
5.33	beta-BHC	1336	9.8586e-04	1	10	0.03015	0.995	1.6584	0.32699	0.00	------
5.60	delta-BHC	2169	8.9821e-04	1	10	0.03015	0.995	1.6584	0.29791	0.00	------
5.92	Heptachlor	8660	3.2452e-03	1	10	0.03015	0.995	1.6584	1.07637	0.00	------
6.30	Aldrin	163	7.0180e-05	1	10	0.03015	0.995	1.6584	0.02328	0.00	------
7.18	Heptachlor epoxide	4304	1.9786e-03	1	10	0.03015	0.995	1.6584	0.65624	0.00	------
7.34	gamma-Chlordane	3244	1.3921e-03	1	10	0.03015	0.995	1.6584	0.46171	0.00	------
7.61	alpha-Chlordane	5551	2.4623e-03	1	10	0.03015	0.995	1.6584	0.81670	0.00	------
7.67	4,4'-DDE	14534	8.0332e-03	1	10	0.03015	0.995	3.3167	2.66443	0.00	------
7.76	Endosulfan I	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
8.17	Dieldrin	1696	8.7206e-04	1	10	0.03015	0.995	3.3167	0.28924	0.00	------
8.40	Endrin	355	1.9719e-04	1	10	0.03015	0.995	3.3167	0.06540	0.00	------
8.50	4,4'-DDD	5968	3.9987e-03	1	10	0.03015	0.995	3.3167	1.32626	0.00	------
8.71	Endosulfan II	2883	1.7396e-03	1	10	0.03015	0.995	3.3167	0.57697	0.00	------
8.94	4,4'-DDT	9023	5.4835e-03	1	10	0.03015	0.995	3.3167	1.81874	0.00	------
9.43	Endrin aldehyde	3402	2.4668e-03	1	10	0.03015	0.995	3.3167	0.81817	0.00	------
9.66	Methoxychlor	4673	5.7902e-03	1	10	0.03015	0.995	16.5837	1.92045	0.00	------
10.01	Endosulfan sulfate	0	0.00000000	1	10	0.03015	0.995	----------	0.00000	--------	------
10.43	Endrin ketone	899	4.9466e-04	1	10	0.03015	0.995	3.3167	0.16407	0.00	------
11.51	Decachlorobiphenyl	128060	0.08291256	1	10	0.03015	0.995	3.3167	27.50002	39.80	69.1

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:21
Operator	: sagers	Sample Name	: 1514293001
Sample Number	: 020	Study	: F9L58
AutoSampler	: HP7673A	Rack/Vial	: 0/20
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 00:11:53	Dilution Factor	: 1.00
		Cycle	: 5

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_020.raw <Modified>
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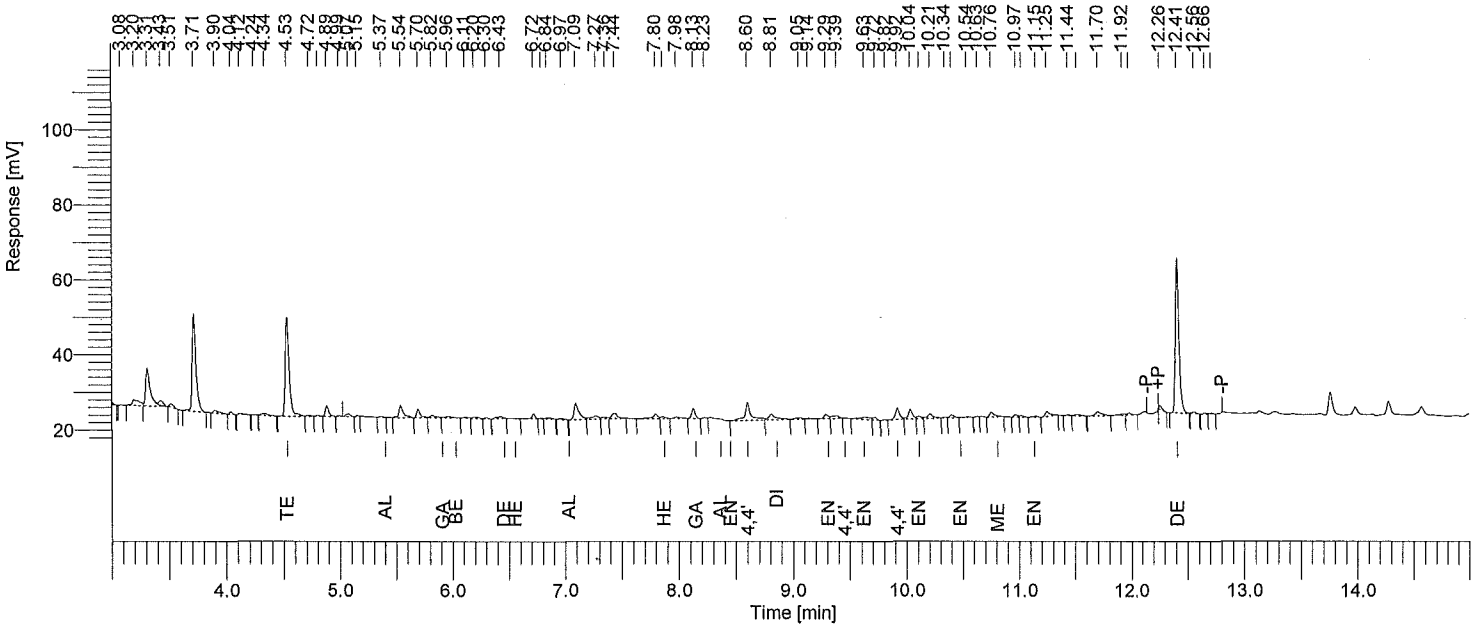
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150604\21_RPT_2UL\21_som_soil_sample_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604_SOM012_PEST_F9K58_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.53	Tetrachloro-m-xylene	62935	0.03632237	1	10	0.03015	0.995	1.6584	12.04722	19.90	60.5
5.37	alpha-BHC	606	2.8684e-04	1	10	0.03015	0.995	1.6584	0.09514	0.00	------
5.96	gamma-BHC	1994	1.0243e-03	1	10	0.03015	0.995	1.6584	0.33974	0.00	------
6.03	beta-BHC	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
6.43	delta-BHC	2232	1.3119e-03	1	10	0.03015	0.995	1.6584	0.43513	0.00	------
6.55	Heptachlor	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
7.03	Aldrin	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
7.86	Heptachlor epoxide	1668	1.0414e-03	1	10	0.03015	0.995	1.6584	0.34542	0.00	------
8.13	gamma-Chlordane	5675	3.3679e-03	1	10	0.03015	0.995	1.6584	1.11704	0.00	------
8.36	alpha-Chlordane	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
8.45	Endosulfan I	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
8.60	4,4'-DDE	17663	0.01214978	1	10	0.03015	0.995	3.3167	4.02978	0.00	------
8.81	Dieldrin	7233	4.7769e-03	1	10	0.03015	0.995	3.3167	1.58438	0.00	------
9.29	Endrin	3042	2.2977e-03	1	10	0.03015	0.995	3.3167	0.76209	0.00	------
9.39	4,4'-DDD	3134	2.7232e-03	1	10	0.03015	0.995	3.3167	0.90321	0.00	------
9.63	Endosulfan II	3644	2.8718e-03	1	10	0.03015	0.995	3.3167	0.95251	0.00	------
9.92	4,4'-DDT	8059	6.2826e-03	1	10	0.03015	0.995	3.3167	2.08377	0.00	------
10.11	Endrin aldehyde	2021	1.9286e-03	1	10	0.03015	0.995	3.3167	0.63966	0.00	------
10.54	Endosulfan sulfate	604	5.4289e-04	1	10	0.03015	0.995	3.3167	0.18006	0.00	------
10.76	Methoxychlor	3699	5.8449e-03	1	10	0.03015	0.995	16.5837	1.93860	0.00	------
11.15	Endrin ketone	1160	8.1445e-04	1	10	0.03015	0.995	3.3167	0.27013	0.00	------
12.41	Decachlorobiphenyl	87127	0.07063163	1	10	0.03015	0.995	3.3167	23.42674	39.80	58.9

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L59

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 21150604A021,21150604B021

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.074	J
319-85-7	beta-BHC	0.12	JBP
319-86-8	delta-BHC	0.64	JBP
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	0.48	JP
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.21	JBP
72-55-9	4,4'-DDE	0.76	J
72-20-8	Endrin	0.15	JP
33213-65-9	Endosulfan II	0.049	JBP
72-54-8	4,4'-DDD	1.3	JP
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	2.0	J
72-43-5	Methoxychlor	1.2	JP
53494-70-5	Endrin ketone	0.22	JBP
7421-93-4	Endrin aldehyde	0.15	JBP
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.69	JBP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:14
Operator	: sagers	Sample Name	: 1514293002
Sample Number	: 021	Study	: F9L59
AutoSampler	: HP7673A	Rack/Vial	: 0/21
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 00:11:53	Dilution Factor	: 1.00
		Cycle	: 5

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Proc Method : \\AlsItws012\TCCS\sagers\GCE21\21150604\21_som12_pest_a.mth from \\AlsItws012\TCCS\sagers\GCE21\21150604\21150604A_021.rst
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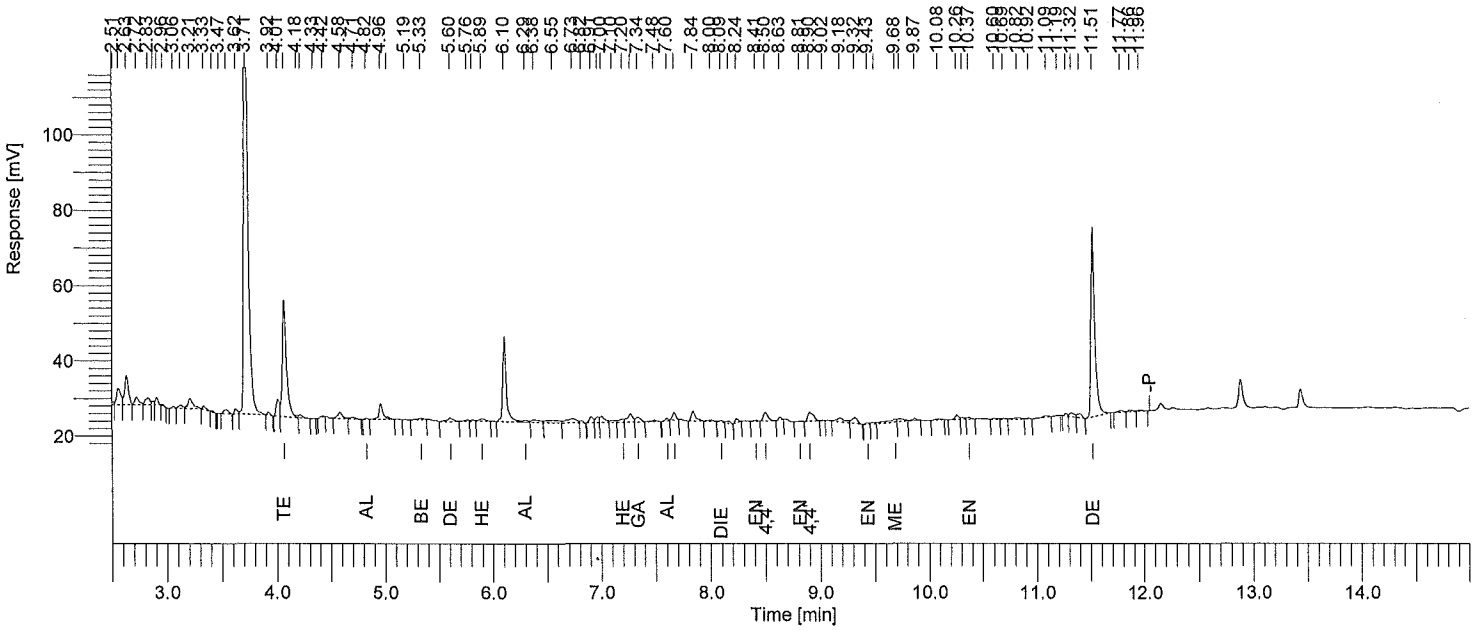

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.06	Tetrachloro-m-xylene	81575	0.03498158	1	10	0.03020	0.993	1.6556	11.58331	19.87	58.3
4.82	alpha-BHC	537	1.8961e-04	1	10	0.03020	0.993	1.6556	0.06278	0.00	------
5.24	gamma-BHC	0	0.00000000	1	10	0.03020	0.993	----------	0.00000	--------	------
5.33	beta-BHC	1574	1.1610e-03	1	10	0.03020	0.993	1.6556	0.38445	0.00	------
5.60	delta-BHC	3973	1.6450e-03	1	10	0.03020	0.993	1.6556	0.54471	0.00	------
5.89	Heptachlor	2833	1.0617e-03	1	10	0.03020	0.993	1.6556	0.35155	0.00	------
6.29	Aldrin	2449	1.0531e-03	1	10	0.03020	0.993	1.6556	0.34872	0.00	------
7.20	Heptachlor epoxide	2700	1.2415e-03	1	10	0.03020	0.993	1.6556	0.41108	0.00	------
7.34	gamma-Chlordane	4103	1.7606e-03	1	10	0.03020	0.993	1.6556	0.58298	0.00	------
7.60	alpha-Chlordane	1325	5.8771e-04	1	10	0.03020	0.993	1.6556	0.19461	0.00	------
7.67	4,4'-DDE	4368	2.4144e-03	1	10	0.03020	0.993	3.3113	0.79949	0.00	------
7.76	Endosulfan I	0	0.00000000	1	10	0.03020	0.993	----------	0.00000	--------	------
8.09	Dieldrin	1031	5.3004e-04	1	10	0.03020	0.993	3.3113	0.17551	0.00	------
8.41	Endrin	675	3.7486e-04	1	10	0.03020	0.993	3.3113	0.12412	0.00	------
8.50	4,4'-DDD	6783	4.5447e-03	1	10	0.03020	0.993	3.3113	1.50486	0.00	------
8.81	Endosulfan II	208	1.2540e-04	1	10	0.03020	0.993	3.3113	0.04152	0.00	------
8.90	4,4'-DDT	8515	5.1746e-03	1	10	0.03020	0.993	3.3113	1.71343	0.00	------
9.43	Endrin aldehyde	758	5.4989e-04	1	10	0.03020	0.993	3.3113	0.18208	0.00	------
9.68	Methoxychlor	5006	6.2028e-03	1	10	0.03020	0.993	16.5563	2.05390	0.00	------
10.01	Endosulfan sulfate	0	0.00000000	1	10	0.03020	0.993	----------	0.00000	--------	------
10.37	Endrin ketone	1039	5.7145e-04	1	10	0.03020	0.993	3.3113	0.18922	0.00	------
11.51	Decachlorobiphenyl	123172	0.07974748	1	10	0.03020	0.993	3.3113	26.40645	39.74	66.5

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:23
Operator	: sagers	Sample Name	: 1514293002
Sample Number	: 021	Study	: F9L59
AutoSampler	: HP7673A	Rack/Vial	: 0/21
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 00:32:33	Dilution Factor	: 1.00
		Cycle	: 6

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_021.raw <Modified>
Result File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_021.rst
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_021.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_021.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150604\21_RPT_2UL\21_som_soil_sample_b.rpt
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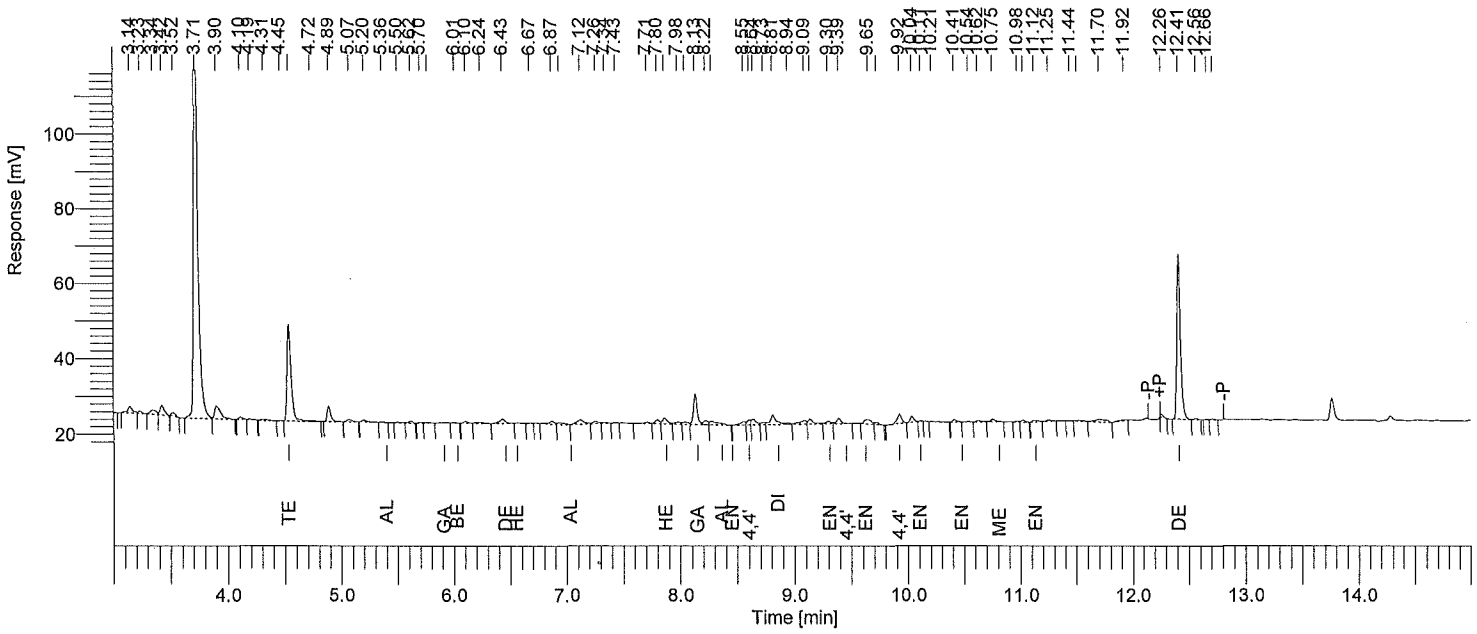

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.53	Tetrachloro-m-xylene	63366	0.03657152	1	10	0.03020	0.993	1.6556	12.10977	19.87	61.0
5.36	alpha-BHC	475	2.2505e-04	1	10	0.03020	0.993	1.6556	0.07452	0.00	------
5.91	gamma-BHC	0	0.00000000	1	10	0.03020	0.993	---------	0.00000	--------	------
6.01	beta-BHC	308	3.1084e-04	1	10	0.03020	0.993	1.6556	0.10293	0.00	------
6.43	delta-BHC	4198	2.4669e-03	1	10	0.03020	0.993	1.6556	0.81686	0.00	------
6.55	Heptachlor	0	0.00000000	1	10	0.03020	0.993	---------	0.00000	--------	------
7.03	Aldrin	0	0.00000000	1	10	0.03020	0.993	---------	0.00000	--------	------
7.86	Heptachlor epoxide	4876	3.0443e-03	1	10	0.03020	0.993	1.6556	1.00806	0.00	------
8.13	gamma-Chlordane	18345	0.01088661	1	10	0.03020	0.993	1.6556	3.60484	0.00	------
8.36	alpha-Chlordane	0	0.00000000	1	10	0.03020	0.993	---------	0.00000	--------	------
8.45	Endosulfan I	0	0.00000000	1	10	0.03020	0.993	---------	0.00000	--------	------
8.60	4,4'-DDE	2818	1.9385e-03	1	10	0.03020	0.993	3.3113	0.64187	0.00	------
8.81	Dieldrin	9866	6.5159e-03	1	10	0.03020	0.993	3.3113	2.15757	0.00	------
9.30	Endrin	2247	1.6967e-03	1	10	0.03020	0.993	3.3113	0.56183	0.00	------
9.39	4,4'-DDD	3867	3.3597e-03	1	10	0.03020	0.993	3.3113	1.11249	0.00	------
9.65	Endosulfan II	5124	4.0388e-03	1	10	0.03020	0.993	3.3113	1.33736	0.00	------
9.92	4,4'-DDT	6932	5.4046e-03	1	10	0.03020	0.993	3.3113	1.78959	0.00	------
10.11	Endrin aldehyde	395	3.7686e-04	1	10	0.03020	0.993	3.3113	0.12479	0.00	------
10.54	Endosulfan sulfate	398	3.5707e-04	1	10	0.03020	0.993	3.3113	0.11824	0.00	------
10.75	Methoxychlor	1914	3.0238e-03	1	10	0.03020	0.993	16.5563	1.00126	0.00	------
11.12	Endrin ketone	1851	1.2995e-03	1	10	0.03020	0.993	3.3113	0.43031	0.00	------
12.41	Decachlorobiphenyl	92742	0.07518312	1	10	0.03020	0.993	3.3113	24.89507	39.74	62.7

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L60

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293003

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 21150604A022,21150604B022

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	0.22	JB
319-86-8	delta-BHC	0.47	JBP
58-89-9	gamma-BHC (Lindane)	0.11	J
76-44-8	Heptachlor	0.26	JBP
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	0.47	JBP
72-55-9	4,4'-DDE	3.7	J
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	0.054	JBP
72-54-8	4,4'-DDD	0.22	JP
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	3.0	JP
72-43-5	Methoxychlor	0.72	JP
53494-70-5	Endrin ketone	0.10	JBP
7421-93-4	Endrin aldehyde	0.30	JBP
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	0.46	JBP
8001-35-2	Toxaphene	210	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:16
Operator	: sagers	Sample Name	: 1514293003
Sample Number	: 022	Study	: F9L60
AutoSampler	: HP7673A	Rack/Vial	: 0/22
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 00:32:33	Dilution Factor	: 1.00
		Cycle	: 6

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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150604\21_RPT_2UL\21_som_soil_sample_a.rpt
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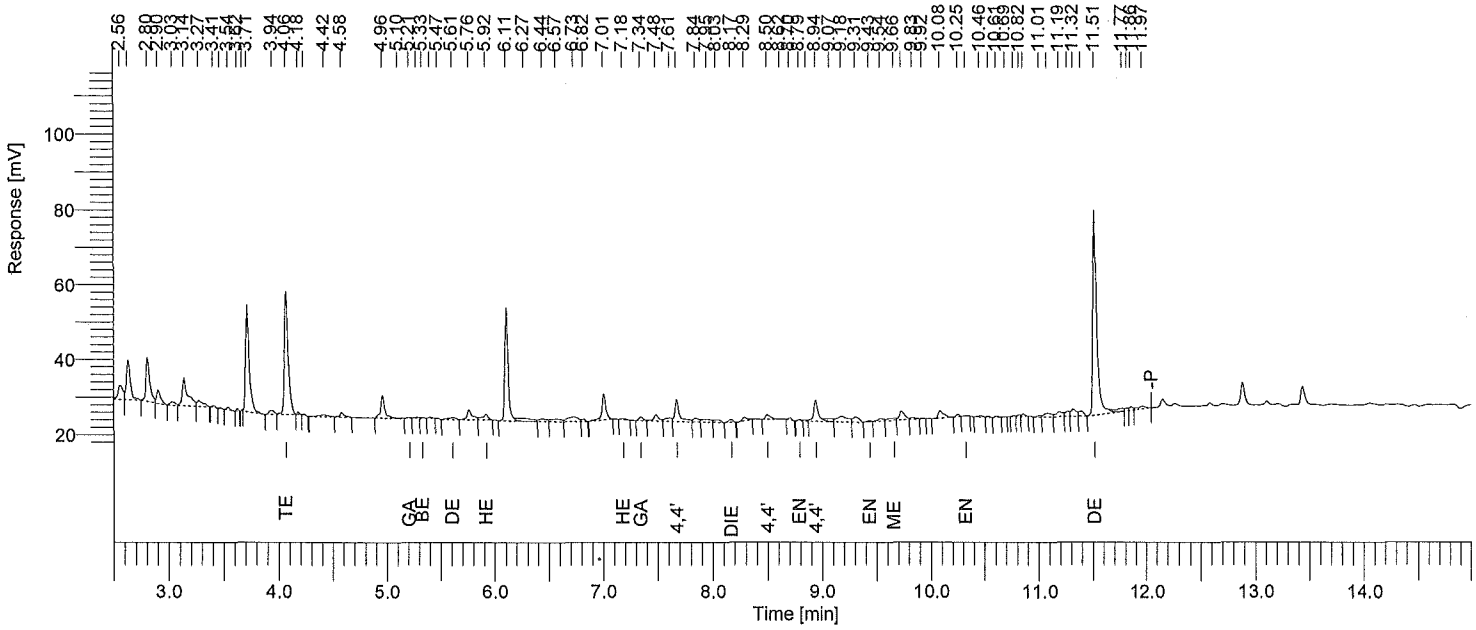

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.06	Tetrachloro-m-xylene	81642	0.03501046	1	10	0.03030	0.990	1.6502	11.55461	19.80	58.4
4.81	alpha-BHC	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
5.21	gamma-BHC	671	2.5764e-04	1	10	0.03030	0.990	1.6502	0.08503	0.00	------
5.33	beta-BHC	726	5.3557e-04	1	10	0.03030	0.990	1.6502	0.17676	0.00	------
5.61	delta-BHC	2782	1.1519e-03	1	10	0.03030	0.990	1.6502	0.38016	0.00	------
5.92	Heptachlor	5596	2.0969e-03	1	10	0.03030	0.990	1.6502	0.69203	0.00	------
6.32	Aldrin	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
7.18	Heptachlor epoxide	889	4.0870e-04	1	10	0.03030	0.990	1.6502	0.13488	0.00	------
7.34	gamma-Chlordane	2604	1.1176e-03	1	10	0.03030	0.990	1.6502	0.36883	0.00	------
7.56	alpha-Chlordane	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
7.67	4,4'-DDE	17073	9.4365e-03	1	10	0.03030	0.990	3.3003	3.11435	0.00	------
7.76	Endosulfan I	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
8.17	Dieldrin	2246	1.1550e-03	1	10	0.03030	0.990	3.3003	0.38119	0.00	------
8.44	Endrin	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
8.50	4,4'-DDD	4309	2.8873e-03	1	10	0.03030	0.990	3.3003	0.95291	0.00	------
8.79	Endosulfan II	923	5.5679e-04	1	10	0.03030	0.990	3.3003	0.18376	0.00	------
8.94	4,4'-DDT	16498	0.01002601	1	10	0.03030	0.990	3.3003	3.30891	0.00	------
9.43	Endrin aldehyde	1021	7.4072e-04	1	10	0.03030	0.990	3.3003	0.24446	0.00	------
9.66	Methoxychlor	3654	4.5283e-03	1	10	0.03030	0.990	16.5017	1.49449	0.00	------
10.01	Endosulfan sulfate	0	0.00000000	1	10	0.03030	0.990	----------	0.00000	--------	------
10.32	Endrin ketone	451	2.4812e-04	1	10	0.03030	0.990	3.3003	0.08189	0.00	------
11.51	Decachlorobiphenyl	138804	0.08986833	1	10	0.03030	0.990	3.3003	29.65951	39.60	74.9

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:25
Operator	: sagers	Sample Name	: 1514293003
Sample Number	: 022	Study	: F9L60
AutoSampler	: HP7673A	Rack/Vial	: 0/22
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 00:52:53	Cycle	: 7

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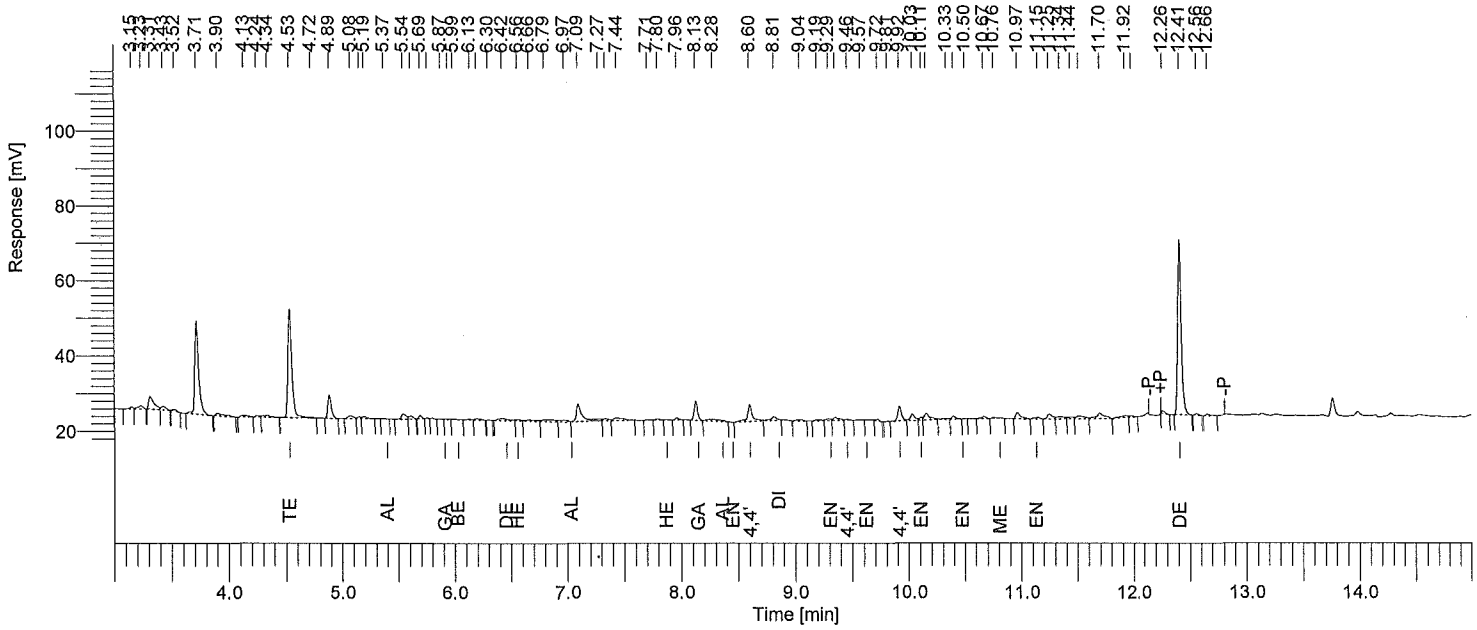
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150604\21_RPT_2UL\21_som_soil_sample_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604_SOM012_PEST_F9K58_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.53	Tetrachloro-m-xylene	68319	0.03943012	1	10	0.03030	0.990	1.6502	13.01324	19.80	65.7
5.37	alpha-BHC	414	1.9603e-04	1	10	0.03030	0.990	1.6502	0.06470	0.00	------
5.94	gamma-BHC	557	2.8638e-04	1	10	0.03030	0.990	1.6502	0.09451	0.00	------
5.99	beta-BHC	605	6.1082e-04	1	10	0.03030	0.990	1.6502	0.20159	0.00	------
6.42	delta-BHC	4158	2.4439e-03	1	10	0.03030	0.990	1.6502	0.80657	0.00	------
6.56	Heptachlor	1286	6.3941e-04	1	10	0.03030	0.990	1.6502	0.21103	0.00	------
7.03	Aldrin	0	0.00000000	1	10	0.03030	0.990	---------	0.00000	--------	------
7.87	Heptachlor epoxide	0	0.00000000	1	10	0.03030	0.990	---------	0.00000	--------	------
8.13	gamma-Chlordane	10355	6.1453e-03	1	10	0.03030	0.990	1.6502	2.02814	0.00	------
8.36	alpha-Chlordane	0	0.00000000	1	10	0.03030	0.990	---------	0.00000	--------	------
8.45	Endosulfan I	0	0.00000000	1	10	0.03030	0.990	---------	0.00000	--------	------
8.60	4,4'-DDE	13221	9.0941e-03	1	10	0.03030	0.990	3.3003	3.00135	0.00	------
8.81	Dieldrin	3617	2.3887e-03	1	10	0.03030	0.990	3.3003	0.78836	0.00	------
9.29	Endrin	1410	1.0648e-03	1	10	0.03030	0.990	3.3003	0.35141	0.00	------
9.46	4,4'-DDD	627	5.4472e-04	1	10	0.03030	0.990	3.3003	0.17978	0.00	------
9.57	Endosulfan II	168	1.3225e-04	1	10	0.03030	0.990	3.3003	0.04365	0.00	------
9.92	4,4'-DDT	9587	7.4739e-03	1	10	0.03030	0.990	3.3003	2.46663	0.00	------
10.11	Endrin aldehyde	1534	1.4638e-03	1	10	0.03030	0.990	3.3003	0.48311	0.00	------
10.50	Endosulfan sulfate	158	1.4171e-04	1	10	0.03030	0.990	3.3003	0.04677	0.00	------
10.76	Methoxychlor	1121	1.7716e-03	1	10	0.03030	0.990	16.5017	0.58470	0.00	------
11.15	Endrin ketone	1639	1.1506e-03	1	10	0.03030	0.990	3.3003	0.37975	0.00	------
12.41	Decachlorobiphenyl	98738	0.08004389	1	10	0.03030	0.990	3.3003	26.41712	39.60	66.7

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L61

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293004

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 21150604A023,21150604B023

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.024	JP
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	0.35	JBP
58-89-9	gamma-BHC (Lindane)	0.015	JP
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.40	JBP
72-55-9	4,4'-DDE	0.22	JP
72-20-8	Endrin	0.61	JP
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	0.23	JP
72-43-5	Methoxychlor	1.3	JP
53494-70-5	Endrin ketone	0.19	JBP
7421-93-4	Endrin aldehyde	0.88	JBP
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.40	JBP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:18
Operator	: sagers	Sample Name	: 1514293004
Sample Number	: 023	Study	: F9L61
AutoSampler	: HP7673A	Rack/Vial	: 0/23
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 00:52:53	Dilution Factor	: 1.00
		Cycle	: 7

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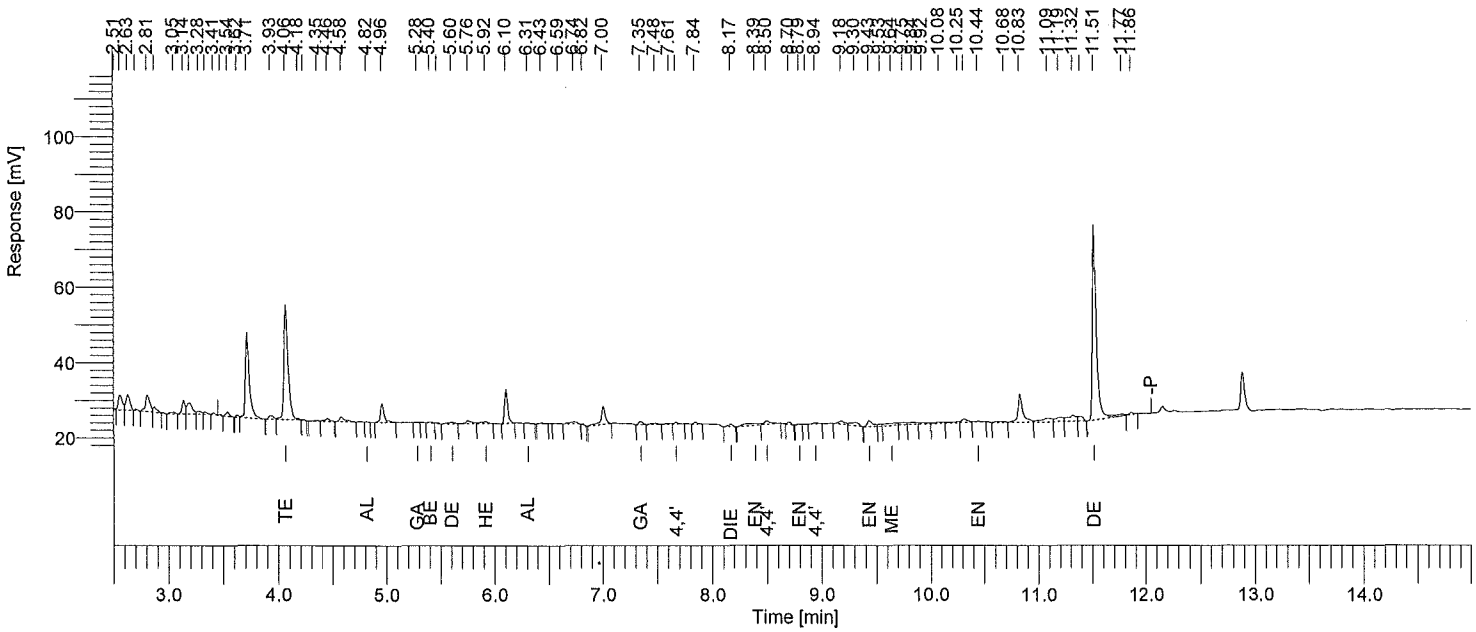

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.06	Tetrachloro-m-xylene	79725	0.03418817	1	10	0.03016	0.995	1.6578	11.33560	19.89	57.0
4.82	alpha-BHC	173	6.1058e-05	1	10	0.03016	0.995	1.6578	0.02024	0.00	------
5.28	gamma-BHC	99	3.8109e-05	1	10	0.03016	0.995	1.6578	0.01264	0.00	------
5.40	beta-BHC	921	6.7921e-04	1	10	0.03016	0.995	1.6578	0.22520	0.00	------
5.60	delta-BHC	2121	8.7831e-04	1	10	0.03016	0.995	1.6578	0.29122	0.00	------
5.92	Heptachlor	2296	8.6057e-04	1	10	0.03016	0.995	1.6578	0.28533	0.00	------
6.31	Aldrin	493	2.1181e-04	1	10	0.03016	0.995	1.6578	0.07023	0.00	------
7.19	Heptachlor epoxide	0	0.00000000	1	10	0.03016	0.995	----------	0.00000	--------	------
7.35	gamma-Chlordane	2347	1.0072e-03	1	10	0.03016	0.995	1.6578	0.33396	0.00	------
7.56	alpha-Chlordane	0	0.00000000	1	10	0.03016	0.995	----------	0.00000	--------	------
7.67	4,4'-DDE	998	5.5180e-04	1	10	0.03016	0.995	3.3156	0.18296	0.00	------
7.76	Endosulfan I	0	0.00000000	1	10	0.03016	0.995	----------	0.00000	--------	------
8.17	Dieldrin	1992	1.0244e-03	1	10	0.03016	0.995	3.3156	0.33964	0.00	------
8.39	Endrin	5774	3.2050e-03	1	10	0.03016	0.995	3.3156	1.06266	0.00	------
8.50	4,4'-DDD	4076	2.7308e-03	1	10	0.03016	0.995	3.3156	0.90545	0.00	------
8.79	Endosulfan II	550	3.3175e-04	1	10	0.03016	0.995	3.3156	0.11000	0.00	------
8.94	4,4'-DDT	954	5.7954e-04	1	10	0.03016	0.995	3.3156	0.19216	0.00	------
9.43	Endrin aldehyde	5297	3.8407e-03	1	10	0.03016	0.995	3.3156	1.27344	0.00	------
9.64	Methoxychlor	4976	6.1662e-03	1	10	0.03016	0.995	16.5782	2.04451	0.00	------
10.01	Endosulfan sulfate	0	0.00000000	1	10	0.03016	0.995	----------	0.00000	--------	------
10.44	Endrin ketone	896	4.9303e-04	1	10	0.03016	0.995	3.3156	0.16347	0.00	------
11.51	Decachlorobiphenyl	129104	0.08358861	1	10	0.03016	0.995	3.3156	27.71506	39.79	69.7

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:27
Operator	: sagers	Sample Name	: 1514293004
Sample Number	: 023	Study	: F9L61
AutoSampler	: HP7673A	Rack/Vial	: 0/23
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 01:13:13	Dilution Factor	: 1.00
		Cycle	: 8

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_023.raw <Modified>
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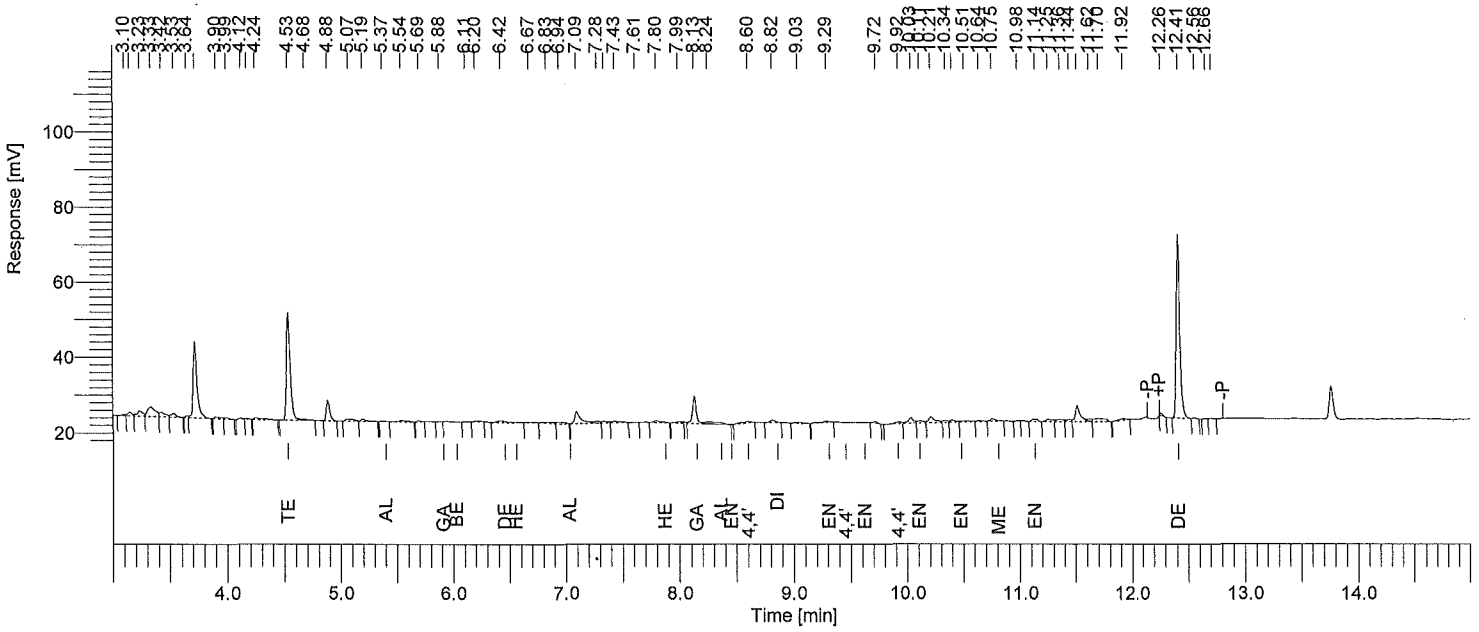

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.53	Tetrachloro-m-xylene	65133	0.03759094	1	10	0.03016	0.995	1.6578	12.46384	19.89	62.7
5.37	alpha-BHC	299	1.4164e-04	1	10	0.03016	0.995	1.6578	0.04696	0.00	------
5.88	gamma-BHC	125	6.4192e-05	1	10	0.03016	0.995	1.6578	0.02128	0.00	------
6.03	beta-BHC	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
6.42	delta-BHC	3105	1.8245e-03	1	10	0.03016	0.995	1.6578	0.60496	0.00	------
6.55	Heptachlor	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
7.03	Aldrin	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
7.87	Heptachlor epoxide	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
8.13	gamma-Chlordane	16471	9.7746e-03	1	10	0.03016	0.995	1.6578	3.24091	0.00	------
8.36	alpha-Chlordane	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
8.45	Endosulfan I	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
8.60	4,4'-DDE	2127	1.4629e-03	1	10	0.03016	0.995	3.3156	0.48506	0.00	------
8.82	Dieldrin	2185	1.4431e-03	1	10	0.03016	0.995	3.3156	0.47849	0.00	------
9.29	Endrin	2048	1.5465e-03	1	10	0.03016	0.995	3.3156	0.51275	0.00	------
9.45	4,4'-DDD	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
9.62	Endosulfan II	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
9.92	4,4'-DDT	1909	1.4881e-03	1	10	0.03016	0.995	3.3156	0.49340	0.00	------
10.11	Endrin aldehyde	2339	2.2319e-03	1	10	0.03016	0.995	3.3156	0.74001	0.00	------
10.51	Endosulfan sulfate	1713	1.5389e-03	1	10	0.03016	0.995	3.3156	0.51023	0.00	------
10.75	Methoxychlor	2097	3.3136e-03	1	10	0.03016	0.995	16.5782	1.09866	0.00	------
11.14	Endrin ketone	2471	1.7355e-03	1	10	0.03016	0.995	3.3156	0.57542	0.00	------
12.41	Decachlorobiphenyl	102705	0.08326016	1	10	0.03016	0.995	3.3156	27.60615	39.79	69.4

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L62

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293005

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 21150604A024,21150604B024

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	0.39	JBP
58-89-9	gamma-BHC (Lindane)	0.053	JP
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.41	JBP
72-55-9	4,4'-DDE	0.39	JP
72-20-8	Endrin	0.57	JP
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	0.26	JP
72-43-5	Methoxychlor	0.23	JP
53494-70-5	Endrin ketone	0.13	JBP
7421-93-4	Endrin aldehyde	0.51	JB
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.40	JBP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:20
Operator	: sagers	Sample Name	: 1514293005
Sample Number	: 024	Study	: F9L62
AutoSampler	: HP7673A	Rack/Vial	: 0/24
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 01:13:13	Dilution Factor	: 1.00
		Cycle	: 8

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604A_024.rst
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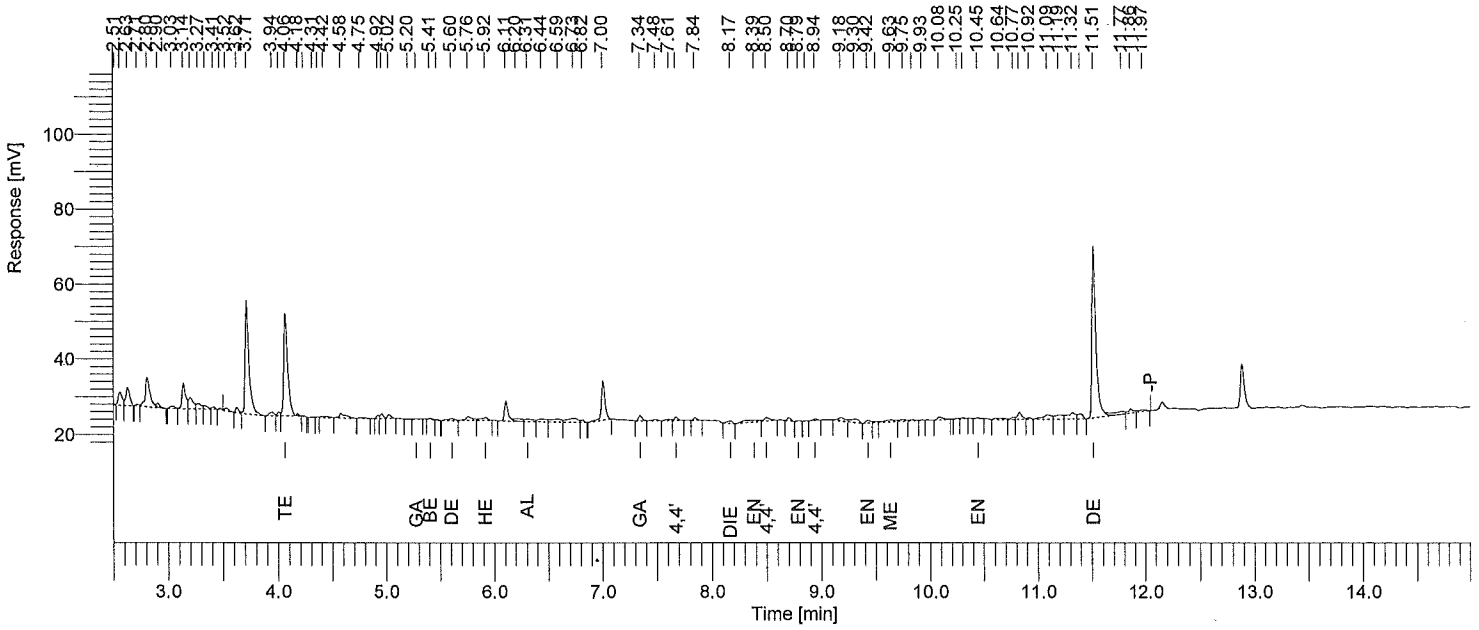

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.06	Tetrachloro-m-xylene	68574	0.02940647	1	10	0.03016	0.995	1.6578	9.75016	19.89	49.0
4.81	alpha-BHC	0	0.00000000	1	10	0.03016	0.995	----------	0.00000	--------	------
5.28	gamma-BHC	355	1.3623e-04	1	10	0.03016	0.995	1.6578	0.04517	0.00	------
5.41	beta-BHC	812	5.9909e-04	1	10	0.03016	0.995	1.6578	0.19864	0.00	------
5.60	delta-BHC	2387	9.8861e-04	1	10	0.03016	0.995	1.6578	0.32779	0.00	------
5.92	Heptachlor	3357	1.2578e-03	1	10	0.03016	0.995	1.6578	0.41706	0.00	------
6.31	Aldrin	3617	1.5550e-03	1	10	0.03016	0.995	1.6578	0.51560	0.00	------
7.19	Heptachlor epoxide	0	0.00000000	1	10	0.03016	0.995	----------	0.00000	--------	------
7.34	gamma-Chlordane	3346	1.4361e-03	1	10	0.03016	0.995	1.6578	0.47615	0.00	------
7.56	alpha-Chlordane	0	0.00000000	1	10	0.03016	0.995	----------	0.00000	--------	------
7.67	4,4'-DDE	1832	1.0128e-03	1	10	0.03016	0.995	3.3156	0.33582	0.00	------
7.76	Endosulfan I	0	0.00000000	1	10	0.03016	0.995	----------	0.00000	--------	------
8.17	Dieldrin	2062	1.0604e-03	1	10	0.03016	0.995	3.3156	0.35158	0.00	------
8.39	Endrin	5588	3.1019e-03	1	10	0.03016	0.995	3.3156	1.02847	0.00	------
8.50	4,4'-DDD	3252	2.1789e-03	1	10	0.03016	0.995	3.3156	0.72243	0.00	------
8.79	Endosulfan II	394	2.3801e-04	1	10	0.03016	0.995	3.3156	0.07891	0.00	------
8.94	4,4'-DDT	1081	6.5690e-04	1	10	0.03016	0.995	3.3156	0.21781	0.00	------
9.42	Endrin aldehyde	2151	1.5595e-03	1	10	0.03016	0.995	3.3156	0.51708	0.00	------
9.63	Methoxychlor	3928	4.8679e-03	1	10	0.03016	0.995	16.5782	1.61403	0.00	------
10.01	Endosulfan sulfate	0	0.00000000	1	10	0.03016	0.995	----------	0.00000	--------	------
10.45	Endrin ketone	600	3.3016e-04	1	10	0.03016	0.995	3.3156	0.10947	0.00	------
11.51	Decachlorobiphenyl	113804	0.07368227	1	10	0.03016	0.995	3.3156	24.43046	39.79	61.4

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:29
Operator	: sagers	Sample Name	: 1514293005
Sample Number	: 024	Study	: F9L62
AutoSampler	: HP7673A	Rack/Vial	: 0/24
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 01:33:31	Dilution Factor	: 1.00
		Cycle	: 9

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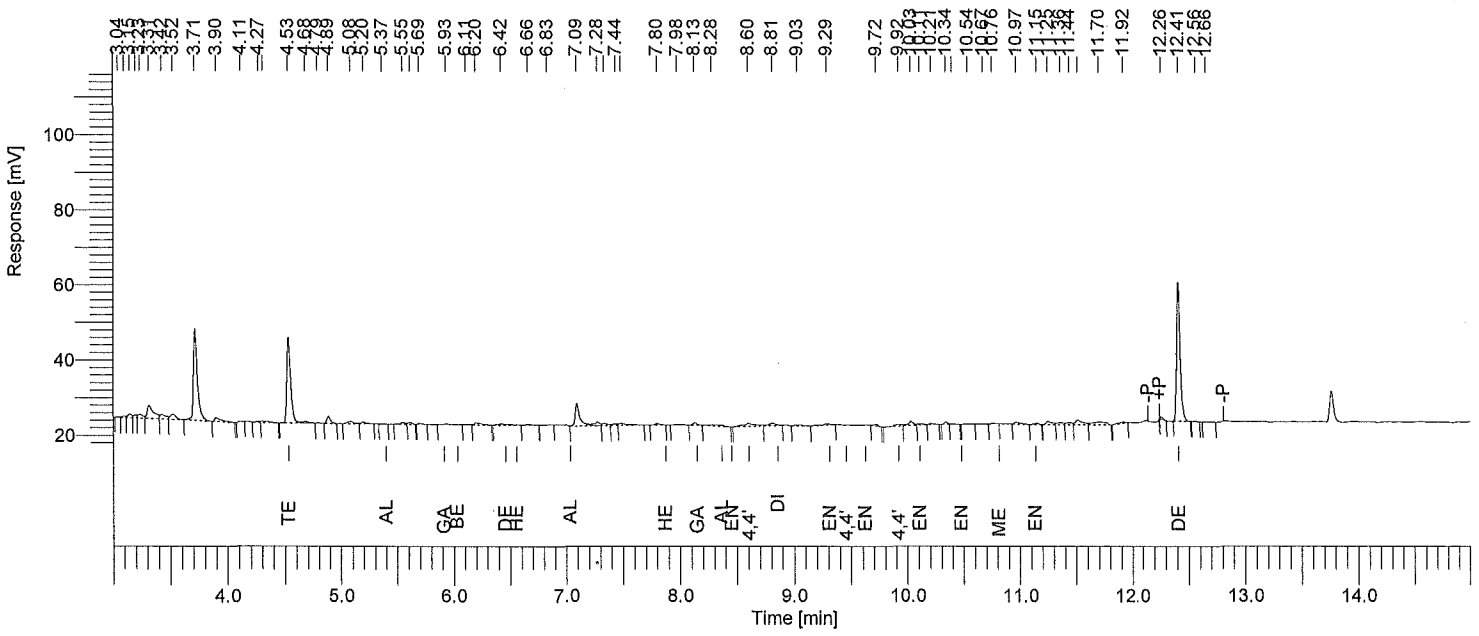

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.53	Tetrachloro-m-xylene	53433	0.03083841	1	10	0.03016	0.995	1.6578	10.22494	19.89	51.4
5.37	alpha-BHC	232	1.0985e-04	1	10	0.03016	0.995	1.6578	0.03642	0.00	------
5.93	gamma-BHC	768	3.9448e-04	1	10	0.03016	0.995	1.6578	0.13079	0.00	------
6.03	beta-BHC	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
6.42	delta-BHC	2723	1.6004e-03	1	10	0.03016	0.995	1.6578	0.53065	0.00	------
6.55	Heptachlor	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
7.03	Aldrin	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
7.87	Heptachlor epoxide	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
8.13	gamma-Chlordane	1746	1.0361e-03	1	10	0.03016	0.995	1.6578	0.34353	0.00	------
8.36	alpha-Chlordane	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
8.45	Endosulfan I	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
8.60	4,4'-DDE	5989	4.1199e-03	1	10	0.03016	0.995	3.3156	1.36600	0.00	------
8.81	Dieldrin	2955	1.9516e-03	1	10	0.03016	0.995	3.3156	0.64708	0.00	------
9.29	Endrin	1942	1.4667e-03	1	10	0.03016	0.995	3.3156	0.48629	0.00	------
9.45	4,4'-DDD	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
9.62	Endosulfan II	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
9.92	4,4'-DDT	2057	1.6036e-03	1	10	0.03016	0.995	3.3156	0.53168	0.00	------
10.11	Endrin aldehyde	1385	1.3210e-03	1	10	0.03016	0.995	3.3156	0.43800	0.00	------
10.54	Endosulfan sulfate	346	3.1063e-04	1	10	0.03016	0.995	3.3156	0.10299	0.00	------
10.76	Methoxychlor	372	5.8752e-04	1	10	0.03016	0.995	16.5782	0.19480	0.00	------
11.15	Endrin ketone	1185	8.3191e-04	1	10	0.03016	0.995	3.3156	0.27583	0.00	------
12.41	Decachlorobiphenyl	78243	0.06342925	1	10	0.03016	0.995	3.3156	21.03092	39.79	52.9

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L63

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293006

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 21150604A025,21150604B025

% Moisture: 22. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	0.19	JBP
319-86-8	delta-BHC	0.37	JBP
58-89-9	gamma-BHC (Lindane)	0.019	JP
76-44-8	Heptachlor	0.10	JBP
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	0.43	JBP
72-55-9	4,4'-DDE	2.9	JP
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	0.028	JBP
72-54-8	4,4'-DDD	0.91	JP
1031-07-8	Endosulfan sulfate	0.14	JP
50-29-3	4,4'-DDT	2.1	J
72-43-5	Methoxychlor	0.27	JP
53494-70-5	Endrin ketone	0.51	JB
7421-93-4	Endrin aldehyde	0.81	JB
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	0.39	JBP
8001-35-2	Toxaphene	220	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:22
Operator	: sagers	Sample Name	: 1514293006
Sample Number	: 025	Study	: F9L63
AutoSampler	: HP7673A	Rack/Vial	: 0/25
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 01:33:31	Dilution Factor	: 1.00
		Cycle	: 9

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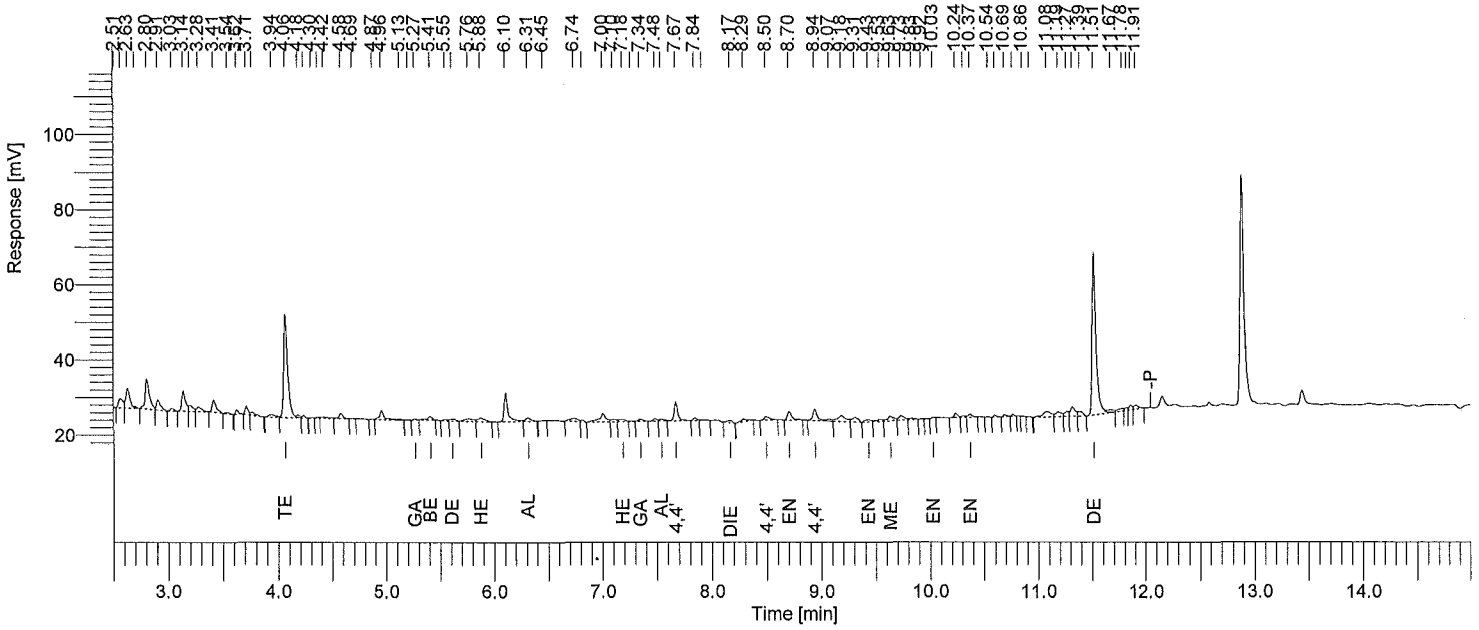

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.06	Tetrachloro-m-xylene	70005	0.03002013	1	10	0.03032	0.989	1.6491	9.90110	19.79	50.0
4.81	alpha-BHC	0	0.00000000	1	10	0.03032	0.989	----------	0.00000	--------	------
5.27	gamma-BHC	795	3.0523e-04	1	10	0.03032	0.989	1.6491	0.10067	0.00	------
5.41	beta-BHC	3165	2.3346e-03	1	10	0.03032	0.989	1.6491	0.76999	0.00	------
5.61	delta-BHC	2077	8.6019e-04	1	10	0.03032	0.989	1.6491	0.28370	0.00	------
5.88	Heptachlor	4651	1.7430e-03	1	10	0.03032	0.989	1.6491	0.57488	0.00	------
6.31	Aldrin	3311	1.4235e-03	1	10	0.03032	0.989	1.6491	0.46950	0.00	------
7.18	Heptachlor epoxide	2632	1.2102e-03	1	10	0.03032	0.989	1.6491	0.39914	0.00	------
7.34	gamma-Chlordane	2143	9.1946e-04	1	10	0.03032	0.989	1.6491	0.30325	0.00	------
7.54	alpha-Chlordane	1999	8.8665e-04	1	10	0.03032	0.989	1.6491	0.29243	0.00	------
7.67	4,4'-DDE	12380	6.8428e-03	1	10	0.03032	0.989	3.2982	2.25686	0.00	------
7.76	Endosulfan I	0	0.00000000	1	10	0.03032	0.989	----------	0.00000	--------	------
8.17	Dieldrin	1974	1.0149e-03	1	10	0.03032	0.989	3.2982	0.33471	0.00	------
8.44	Endrin	0	0.00000000	1	10	0.03032	0.989	----------	0.00000	--------	------
8.50	4,4'-DDD	3204	2.1469e-03	1	10	0.03032	0.989	3.2982	0.70807	0.00	------
8.70	Endosulfan II	6257	3.7756e-03	1	10	0.03032	0.989	3.2982	1.24526	0.00	------
8.94	4,4'-DDT	8248	5.0121e-03	1	10	0.03032	0.989	3.2982	1.65307	0.00	------
9.43	Endrin aldehyde	2611	1.8932e-03	1	10	0.03032	0.989	3.2982	0.62442	0.00	------
9.63	Methoxychlor	5209	6.4544e-03	1	10	0.03032	0.989	16.4908	2.12875	0.00	------
10.03	Endosulfan sulfate	494	3.4025e-04	1	10	0.03032	0.989	3.2982	0.11222	0.00	------
10.37	Endrin ketone	2184	1.2020e-03	1	10	0.03032	0.989	3.2982	0.39645	0.00	------
11.51	Decachlorobiphenyl	107816	0.06980573	1	10	0.03032	0.989	3.2982	23.02300	39.58	58.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:32
Operator	: sagers	Sample Name	: 1514293006
Sample Number	: 025	Study	: F9L63
AutoSampler	: HP7673A	Rack/Vial	: 0/25
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 01:53:53	Dilution Factor	: 1.00
		Cycle	: 10

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Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_025.rst
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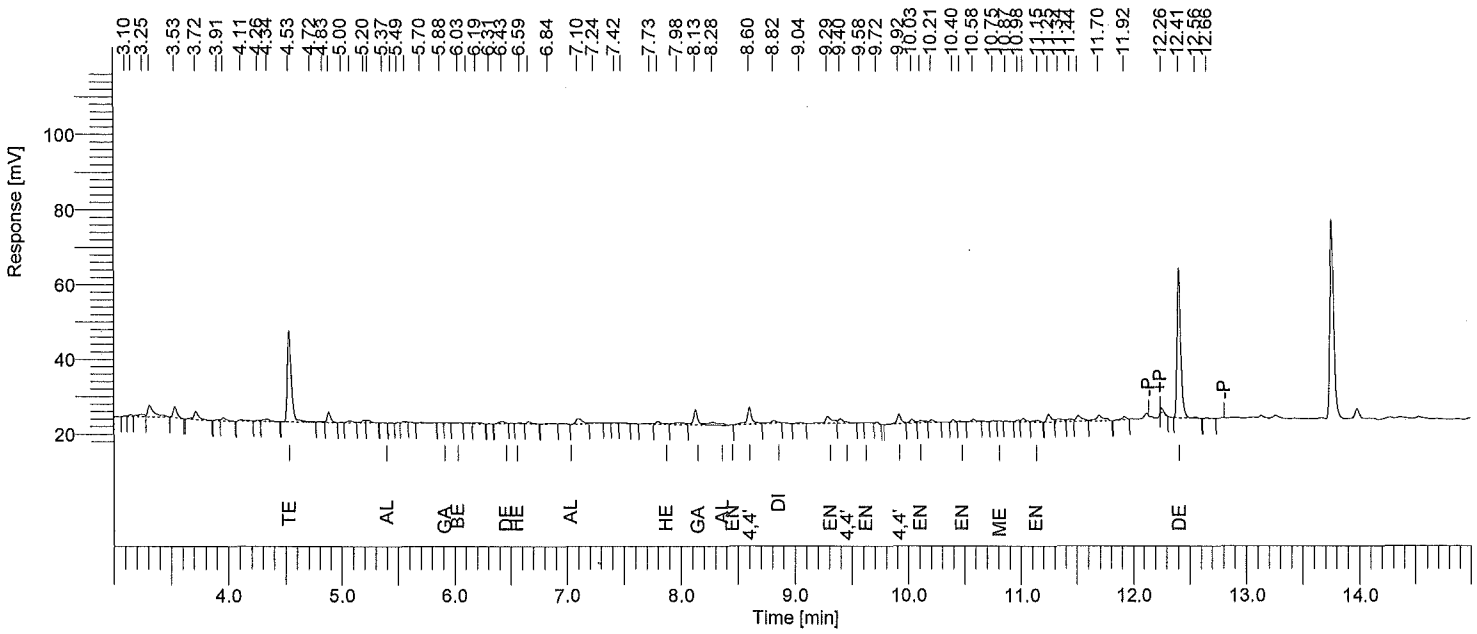

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.53	Tetrachloro-m-xylene	57580	0.03323201	1	10	0.03032	0.989	1.6491	10.96043	19.79	55.4
5.37	alpha-BHC	345	1.6342e-04	1	10	0.03032	0.989	1.6491	0.05390	0.00	------
5.88	gamma-BHC	86	4.4362e-05	1	10	0.03032	0.989	1.6491	0.01463	0.00	------
6.03	beta-BHC	443	4.4726e-04	1	10	0.03032	0.989	1.6491	0.14751	0.00	------
6.43	delta-BHC	2286	1.3434e-03	1	10	0.03032	0.989	1.6491	0.44308	0.00	------
6.59	Heptachlor	493	2.4497e-04	1	10	0.03032	0.989	1.6491	0.08079	0.00	------
7.03	Aldrin	0	0.00000000	1	10	0.03032	0.989	---------	0.00000	--------	------
7.87	Heptachlor epoxide	0	0.00000000	1	10	0.03032	0.989	---------	0.00000	--------	------
8.13	gamma-Chlordane	10098	5.9928e-03	1	10	0.03032	0.989	1.6491	1.97653	0.00	------
8.36	alpha-Chlordane	0	0.00000000	1	10	0.03032	0.989	---------	0.00000	--------	------
8.45	Endosulfan I	0	0.00000000	1	10	0.03032	0.989	---------	0.00000	--------	------
8.60	4,4'-DDE	13330	9.1693e-03	1	10	0.03032	0.989	3.2982	3.02419	0.00	------
8.82	Dieldrin	3011	1.9885e-03	1	10	0.03032	0.989	3.2982	0.65585	0.00	------
9.29	Endrin	8056	6.0839e-03	1	10	0.03032	0.989	3.2982	2.00657	0.00	------
9.40	4,4'-DDD	4107	3.5684e-03	1	10	0.03032	0.989	3.2982	1.17690	0.00	------
9.58	Endosulfan II	83	6.5285e-05	1	10	0.03032	0.989	3.2982	0.02153	0.00	------
9.92	4,4'-DDT	6989	5.4489e-03	1	10	0.03032	0.989	3.2982	1.79712	0.00	------
10.11	Endrin aldehyde	2452	2.3397e-03	1	10	0.03032	0.989	3.2982	0.77167	0.00	------
10.46	Endosulfan sulfate	739	6.6389e-04	1	10	0.03032	0.989	3.2982	0.21896	0.00	------
10.75	Methoxychlor	408	6.4505e-04	1	10	0.03032	0.989	16.4908	0.21275	0.00	------
11.15	Endrin ketone	1808	1.2693e-03	1	10	0.03032	0.989	3.2982	0.41864	0.00	------
12.41	Decachlorobiphenyl	84311	0.06834891	1	10	0.03032	0.989	3.2982	22.54252	39.58	57.0

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L64

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293007

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 21150604A026,21150604B026

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	0.36	JBP
319-86-8	delta-BHC	0.40	JBP
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	0.37	JBP
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.23	JBP
72-55-9	4,4'-DDE	2.5	J
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	1.8	JBP
72-54-8	4,4'-DDD	0.83	JP
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	1.2	JP
72-43-5	Methoxychlor	0.91	JP
53494-70-5	Endrin ketone	0.27	JBP
7421-93-4	Endrin aldehyde	1.0	JB
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	0.39	JBP
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:25
Operator	: sagers	Sample Name	: 1514293007
Sample Number	: 026	Study	: F9L64
AutoSampler	: HP7673A	Rack/Vial	: 0/26
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 01:53:53	Dilution Factor	: 1.00
		Cycle	: 10

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604A_026.rst
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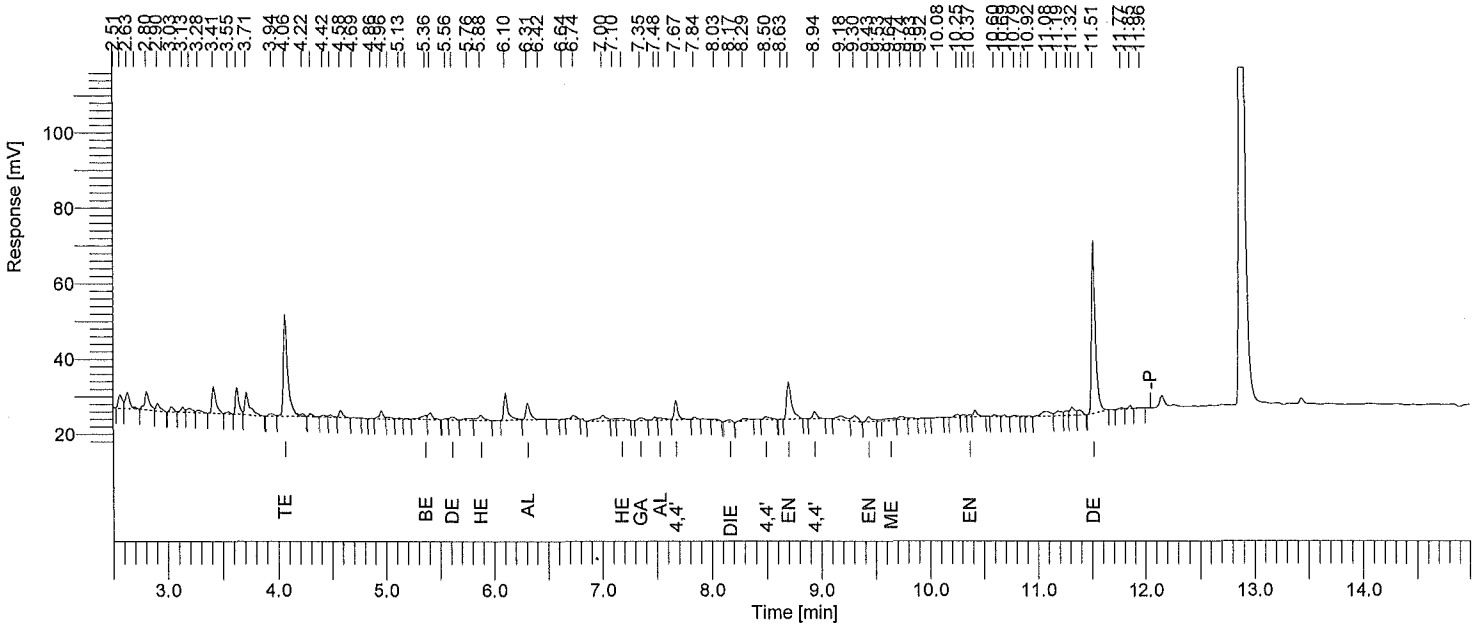
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150604\21_RPT_2UL\21_som_soil_sample_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604_SOM012_PEST_F9K58_A.seq



Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.06	Tetrachloro-m-xylene	74573	0.03197914	1	10	0.03011	0.996	1.6606	10.62077	19.93	53.3
4.81	alpha-BHC	0	0.00000000	1	10	0.03011	0.996	----------	0.00000	--------	------
5.24	gamma-BHC	0	0.00000000	1	10	0.03011	0.996	----------	0.00000	--------	------
5.36	beta-BHC	4967	3.6640e-03	1	10	0.03011	0.996	1.6606	1.21687	0.00	------
5.61	delta-BHC	2540	1.0519e-03	1	10	0.03011	0.996	1.6606	0.34935	0.00	------
5.88	Heptachlor	5601	2.0990e-03	1	10	0.03011	0.996	1.6606	0.69710	0.00	------
6.31	Aldrin	12920	5.5552e-03	1	10	0.03011	0.996	1.6606	1.84498	0.00	------
7.18	Heptachlor epoxide	2972	1.3665e-03	1	10	0.03011	0.996	1.6606	0.45383	0.00	------
7.35	gamma-Chlordane	2371	1.0173e-03	1	10	0.03011	0.996	1.6606	0.33785	0.00	------
7.53	alpha-Chlordane	2706	1.2004e-03	1	10	0.03011	0.996	1.6606	0.39869	0.00	------
7.67	4,4'-DDE	12082	6.6779e-03	1	10	0.03011	0.996	3.3212	2.21784	0.00	------
7.76	Endosulfan I	0	0.00000000	1	10	0.03011	0.996	----------	0.00000	--------	------
8.17	Dieldrin	1930	9.9209e-04	1	10	0.03011	0.996	3.3212	0.32949	0.00	------
8.44	Endrin	0	0.00000000	1	10	0.03011	0.996	----------	0.00000	--------	------
8.50	4,4'-DDD	3260	2.1846e-03	1	10	0.03011	0.996	3.3212	0.72553	0.00	------
8.70	Endosulfan II	30549	0.01843422	1	10	0.03011	0.996	3.3212	6.12229	0.00	------
8.94	4,4'-DDT	5182	3.1493e-03	1	10	0.03011	0.996	3.3212	1.04593	0.00	------
9.43	Endrin aldehyde	4637	3.3624e-03	1	10	0.03011	0.996	3.3212	1.11670	0.00	------
9.64	Methoxychlor	4194	5.1971e-03	1	10	0.03011	0.996	16.6058	1.72603	0.00	------
10.01	Endosulfan sulfate	0	0.00000000	1	10	0.03011	0.996	----------	0.00000	--------	------
10.37	Endrin ketone	1305	7.1799e-04	1	10	0.03011	0.996	3.3212	0.23846	0.00	------
11.51	Decachlorobiphenyl	111035	0.07188977	1	10	0.03011	0.996	3.3212	23.87571	39.85	59.9

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:34
Operator	: sagers	Sample Name	: 1514293007
Sample Number	: 026	Study	: F9L64
AutoSampler	: HP7673A	Rack/Vial	: 0/26
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 02:14:13	Dilution Factor	: 1.00
		Cycle	: 11

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_026.raw <Modified>
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Inst Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som_acq_pest from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_026.raw
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_026.rst
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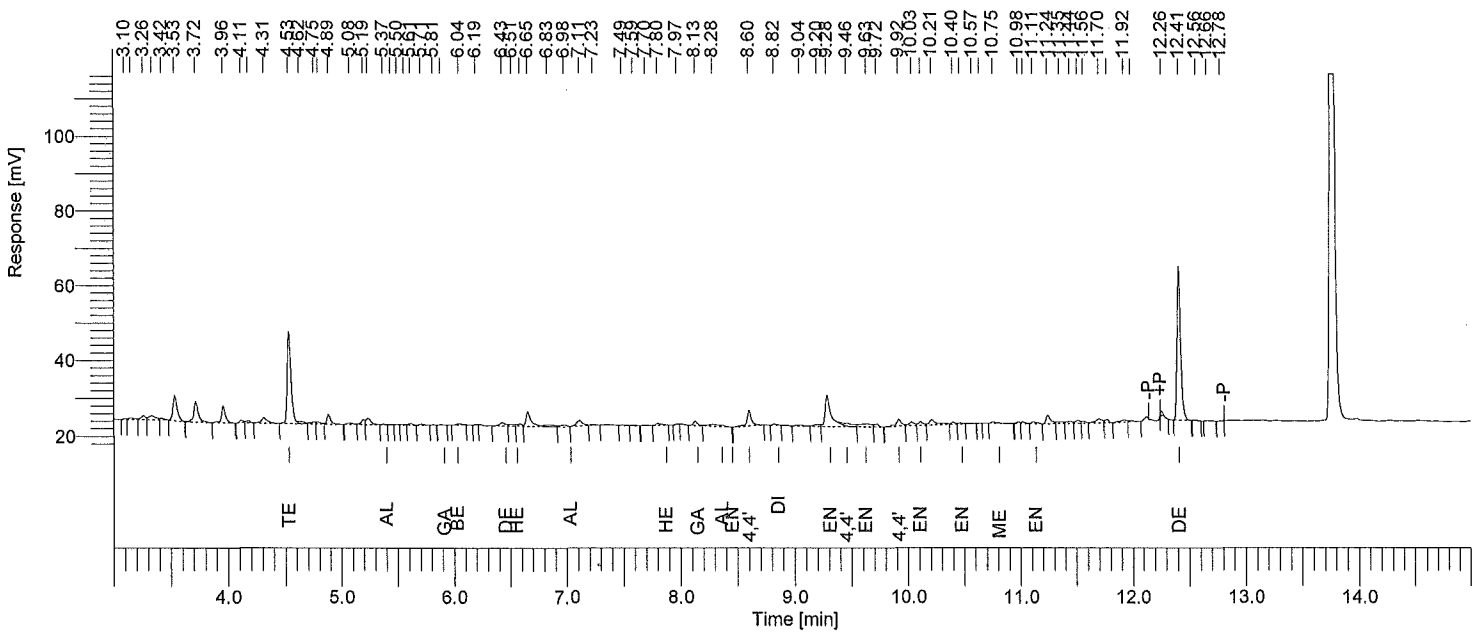

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.53	Tetrachloro-m-xylene	56410	0.03255684	1	10	0.03011	0.996	1.6606	10.81263	19.93	54.3
5.37	alpha-BHC	433	2.0493e-04	1	10	0.03011	0.996	1.6606	0.06806	0.00	------
5.88	gamma-BHC	120	6.1555e-05	1	10	0.03011	0.996	1.6606	0.02044	0.00	------
6.04	beta-BHC	953	9.6314e-04	1	10	0.03011	0.996	1.6606	0.31987	0.00	------
6.43	delta-BHC	3405	2.0009e-03	1	10	0.03011	0.996	1.6606	0.66455	0.00	------
6.59	Heptachlor	1974	9.8105e-04	1	10	0.03011	0.996	1.6606	0.32582	0.00	------
7.03	Aldrin	0	0.00000000	1	10	0.03011	0.996	---------	0.00000	--------	------
7.87	Heptachlor epoxide	0	0.00000000	1	10	0.03011	0.996	---------	0.00000	--------	------
8.13	gamma-Chlordane	2788	1.6544e-03	1	10	0.03011	0.996	1.6606	0.54945	0.00	------
8.36	alpha-Chlordane	0	0.00000000	1	10	0.03011	0.996	---------	0.00000	--------	------
8.45	Endosulfan I	0	0.00000000	1	10	0.03011	0.996	---------	0.00000	--------	------
8.60	4,4'-DDE	11913	8.1943e-03	1	10	0.03011	0.996	3.3212	2.72145	0.00	------
8.82	Dieldrin	938	6.1931e-04	1	10	0.03011	0.996	3.3212	0.20568	0.00	------
9.28	Endrin	30667	0.02316081	1	10	0.03011	0.996	3.3212	7.69207	0.00	------
9.46	4,4'-DDD	5288	4.5944e-03	1	10	0.03011	0.996	3.3212	1.52588	0.00	------
9.63	Endosulfan II	5888	4.6410e-03	1	10	0.03011	0.996	3.3212	1.54135	0.00	------
9.92	4,4'-DDT	6090	4.7476e-03	1	10	0.03011	0.996	3.3212	1.57676	0.00	------
10.11	Endrin aldehyde	2880	2.7477e-03	1	10	0.03011	0.996	3.3212	0.91255	0.00	------
10.46	Endosulfan sulfate	924	8.2956e-04	1	10	0.03011	0.996	3.3212	0.27551	0.00	------
10.75	Methoxychlor	1526	2.4110e-03	1	10	0.03011	0.996	16.6058	0.80074	0.00	------
11.11	Endrin ketone	1795	1.2604e-03	1	10	0.03011	0.996	3.3212	0.41860	0.00	------
12.41	Decachlorobiphenyl	85592	0.06938749	1	10	0.03011	0.996	3.3212	23.04467	39.85	57.8

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293008

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 21150604A027,21150604B027

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	0.45	JBP
58-89-9	gamma-BHC (Lindane)	0.064	J
76-44-8	Heptachlor	0.27	JBP
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.35	JBP
72-55-9	4,4'-DDE	2.9	JP
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	0.19	JP
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	3.2	J
72-43-5	Methoxychlor	0.58	JP
53494-70-5	Endrin ketone	0.33	JB
7421-93-4	Endrin aldehyde	0.12	JBP
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	0.26	JBP
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:27
Operator	: sagers	Sample Name	: 1514293008
Sample Number	: 027	Study	: F9L65
AutoSampler	: HP7673A	Rack/Vial	: 0/27
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 02:14:13	Dilution Factor	: 1.00
		Cycle	: 11

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604A_027.rst
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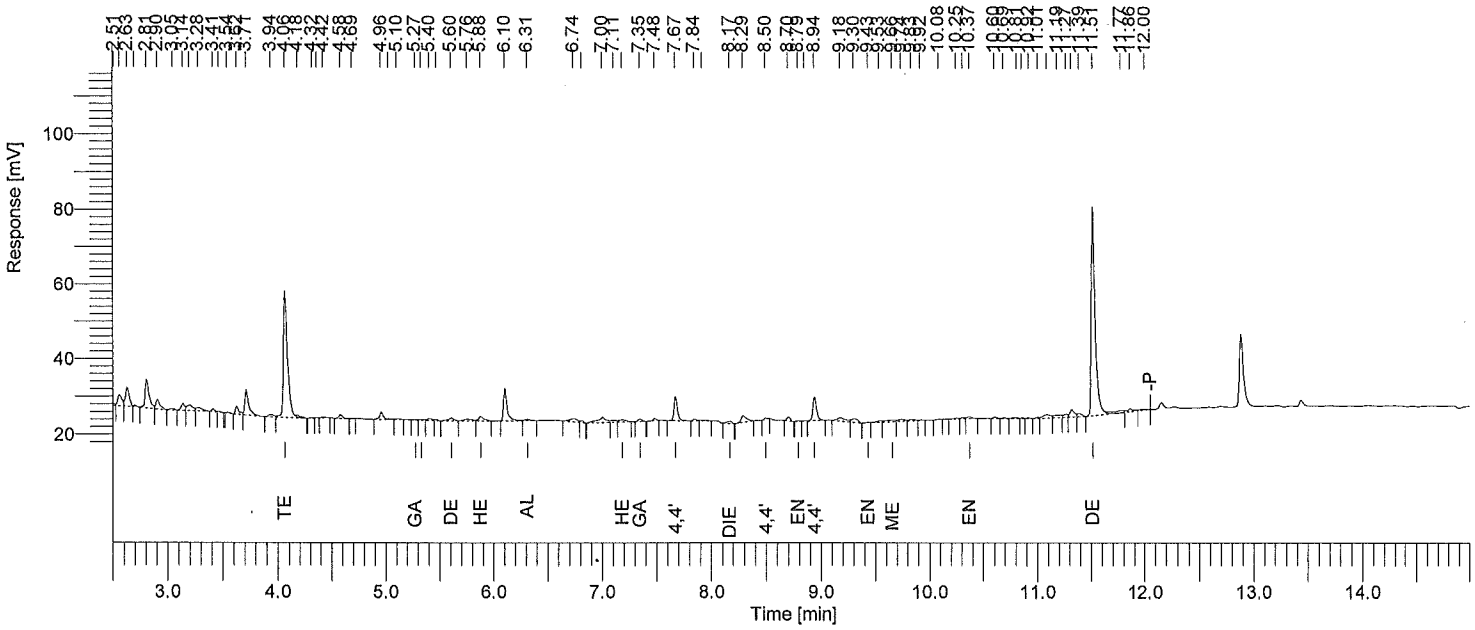

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.06	Tetrachloro-m-xylene	88467	0.03793704	1	10	0.03014	0.995	1.6589	12.58694	19.91	63.2
4.81	alpha-BHC	0	0.00000000	1	10	0.03014	0.995	----------	0.00000	--------	------
5.27	gamma-BHC	465	1.7867e-04	1	10	0.03014	0.995	1.6589	0.05928	0.00	------
5.33	beta-BHC	976	7.2027e-04	1	10	0.03014	0.995	1.6589	0.23897	0.00	------
5.60	delta-BHC	2917	1.2078e-03	1	10	0.03014	0.995	1.6589	0.40074	0.00	------
5.88	Heptachlor	4268	1.5993e-03	1	10	0.03014	0.995	1.6589	0.53063	0.00	------
6.31	Aldrin	1499	6.4465e-04	1	10	0.03014	0.995	1.6589	0.21389	0.00	------
7.18	Heptachlor epoxide	2341	1.0761e-03	1	10	0.03014	0.995	1.6589	0.35705	0.00	------
7.35	gamma-Chlordane	1649	7.0770e-04	1	10	0.03014	0.995	1.6589	0.23480	0.00	------
7.56	alpha-Chlordane	0	0.00000000	1	10	0.03014	0.995	----------	0.00000	--------	------
7.67	4,4'-DDE	14057	7.7693e-03	1	10	0.03014	0.995	3.3179	2.57775	0.00	------
7.76	Endosulfan I	0	0.00000000	1	10	0.03014	0.995	----------	0.00000	--------	------
8.17	Dieldrin	1832	9.4195e-04	1	10	0.03014	0.995	3.3179	0.31252	0.00	------
8.44	Endrin	0	0.00000000	1	10	0.03014	0.995	----------	0.00000	--------	------
8.50	4,4'-DDD	754	5.0519e-04	1	10	0.03014	0.995	3.3179	0.16761	0.00	------
8.79	Endosulfan II	408	2.4643e-04	1	10	0.03014	0.995	3.3179	0.08176	0.00	------
8.94	4,4'-DDT	14636	8.8942e-03	1	10	0.03014	0.995	3.3179	2.95095	0.00	------
9.43	Endrin aldehyde	437	3.1666e-04	1	10	0.03014	0.995	3.3179	0.10506	0.00	------
9.66	Methoxychlor	2854	3.5366e-03	1	10	0.03014	0.995	16.5893	1.17341	0.00	------
10.01	Endosulfan sulfate	0	0.00000000	1	10	0.03014	0.995	----------	0.00000	--------	------
10.37	Endrin ketone	1596	8.7817e-04	1	10	0.03014	0.995	3.3179	0.29136	0.00	------
11.51	Decachlorobiphenyl	136140	0.08814399	1	10	0.03014	0.995	3.3179	29.24485	39.81	73.5

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:36
Operator	: sagers	Sample Name	: 1514293008
Sample Number	: 027	Study	: F9L65
AutoSampler	: HP7673A	Rack/Vial	: 0/27
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 02:34:37	Dilution Factor	: 1.00
		Cycle	: 12

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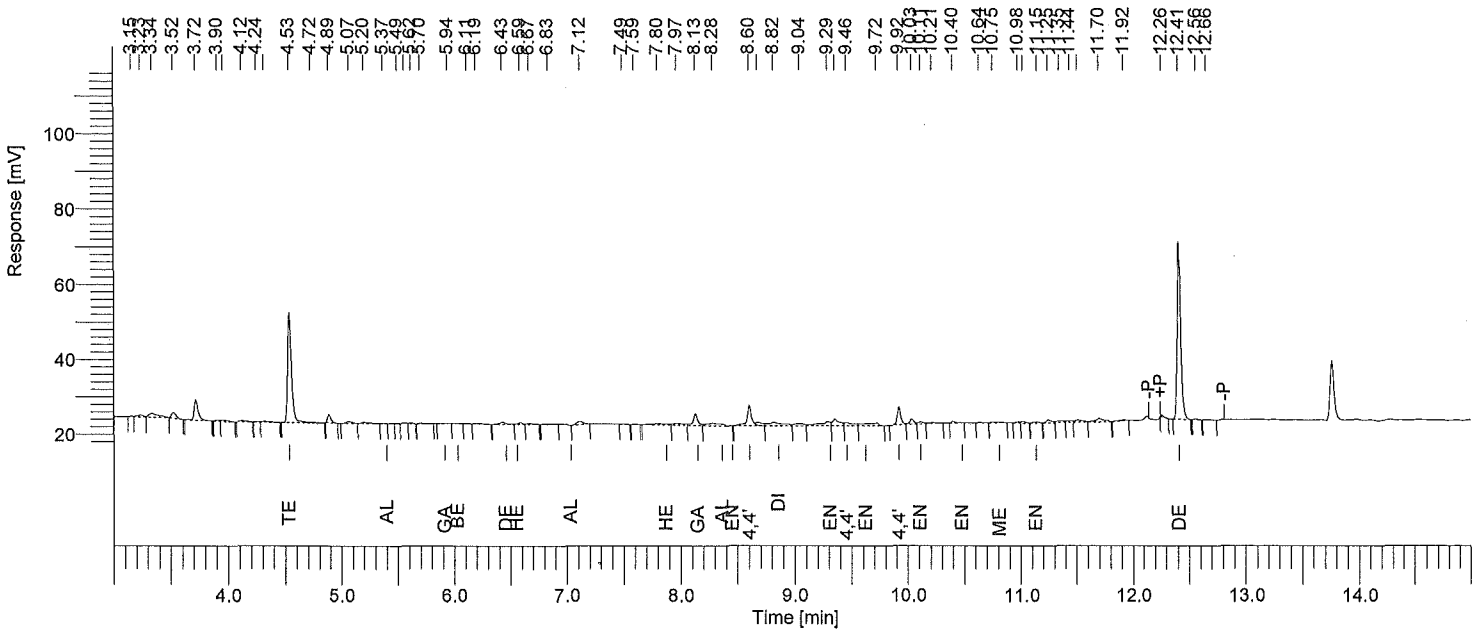

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.53	Tetrachloro-m-xylene	69128	0.03989686	1	10	0.03014	0.995	1.6589	13.23718	19.91	66.5
5.37	alpha-BHC	220	1.0421e-04	1	10	0.03014	0.995	1.6589	0.03458	0.00	------
5.94	gamma-BHC	332	1.7065e-04	1	10	0.03014	0.995	1.6589	0.05662	0.00	------
6.03	beta-BHC	0	0.00000000	1	10	0.03014	0.995	---------	0.00000	--------	------
6.43	delta-BHC	2834	1.6655e-03	1	10	0.03014	0.995	1.6589	0.55260	0.00	------
6.59	Heptachlor	1436	7.1365e-04	1	10	0.03014	0.995	1.6589	0.23678	0.00	------
7.03	Aldrin	0	0.00000000	1	10	0.03014	0.995	---------	0.00000	--------	------
7.87	Heptachlor epoxide	0	0.00000000	1	10	0.03014	0.995	---------	0.00000	--------	------
8.13	gamma-Chlordane	8902	5.2829e-03	1	10	0.03014	0.995	1.6589	1.75278	0.00	------
8.36	alpha-Chlordane	0	0.00000000	1	10	0.03014	0.995	---------	0.00000	--------	------
8.45	Endosulfan I	0	0.00000000	1	10	0.03014	0.995	---------	0.00000	--------	------
8.60	4,4'-DDE	15269	0.01050273	1	10	0.03014	0.995	3.3179	3.48465	0.00	------
8.82	Dieldrin	8475	5.5971e-03	1	10	0.03014	0.995	3.3179	1.85704	0.00	------
9.29	Endrin	7702	5.8167e-03	1	10	0.03014	0.995	3.3179	1.92989	0.00	------
9.46	4,4'-DDD	4666	4.0536e-03	1	10	0.03014	0.995	3.3179	1.34491	0.00	------
9.62	Endosulfan II	0	0.00000000	1	10	0.03014	0.995	---------	0.00000	--------	------
9.92	4,4'-DDT	10987	8.5659e-03	1	10	0.03014	0.995	3.3179	2.84203	0.00	------
10.11	Endrin aldehyde	1700	1.6217e-03	1	10	0.03014	0.995	3.3179	0.53807	0.00	------
10.48	Endosulfan sulfate	0	0.00000000	1	10	0.03014	0.995	---------	0.00000	--------	------
10.75	Methoxychlor	977	1.5445e-03	1	10	0.03014	0.995	16.5893	0.51243	0.00	------
11.15	Endrin ketone	1449	1.0177e-03	1	10	0.03014	0.995	3.3179	0.33767	0.00	------
12.41	Decachlorobiphenyl	99504	0.08066495	1	10	0.03014	0.995	3.3179	26.76342	39.81	67.2

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L66

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293009

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 21150604A028,21150604B028

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	0.26	JBP
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	0.097	JBP
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.38	JBP
72-55-9	4,4'-DDE	2.5	JP
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	0.14	JBP
72-54-8	4,4'-DDD	0.45	JP
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	1.3	JP
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	0.43	JBP
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.48	JBP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:29
Operator	: sagers	Sample Name	: 1514293009
Sample Number	: 028	Study	: F9L66
AutoSampler	: HP7673A	Rack/Vial	: 0/28
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 02:34:37	Dilution Factor	: 1.00
		Cycle	: 12

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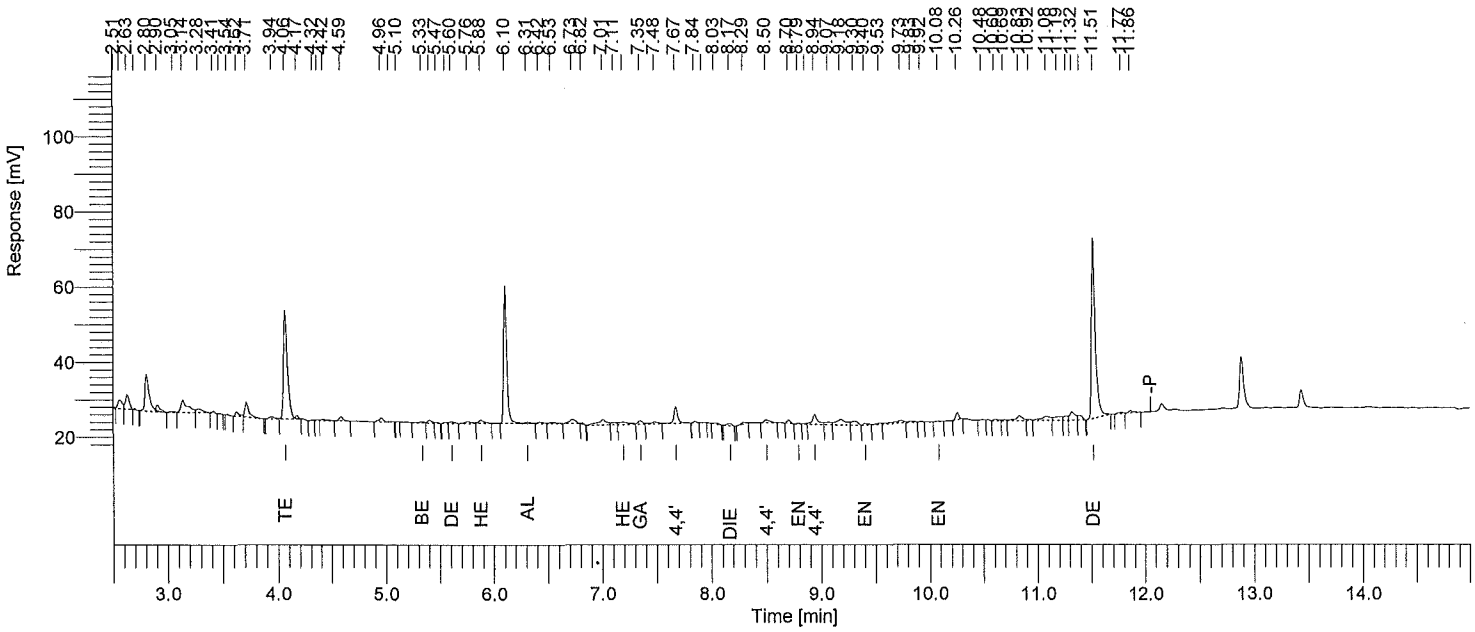

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.06	Tetrachloro-m-xylene	73522	0.03152814	1	10	0.03007	0.998	1.6628	10.48491	19.95	52.5
4.81	alpha-BHC	0	0.00000000	1	10	0.03007	0.998	----------	0.00000	--------	------
5.24	gamma-BHC	0	0.00000000	1	10	0.03007	0.998	----------	0.00000	--------	------
5.33	beta-BHC	1488	1.0977e-03	1	10	0.03007	0.998	1.6628	0.36506	0.00	------
5.60	delta-BHC	1604	6.6425e-04	1	10	0.03007	0.998	1.6628	0.22090	0.00	------
5.88	Heptachlor	3346	1.2538e-03	1	10	0.03007	0.998	1.6628	0.41695	0.00	------
6.31	Aldrin	2073	8.9116e-04	1	10	0.03007	0.998	1.6628	0.29636	0.00	------
7.19	Heptachlor epoxide	4393	2.0198e-03	1	10	0.03007	0.998	1.6628	0.67169	0.00	------
7.35	gamma-Chlordane	2828	1.2137e-03	1	10	0.03007	0.998	1.6628	0.40364	0.00	------
7.56	alpha-Chlordane	0	0.00000000	1	10	0.03007	0.998	----------	0.00000	--------	------
7.67	4,4'-DDE	11401	6.3016e-03	1	10	0.03007	0.998	3.3256	2.09563	0.00	------
7.76	Endosulfan I	0	0.00000000	1	10	0.03007	0.998	----------	0.00000	--------	------
8.17	Dieldrin	1871	9.6198e-04	1	10	0.03007	0.998	3.3256	0.31991	0.00	------
8.44	Endrin	0	0.00000000	1	10	0.03007	0.998	----------	0.00000	--------	------
8.50	4,4'-DDD	2665	1.7858e-03	1	10	0.03007	0.998	3.3256	0.59388	0.00	------
8.79	Endosulfan II	589	3.5570e-04	1	10	0.03007	0.998	3.3256	0.11829	0.00	------
8.94	4,4'-DDT	9072	5.5133e-03	1	10	0.03007	0.998	3.3256	1.83350	0.00	------
9.40	Endrin aldehyde	1529	1.1090e-03	1	10	0.03007	0.998	3.3256	0.36879	0.00	------
9.64	Methoxychlor	0	0.00000000	1	10	0.03007	0.998	----------	0.00000	--------	------
10.08	Endosulfan sulfate	442	3.0457e-04	1	10	0.03007	0.998	3.3256	0.10129	0.00	------
10.38	Endrin ketone	0	0.00000000	1	10	0.03007	0.998	----------	0.00000	--------	------
11.51	Decachlorobiphenyl	116360	0.07533734	1	10	0.03007	0.998	3.3256	25.05399	39.91	62.8

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:38
Operator	: sagers	Sample Name	: 1514293009
Sample Number	: 028	Study	: F9L66
AutoSampler	: HP7673A	Rack/Vial	: 0/28
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 02:54:59	Dilution Factor	: 1.00
		Cycle	: 13

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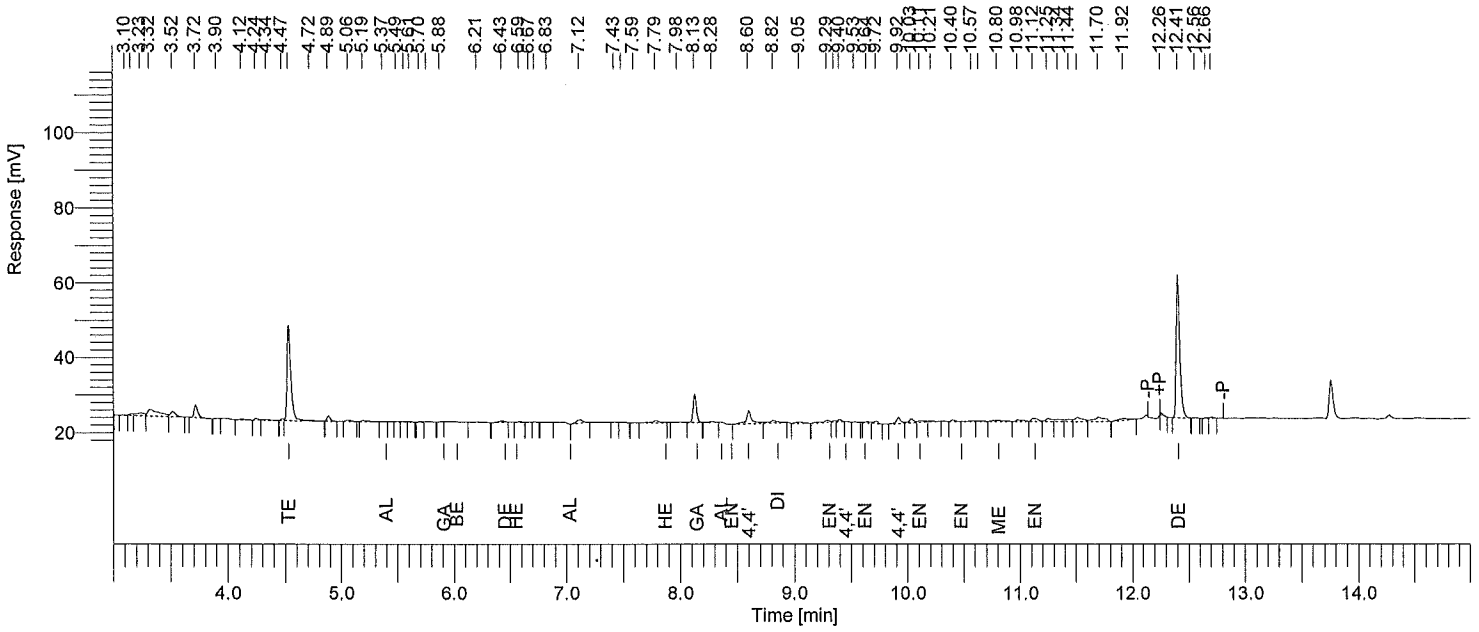

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.53	Tetrachloro-m-xylene	58505	0.03376590	1	10	0.03007	0.998	1.6628	11.22910	19.95	56.3
5.37	alpha-BHC	223	1.0546e-04	1	10	0.03007	0.998	1.6628	0.03507	0.00	------
5.88	gamma-BHC	106	5.4486e-05	1	10	0.03007	0.998	1.6628	0.01812	0.00	------
6.03	beta-BHC	0	0.00000000	1	10	0.03007	0.998	---------	0.00000	--------	------
6.43	delta-BHC	1437	8.4450e-04	1	10	0.03007	0.998	1.6628	0.28085	0.00	------
6.59	Heptachlor	499	2.4811e-04	1	10	0.03007	0.998	1.6628	0.08251	0.00	------
7.03	Aldrin	0	0.00000000	1	10	0.03007	0.998	---------	0.00000	--------	------
7.87	Heptachlor epoxide	0	0.00000000	1	10	0.03007	0.998	---------	0.00000	--------	------
8.13	gamma-Chlordane	15078	8.9482e-03	1	10	0.03007	0.998	1.6628	2.97579	0.00	------
8.36	alpha-Chlordane	0	0.00000000	1	10	0.03007	0.998	---------	0.00000	--------	------
8.45	Endosulfan I	0	0.00000000	1	10	0.03007	0.998	---------	0.00000	--------	------
8.60	4,4'-DDE	11533	7.9333e-03	1	10	0.03007	0.998	3.3256	2.63828	0.00	------
8.82	Dieldrin	3177	2.0981e-03	1	10	0.03007	0.998	3.3256	0.69774	0.00	------
9.29	Endrin	2583	1.9508e-03	1	10	0.03007	0.998	3.3256	0.64875	0.00	------
9.40	4,4'-DDD	1324	1.1504e-03	1	10	0.03007	0.998	3.3256	0.38257	0.00	------
9.64	Endosulfan II	1482	1.1677e-03	1	10	0.03007	0.998	3.3256	0.38833	0.00	------
9.92	4,4'-DDT	4373	3.4090e-03	1	10	0.03007	0.998	3.3256	1.13370	0.00	------
10.11	Endrin aldehyde	1899	1.8122e-03	1	10	0.03007	0.998	3.3256	0.60266	0.00	------
10.48	Endosulfan sulfate	0	0.00000000	1	10	0.03007	0.998	---------	0.00000	--------	------
10.80	Methoxychlor	2592	4.0951e-03	1	10	0.03007	0.998	16.6279	1.36186	0.00	------
11.12	Endrin ketone	3512	2.4659e-03	1	10	0.03007	0.998	3.3256	0.82006	0.00	------
12.41	Decachlorobiphenyl	80667	0.06539428	1	10	0.03007	0.998	3.3256	21.74735	39.91	54.5

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L67

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293012

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21150608A018,21150608B018

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/08/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.058	JP
319-85-7	beta-BHC	0.33	JBP
319-86-8	delta-BHC	0.32	JBP
58-89-9	gamma-BHC (Lindane)	0.27	JP
76-44-8	Heptachlor	3.1	B
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	8.0	
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	2.7	JBP
72-55-9	4,4'-DDE	3.9	P
72-20-8	Endrin	0.96	JP
33213-65-9	Endosulfan II	0.29	JBP
72-54-8	4,4'-DDD	8.5	P
1031-07-8	Endosulfan sulfate	0.19	JP
50-29-3	4,4'-DDT	10.	P
72-43-5	Methoxychlor	0.37	JP
53494-70-5	Endrin ketone	1.4	JBP
7421-93-4	Endrin aldehyde	1.5	JBP
5103-71-9	alpha-Chlordane	9.5	P
5103-74-2	gamma-Chlordane	16.	BP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:16:56
Operator	: sagers	Sample Name	: 1514293012
Sample Number	: 018	Study	: F9L67
AutoSampler	: HP7673A	Rack/Vial	: 0/18
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 19:46:41	Dilution Factor	: 1.00
		Cycle	: 2

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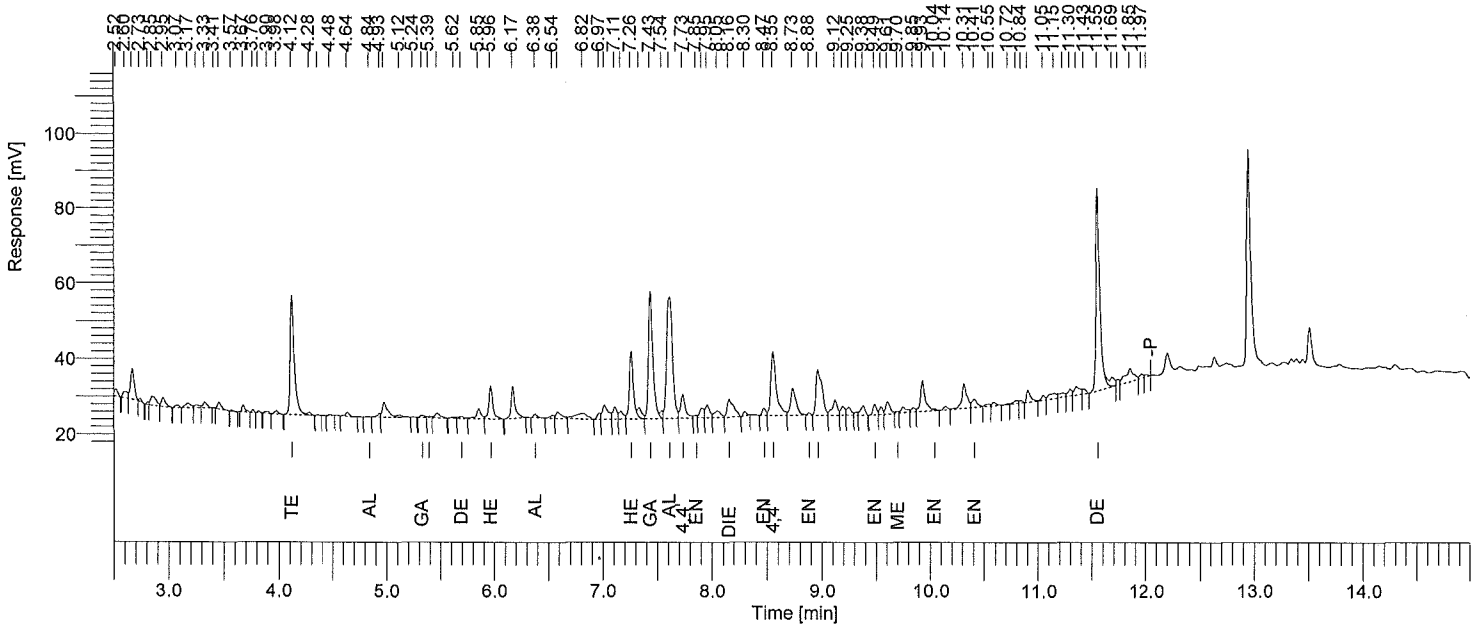

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.12	Tetrachloro-m-xylene	82971	0.03671011	1	10	0.03000	1.000	1.6667	12.23670	20.00	61.2
4.84	alpha-BHC	418	1.4786e-04	1	10	0.03000	1.000	1.6667	0.04929	0.00	------
5.32	gamma-BHC	1784	6.8579e-04	1	10	0.03000	1.000	1.6667	0.22860	0.00	------
5.39	beta-BHC	1141	8.3190e-04	1	10	0.03000	1.000	1.6667	0.27730	0.00	------
5.69	delta-BHC	2004	8.2620e-04	1	10	0.03000	1.000	1.6667	0.27540	0.00	------
5.96	Heptachlor	23075	8.3563e-03	1	10	0.03000	1.000	1.6667	2.78544	0.00	------
6.38	Aldrin	2386	9.9846e-04	1	10	0.03000	1.000	1.6667	0.33282	0.00	------
7.26	Heptachlor epoxide	46588	0.02054373	1	10	0.03000	1.000	1.6667	6.84791	0.00	------
7.43	gamma-Chlordane	96254	0.04065423	1	10	0.03000	1.000	1.6667	13.55141	0.00	------
7.61	alpha-Chlordane	120618	0.05160400	1	10	0.03000	1.000	1.6667	17.20133	0.00	------
7.73	4,4'-DDE	18987	0.01004936	1	10	0.03000	1.000	3.3333	3.34979	0.00	------
7.85	Endosulfan I	1518	6.6093e-04	1	10	0.03000	1.000	1.6667	0.22031	0.00	------
8.16	Dieldrin	19975	9.6864e-03	1	10	0.03000	1.000	3.3333	3.22879	0.00	------
8.47	Endrin	4296	2.4668e-03	1	10	0.03000	1.000	3.3333	0.82228	0.00	------
8.55	4,4'-DDD	59153	0.03616029	1	10	0.03000	1.000	3.3333	12.05343	0.00	------
8.88	Endosulfan II	1352	7.4673e-04	1	10	0.03000	1.000	3.3333	0.24891	0.00	------
8.96	4,4'-DDT	47107	0.02595126	1	10	0.03000	1.000	3.3333	8.65042	0.00	------
9.49	Endrin aldehyde	6003	3.8587e-03	1	10	0.03000	1.000	3.3333	1.28623	0.00	------
9.70	Methoxychlor	894	9.5389e-04	1	10	0.03000	1.000	16.6667	0.31796	0.00	------
10.04	Endosulfan sulfate	760	4.7377e-04	1	10	0.03000	1.000	3.3333	0.15792	0.00	------
10.41	Endrin ketone	7863	3.6701e-03	1	10	0.03000	1.000	3.3333	1.22336	0.00	------
11.55	Decachlorobiphenyl	135989	0.07400738	1	10	0.03000	1.000	3.3333	24.66913	40.00	61.7

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:50
Operator	: sagers	Sample Name	: 1514293012
Sample Number	: 018	Study	: F9L67
AutoSampler	: HP7673A	Rack/Vial	: 0/18
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 20:07:19	Dilution Factor	: 1.00
		Cycle	: 3

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_018.raw <Modified>
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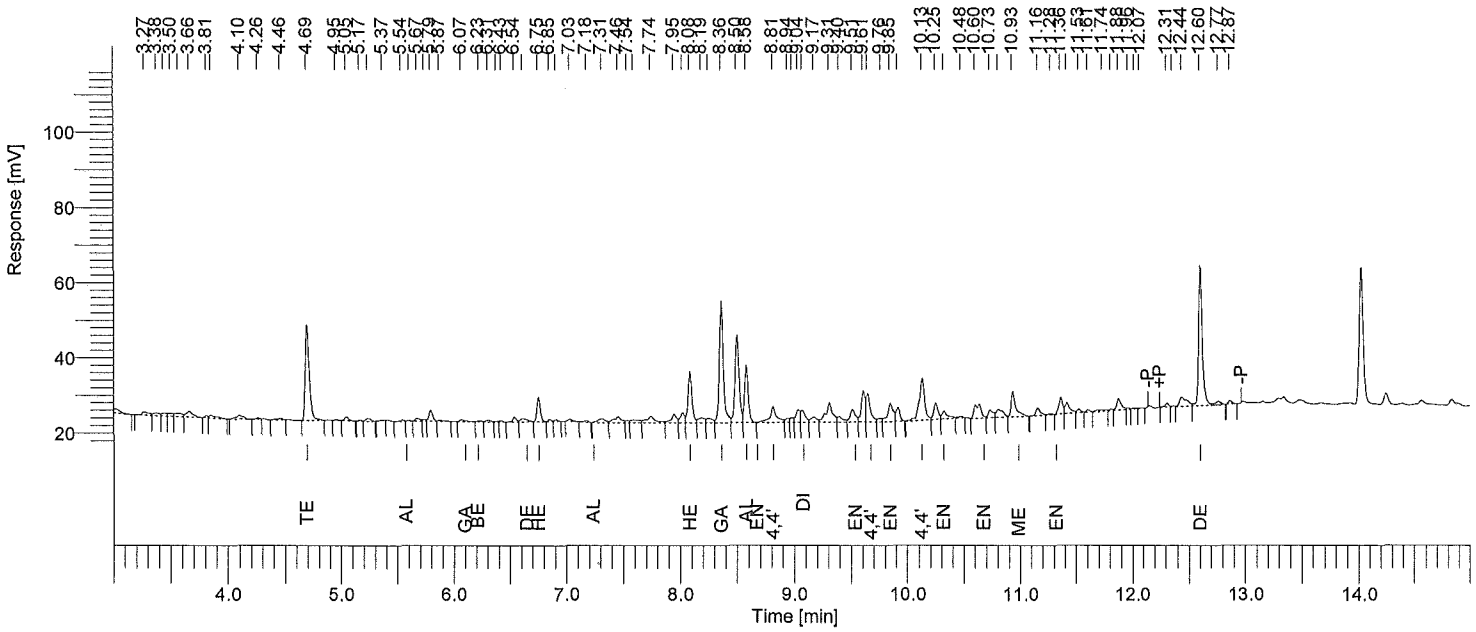

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.69	Tetrachloro-m-xylene	64204	0.04298898	1	10	0.03000	1.000	1.6667	14.32966	20.00	71.6
5.61	alpha-BHC	485	2.7319e-04	1	10	0.03000	1.000	1.6667	0.09106	0.00	------
6.07	gamma-BHC	1817	1.1220e-03	1	10	0.03000	1.000	1.6667	0.37400	0.00	------
6.23	beta-BHC	971	1.1369e-03	1	10	0.03000	1.000	1.6667	0.37897	0.00	------
6.61	delta-BHC	3923	2.7759e-03	1	10	0.03000	1.000	1.6667	0.92529	0.00	------
6.75	Heptachlor	13378	8.0157e-03	1	10	0.03000	1.000	1.6667	2.67189	0.00	------
7.24	Aldrin	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
8.08	Heptachlor epoxide	32504	0.02415876	1	10	0.03000	1.000	1.6667	8.05292	0.00	------
8.36	gamma-Chlordane	78748	0.05673484	1	10	0.03000	1.000	1.6667	18.91161	0.00	------
8.58	alpha-Chlordane	33543	0.02433519	1	10	0.03000	1.000	1.6667	8.11173	0.00	------
8.67	Endosulfan I	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
8.81	4,4'-DDE	16448	0.01386733	1	10	0.03000	1.000	3.3333	4.62244	0.00	------
9.07	Dieldrin	8507	6.7765e-03	1	10	0.03000	1.000	3.3333	2.25883	0.00	------
9.51	Endrin	10461	0.01034282	1	10	0.03000	1.000	3.3333	3.44761	0.00	------
9.65	4,4'-DDD	20347	0.02161488	1	10	0.03000	1.000	3.3333	7.20496	0.00	------
9.85	Endosulfan II	16657	0.01580295	1	10	0.03000	1.000	3.3333	5.26765	0.00	------
10.13	4,4'-DDT	36548	0.03534604	1	10	0.03000	1.000	3.3333	11.78201	0.00	------
10.32	Endrin aldehyde	7307	8.5836e-03	1	10	0.03000	1.000	3.3333	2.86121	0.00	------
10.73	Endosulfan sulfate	5996	6.7212e-03	1	10	0.03000	1.000	3.3333	2.24040	0.00	------
10.93	Methoxychlor	19662	0.03703559	1	10	0.03000	1.000	16.6667	12.34520	0.00	------
11.36	Endrin ketone	10499	8.6973e-03	1	10	0.03000	1.000	3.3333	2.89912	0.00	------
12.60	Decachlorobiphenyl	87361	0.08219045	1	10	0.03000	1.000	3.3333	27.39682	40.00	68.5

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L68

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293013

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 21150608A019,21150608B019

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/08/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.044	JP
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	0.072	JBP
58-89-9	gamma-BHC (Lindane)	0.11	JP
76-44-8	Heptachlor	0.38	JBP
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	9.9	
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	1.3	JBP
72-55-9	4,4'-DDE	1.6	JP
72-20-8	Endrin	1.6	J
33213-65-9	Endosulfan II	0.28	JBP
72-54-8	4,4'-DDD	5.4	
1031-07-8	Endosulfan sulfate	0.30	JP
50-29-3	4,4'-DDT	1.6	JP
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	0.90	JBP
7421-93-4	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	8.8	P
5103-74-2	gamma-Chlordane	13.	BP
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:16:58
Operator	: sagers	Sample Name	: 1514293013
Sample Number	: 019	Study	: F9L68
AutoSampler	: HP7673A	Rack/Vial	: 0/19
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 20:07:19	Dilution Factor	: 1.00
		Cycle	: 3

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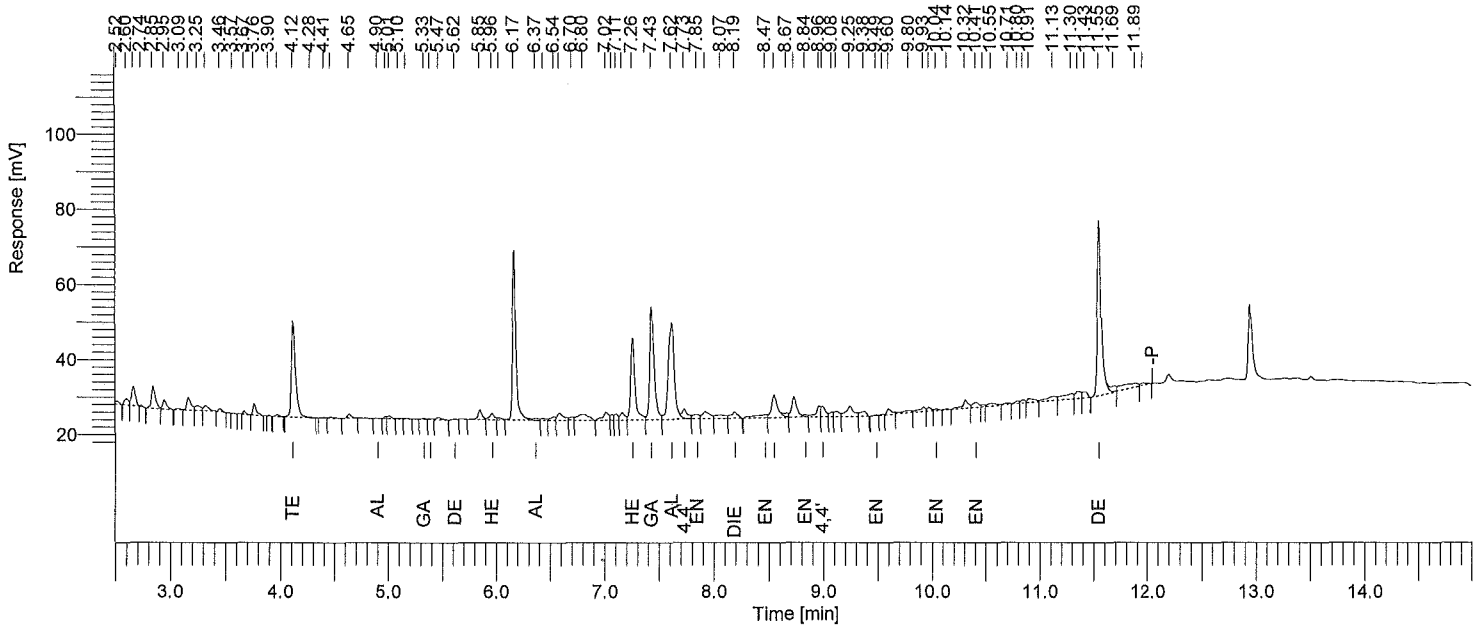

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.12	Tetrachloro-m-xylene	66735	0.02952675	1	10	0.03041	0.987	1.6442	9.70955	19.73	49.2
4.90	alpha-BHC	496	1.7575e-04	1	10	0.03041	0.987	1.6442	0.05779	0.00	------
5.33	gamma-BHC	749	2.8809e-04	1	10	0.03041	0.987	1.6442	0.09474	0.00	------
5.39	beta-BHC	746	5.4422e-04	1	10	0.03041	0.987	1.6442	0.17896	0.00	------
5.62	delta-BHC	470	1.9376e-04	1	10	0.03041	0.987	1.6442	0.06371	0.00	------
5.96	Heptachlor	5447	1.9725e-03	1	10	0.03041	0.987	1.6442	0.64864	0.00	------
6.37	Aldrin	3002	1.2564e-03	1	10	0.03041	0.987	1.6442	0.41315	0.00	------
7.26	Heptachlor epoxide	60573	0.02671037	1	10	0.03041	0.987	1.6442	8.78342	0.00	------
7.43	gamma-Chlordane	85395	0.03606762	1	10	0.03041	0.987	1.6442	11.86045	0.00	------
7.62	alpha-Chlordane	99121	0.04240688	1	10	0.03041	0.987	1.6442	13.94504	0.00	------
7.73	4,4'-DDE	8183	4.3310e-03	1	10	0.03041	0.987	3.2884	1.42421	0.00	------
7.85	Endosulfan I	4852	2.1125e-03	1	10	0.03041	0.987	1.6442	0.69469	0.00	------
8.19	Dieldrin	7232	3.5070e-03	1	10	0.03041	0.987	3.2884	1.15323	0.00	------
8.47	Endrin	7676	4.4073e-03	1	10	0.03041	0.987	3.2884	1.44929	0.00	------
8.55	4,4'-DDD	23765	0.01452740	1	10	0.03041	0.987	3.2884	4.77718	0.00	------
8.84	Endosulfan II	1363	7.5260e-04	1	10	0.03041	0.987	3.2884	0.24748	0.00	------
8.99	4,4'-DDT	7843	4.3209e-03	1	10	0.03041	0.987	3.2884	1.42087	0.00	------
9.49	Endrin aldehyde	633	4.0668e-04	1	10	0.03041	0.987	3.2884	0.13373	0.00	------
9.70	Methoxychlor	0	0.00000000	1	10	0.03041	0.987	----------	0.00000	--------	------
10.04	Endosulfan sulfate	1294	8.0695e-04	1	10	0.03041	0.987	3.2884	0.26536	0.00	------
10.41	Endrin ketone	5189	2.4221e-03	1	10	0.03041	0.987	3.2884	0.79647	0.00	------
11.55	Decachlorobiphenyl	119483	0.06502459	1	10	0.03041	0.987	3.2884	21.38263	39.46	54.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:52
Operator	: sagers	Sample Name	: 1514293013
Sample Number	: 019	Study	: F9L68
AutoSampler	: HP7673A	Rack/Vial	: 0/19
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 20:27:44	Dilution Factor	: 1.00
		Cycle	: 4

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_019.raw <Modified>
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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150608\21_RPT_2UL\21_som_soil_sample_b.rpt
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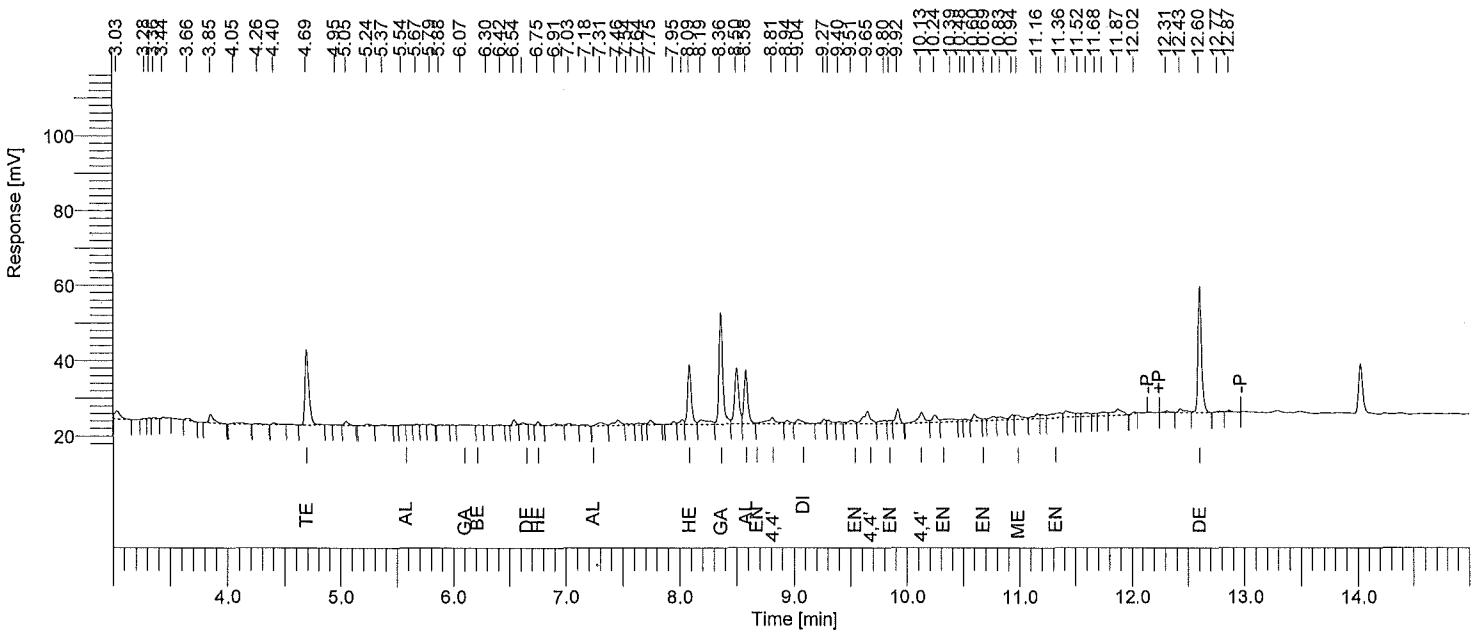

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.69	Tetrachloro-m-xylene	49038	0.03283478	1	10	0.03041	0.987	1.6442	10.79736	19.73	54.7
5.54	alpha-BHC	212	1.1923e-04	1	10	0.03041	0.987	1.6442	0.03921	0.00	------
6.07	gamma-BHC	1012	6.2520e-04	1	10	0.03041	0.987	1.6442	0.20559	0.00	------
6.21	beta-BHC	0	0.00000000	1	10	0.03041	0.987	---------	0.00000	--------	------
6.61	delta-BHC	1416	1.0022e-03	1	10	0.03041	0.987	1.6442	0.32958	0.00	------
6.75	Heptachlor	1721	1.0312e-03	1	10	0.03041	0.987	1.6442	0.33911	0.00	------
7.24	Aldrin	0	0.00000000	1	10	0.03041	0.987	---------	0.00000	--------	------
8.09	Heptachlor epoxide	36188	0.02689687	1	10	0.03041	0.987	1.6442	8.84474	0.00	------
8.36	gamma-Chlordane	69013	0.04972106	1	10	0.03041	0.987	1.6442	16.35023	0.00	------
8.58	alpha-Chlordane	32912	0.02387714	1	10	0.03041	0.987	1.6442	7.85174	0.00	------
8.67	Endosulfan I	0	0.00000000	1	10	0.03041	0.987	---------	0.00000	--------	------
8.81	4,4'-DDE	9927	8.3695e-03	1	10	0.03041	0.987	3.2884	2.75222	0.00	------
9.04	Dieldrin	5593	4.4555e-03	1	10	0.03041	0.987	3.2884	1.46516	0.00	------
9.51	Endrin	4615	4.5634e-03	1	10	0.03041	0.987	3.2884	1.50061	0.00	------
9.65	4,4'-DDD	15294	0.01624702	1	10	0.03041	0.987	3.2884	5.34266	0.00	------
9.85	Endosulfan II	2640	2.5045e-03	1	10	0.03041	0.987	3.2884	0.82358	0.00	------
10.13	4,4'-DDT	11430	0.01105378	1	10	0.03041	0.987	3.2884	3.63492	0.00	------
10.32	Endrin aldehyde	0	0.00000000	1	10	0.03041	0.987	---------	0.00000	--------	------
10.69	Endosulfan sulfate	1130	1.2669e-03	1	10	0.03041	0.987	3.2884	0.41660	0.00	------
10.98	Methoxychlor	5748	0.01082756	1	10	0.03041	0.987	16.4420	3.56052	0.00	------
11.36	Endrin ketone	9342	7.7382e-03	1	10	0.03041	0.987	3.2884	2.54462	0.00	------
12.60	Decachlorobiphenyl	74776	0.07035014	1	10	0.03041	0.987	3.2884	23.13388	39.46	58.6

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L69

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293014

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 21150608A020,21150608B020

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/08/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	0.25	JBP
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	0.072	JBP
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.1	JP
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.22	JBP
72-55-9	4,4'-DDE	0.13	JP
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	0.75	JP
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	1.3	J
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	0.13	JBP
7421-93-4	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	0.077	JP
5103-74-2	gamma-Chlordane	0.34	JBP
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:17:00
Operator	: sagers	Sample Name	: 1514293014
Sample Number	: 020	Study	: F9L69
AutoSampler	: HP7673A	Rack/Vial	: 0/20
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/08/2015 20:27:44	Cycle	: 4

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_020.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_020.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150608\21_RPT_2UL\21_som_soil_sample_a.rpt
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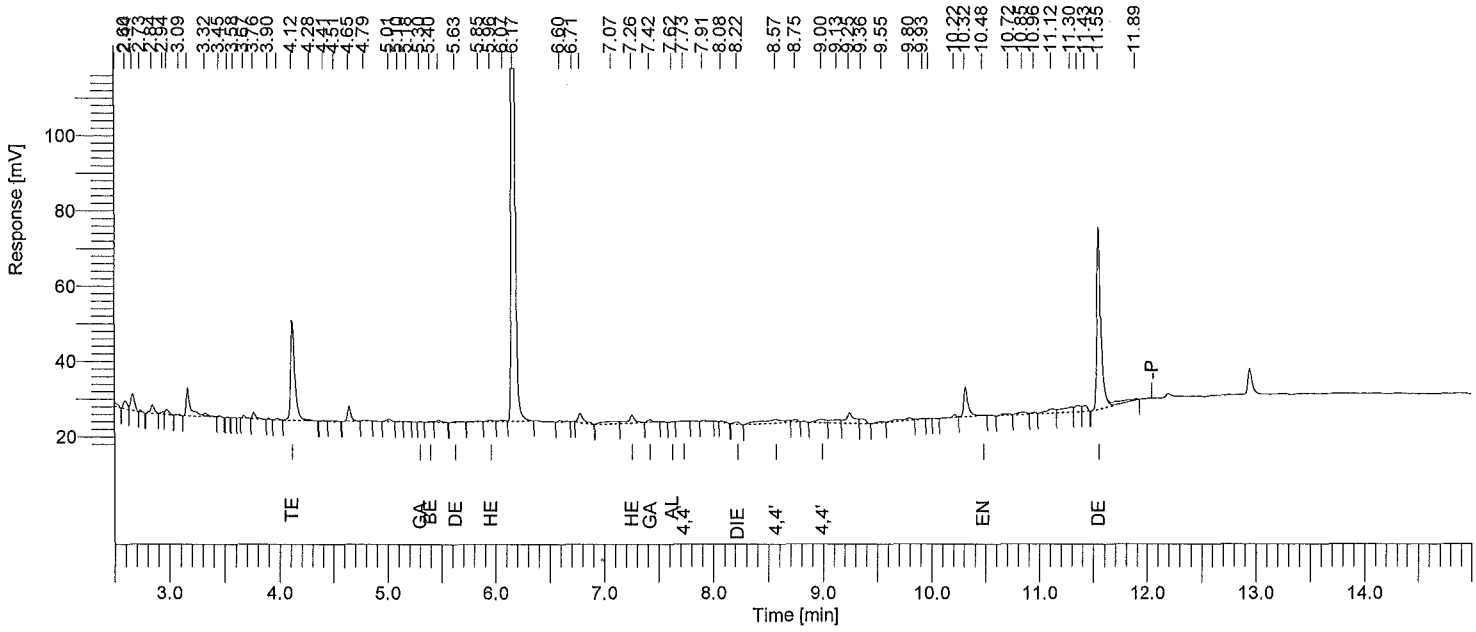

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.12	Tetrachloro-m-xylene	70109	0.03101966	1	10	0.03021	0.993	1.6551	10.26801	19.86	51.7
4.87	alpha-BHC	0	0.00000000	1	10	0.03021	0.993	----------	0.00000	--------	------
5.30	gamma-BHC	247	9.4944e-05	1	10	0.03021	0.993	1.6551	0.03143	0.00	------
5.40	beta-BHC	659	4.8046e-04	1	10	0.03021	0.993	1.6551	0.15904	0.00	------
5.63	delta-BHC	1608	6.6299e-04	1	10	0.03021	0.993	1.6551	0.21946	0.00	------
5.96	Heptachlor	1661	6.0137e-04	1	10	0.03021	0.993	1.6551	0.19906	0.00	------
6.39	Aldrin	0	0.00000000	1	10	0.03021	0.993	----------	0.00000	--------	------
7.26	Heptachlor epoxide	8994	3.9661e-03	1	10	0.03021	0.993	1.6551	1.31285	0.00	------
7.42	gamma-Chlordane	2141	9.0418e-04	1	10	0.03021	0.993	1.6551	0.29930	0.00	------
7.62	alpha-Chlordane	480	2.0549e-04	1	10	0.03021	0.993	1.6551	0.06802	0.00	------
7.73	4,4'-DDE	638	3.3750e-04	1	10	0.03021	0.993	3.3102	0.11172	0.00	------
7.82	Endosulfan I	0	0.00000000	1	10	0.03021	0.993	----------	0.00000	--------	------
8.22	Dieldrin	2128	1.0321e-03	1	10	0.03021	0.993	3.3102	0.34163	0.00	------
8.51	Endrin	0	0.00000000	1	10	0.03021	0.993	----------	0.00000	--------	------
8.57	4,4'-DDD	16031	9.7995e-03	1	10	0.03021	0.993	3.3102	3.24381	0.00	------
8.83	Endosulfan II	0	0.00000000	1	10	0.03021	0.993	----------	0.00000	--------	------
9.00	4,4'-DDT	6400	3.5256e-03	1	10	0.03021	0.993	3.3102	1.16701	0.00	------
9.45	Endrin aldehyde	0	0.00000000	1	10	0.03021	0.993	----------	0.00000	--------	------
9.70	Methoxychlor	0	0.00000000	1	10	0.03021	0.993	----------	0.00000	--------	------
10.07	Endosulfan sulfate	0	0.00000000	1	10	0.03021	0.993	----------	0.00000	--------	------
10.48	Endrin ketone	743	3.4694e-04	1	10	0.03021	0.993	3.3102	0.11484	0.00	------
11.55	Decachlorobiphenyl	123479	0.06719935	1	10	0.03021	0.993	3.3102	22.24408	39.72	56.0

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:54
Operator	: sagers	Sample Name	: 1514293014
Sample Number	: 020	Study	: F9L69
AutoSampler	: HP7673A	Rack/Vial	: 0/20
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 20:48:22	Dilution Factor	: 1.00
		Cycle	: 5

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_020.raw <Modified>
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_020.rst
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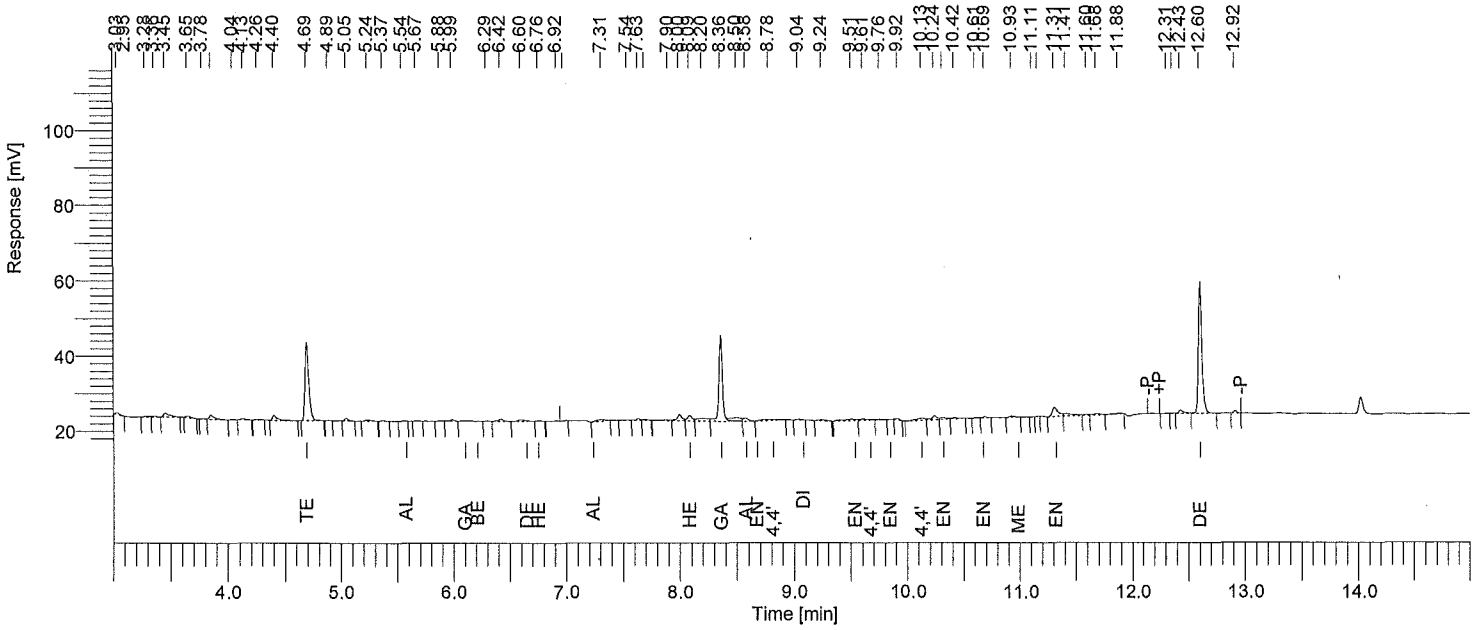
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150608\21_RPT_2UL\21_som_soil_sample_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608_SOM012_PEST_F9L58_F9L53_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.69	Tetrachloro-m-xylene	49977	0.03346293	1	10	0.03021	0.993	1.6551	11.07677	19.86	55.8
5.54	alpha-BHC	245	1.3805e-04	1	10	0.03021	0.993	1.6551	0.04570	0.00	------
6.10	gamma-BHC	0	0.00000000	1	10	0.03021	0.993	---------	0.00000	--------	------
6.21	beta-BHC	0	0.00000000	1	10	0.03021	0.993	---------	0.00000	--------	------
6.60	delta-BHC	1966	1.3913e-03	1	10	0.03021	0.993	1.6551	0.46055	0.00	------
6.76	Heptachlor	322	1.9314e-04	1	10	0.03021	0.993	1.6551	0.06393	0.00	------
7.24	Aldrin	0	0.00000000	1	10	0.03021	0.993	---------	0.00000	--------	------
8.09	Heptachlor epoxide	4078	3.0312e-03	1	10	0.03021	0.993	1.6551	1.00339	0.00	------
8.36	gamma-Chlordane	49457	0.03563235	1	10	0.03021	0.993	1.6551	11.79488	0.00	------
8.58	alpha-Chlordane	2460	1.7846e-03	1	10	0.03021	0.993	1.6551	0.59072	0.00	------
8.67	Endosulfan I	0	0.00000000	1	10	0.03021	0.993	---------	0.00000	--------	------
8.78	4,4'-DDE	3238	2.7297e-03	1	10	0.03021	0.993	3.3102	0.90359	0.00	------
9.04	Dieldrin	737	5.8711e-04	1	10	0.03021	0.993	3.3102	0.19434	0.00	------
9.51	Endrin	3829	3.7862e-03	1	10	0.03021	0.993	3.3102	1.25329	0.00	------
9.61	4,4'-DDD	1875	1.9919e-03	1	10	0.03021	0.993	3.3102	0.65934	0.00	------
9.92	Endosulfan II	828	7.8513e-04	1	10	0.03021	0.993	3.3102	0.25989	0.00	------
10.13	4,4'-DDT	3474	3.3601e-03	1	10	0.03021	0.993	3.3102	1.11226	0.00	------
10.31	Endrin aldehyde	1919	2.2541e-03	1	10	0.03021	0.993	3.3102	0.74616	0.00	------
10.69	Endosulfan sulfate	680	7.6219e-04	1	10	0.03021	0.993	3.3102	0.25230	0.00	------
10.93	Methoxychlor	963	1.8143e-03	1	10	0.03021	0.993	16.5508	0.60057	0.00	------
11.31	Endrin ketone	9070	7.5133e-03	1	10	0.03021	0.993	3.3102	2.48703	0.00	------
12.60	Decachlorobiphenyl	78157	0.07353084	1	10	0.03021	0.993	3.3102	24.33990	39.72	61.3

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L70

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293015

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 21150608A021,21150608B021

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/08/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	0.16	JBP
319-86-8	delta-BHC	0.44	JBP
58-89-9	gamma-BHC (Lindane)	0.10	JP
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	0.71	JP
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.41	JBP
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	0.87	JP
33213-65-9	Endosulfan II	0.12	JBP
72-54-8	4,4'-DDD	0.30	JP
1031-07-8	Endosulfan sulfate	0.28	JP
50-29-3	4,4'-DDT	2.5	J
72-43-5	Methoxychlor	1.4	JP
53494-70-5	Endrin ketone	3.7	U
7421-93-4	Endrin aldehyde	0.43	JB
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	0.52	JBP
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:17:03
Operator	: sagers	Sample Name	: 1514293015
Sample Number	: 021	Study	: F9L70
AutoSampler	: HP7673A	Rack/Vial	: 0/21
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/08/2015 20:48:22	Cycle	: 5

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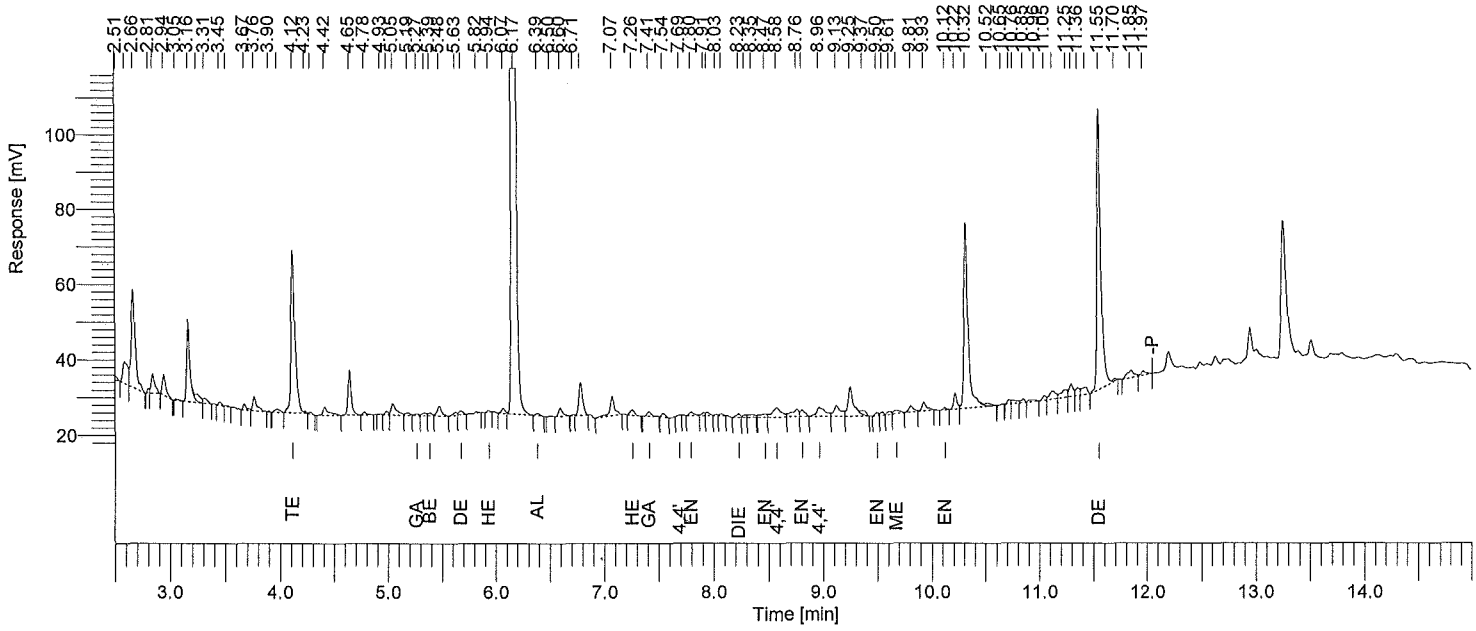

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.12	Tetrachloro-m-xylene	111635	0.04939267	1	10	0.03024	0.992	1.6534	16.33355	19.84	82.3
4.87	alpha-BHC	0	0.00000000	1	10	0.03024	0.992	----------	0.00000	--------	------
5.27	gamma-BHC	1338	5.1443e-04	1	10	0.03024	0.992	1.6534	0.17012	0.00	------
5.39	beta-BHC	1853	1.3513e-03	1	10	0.03024	0.992	1.6534	0.44686	0.00	------
5.68	delta-BHC	2882	1.1880e-03	1	10	0.03024	0.992	1.6534	0.39284	0.00	------
5.94	Heptachlor	763	2.7632e-04	1	10	0.03024	0.992	1.6534	0.09137	0.00	------
6.39	Aldrin	1652	6.9154e-04	1	10	0.03024	0.992	1.6534	0.22869	0.00	------
7.26	Heptachlor epoxide	4377	1.9299e-03	1	10	0.03024	0.992	1.6534	0.63820	0.00	------
7.41	gamma-Chlordane	3333	1.4077e-03	1	10	0.03024	0.992	1.6534	0.46550	0.00	------
7.62	alpha-Chlordane	0	0.00000000	1	10	0.03024	0.992	----------	0.00000	--------	------
7.69	4,4'-DDE	368	1.9475e-04	1	10	0.03024	0.992	3.3069	0.06440	0.00	------
7.80	Endosulfan I	2818	1.2272e-03	1	10	0.03024	0.992	1.6534	0.40581	0.00	------
8.23	Dieldrin	2282	1.1067e-03	1	10	0.03024	0.992	3.3069	0.36599	0.00	------
8.47	Endrin	4081	2.3431e-03	1	10	0.03024	0.992	3.3069	0.77485	0.00	------
8.58	4,4'-DDD	14448	8.8324e-03	1	10	0.03024	0.992	3.3069	2.92078	0.00	------
8.81	Endosulfan II	5175	2.8575e-03	1	10	0.03024	0.992	3.3069	0.94494	0.00	------
8.96	4,4'-DDT	13522	7.4495e-03	1	10	0.03024	0.992	3.3069	2.46346	0.00	------
9.50	Endrin aldehyde	1813	1.1651e-03	1	10	0.03024	0.992	3.3069	0.38528	0.00	------
9.68	Methoxychlor	3646	3.8895e-03	1	10	0.03024	0.992	16.5344	1.28620	0.00	------
10.12	Endosulfan sulfate	1221	7.6139e-04	1	10	0.03024	0.992	3.3069	0.25178	0.00	------
10.44	Endrin ketone	0	0.00000000	1	10	0.03024	0.992	----------	0.00000	--------	------
11.55	Decachlorobiphenyl	187849	0.10223067	1	10	0.03024	0.992	3.3069	33.80644	39.68	85.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:57
Operator	: sagers	Sample Name	: 1514293015
Sample Number	: 021	Study	: F9L70
AutoSampler	: HP7673A	Rack/Vial	: 0/21
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 21:08:50	Dilution Factor	: 1.00
		Cycle	: 6

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_021.raw <Modified>
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_021.rst
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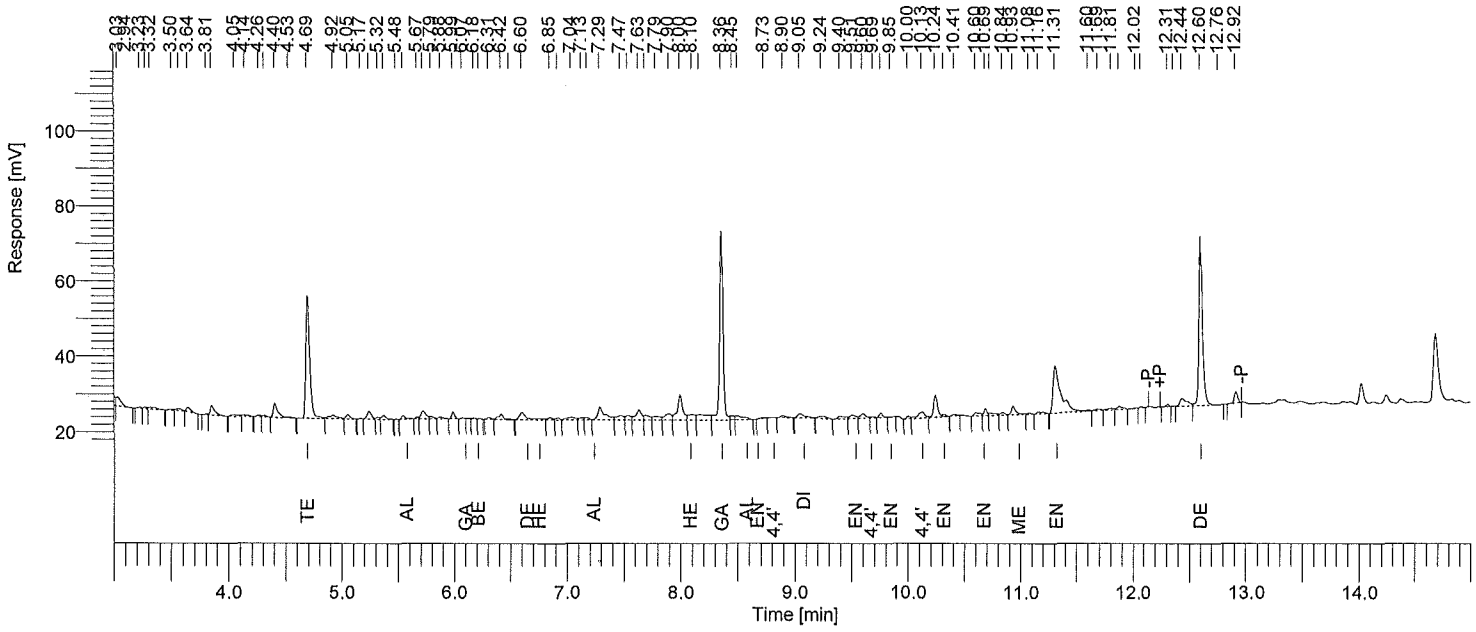

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.69	Tetrachloro-m-xylene	78746	0.05272649	1	10	0.03024	0.992	1.6534	17.43601	19.84	87.9
5.54	alpha-BHC	2380	1.3402e-03	1	10	0.03024	0.992	1.6534	0.44318	0.00	------
6.07	gamma-BHC	449	2.7717e-04	1	10	0.03024	0.992	1.6534	0.09166	0.00	------
6.22	beta-BHC	361	4.2243e-04	1	10	0.03024	0.992	1.6534	0.13969	0.00	------
6.60	delta-BHC	9257	6.5507e-03	1	10	0.03024	0.992	1.6534	2.16622	0.00	------
6.75	Heptachlor	0	0.00000000	1	10	0.03024	0.992	---------	0.00000	--------	------
7.24	Aldrin	0	0.00000000	1	10	0.03024	0.992	---------	0.00000	--------	------
8.10	Heptachlor epoxide	6213	4.6179e-03	1	10	0.03024	0.992	1.6534	1.52708	0.00	------
8.36	gamma-Chlordane	105671	0.07613206	1	10	0.03024	0.992	1.6534	25.17594	0.00	------
8.58	alpha-Chlordane	0	0.00000000	1	10	0.03024	0.992	---------	0.00000	--------	------
8.67	Endosulfan I	0	0.00000000	1	10	0.03024	0.992	---------	0.00000	--------	------
8.81	4,4'-DDE	0	0.00000000	1	10	0.03024	0.992	---------	0.00000	--------	------
9.05	Dieldrin	4802	3.8256e-03	1	10	0.03024	0.992	3.3069	1.26507	0.00	------
9.51	Endrin	3619	3.5786e-03	1	10	0.03024	0.992	3.3069	1.18340	0.00	------
9.69	4,4'-DDD	763	8.1074e-04	1	10	0.03024	0.992	3.3069	0.26810	0.00	------
9.85	Endosulfan II	334	3.1713e-04	1	10	0.03024	0.992	3.3069	0.10487	0.00	------
10.13	4,4'-DDT	6869	6.6430e-03	1	10	0.03024	0.992	3.3069	2.19677	0.00	------
10.32	Endrin aldehyde	1137	1.3359e-03	1	10	0.03024	0.992	3.3069	0.44177	0.00	------
10.69	Endosulfan sulfate	3512	3.9374e-03	1	10	0.03024	0.992	3.3069	1.30205	0.00	------
10.93	Methoxychlor	6738	0.01269225	1	10	0.03024	0.992	16.5344	4.19717	0.00	------
11.31	Endrin ketone	59834	0.04956484	1	10	0.03024	0.992	3.3069	16.39049	0.00	------
12.60	Decachlorobiphenyl	102438	0.09637484	1	10	0.03024	0.992	3.3069	31.86999	39.68	80.3

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293016

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 21150608A022,21150608B022

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/08/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.057	JP
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	0.062	JP
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	0.35	JP
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.31	JB
72-55-9	4,4'-DDE	0.63	J
72-20-8	Endrin	1.3	J
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	0.21	JP
50-29-3	4,4'-DDT	1.1	J
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	0.96	JBP
7421-93-4	Endrin aldehyde	0.99	JB
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.23	JBP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:17:05
Operator	: sagers	Sample Name	: 1514293016
Sample Number	: 022	Study	: F9L71
AutoSampler	: HP7673A	Rack/Vial	: 0/22
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/08/2015 21:08:50	Cycle	: 6

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Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_022.rst
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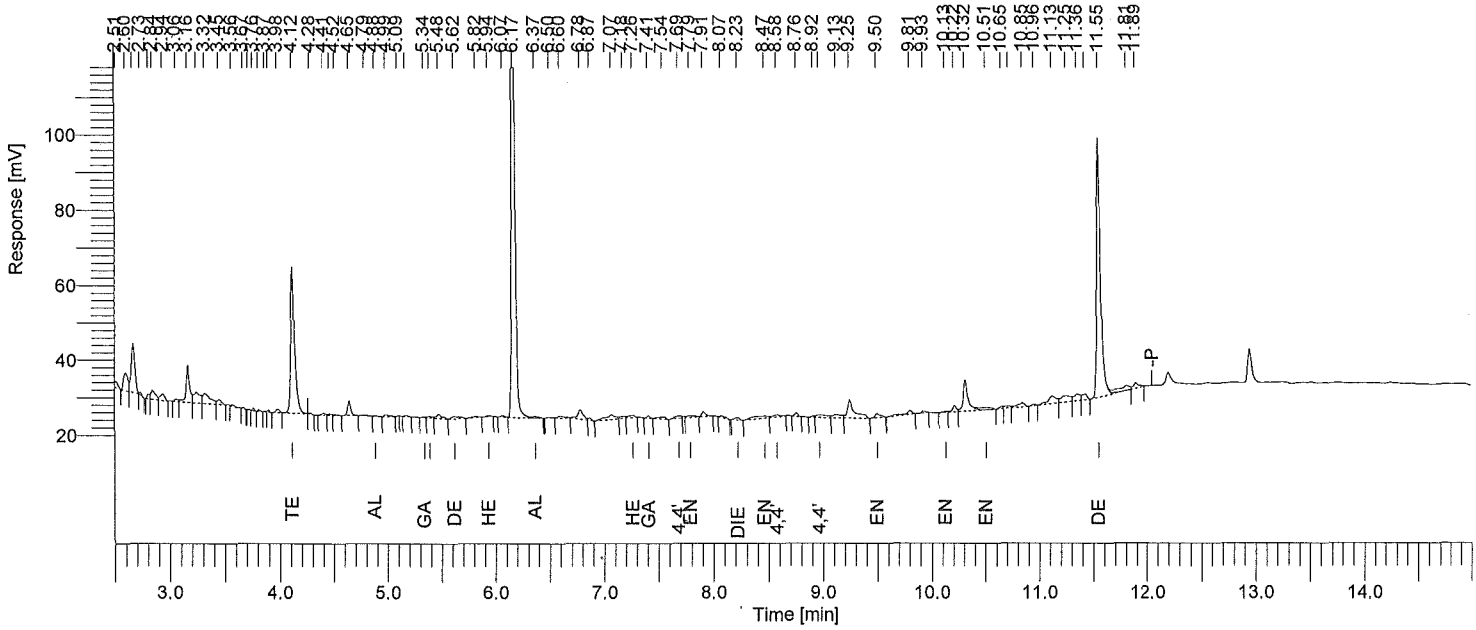

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.12	Tetrachloro-m-xylene	99317	0.04394263	1	10	0.03031	0.990	1.6496	14.49773	19.80	73.2
4.88	alpha-BHC	418	1.4790e-04	1	10	0.03031	0.990	1.6496	0.04879	0.00	------
5.34	gamma-BHC	418	1.6061e-04	1	10	0.03031	0.990	1.6496	0.05299	0.00	------
5.39	beta-BHC	1328	9.6852e-04	1	10	0.03031	0.990	1.6496	0.31954	0.00	------
5.62	delta-BHC	3791	1.5628e-03	1	10	0.03031	0.990	1.6496	0.51561	0.00	------
5.94	Heptachlor	695	2.5151e-04	1	10	0.03031	0.990	1.6496	0.08298	0.00	------
6.37	Aldrin	2242	9.3830e-04	1	10	0.03031	0.990	1.6496	0.30957	0.00	------
7.26	Heptachlor epoxide	2665	1.1753e-03	1	10	0.03031	0.990	1.6496	0.38777	0.00	------
7.41	gamma-Chlordane	1411	5.9617e-04	1	10	0.03031	0.990	1.6496	0.19669	0.00	------
7.62	alpha-Chlordane	0	0.00000000	1	10	0.03031	0.990	----------	0.00000	--------	------
7.69	4,4'-DDE	3060	1.6196e-03	1	10	0.03031	0.990	3.2992	0.53435	0.00	------
7.79	Endosulfan I	2749	1.1970e-03	1	10	0.03031	0.990	1.6496	0.39491	0.00	------
8.23	Dieldrin	1901	9.2175e-04	1	10	0.03031	0.990	3.2992	0.30411	0.00	------
8.47	Endrin	6666	3.8278e-03	1	10	0.03031	0.990	3.2992	1.26288	0.00	------
8.58	4,4'-DDD	2782	1.7004e-03	1	10	0.03031	0.990	3.2992	0.56100	0.00	------
8.83	Endosulfan II	0	0.00000000	1	10	0.03031	0.990	----------	0.00000	--------	------
8.97	4,4'-DDT	5344	2.9440e-03	1	10	0.03031	0.990	3.2992	0.97131	0.00	------
9.50	Endrin aldehyde	3968	2.5505e-03	1	10	0.03031	0.990	3.2992	0.84146	0.00	------
9.70	Methoxychlor	0	0.00000000	1	10	0.03031	0.990	----------	0.00000	--------	------
10.13	Endosulfan sulfate	860	5.3619e-04	1	10	0.03031	0.990	3.2992	0.17690	0.00	------
10.51	Endrin ketone	5330	2.4879e-03	1	10	0.03031	0.990	3.2992	0.82083	0.00	------
11.55	Decachlorobiphenyl	172443	0.09384638	1	10	0.03031	0.990	3.2992	30.96218	39.59	78.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:59
Operator	: sagers	Sample Name	: 1514293016
Sample Number	: 022	Study	: F9L71
AutoSampler	: HP7673A	Rack/Vial	: 0/22
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 21:29:12	Dilution Factor	: 1.00
		Cycle	: 7

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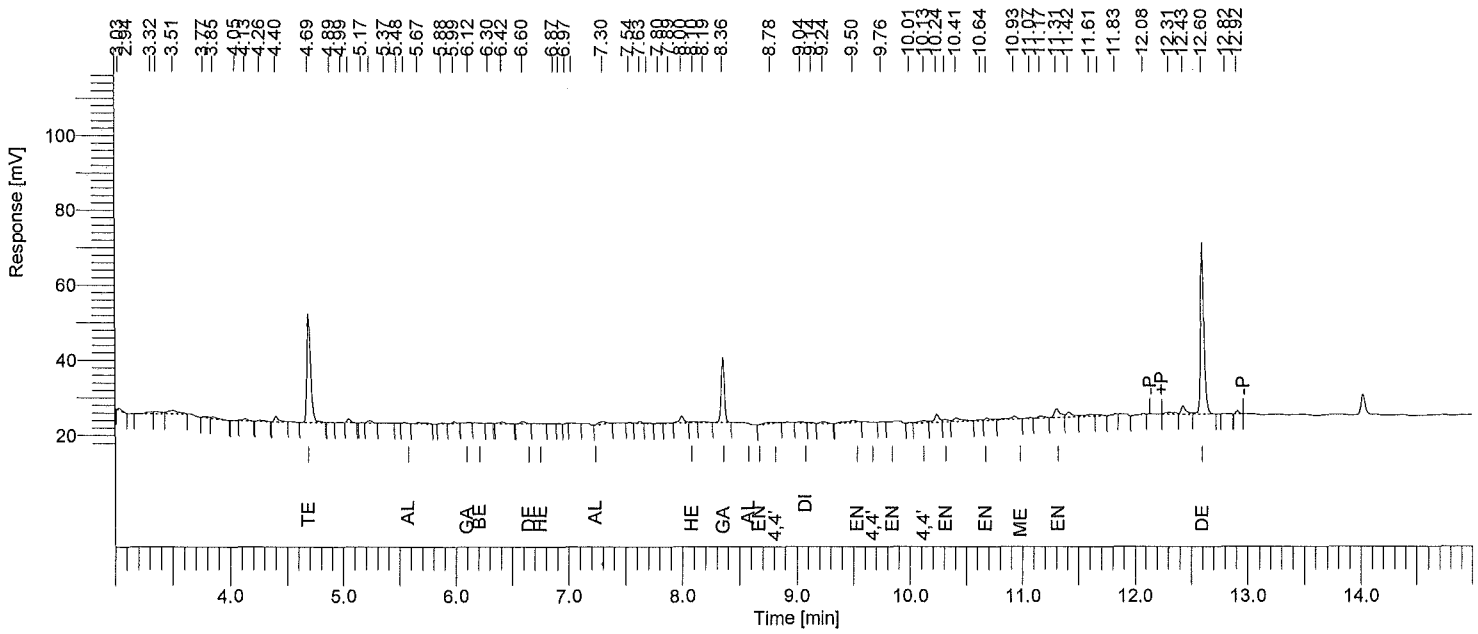

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.69	Tetrachloro-m-xylene	67738	0.04535525	1	10	0.03031	0.990	1.6496	14.96379	19.80	75.6
5.54	alpha-BHC	586	3.3003e-04	1	10	0.03031	0.990	1.6496	0.10888	0.00	------
6.12	gamma-BHC	411	2.5411e-04	1	10	0.03031	0.990	1.6496	0.08384	0.00	------
6.21	beta-BHC	0	0.00000000	1	10	0.03031	0.990	---------	0.00000	--------	------
6.65	delta-BHC	0	0.00000000	1	10	0.03031	0.990	---------	0.00000	--------	------
6.75	Heptachlor	0	0.00000000	1	10	0.03031	0.990	---------	0.00000	--------	------
7.24	Aldrin	0	0.00000000	1	10	0.03031	0.990	---------	0.00000	--------	------
8.10	Heptachlor epoxide	1207	8.9703e-04	1	10	0.03031	0.990	1.6496	0.29595	0.00	------
8.36	gamma-Chlordane	33651	0.02424444	1	10	0.03031	0.990	1.6496	7.99882	0.00	------
8.58	alpha-Chlordane	0	0.00000000	1	10	0.03031	0.990	---------	0.00000	--------	------
8.67	Endosulfan I	0	0.00000000	1	10	0.03031	0.990	---------	0.00000	--------	------
8.78	4,4'-DDE	2377	2.0045e-03	1	10	0.03031	0.990	3.2992	0.66133	0.00	------
9.04	Dieldrin	991	7.8904e-04	1	10	0.03031	0.990	3.2992	0.26032	0.00	------
9.50	Endrin	3432	3.3933e-03	1	10	0.03031	0.990	3.2992	1.11952	0.00	------
9.67	4,4'-DDD	0	0.00000000	1	10	0.03031	0.990	---------	0.00000	--------	------
9.85	Endosulfan II	0	0.00000000	1	10	0.03031	0.990	---------	0.00000	--------	------
10.13	4,4'-DDT	2937	2.8401e-03	1	10	0.03031	0.990	3.2992	0.93701	0.00	------
10.32	Endrin aldehyde	2508	2.9458e-03	1	10	0.03031	0.990	3.2992	0.97190	0.00	------
10.69	Endosulfan sulfate	2404	2.6947e-03	1	10	0.03031	0.990	3.2992	0.88905	0.00	------
10.93	Methoxychlor	3803	7.1633e-03	1	10	0.03031	0.990	16.4962	2.36336	0.00	------
11.31	Endrin ketone	8649	7.1646e-03	1	10	0.03031	0.990	3.2992	2.36376	0.00	------
12.60	Decachlorobiphenyl	101099	0.09511491	1	10	0.03031	0.990	3.2992	31.38070	39.59	79.3

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293017

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 21150608A023,21150608B023

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/08/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.040	JP
319-85-7	beta-BHC	0.23	JB
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	0.37	JP
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.17	JBP
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	0.074	JB
72-54-8	4,4'-DDD	0.063	JP
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	0.15	JP
72-43-5	Methoxychlor	0.14	JP
53494-70-5	Endrin ketone	0.13	JBP
7421-93-4	Endrin aldehyde	0.75	JB
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.21	JBP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:17:07
Operator	: sagers	Sample Name	: 1514293017
Sample Number	: 023	Study	: F9L72
AutoSampler	: HP7673A	Rack/Vial	: 0/23
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/08/2015 21:29:12	Cycle	: 7

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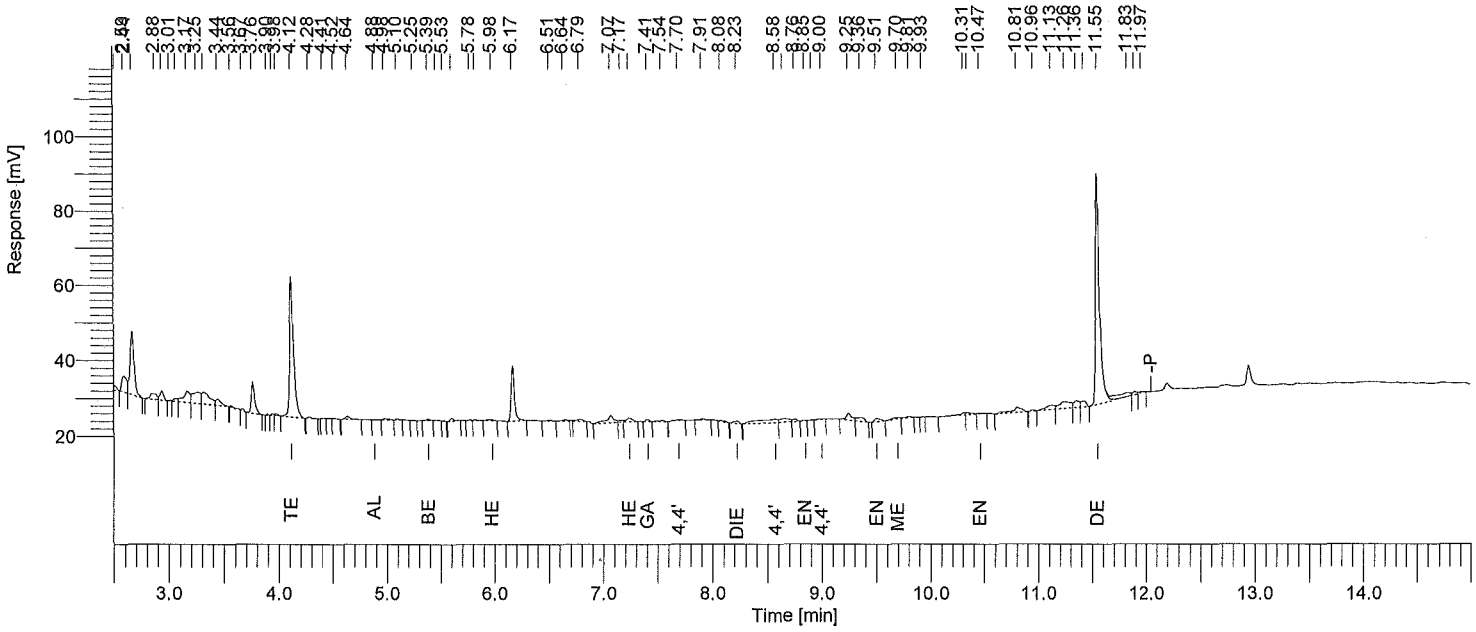

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.12	Tetrachloro-m-xylene	95353	0.04218869	1	10	0.03019	0.994	1.6562	13.97439	19.87	70.3
4.88	alpha-BHC	292	1.0325e-04	1	10	0.03019	0.994	1.6562	0.03420	0.00	------
5.30	gamma-BHC	0	0.00000000	1	10	0.03019	0.994	----------	0.00000	--------	------
5.39	beta-BHC	815	5.9437e-04	1	10	0.03019	0.994	1.6562	0.19688	0.00	------
5.67	delta-BHC	0	0.00000000	1	10	0.03019	0.994	----------	0.00000	--------	------
5.98	Heptachlor	1460	5.2883e-04	1	10	0.03019	0.994	1.6562	0.17517	0.00	------
6.39	Aldrin	0	0.00000000	1	10	0.03019	0.994	----------	0.00000	--------	------
7.24	Heptachlor epoxide	3973	1.7520e-03	1	10	0.03019	0.994	1.6562	0.58034	0.00	------
7.41	gamma-Chlordane	1264	5.3407e-04	1	10	0.03019	0.994	1.6562	0.17690	0.00	------
7.62	alpha-Chlordane	0	0.00000000	1	10	0.03019	0.994	----------	0.00000	--------	------
7.70	4,4'-DDE	893	4.7243e-04	1	10	0.03019	0.994	3.3124	0.15648	0.00	------
7.82	Endosulfan I	0	0.00000000	1	10	0.03019	0.994	----------	0.00000	--------	------
8.23	Dieldrin	2027	9.8291e-04	1	10	0.03019	0.994	3.3124	0.32557	0.00	------
8.51	Endrin	0	0.00000000	1	10	0.03019	0.994	----------	0.00000	--------	------
8.58	4,4'-DDD	13123	8.0224e-03	1	10	0.03019	0.994	3.3124	2.65731	0.00	------
8.85	Endosulfan II	424	2.3396e-04	1	10	0.03019	0.994	3.3124	0.07750	0.00	------
9.00	4,4'-DDT	722	3.9788e-04	1	10	0.03019	0.994	3.3124	0.13179	0.00	------
9.51	Endrin aldehyde	3292	2.1161e-03	1	10	0.03019	0.994	3.3124	0.70093	0.00	------
9.70	Methoxychlor	2436	2.5985e-03	1	10	0.03019	0.994	16.5618	0.86071	0.00	------
10.07	Endosulfan sulfate	0	0.00000000	1	10	0.03019	0.994	----------	0.00000	--------	------
10.47	Endrin ketone	706	3.2965e-04	1	10	0.03019	0.994	3.3124	0.10919	0.00	------
11.55	Decachlorobiphenyl	154538	0.08410248	1	10	0.03019	0.994	3.3124	27.85773	39.75	70.1

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:19:01
Operator	: sagers	Sample Name	: 1514293017
Sample Number	: 023	Study	: F9L72
AutoSampler	: HP7673A	Rack/Vial	: 0/23
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 21:49:36	Dilution Factor	: 1.00
		Cycle	: 8

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_023.raw <Modified>
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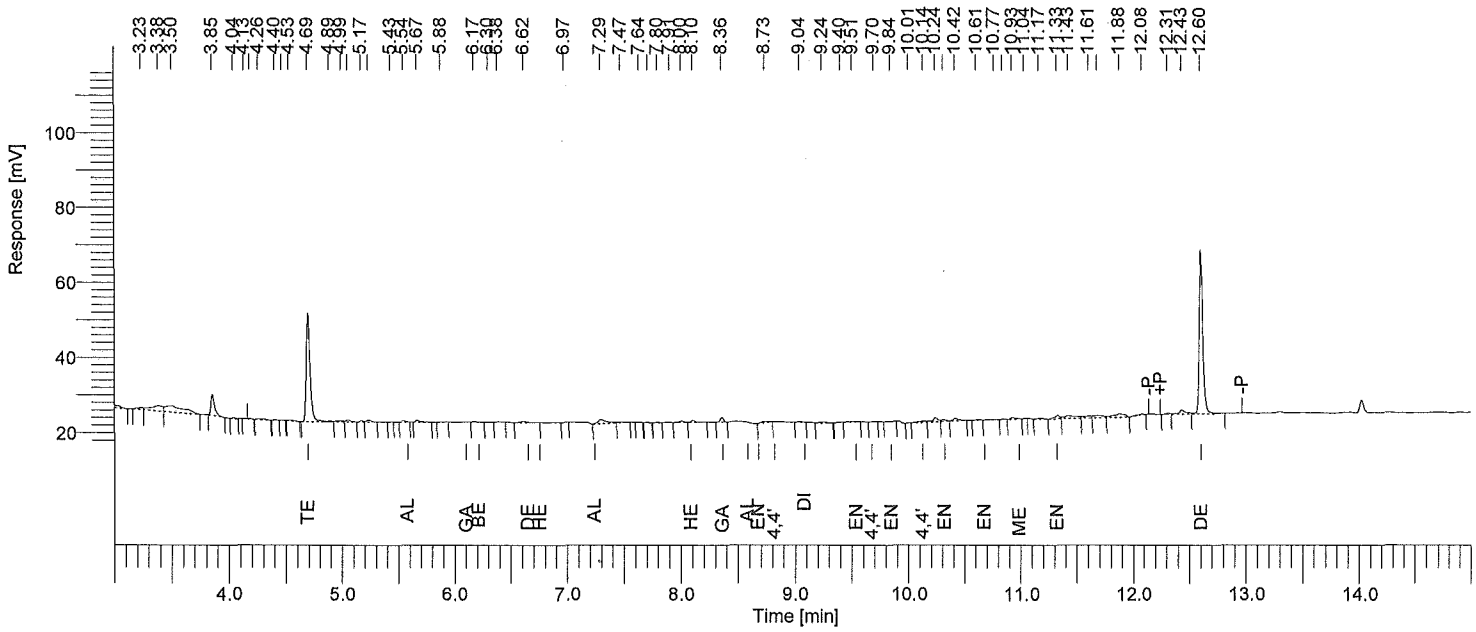

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.69	Tetrachloro-m-xylene	67348	0.04509423	1	10	0.03019	0.994	1.6562	14.93681	19.87	75.2
5.54	alpha-BHC	705	3.9691e-04	1	10	0.03019	0.994	1.6562	0.13147	0.00	------
6.10	gamma-BHC	0	0.00000000	1	10	0.03019	0.994	---------	0.00000	--------	------
6.17	beta-BHC	594	6.9551e-04	1	10	0.03019	0.994	1.6562	0.23038	0.00	------
6.62	delta-BHC	1591	1.1255e-03	1	10	0.03019	0.994	1.6562	0.37279	0.00	------
6.75	Heptachlor	0	0.00000000	1	10	0.03019	0.994	---------	0.00000	--------	------
7.24	Aldrin	0	0.00000000	1	10	0.03019	0.994	---------	0.00000	--------	------
8.10	Heptachlor epoxide	1286	9.5546e-04	1	10	0.03019	0.994	1.6562	0.31648	0.00	------
8.36	gamma-Chlordane	2384	1.7179e-03	1	10	0.03019	0.994	1.6562	0.56904	0.00	------
8.58	alpha-Chlordane	0	0.00000000	1	10	0.03019	0.994	---------	0.00000	--------	------
8.67	Endosulfan I	0	0.00000000	1	10	0.03019	0.994	---------	0.00000	--------	------
8.81	4,4'-DDE	0	0.00000000	1	10	0.03019	0.994	---------	0.00000	--------	------
9.04	Dieldrin	535	4.2620e-04	1	10	0.03019	0.994	3.3124	0.14117	0.00	------
9.51	Endrin	1021	1.0096e-03	1	10	0.03019	0.994	3.3124	0.33442	0.00	------
9.70	4,4'-DDD	152	1.6190e-04	1	10	0.03019	0.994	3.3124	0.05363	0.00	------
9.84	Endosulfan II	201	1.9082e-04	1	10	0.03019	0.994	3.3124	0.06321	0.00	------
10.14	4,4'-DDT	2120	2.0501e-03	1	10	0.03019	0.994	3.3124	0.67906	0.00	------
10.31	Endrin aldehyde	1647	1.9351e-03	1	10	0.03019	0.994	3.3124	0.64097	0.00	------
10.61	Endosulfan sulfate	449	5.0365e-04	1	10	0.03019	0.994	3.3124	0.16683	0.00	------
11.04	Methoxychlor	188	3.5490e-04	1	10	0.03019	0.994	16.5618	0.11755	0.00	------
11.33	Endrin ketone	2842	2.3542e-03	1	10	0.03019	0.994	3.3124	0.77979	0.00	------
12.60	Decachlorobiphenyl	97647	0.09186801	1	10	0.03019	0.994	3.3124	30.42995	39.75	76.6

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293018

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 21150608A024,21150608B024

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/08/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.024	JP
319-85-7	beta-BHC	0.049	JBP
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	0.26	JP
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.38	JBP
72-55-9	4,4'-DDE	0.26	JP
72-20-8	Endrin	1.0	J
33213-65-9	Endosulfan II	0.061	JBP
72-54-8	4,4'-DDD	0.058	JP
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	0.16	JP
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	0.089	JBP
7421-93-4	Endrin aldehyde	0.20	JBP
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	0.20	JBP
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:17:09
Operator	: sagers	Sample Name	: 1514293018
Sample Number	: 024	Study	: F9L73
AutoSampler	: HP7673A	Rack/Vial	: 0/24
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/08/2015 21:49:36	Cycle	: 8

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_024.rst
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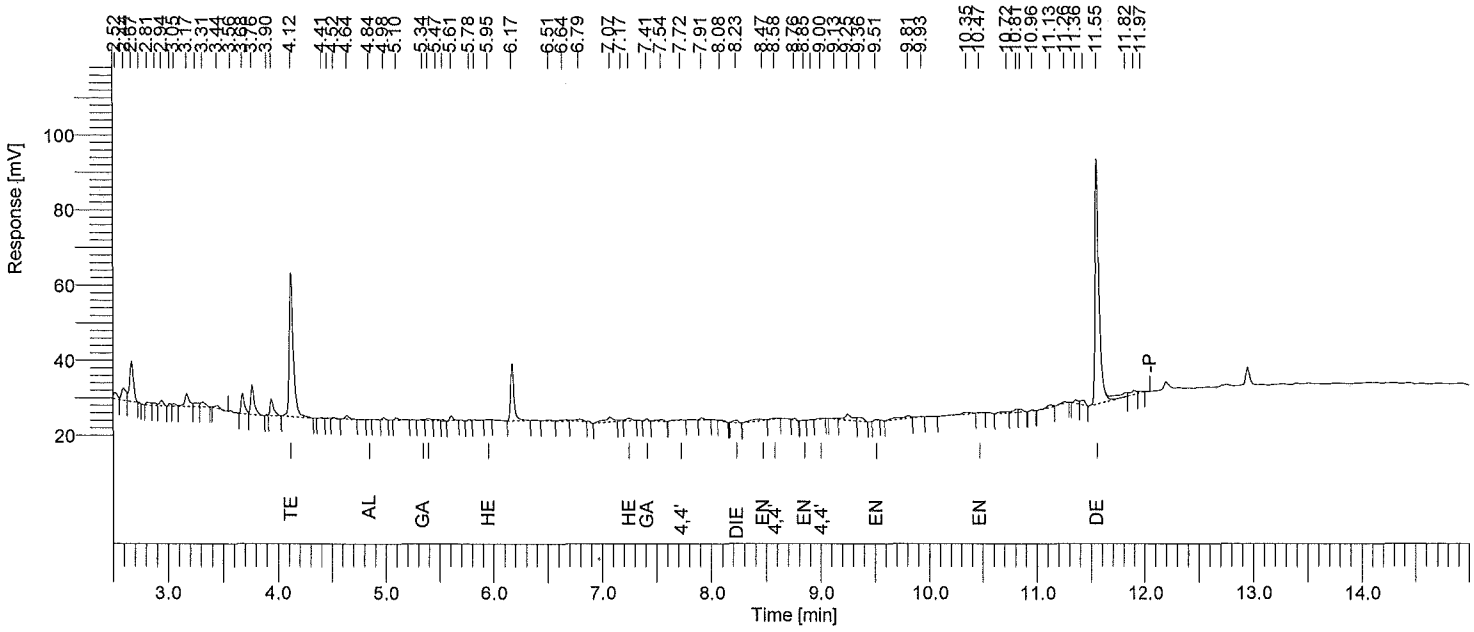

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.12	Tetrachloro-m-xylene	99908	0.04420410	1	10	0.03040	0.987	1.6447	14.54082	19.74	73.7
4.84	alpha-BHC	177	6.2679e-05	1	10	0.03040	0.987	1.6447	0.02062	0.00	------
5.34	gamma-BHC	639	2.4565e-04	1	10	0.03040	0.987	1.6447	0.08081	0.00	------
5.39	beta-BHC	1637	1.1939e-03	1	10	0.03040	0.987	1.6447	0.39274	0.00	------
5.67	delta-BHC	0	0.00000000	1	10	0.03040	0.987	----------	0.00000	--------	------
5.95	Heptachlor	290	1.0489e-04	1	10	0.03040	0.987	1.6447	0.03450	0.00	------
6.39	Aldrin	0	0.00000000	1	10	0.03040	0.987	----------	0.00000	--------	------
7.24	Heptachlor epoxide	2925	1.2896e-03	1	10	0.03040	0.987	1.6447	0.42421	0.00	------
7.41	gamma-Chlordane	1211	5.1140e-04	1	10	0.03040	0.987	1.6447	0.16822	0.00	------
7.62	alpha-Chlordane	0	0.00000000	1	10	0.03040	0.987	----------	0.00000	--------	------
7.72	4,4'-DDE	1299	6.8752e-04	1	10	0.03040	0.987	3.2895	0.22616	0.00	------
7.82	Endosulfan I	0	0.00000000	1	10	0.03040	0.987	----------	0.00000	--------	------
8.23	Dieldrin	2030	9.8421e-04	1	10	0.03040	0.987	3.2895	0.32375	0.00	------
8.47	Endrin	5171	2.9689e-03	1	10	0.03040	0.987	3.2895	0.97661	0.00	------
8.58	4,4'-DDD	1348	8.2387e-04	1	10	0.03040	0.987	3.2895	0.27101	0.00	------
8.85	Endosulfan II	290	1.6028e-04	1	10	0.03040	0.987	3.2895	0.05272	0.00	------
9.00	4,4'-DDT	757	4.1686e-04	1	10	0.03040	0.987	3.2895	0.13712	0.00	------
9.51	Endrin aldehyde	806	5.1805e-04	1	10	0.03040	0.987	3.2895	0.17041	0.00	------
9.70	Methoxychlor	0	0.00000000	1	10	0.03040	0.987	----------	0.00000	--------	------
10.07	Endosulfan sulfate	0	0.00000000	1	10	0.03040	0.987	----------	0.00000	--------	------
10.47	Endrin ketone	497	2.3177e-04	1	10	0.03040	0.987	3.2895	0.07624	0.00	------
11.55	Decachlorobiphenyl	163927	0.08921223	1	10	0.03040	0.987	3.2895	29.34613	39.47	74.3

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:19:03
Operator	: sagers	Sample Name	: 1514293018
Sample Number	: 024	Study	: F9L73
AutoSampler	: HP7673A	Rack/Vial	: 0/24
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 22:09:58	Dilution Factor	: 1.00
		Cycle	: 9

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_024.rst
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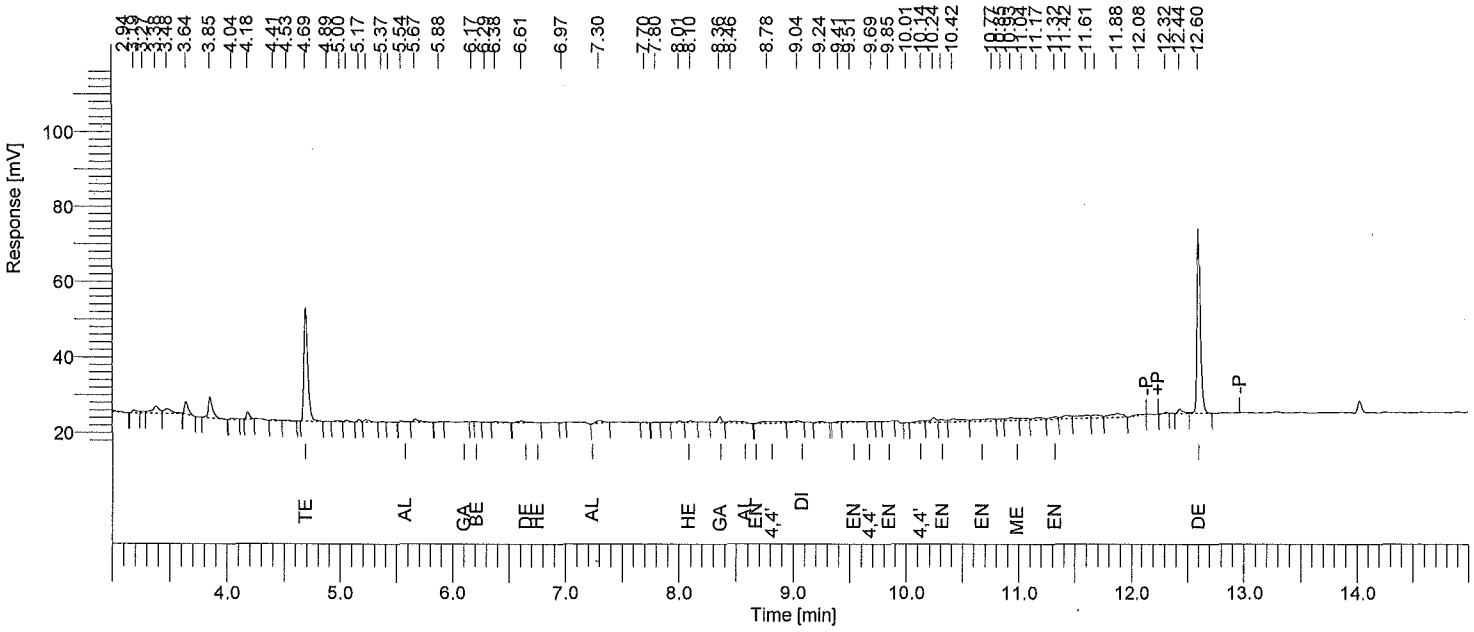

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.69	Tetrachloro-m-xylene	70629	0.04729129	1	10	0.03040	0.987	1.6447	15.55634	19.74	78.8
5.54	alpha-BHC	564	3.1762e-04	1	10	0.03040	0.987	1.6447	0.10448	0.00	------
6.10	gamma-BHC	0	0.00000000	1	10	0.03040	0.987	---------	0.00000	--------	------
6.17	beta-BHC	109	1.2755e-04	1	10	0.03040	0.987	1.6447	0.04196	0.00	------
6.61	delta-BHC	2211	1.5647e-03	1	10	0.03040	0.987	1.6447	0.51470	0.00	------
6.75	Heptachlor	0	0.00000000	1	10	0.03040	0.987	---------	0.00000	--------	------
7.24	Aldrin	0	0.00000000	1	10	0.03040	0.987	---------	0.00000	--------	------
8.10	Heptachlor epoxide	919	6.8305e-04	1	10	0.03040	0.987	1.6447	0.22469	0.00	------
8.36	gamma-Chlordane	3507	2.5269e-03	1	10	0.03040	0.987	1.6447	0.83122	0.00	------
8.58	alpha-Chlordane	0	0.00000000	1	10	0.03040	0.987	---------	0.00000	--------	------
8.67	Endosulfan I	0	0.00000000	1	10	0.03040	0.987	---------	0.00000	--------	------
8.78	4,4'-DDE	5822	4.9086e-03	1	10	0.03040	0.987	3.2895	1.61468	0.00	------
9.04	Dieldrin	2129	1.6960e-03	1	10	0.03040	0.987	3.2895	0.55789	0.00	------
9.51	Endrin	2752	2.7214e-03	1	10	0.03040	0.987	3.2895	0.89520	0.00	------
9.69	4,4'-DDD	143	1.5210e-04	1	10	0.03040	0.987	3.2895	0.05003	0.00	------
9.85	Endosulfan II	236	2.2426e-04	1	10	0.03040	0.987	3.2895	0.07377	0.00	------
10.14	4,4'-DDT	2724	2.6344e-03	1	10	0.03040	0.987	3.2895	0.86657	0.00	------
10.31	Endrin aldehyde	3009	3.5352e-03	1	10	0.03040	0.987	3.2895	1.16290	0.00	------
10.68	Endosulfan sulfate	0	0.00000000	1	10	0.03040	0.987	---------	0.00000	--------	------
11.04	Methoxychlor	2772	5.2210e-03	1	10	0.03040	0.987	16.4474	1.71742	0.00	------
11.32	Endrin ketone	3347	2.7728e-03	1	10	0.03040	0.987	3.2895	0.91211	0.00	------
12.60	Decachlorobiphenyl	107398	0.10104135	1	10	0.03040	0.987	3.2895	33.23729	39.47	84.2

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L75

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293019

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 21150608A025,21150608B025

% Moisture: 13. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/08/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.044	JP
319-85-7	beta-BHC	0.27	JBP
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	0.053	JP
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	0.28	JP
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.38	JB
72-55-9	4,4'-DDE	0.28	JP
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	0.13	JBP
72-54-8	4,4'-DDD	0.40	JP
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	0.76	JP
72-43-5	Methoxychlor	0.98	JP
53494-70-5	Endrin ketone	0.64	JB
7421-93-4	Endrin aldehyde	0.93	JB
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	0.38	JBP
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:17:12
Operator	: sagers	Sample Name	: 1514293019
Sample Number	: 025	Study	: F9L75
AutoSampler	: HP7673A	Rack/Vial	: 0/25
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 22:09:58	Dilution Factor	: 1.00
		Cycle	: 9

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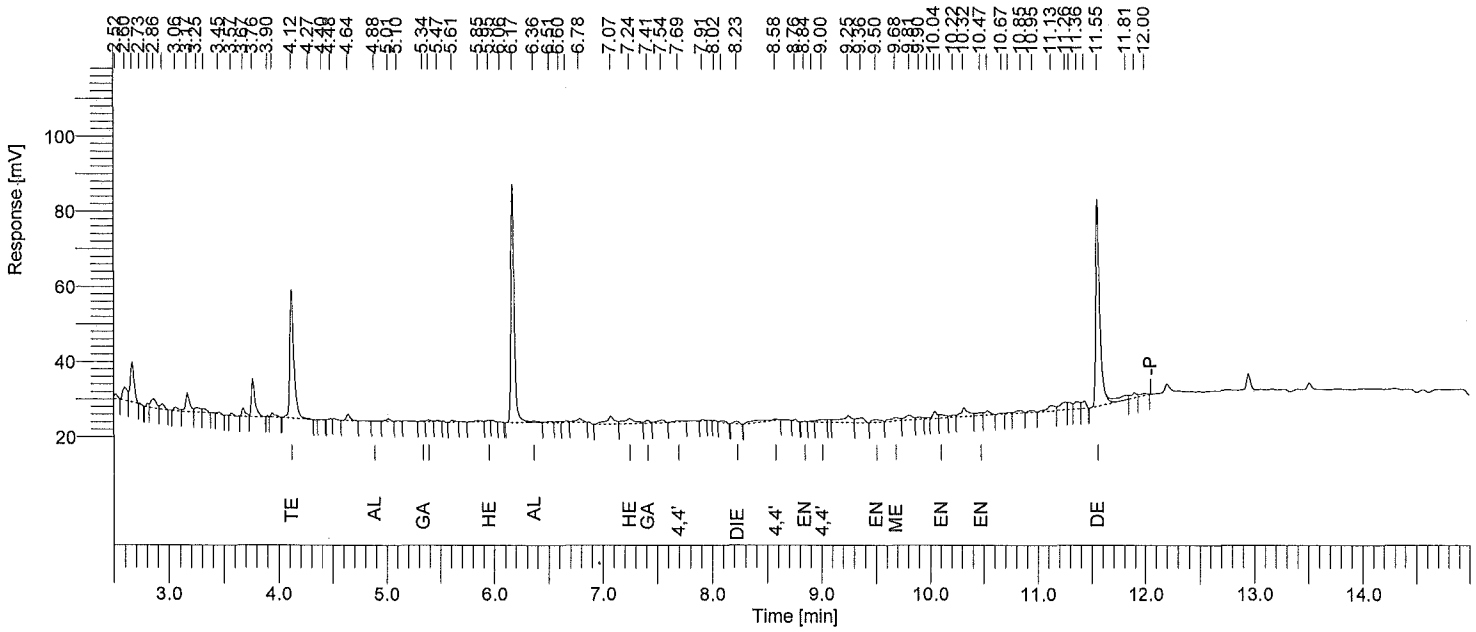

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.12	Tetrachloro-m-xylene	88952	0.03935663	1	10	0.03042	0.986	1.6437	12.93775	19.72	65.6
4.88	alpha-BHC	327	1.1592e-04	1	10	0.03042	0.986	1.6437	0.03811	0.00	------
5.34	gamma-BHC	366	1.4084e-04	1	10	0.03042	0.986	1.6437	0.04630	0.00	------
5.39	beta-BHC	966	7.0445e-04	1	10	0.03042	0.986	1.6437	0.23158	0.00	------
5.67	delta-BHC	0	0.00000000	1	10	0.03042	0.986	----------	0.00000	--------	------
5.95	Heptachlor	270	9.7702e-05	1	10	0.03042	0.986	1.6437	0.03212	0.00	------
6.36	Aldrin	2789	1.1673e-03	1	10	0.03042	0.986	1.6437	0.38374	0.00	------
7.24	Heptachlor epoxide	9847	4.3421e-03	1	10	0.03042	0.986	1.6437	1.42737	0.00	------
7.41	gamma-Chlordane	2396	1.0121e-03	1	10	0.03042	0.986	1.6437	0.33272	0.00	------
7.62	alpha-Chlordane	0	0.00000000	1	10	0.03042	0.986	----------	0.00000	--------	------
7.69	4,4'-DDE	1418	7.5043e-04	1	10	0.03042	0.986	3.2873	0.24669	0.00	------
7.82	Endosulfan I	0	0.00000000	1	10	0.03042	0.986	----------	0.00000	--------	------
8.23	Dieldrin	2085	1.0111e-03	1	10	0.03042	0.986	3.2873	0.33238	0.00	------
8.51	Endrin	0	0.00000000	1	10	0.03042	0.986	----------	0.00000	--------	------
8.58	4,4'-DDD	7336	4.4848e-03	1	10	0.03042	0.986	3.2873	1.47431	0.00	------
8.84	Endosulfan II	635	3.5048e-04	1	10	0.03042	0.986	3.2873	0.11521	0.00	------
9.00	4,4'-DDT	4702	2.5906e-03	1	10	0.03042	0.986	3.2873	0.85160	0.00	------
9.50	Endrin aldehyde	4636	2.9800e-03	1	10	0.03042	0.986	3.2873	0.97962	0.00	------
9.68	Methoxychlor	5997	6.3974e-03	1	10	0.03042	0.986	16.4366	2.10304	0.00	------
10.10	Endosulfan sulfate	3732	2.3271e-03	1	10	0.03042	0.986	3.2873	0.76498	0.00	------
10.47	Endrin ketone	3598	1.6794e-03	1	10	0.03042	0.986	3.2873	0.55205	0.00	------
11.55	Decachlorobiphenyl	140129	0.07626047	1	10	0.03042	0.986	3.2873	25.06919	39.45	63.6

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:19:05
Operator	: sagers	Sample Name	: 1514293019
Sample Number	: 025	Study	: F9L75
AutoSampler	: HP7673A	Rack/Vial	: 0/25
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 22:30:20	Dilution Factor	: 1.00
		Cycle	: 10

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_025.raw <Modified>
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_025.rst
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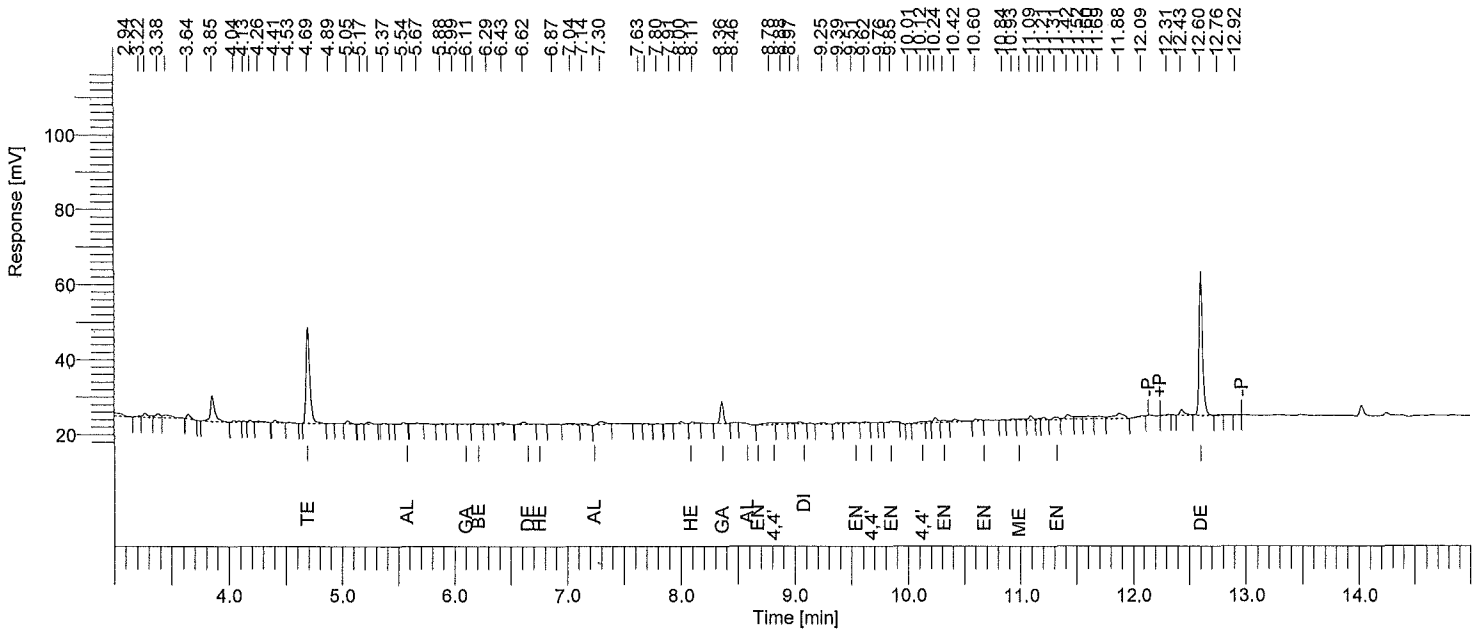
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150608\21_RPT_2UL\21_som_soil_sample_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608_SOM012_PEST_F9L58_F9L53_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.69	Tetrachloro-m-xylene	59156	0.03960919	1	10	0.03042	0.986	1.6437	13.02077	19.72	66.0
5.54	alpha-BHC	661	3.7241e-04	1	10	0.03042	0.986	1.6437	0.12242	0.00	------
6.11	gamma-BHC	1333	8.2337e-04	1	10	0.03042	0.986	1.6437	0.27067	0.00	------
6.17	beta-BHC	1237	1.4485e-03	1	10	0.03042	0.986	1.6437	0.47616	0.00	------
6.62	delta-BHC	2499	1.7682e-03	1	10	0.03042	0.986	1.6437	0.58128	0.00	------
6.75	Heptachlor	0	0.00000000	1	10	0.03042	0.986	---------	0.00000	--------	------
7.24	Aldrin	0	0.00000000	1	10	0.03042	0.986	---------	0.00000	--------	------
8.11	Heptachlor epoxide	985	7.3227e-04	1	10	0.03042	0.986	1.6437	0.24072	0.00	------
8.36	gamma-Chlordane	11233	8.0927e-03	1	10	0.03042	0.986	1.6437	2.66032	0.00	------
8.58	alpha-Chlordane	0	0.00000000	1	10	0.03042	0.986	---------	0.00000	--------	------
8.67	Endosulfan I	0	0.00000000	1	10	0.03042	0.986	---------	0.00000	--------	------
8.78	4,4'-DDE	3584	3.0216e-03	1	10	0.03042	0.986	3.2873	0.99329	0.00	------
9.04	Dieldrin	1559	1.2415e-03	1	10	0.03042	0.986	3.2873	0.40813	0.00	------
9.51	Endrin	1958	1.9364e-03	1	10	0.03042	0.986	3.2873	0.63654	0.00	------
9.62	4,4'-DDD	990	1.0514e-03	1	10	0.03042	0.986	3.2873	0.34564	0.00	------
9.85	Endosulfan II	996	9.4488e-04	1	10	0.03042	0.986	3.2873	0.31061	0.00	------
10.12	4,4'-DDT	2088	2.0197e-03	1	10	0.03042	0.986	3.2873	0.66395	0.00	------
10.31	Endrin aldehyde	2096	2.4624e-03	1	10	0.03042	0.986	3.2873	0.80947	0.00	------
10.68	Endosulfan sulfate	0	0.00000000	1	10	0.03042	0.986	---------	0.00000	--------	------
11.00	Methoxychlor	1376	2.5914e-03	1	10	0.03042	0.986	16.4366	0.85187	0.00	------
11.31	Endrin ketone	2383	1.9741e-03	1	10	0.03042	0.986	3.2873	0.64895	0.00	------
12.60	Decachlorobiphenyl	84321	0.07933066	1	10	0.03042	0.986	3.2873	26.07845	39.45	66.1

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293020

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 21150608A026,21150608B026

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/08/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.057	JP
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	0.28	JP
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.23	JBP
72-55-9	4,4'-DDE	0.18	JP
72-20-8	Endrin	0.89	JP
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	3.7	U
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	0.076	JBP
7421-93-4	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	0.40	JBP
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:17:14
Operator	: sagers	Sample Name	: 1514293020
Sample Number	: 026	Study	: F9L77
AutoSampler	: HP7673A	Rack/Vial	: 0/26
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 22:30:20	Dilution Factor	: 1.00
		Cycle	: 10

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_026.rst
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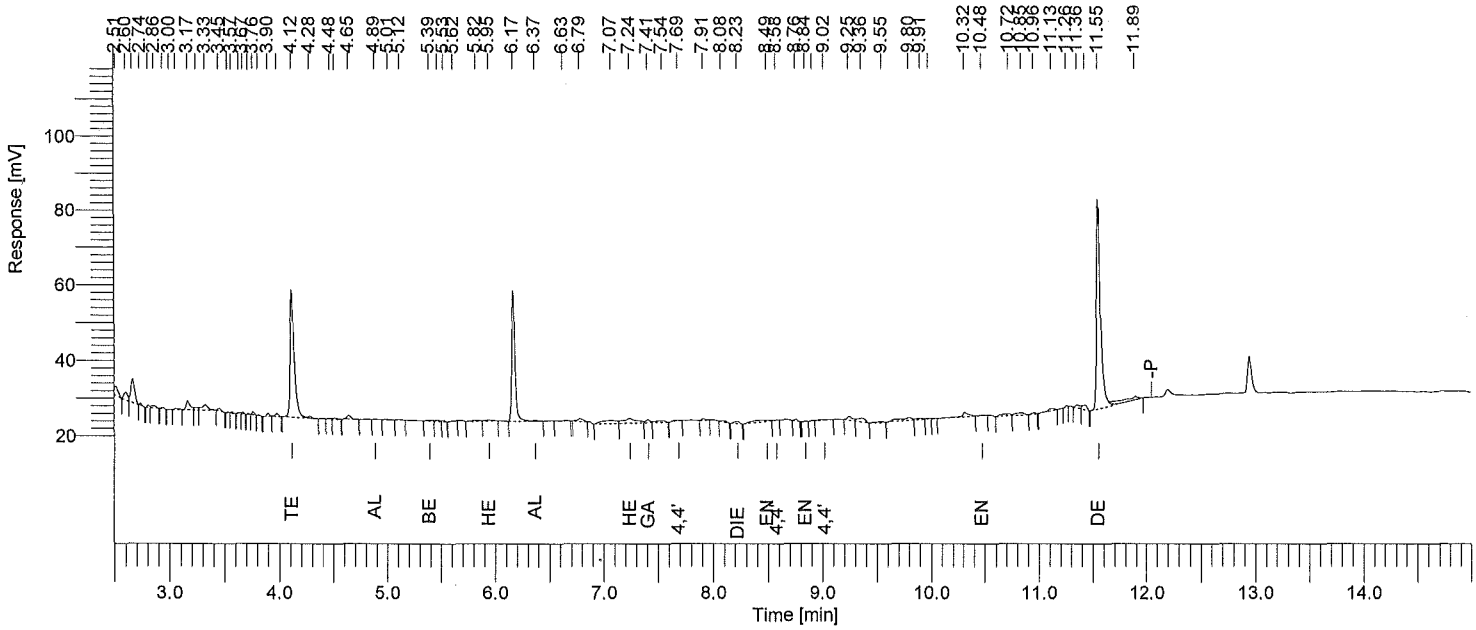

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.12	Tetrachloro-m-xylene	86226	0.03815041	1	10	0.03023	0.992	1.6540	12.62005	19.85	63.6
4.89	alpha-BHC	432	1.5313e-04	1	10	0.03023	0.992	1.6540	0.05065	0.00	------
5.30	gamma-BHC	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
5.39	beta-BHC	833	6.0758e-04	1	10	0.03023	0.992	1.6540	0.20099	0.00	------
5.67	delta-BHC	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
5.95	Heptachlor	1456	5.2731e-04	1	10	0.03023	0.992	1.6540	0.17443	0.00	------
6.37	Aldrin	1075	4.4972e-04	1	10	0.03023	0.992	1.6540	0.14877	0.00	------
7.24	Heptachlor epoxide	11142	4.9130e-03	1	10	0.03023	0.992	1.6540	1.62521	0.00	------
7.41	gamma-Chlordane	2537	1.0716e-03	1	10	0.03023	0.992	1.6540	0.35449	0.00	------
7.62	alpha-Chlordane	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
7.69	4,4'-DDE	905	4.7919e-04	1	10	0.03023	0.992	3.3080	0.15852	0.00	------
7.82	Endosulfan I	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
8.23	Dieldrin	1972	9.5621e-04	1	10	0.03023	0.992	3.3080	0.31631	0.00	------
8.49	Endrin	5557	3.1910e-03	1	10	0.03023	0.992	3.3080	1.05557	0.00	------
8.58	4,4'-DDD	452	2.7659e-04	1	10	0.03023	0.992	3.3080	0.09150	0.00	------
8.84	Endosulfan II	292	1.6138e-04	1	10	0.03023	0.992	3.3080	0.05338	0.00	------
9.02	4,4'-DDT	1240	6.8314e-04	1	10	0.03023	0.992	3.3080	0.22598	0.00	------
9.45	Endrin aldehyde	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
9.70	Methoxychlor	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
10.07	Endosulfan sulfate	0	0.00000000	1	10	0.03023	0.992	----------	0.00000	--------	------
10.48	Endrin ketone	439	2.0479e-04	1	10	0.03023	0.992	3.3080	0.06774	0.00	------
11.55	Decachlorobiphenyl	141166	0.07682491	1	10	0.03023	0.992	3.3080	25.41347	39.70	64.0

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:19:07
Operator	: sagers	Sample Name	: 1514293020
Sample Number	: 026	Study	: F9L77
AutoSampler	: HP7673A	Rack/Vial	: 0/26
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 22:50:57	Dilution Factor	: 1.00
		Cycle	: 11

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_026.raw <Modified>
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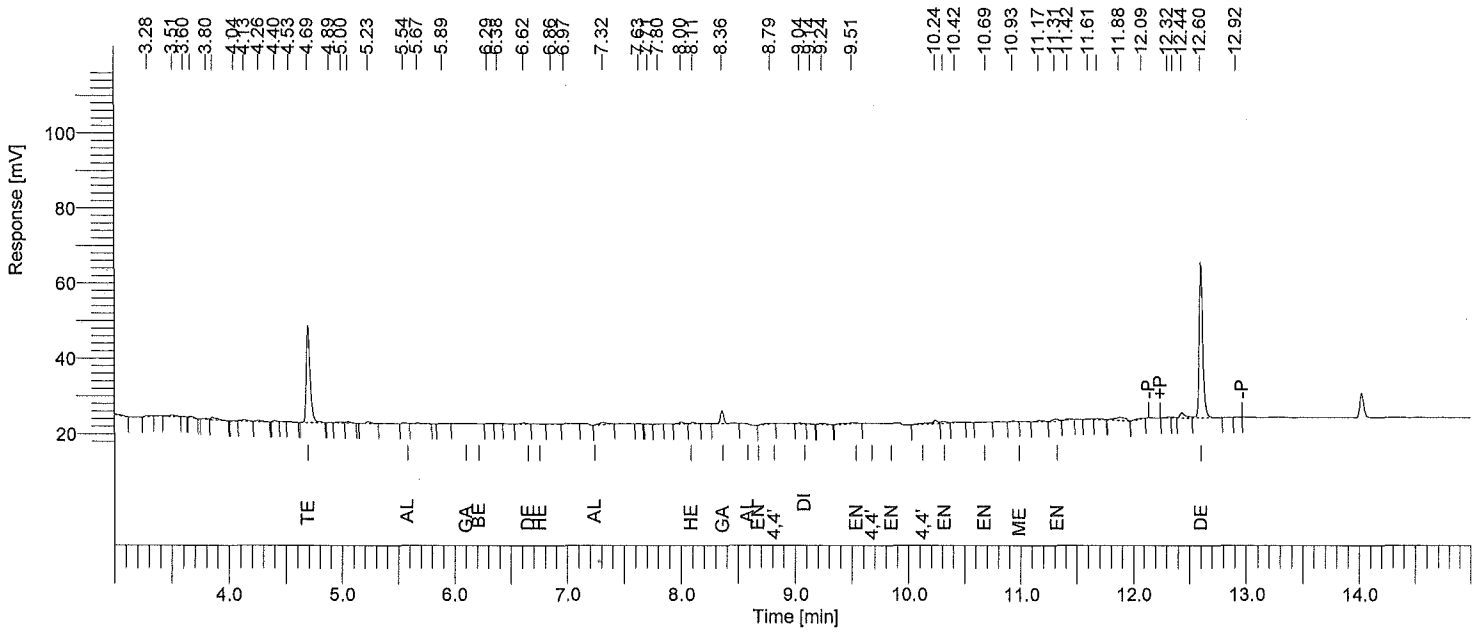

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.69	Tetrachloro-m-xylene	60538	0.04053483	1	10	0.03023	0.992	1.6540	13.40881	19.85	67.6
5.54	alpha-BHC	382	2.1528e-04	1	10	0.03023	0.992	1.6540	0.07121	0.00	------
6.10	gamma-BHC	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
6.21	beta-BHC	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
6.62	delta-BHC	1014	7.1745e-04	1	10	0.03023	0.992	1.6540	0.23733	0.00	------
6.75	Heptachlor	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
7.24	Aldrin	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
8.11	Heptachlor epoxide	1021	7.5877e-04	1	10	0.03023	0.992	1.6540	0.25100	0.00	------
8.36	gamma-Chlordane	6758	4.8688e-03	1	10	0.03023	0.992	1.6540	1.61057	0.00	------
8.58	alpha-Chlordane	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
8.67	Endosulfan I	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
8.79	4,4'-DDE	1427	1.2029e-03	1	10	0.03023	0.992	3.3080	0.39790	0.00	------
9.04	Dieldrin	790	6.2962e-04	1	10	0.03023	0.992	3.3080	0.20828	0.00	------
9.51	Endrin	2416	2.3884e-03	1	10	0.03023	0.992	3.3080	0.79006	0.00	------
9.67	4,4'-DDD	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
9.85	Endosulfan II	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
10.12	4,4'-DDT	0	0.00000000	1	10	0.03023	0.992	---------	0.00000	--------	------
10.31	Endrin aldehyde	1922	2.2575e-03	1	10	0.03023	0.992	3.3080	0.74679	0.00	------
10.69	Endosulfan sulfate	453	5.0752e-04	1	10	0.03023	0.992	3.3080	0.16789	0.00	------
10.93	Methoxychlor	419	7.8948e-04	1	10	0.03023	0.992	16.5399	0.26116	0.00	------
11.31	Endrin ketone	1914	1.5856e-03	1	10	0.03023	0.992	3.3080	0.52450	0.00	------
12.60	Decachlorobiphenyl	92234	0.08677530	1	10	0.03023	0.992	3.3080	28.70503	39.70	72.3

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293021

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 21150608A027,21150608B027

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/08/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.032	JP
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	0.21	JBP
58-89-9	gamma-BHC (Lindane)	0.021	JP
76-44-8	Heptachlor	0.26	JBP
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	0.30	JP
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	0.47	JBP
72-55-9	4,4'-DDE	0.31	JP
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	0.49	JP
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	1.1	JP
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	0.88	JBP
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.58	JBP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:17:16
Operator	: sagers	Sample Name	: 1514293021
Sample Number	: 027	Study	: F9L78
AutoSampler	: HP7673A	Rack/Vial	: 0/27
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 22:50:57	Dilution Factor	: 1.00
		Cycle	: 11

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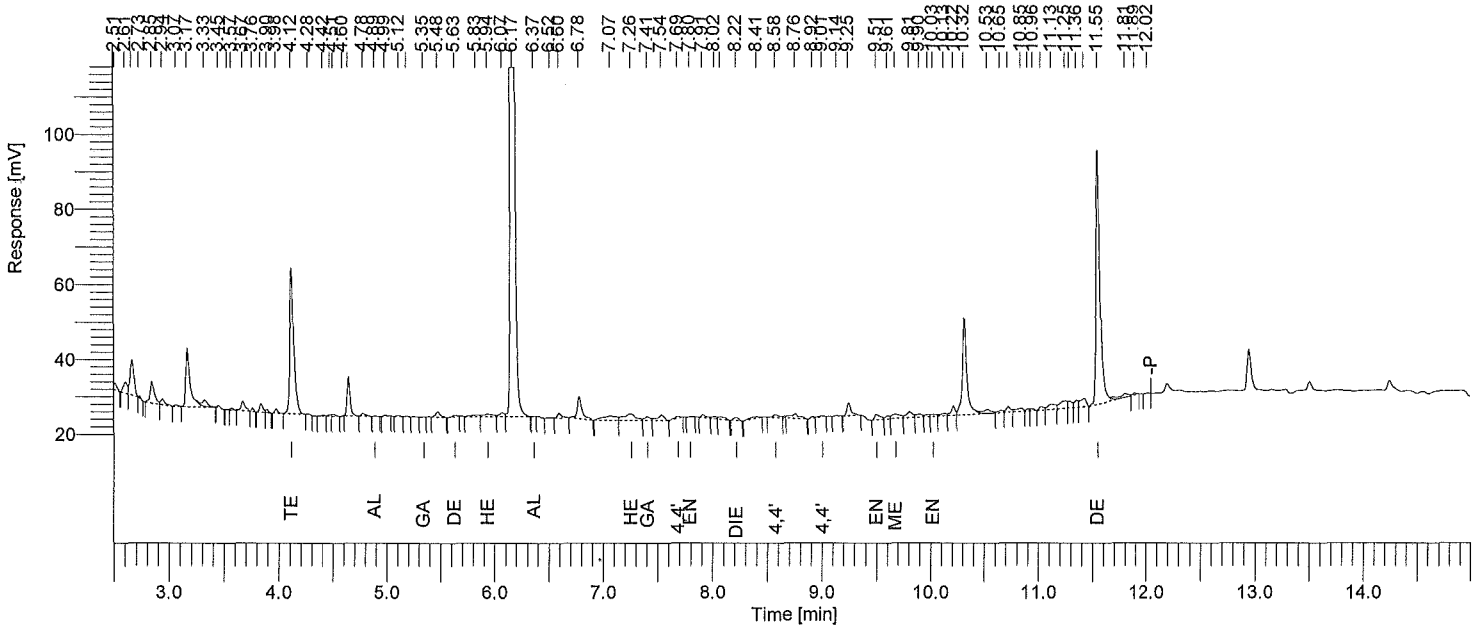
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_027.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_027.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150608\21_RPT_2UL\21_som_soil_sample_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608_SOM012_PEST_F9L58_F9L53_A.seq



Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.12	Tetrachloro-m-xylene	98716	0.04367666	1	10	0.03016	0.995	1.6578	14.48165	19.89	72.8
4.89	alpha-BHC	232	8.2292e-05	1	10	0.03016	0.995	1.6578	0.02729	0.00	------
5.35	gamma-BHC	142	5.4560e-05	1	10	0.03016	0.995	1.6578	0.01809	0.00	------
5.42	beta-BHC	0	0.00000000	1	10	0.03016	0.995	----------	0.00000	--------	------
5.63	delta-BHC	1306	5.3824e-04	1	10	0.03016	0.995	1.6578	0.17846	0.00	------
5.94	Heptachlor	4163	1.5076e-03	1	10	0.03016	0.995	1.6578	0.49987	0.00	------
6.37	Aldrin	191	7.9833e-05	1	10	0.03016	0.995	1.6578	0.02647	0.00	------
7.26	Heptachlor epoxide	13708	6.0449e-03	1	10	0.03016	0.995	1.6578	2.00429	0.00	------
7.41	gamma-Chlordane	3572	1.5087e-03	1	10	0.03016	0.995	1.6578	0.50022	0.00	------
7.62	alpha-Chlordane	0	0.00000000	1	10	0.03016	0.995	----------	0.00000	--------	------
7.69	4,4'-DDE	1510	7.9942e-04	1	10	0.03016	0.995	3.3156	0.26506	0.00	------
7.80	Endosulfan I	248	1.0779e-04	1	10	0.03016	0.995	1.6578	0.03574	0.00	------
8.22	Dieldrin	2533	1.2282e-03	1	10	0.03016	0.995	3.3156	0.40723	0.00	------
8.51	Endrin	0	0.00000000	1	10	0.03016	0.995	----------	0.00000	--------	------
8.58	4,4'-DDD	3229	1.9736e-03	1	10	0.03016	0.995	3.3156	0.65439	0.00	------
8.83	Endosulfan II	0	0.00000000	1	10	0.03016	0.995	----------	0.00000	--------	------
9.01	4,4'-DDT	1047	5.7657e-04	1	10	0.03016	0.995	3.3156	0.19117	0.00	------
9.51	Endrin aldehyde	5384	3.4610e-03	1	10	0.03016	0.995	3.3156	1.14756	0.00	------
9.68	Methoxychlor	6413	6.8408e-03	1	10	0.03016	0.995	16.5782	2.26818	0.00	------
10.03	Endosulfan sulfate	2022	1.2609e-03	1	10	0.03016	0.995	3.3156	0.41808	0.00	------
10.44	Endrin ketone	0	0.00000000	1	10	0.03016	0.995	----------	0.00000	--------	------
11.55	Decachlorobiphenyl	173774	0.09457107	1	10	0.03016	0.995	3.3156	31.35646	39.79	78.8

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:19:10
Operator	: sagers	Sample Name	: 1514293021
Sample Number	: 027	Study	: F9L78
AutoSampler	: HP7673A	Rack/Vial	: 0/27
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 23:11:21	Dilution Factor	: 1.00
		Cycle	: 12

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_027.raw <Modified>
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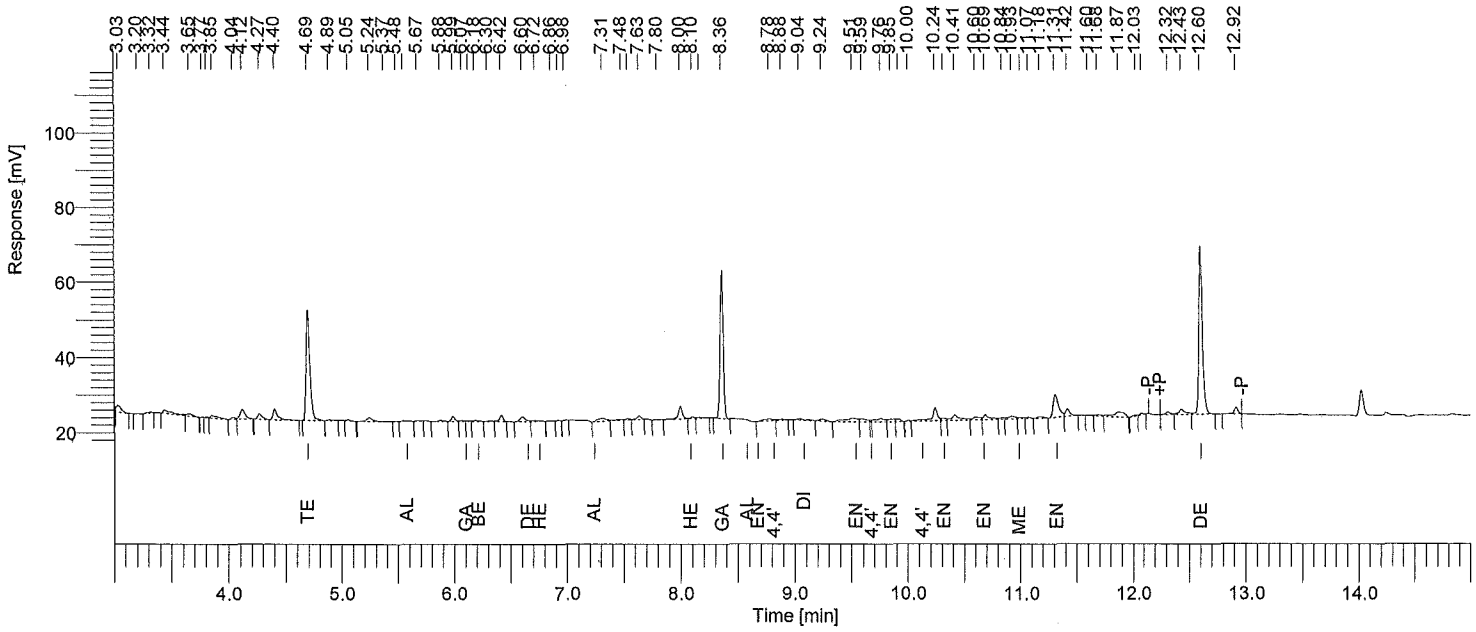
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_027.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150608\21_RPT_2UL\21_som_soil_sample_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608_SOM012_PEST_F9L58_F9L53_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.69	Tetrachloro-m-xylene	69506	0.04653931	1	10	0.03016	0.995	1.6578	15.43081	19.89	77.6
5.54	alpha-BHC	672	3.7836e-04	1	10	0.03016	0.995	1.6578	0.12545	0.00	------
6.13	gamma-BHC	537	3.3176e-04	1	10	0.03016	0.995	1.6578	0.11000	0.00	------
6.18	beta-BHC	1297	1.5185e-03	1	10	0.03016	0.995	1.6578	0.50347	0.00	------
6.60	delta-BHC	4446	3.1461e-03	1	10	0.03016	0.995	1.6578	1.04315	0.00	------
6.72	Heptachlor	1144	6.8523e-04	1	10	0.03016	0.995	1.6578	0.22720	0.00	------
7.24	Aldrin	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
8.10	Heptachlor epoxide	1041	7.7343e-04	1	10	0.03016	0.995	1.6578	0.25644	0.00	------
8.36	gamma-Chlordane	76285	0.05496041	1	10	0.03016	0.995	1.6578	18.22295	0.00	------
8.58	alpha-Chlordane	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
8.67	Endosulfan I	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
8.78	4,4'-DDE	3471	2.9262e-03	1	10	0.03016	0.995	3.3156	0.97021	0.00	------
9.04	Dieldrin	2162	1.7227e-03	1	10	0.03016	0.995	3.3156	0.57117	0.00	------
9.51	Endrin	7847	7.7582e-03	1	10	0.03016	0.995	3.3156	2.57236	0.00	------
9.67	4,4'-DDD	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
9.85	Endosulfan II	2939	2.7879e-03	1	10	0.03016	0.995	3.3156	0.92436	0.00	------
10.12	4,4'-DDT	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
10.31	Endrin aldehyde	1949	2.2898e-03	1	10	0.03016	0.995	3.3156	0.75923	0.00	------
10.69	Endosulfan sulfate	5169	5.7945e-03	1	10	0.03016	0.995	3.3156	1.92125	0.00	------
11.00	Methoxychlor	1580	2.9769e-03	1	10	0.03016	0.995	16.5782	0.98702	0.00	------
11.31	Endrin ketone	20345	0.01685284	1	10	0.03016	0.995	3.3156	5.58781	0.00	------
12.60	Decachlorobiphenyl	100020	0.09410042	1	10	0.03016	0.995	3.3156	31.20040	39.79	78.4

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L79

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293022

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 21150608A028,21150608B028

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/08/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.037	JP
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	0.080	JBP
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	0.15	JP
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.11	JBP
72-55-9	4,4'-DDE	0.26	JP
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	3.7	U
72-43-5	Methoxychlor	0.29	JP
53494-70-5	Endrin ketone	0.67	JBP
7421-93-4	Endrin aldehyde	0.61	JB
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	0.19	JBP
8001-35-2	Toxaphene	190	U

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:17:19
Operator	: sagers	Sample Name	: 1514293022
Sample Number	: 028	Study	: F9L79
AutoSampler	: HP7673A	Rack/Vial	: 0/28
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 23:11:21	Dilution Factor	: 1.00
		Cycle	: 12

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_028.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_028.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150608\21_RPT_2UL\21_som_soil_sample_a.rpt
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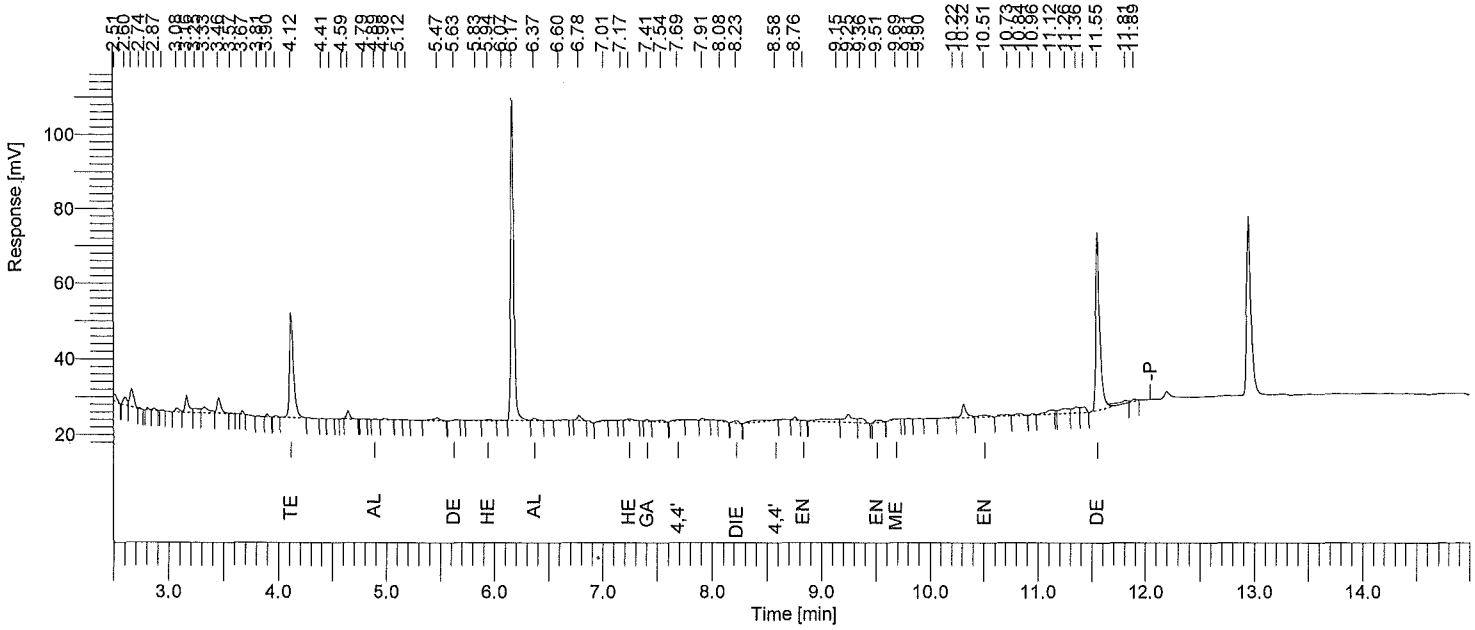

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.12	Tetrachloro-m-xylene	69121	0.03058249	1	10	0.03044	0.986	1.6426	10.04681	19.71	51.0
4.89	alpha-BHC	282	9.9938e-05	1	10	0.03044	0.986	1.6426	0.03283	0.00	------
5.30	gamma-BHC	0	0.00000000	1	10	0.03044	0.986	----------	0.00000	--------	------
5.42	beta-BHC	0	0.00000000	1	10	0.03044	0.986	----------	0.00000	--------	------
5.63	delta-BHC	523	2.1578e-04	1	10	0.03044	0.986	1.6426	0.07089	0.00	------
5.94	Heptachlor	1337	4.8423e-04	1	10	0.03044	0.986	1.6426	0.15908	0.00	------
6.37	Aldrin	1837	7.6885e-04	1	10	0.03044	0.986	1.6426	0.25258	0.00	------
7.24	Heptachlor epoxide	1818	8.0164e-04	1	10	0.03044	0.986	1.6426	0.26335	0.00	------
7.41	gamma-Chlordane	1178	4.9749e-04	1	10	0.03044	0.986	1.6426	0.16343	0.00	------
7.62	alpha-Chlordane	0	0.00000000	1	10	0.03044	0.986	----------	0.00000	--------	------
7.69	4,4'-DDE	1326	7.0183e-04	1	10	0.03044	0.986	3.2852	0.23056	0.00	------
7.82	Endosulfan I	0	0.00000000	1	10	0.03044	0.986	----------	0.00000	--------	------
8.23	Dieldrin	2117	1.0268e-03	1	10	0.03044	0.986	3.2852	0.33730	0.00	------
8.51	Endrin	0	0.00000000	1	10	0.03044	0.986	----------	0.00000	--------	------
8.58	4,4'-DDD	5559	3.3983e-03	1	10	0.03044	0.986	3.2852	1.11640	0.00	------
8.84	Endosulfan II	494	2.7265e-04	1	10	0.03044	0.986	3.2852	0.08957	0.00	------
9.00	4,4'-DDT	0	0.00000000	1	10	0.03044	0.986	----------	0.00000	--------	------
9.51	Endrin aldehyde	2835	1.8226e-03	1	10	0.03044	0.986	3.2852	0.59876	0.00	------
9.69	Methoxychlor	1275	1.3603e-03	1	10	0.03044	0.986	16.4258	0.44689	0.00	------
10.07	Endosulfan sulfate	0	0.00000000	1	10	0.03044	0.986	----------	0.00000	--------	------
10.51	Endrin ketone	3875	1.8085e-03	1	10	0.03044	0.986	3.2852	0.59413	0.00	------
11.55	Decachlorobiphenyl	120603	0.06563428	1	10	0.03044	0.986	3.2852	21.56185	39.42	54.7

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:19:12
Operator	: sagers	Sample Name	: 1514293022
Sample Number	: 028	Study	: F9L79
AutoSampler	: HP7673A	Rack/Vial	: 0/28
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 23:31:41	Dilution Factor	: 1.00
		Cycle	: 13

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_028.raw <Modified>
Result File : \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_028.rst
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_028.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_028.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150608\21_RPT_2UL\21_som_soil_sample_b.rpt
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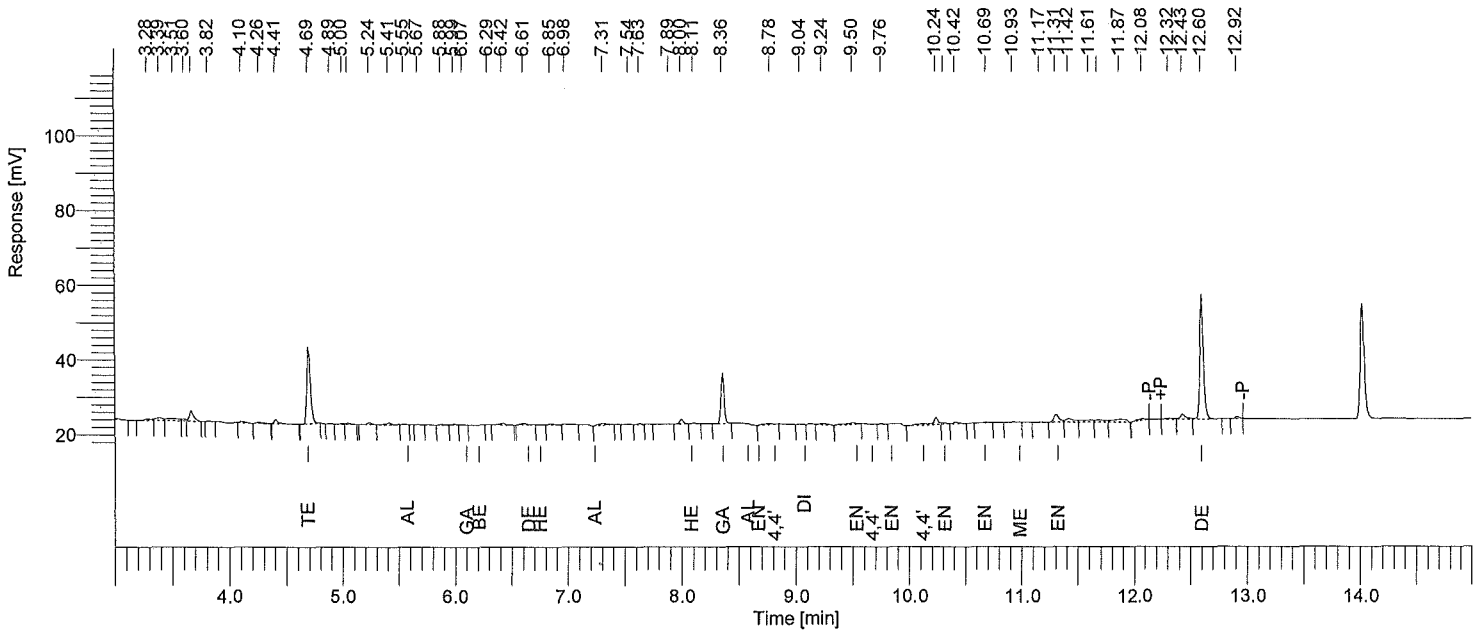

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.69	Tetrachloro-m-xylene	45730	0.03061955	1	10	0.03044	0.986	1.6426	10.05898	19.71	51.0
5.55	alpha-BHC	268	1.5093e-04	1	10	0.03044	0.986	1.6426	0.04958	0.00	------
6.07	gamma-BHC	146	9.0399e-05	1	10	0.03044	0.986	1.6426	0.02970	0.00	------
6.21	beta-BHC	0	0.00000000	1	10	0.03044	0.986	---------	0.00000	--------	------
6.61	delta-BHC	1479	1.0466e-03	1	10	0.03044	0.986	1.6426	0.34381	0.00	------
6.75	Heptachlor	0	0.00000000	1	10	0.03044	0.986	---------	0.00000	--------	------
7.24	Aldrin	0	0.00000000	1	10	0.03044	0.986	---------	0.00000	--------	------
8.11	Heptachlor epoxide	542	4.0251e-04	1	10	0.03044	0.986	1.6426	0.13223	0.00	------
8.36	gamma-Chlordane	26002	0.01873318	1	10	0.03044	0.986	1.6426	6.15413	0.00	------
8.58	alpha-Chlordane	0	0.00000000	1	10	0.03044	0.986	---------	0.00000	--------	------
8.67	Endosulfan I	0	0.00000000	1	10	0.03044	0.986	---------	0.00000	--------	------
8.78	4,4'-DDE	1718	1.4482e-03	1	10	0.03044	0.986	3.2852	0.47574	0.00	------
9.04	Dieldrin	361	2.8758e-04	1	10	0.03044	0.986	3.2852	0.09448	0.00	------
9.50	Endrin	2672	2.6418e-03	1	10	0.03044	0.986	3.2852	0.86787	0.00	------
9.67	4,4'-DDD	0	0.00000000	1	10	0.03044	0.986	---------	0.00000	--------	------
9.85	Endosulfan II	0	0.00000000	1	10	0.03044	0.986	---------	0.00000	--------	------
10.12	4,4'-DDT	0	0.00000000	1	10	0.03044	0.986	---------	0.00000	--------	------
10.31	Endrin aldehyde	1386	1.6284e-03	1	10	0.03044	0.986	3.2852	0.53497	0.00	------
10.69	Endosulfan sulfate	596	6.6821e-04	1	10	0.03044	0.986	3.2852	0.21952	0.00	------
10.93	Methoxychlor	420	7.9074e-04	1	10	0.03044	0.986	16.4258	0.25977	0.00	------
11.31	Endrin ketone	6849	5.6734e-03	1	10	0.03044	0.986	3.2852	1.86379	0.00	------
12.60	Decachlorobiphenyl	74785	0.07035834	1	10	0.03044	0.986	3.2852	23.11378	39.42	58.6

One surrogate 30-150% for field samples, both for method blank.

6J - FORM VI PEST-1

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: GCE21

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

GC Column: RTXCLP ID: 0.32 (mm) Dates(s) Analyzed: 06/04/2015 06/04/2015

COMPOUND	RT OF STANDARDS					$\overline{RT}$	RT WINDOW*	
	CS1	CS2	CS3	CS4	CS5		FROM	TO
alpha-BHC	4.81	4.81	4.81	4.81	4.81	4.81	4.76	4.86
beta-BHC	5.36	5.36	5.36	5.36	5.36	5.36	5.31	5.41
delta-BHC	5.61	5.61	5.61	5.61	5.61	5.61	5.56	5.66
gamma-BHC (Lindane)	5.24	5.24	5.24	5.24	5.24	5.24	5.19	5.29
Heptachlor	5.90	5.90	5.90	5.90	5.90	5.90	5.85	5.95
Aldrin	6.32	6.33	6.33	6.33	6.33	6.33	6.28	6.38
Heptachlor epoxide	7.19	7.19	7.19	7.19	7.19	7.19	7.12	7.26
Endosulfan I	7.75	7.76	7.76	7.76	7.76	7.76	7.69	7.83
Dieldrin	8.10	8.10	8.10	8.10	8.10	8.10	8.03	8.17
4,4'-DDE	7.67	7.67	7.67	7.67	7.67	7.67	7.60	7.74
Endrin	8.44	8.44	8.44	8.44	8.44	8.44	8.37	8.51
Endosulfan II	8.76	8.76	8.76	8.76	8.76	8.76	8.69	8.83
4,4'-DDD	8.53	8.53	8.53	8.53	8.53	8.53	8.46	8.60
Endosulfan sulfate	10.01	10.01	10.01	10.01	10.01	10.01	9.94	10.08
4,4'-DDT	8.94	8.94	8.94	8.94	8.94	8.94	8.87	9.01
Methoxychlor	9.64	9.65	9.65	9.65	9.65	9.65	9.58	9.72
Endrin ketone	10.38	10.38	10.38	10.39	10.38	10.38	10.31	10.45
Endrin aldehyde	9.37	9.38	9.37	9.38	9.38	9.38	9.31	9.45
alpha-Chlordane	7.56	7.56	7.56	7.56	7.56	7.56	7.49	7.63
gamma-Chlordane	7.37	7.37	7.37	7.37	7.37	7.37	7.30	7.44
Tetrachloro-m-xylene	4.06	4.06	4.06	4.06	4.06	4.06	4.01	4.11
Decachlorobiphenyl	11.51	11.52	11.51	11.52	11.51	11.51	11.41	11.61

(A) Surrogate RTs are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate RTs are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

* RT windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide; ± 0.07 minutes for other compounds (except ± 0.10 minutes for DCB).

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6J - FORM VI PEST-1

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: GCE21

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

GC Column: RTXCLP ID: 0.32 (mm) Dates(s) Analyzed: 06/08/2015 06/08/2015

COMPOUND	RT OF STANDARDS					$\overline{RT}$	RT WINDOW*	
	CS1	CS2	CS3	CS4	CS5		FROM	TO
alpha-BHC	4.87	4.87	4.87	4.87	4.87	4.87	4.82	4.92
beta-BHC	5.43	5.42	5.42	5.42	5.42	5.42	5.37	5.47
delta-BHC	5.67	5.67	5.67	5.67	5.67	5.67	5.62	5.72
gamma-BHC (Lindane)	5.31	5.30	5.30	5.30	5.30	5.30	5.25	5.35
Heptachlor	5.97	5.97	5.96	5.96	5.96	5.96	5.91	6.01
Aldrin	6.39	6.39	6.39	6.39	6.39	6.39	6.34	6.44
Heptachlor epoxide	7.26	7.26	7.26	7.26	7.26	7.26	7.19	7.33
Endosulfan I	7.83	7.83	7.83	7.82	7.82	7.82	7.75	7.89
Dieldrin	8.17	8.17	8.17	8.17	8.17	8.17	8.10	8.24
4,4'-DDE	7.74	7.73	7.73	7.73	7.73	7.73	7.66	7.80
Endrin	8.51	8.51	8.51	8.51	8.51	8.51	8.44	8.58
Endosulfan II	8.83	8.83	8.83	8.83	8.83	8.83	8.76	8.90
4,4'-DDD	8.60	8.60	8.60	8.60	8.60	8.60	8.53	8.67
Endosulfan sulfate	10.08	10.08	10.08	10.07	10.07	10.08	10.01	10.15
4,4'-DDT	9.00	9.00	9.00	9.00	9.00	9.00	8.93	9.07
Methoxychlor	9.70	9.70	9.70	9.70	9.70	9.70	9.63	9.77
Endrin ketone	10.44	10.44	10.44	10.44	10.44	10.44	10.37	10.51
Endrin aldehyde	9.45	9.45	9.45	9.45	9.45	9.45	9.38	9.52
alpha-Chlordane	7.63	7.63	7.62	7.62	7.62	7.62	7.55	7.69
gamma-Chlordane	7.44	7.43	7.43	7.43	7.43	7.43	7.36	7.50
Tetrachloro-m-xylene	4.12	4.12	4.12	4.12	4.12	4.12	4.07	4.17
Decachlorobiphenyl	11.56	11.55	11.55	11.55	11.55	11.55	11.45	11.65

(A) Surrogate RTs are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate RTs are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

* RT windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide; ± 0.07 minutes for other compounds (except ± 0.10 minutes for DCB).

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6J - FORM VI PEST-1

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: GCE21

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

GC Column: RTXCLP2 ID: 0.32 (mm) Dates(s) Analyzed: 06/04/2015 06/04/2015

COMPOUND	RT OF STANDARDS					$\overline{RT}$	RT WINDOW*	
	CS1	CS2	CS3	CS4	CS5		FROM	TO
alpha-BHC	5.40	5.40	5.40	5.40	5.40	5.40	5.35	5.45
beta-BHC	6.03	6.03	6.03	6.03	6.03	6.03	5.98	6.08
delta-BHC	6.46	6.46	6.46	6.46	6.46	6.46	6.41	6.51
gamma-BHC (Lindane)	5.91	5.91	5.91	5.91	5.91	5.91	5.86	5.96
Heptachlor	6.55	6.55	6.55	6.55	6.55	6.55	6.50	6.60
Aldrin	7.03	7.03	7.03	7.03	7.03	7.03	6.98	7.08
Heptachlor epoxide	7.87	7.87	7.87	7.87	7.87	7.87	7.80	7.94
Endosulfan I	8.45	8.45	8.45	8.45	8.45	8.45	8.38	8.52
Dieldrin	8.86	8.86	8.86	8.86	8.85	8.85	8.78	8.92
4,4'-DDE	8.60	8.60	8.60	8.60	8.60	8.60	8.53	8.67
Endrin	9.31	9.31	9.31	9.31	9.31	9.31	9.24	9.38
Endosulfan II	9.62	9.62	9.62	9.62	9.62	9.62	9.55	9.69
4,4'-DDD	9.45	9.46	9.46	9.45	9.45	9.45	9.38	9.52
Endosulfan sulfate	10.48	10.48	10.48	10.48	10.48	10.48	10.41	10.55
4,4'-DDT	9.92	9.92	9.92	9.92	9.92	9.92	9.85	9.99
Methoxychlor	10.81	10.81	10.81	10.81	10.81	10.81	10.74	10.88
Endrin ketone	11.13	11.13	11.13	11.13	11.13	11.13	11.06	11.20
Endrin aldehyde	10.11	10.11	10.11	10.11	10.11	10.11	10.04	10.18
alpha-Chlordane	8.36	8.36	8.36	8.36	8.36	8.36	8.29	8.43
gamma-Chlordane	8.15	8.15	8.15	8.15	8.15	8.15	8.08	8.22
Tetrachloro-m-xylene	4.53	4.53	4.53	4.53	4.53	4.53	4.48	4.58
Decachlorobiphenyl	12.41	12.41	12.41	12.41	12.41	12.41	12.31	12.51

(A) Surrogate RTs are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate RTs are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

* RT windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide; ± 0.07 minutes for other compounds (except ± 0.10 minutes for DCB).

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6J - FORM VI PEST-1

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: GCE21

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

GC Column: RTXCLP2 ID: 0.32 (mm) Dates(s) Analyzed: 06/08/2015 06/08/2015

COMPOUND	RT OF STANDARDS					$\overline{RT}$	RT WINDOW*	
	CS1	CS2	CS3	CS4	CS5		FROM	TO
alpha-BHC	5.58	5.58	5.58	5.58	5.58	5.58	5.53	5.63
beta-BHC	6.22	6.21	6.21	6.21	6.21	6.21	6.16	6.26
delta-BHC	6.65	6.65	6.65	6.65	6.65	6.65	6.60	6.70
gamma-BHC (Lindane)	6.10	6.10	6.10	6.10	6.10	6.10	6.05	6.15
Heptachlor	6.76	6.75	6.75	6.75	6.75	6.75	6.70	6.80
Aldrin	7.24	7.24	7.24	7.24	7.24	7.24	7.19	7.29
Heptachlor epoxide	8.09	8.09	8.09	8.08	8.08	8.09	8.02	8.16
Endosulfan I	8.67	8.67	8.67	8.67	8.67	8.67	8.60	8.74
Dieldrin	9.08	9.08	9.08	9.08	9.08	9.08	9.01	9.15
4,4'-DDE	8.82	8.81	8.81	8.81	8.81	8.81	8.74	8.88
Endrin	9.54	9.54	9.54	9.54	9.54	9.54	9.47	9.61
Endosulfan II	9.85	9.85	9.85	9.85	9.85	9.85	9.78	9.92
4,4'-DDD	9.67	9.67	9.67	9.67	9.67	9.67	9.60	9.74
Endosulfan sulfate	10.68	10.68	10.68	10.67	10.67	10.68	10.61	10.75
4,4'-DDT	10.13	10.13	10.13	10.12	10.12	10.13	10.06	10.20
Methoxychlor	10.99	10.99	10.99	10.99	10.99	10.99	10.92	11.06
Endrin ketone	11.32	11.32	11.32	11.32	11.32	11.32	11.25	11.39
Endrin aldehyde	10.32	10.32	10.32	10.32	10.32	10.32	10.25	10.39
alpha-Chlordane	8.58	8.58	8.58	8.58	8.58	8.58	8.51	8.65
gamma-Chlordane	8.36	8.36	8.36	8.36	8.36	8.36	8.29	8.43
Tetrachloro-m-xylene	4.69	4.69	4.69	4.69	4.69	4.69	4.64	4.74
Decachlorobiphenyl	12.60	12.60	12.60	12.60	12.60	12.60	12.50	12.70

(A) Surrogate RTs are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate RTs are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

* RT windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide; ± 0.07 minutes for other compounds (except ± 0.10 minutes for DCB).

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6K - FORM VI PEST-2

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: GCE21

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

GC Column: RTXCLP ID: 0.32 (mm) Dates(s) Analyzed: 06/04/2015 06/04/2015

COMPOUND	CALIBRATION FACTORS (CFs)					% RSD
	CS1	CS2	CS3	CS4	CS5	
alpha-BHC	1420000	1320000	1460000	1530000	1330000	6.3
beta-BHC	731000	667000	711000	704000	575000	9.1
delta-BHC	1190000	1090000	1290000	1350000	1130000	9.1
gamma-BHC (Lindane)	1340000	1230000	1350000	1390000	1190000	6.6
Heptachlor	1460000	1320000	1380000	1370000	1150000	8.7
Aldrin	1250000	1100000	1190000	1230000	1050000	7.4
Heptachlor epoxide	1200000	1060000	1120000	1130000	927000	9.4
Endosulfan I	1110000	999000	1100000	1110000	916000	8.3
Dieldrin	1030000	923000	1030000	1040000	845000	8.8
4,4'-DDE	928000	840000	970000	994000	791000	9.5
Endrin	962000	845000	951000	976000	770000	9.9
Endosulfan II	921000	755000	880000	891000	696000	11.8
4,4'-DDD	742000	663000	821000	843000	662000	11.4
Endosulfan sulfate	782000	644000	781000	805000	615000	12.2
4,4'-DDT	873000	734000	888000	914000	704000	11.7
Methoxychlor	473000	371000	431000	423000	320000	14.6
Endrin ketone	1010000	817000	975000	989000	753000	12.7
Endrin aldehyde	773000	634000	741000	738000	561000	12.9
alpha-Chlordane	1260000	1080000	1170000	1170000	954000	10.2
gamma-Chlordane	1430000	1140000	1160000	1150000	944000	14.8
Tetrachloro-m-xylene	1410000	1150000	1160000	1160000	958000	13.8
Decachlorobiphenyl	942000	708000	826000	809000	577000	17.8

(A) Surrogate CFs and %RSD are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate CFs and %RSD are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6K - FORM VI PEST-2

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: GCE21

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

GC Column: RTXCLP ID: 0.32 (mm) Dates(s) Analyzed: 06/08/2015 06/08/2015

COMPOUND	CALIBRATION FACTORS (CFs)					% RSD
	CS1	CS2	CS3	CS4	CS5	
alpha-BHC	1400000	1270000	1450000	1520000	1430000	6.6
beta-BHC	759000	629000	709000	700000	631000	8.1
delta-BHC	1220000	1070000	1220000	1310000	1240000	7.3
gamma-BHC (Lindane)	1350000	1200000	1320000	1370000	1270000	5.2
Heptachlor	1520000	1330000	1390000	1390000	1270000	6.9
Aldrin	1280000	1090000	1200000	1240000	1160000	6.0
Heptachlor epoxide	1270000	1080000	1130000	1140000	1040000	7.5
Endosulfan I	1250000	1080000	1170000	1160000	1080000	6.3
Dieldrin	1110000	953000	1050000	1070000	977000	6.2
4,4'-DDE	1000000	840000	946000	1010000	930000	7.1
Endrin	973000	780000	859000	913000	830000	8.6
Endosulfan II	1030000	825000	925000	914000	832000	9.3
4,4'-DDD	858000	715000	835000	870000	812000	7.5
Endosulfan sulfate	914000	715000	800000	829000	752000	9.5
4,4'-DDT	999000	801000	932000	941000	865000	8.4
Methoxychlor	574000	425000	459000	465000	421000	13.2
Endrin ketone	1240000	990000	1070000	1080000	973000	9.8
Endrin aldehyde	906000	710000	791000	783000	700000	10.6
alpha-Chlordane	1330000	1100000	1170000	1180000	1070000	8.7
gamma-Chlordane	1430000	1120000	1150000	1160000	1060000	11.9
Tetrachloro-m-xylene	1340000	1060000	1110000	1120000	1010000	10.9
Decachlorobiphenyl	1170000	864000	915000	885000	756000	16.8

(A) Surrogate CFs and %RSD are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate CFs and %RSD are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6K - FORM VI PEST-2

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: GCE21

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

GC Column: RTXCLP2 ID: 0.32 (mm) Dates(s) Analyzed: 06/04/2015 06/04/2015

COMPOUND	CALIBRATION FACTORS (CFs)					% RSD
	CS1	CS2	CS3	CS4	CS5	
alpha-BHC	1070000	899000	1140000	1110000	1060000	8.9
beta-BHC	572000	459000	528000	480000	435000	11.1
delta-BHC	850000	722000	935000	896000	851000	9.4
gamma-BHC (Lindane)	1020000	850000	1050000	1000000	942000	8.2
Heptachlor	1100000	900000	1080000	1010000	934000	8.7
Aldrin	883000	756000	940000	873000	848000	7.8
Heptachlor epoxide	846000	734000	874000	805000	745000	7.7
Endosulfan I	797000	685000	818000	758000	700000	7.8
Dieldrin	795000	691000	827000	767000	705000	7.7
4,4'-DDE	757000	666000	797000	738000	676000	7.6
Endrin	695000	626000	710000	672000	607000	6.7
Endosulfan II	683000	600000	687000	627000	574000	7.9
4,4'-DDD	590000	553000	627000	576000	531000	6.3
Endosulfan sulfate	604000	523000	599000	553000	503000	8.1
4,4'-DDT	672000	614000	696000	639000	586000	6.9
Methoxychlor	371000	307000	331000	301000	272000	11.7
Endrin ketone	822000	679000	753000	684000	622000	10.8
Endrin aldehyde	584000	521000	566000	500000	449000	10.3
alpha-Chlordane	917000	776000	908000	827000	754000	8.9
gamma-Chlordane	884000	869000	888000	814000	758000	6.6
Tetrachloro-m-xylene	1030000	799000	901000	842000	762000	12.0
Decachlorobiphenyl	763000	618000	640000	578000	486000	16.3

(A) Surrogate CFs and %RSD are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate CFs and %RSD are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6K - FORM VI PEST-2

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: GCE21

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

GC Column: RTXCLP2 ID: 0.32 (mm) Dates(s) Analyzed: 06/08/2015 06/08/2015

COMPOUND	CALIBRATION FACTORS (CFs)					% RSD
	CS1	CS2	CS3	CS4	CS5	
alpha-BHC	858000	807000	925000	956000	893000	6.5
beta-BHC	486000	419000	434000	420000	375000	9.3
delta-BHC	682000	636000	736000	764000	716000	7.0
gamma-BHC (Lindane)	822000	749000	836000	853000	788000	5.1
Heptachlor	886000	779000	850000	863000	794000	5.5
Aldrin	746000	657000	733000	755000	713000	5.4
Heptachlor epoxide	705000	633000	689000	692000	645000	4.7
Endosulfan I	652000	577000	630000	640000	600000	5.0
Dieldrin	646000	581000	643000	657000	612000	4.9
4,4'-DDE	612000	549000	607000	622000	575000	5.1
Endrin	546000	466000	508000	533000	476000	6.8
Endosulfan II	563000	489000	537000	545000	500000	5.9
4,4'-DDD	485000	438000	482000	494000	455000	5.0
Endosulfan sulfate	484000	419000	448000	462000	418000	6.3
4,4'-DDT	544000	483000	523000	539000	496000	5.2
Methoxychlor	314000	258000	258000	262000	235000	11.0
Endrin ketone	686000	577000	599000	606000	549000	8.5
Endrin aldehyde	489000	412000	428000	418000	381000	9.3
alpha-Chlordane	752000	654000	701000	699000	640000	6.4
gamma-Chlordane	730000	707000	695000	694000	644000	4.5
Tetrachloro-m-xylene	855000	733000	755000	739000	652000	9.7
Decachlorobiphenyl	657000	538000	521000	509000	434000	15.1

(A) Surrogate CFs and %RSD are measured from Standard Mixture A if two mixtures are used or from Standard Mixture C if one mixture is used.

(B) Surrogate CFs and %RSD are measured from Standard Mixture B if two mixtures are used. Leave entries blank if Standard Mixture C is used.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6L - FORM VI PEST-3
TOXAPHENE INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID (1): GCE21 Date(s) Analyzed (1): 06/04/2015 06/04/2015

GC Column (1): RTXCLP ID: 0.32 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

COMPOUND	PEAK[1]	RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
Toxaphene	1	8.75	8.75	8.75	8.75	8.75	8.75	8.68	8.82
	2	9.25	9.25	9.24	9.24	9.24	9.24	9.17	9.31
	3	9.73	9.73	9.73	9.73	9.73	9.73	9.66	9.80
	4	9.94	9.94	9.94	9.94	9.94	9.94	9.87	10.01
	5	10.36	10.36	10.36	10.36	10.36	10.36	10.29	10.43

Instrument ID (2): GCE21 Date(s) Analyzed (2): 06/04/2015 06/04/2015

GC Column (2): RTXCLP2 ID: 0.32 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

COMPOUND	PEAK[1]	RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
Toxaphene	1	8.82	8.82	8.82	8.82	8.82	8.82	8.75	8.89
	2	9.60	9.60	9.60	9.60	9.60	9.60	9.53	9.67
	3	9.74	9.74	9.74	9.74	9.74	9.74	9.67	9.81
	4	10.11	10.11	10.11	10.11	10.11	10.11	10.04	10.18
	5	10.78	10.78	10.78	10.78	10.78	10.78	10.71	10.85

[1]At least three peaks for each column are required for identification of Toxaphene.

6L - FORM VI PEST-3
TOXAPHENE INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID (1): GCE21 Date(s) Analyzed (1): 06/08/2015 06/08/2015

GC Column (1): RTXCLP ID: 0.32 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

COMPOUND	PEAK[1]	RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
Toxaphene	1	8.83	8.82	8.82	8.82	8.82	8.82	8.75	8.89
	2	9.50	9.50	9.50	9.50	9.50	9.50	9.43	9.57
	3	9.81	9.81	9.80	9.80	9.80	9.80	9.73	9.87
	4	9.94	9.94	9.94	9.93	9.93	9.94	9.87	10.01
	5	10.42	10.42	10.42	10.42	10.41	10.42	10.35	10.49

Instrument ID (2): GCE21 Date(s) Analyzed (2): 06/08/2015 06/08/2015

GC Column (2): RTXCLP2 ID: 0.32 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

COMPOUND	PEAK[1]	RT OF STANDARDS					$\overline{RT}$	RT WINDOW	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
Toxaphene	1	9.05	9.05	9.05	9.05	9.05	9.05	8.98	9.12
	2	9.83	9.83	9.83	9.83	9.83	9.83	9.76	9.90
	3	9.97	9.97	9.97	9.97	9.97	9.97	9.90	10.04
	4	10.33	10.33	10.33	10.32	10.32	10.33	10.26	10.40
	5	10.98	10.98	10.98	10.98	10.98	10.98	10.91	11.05

[1]At least three peaks for each column are required for identification of Toxaphene.

6M - FORM VI PEST-4
TOXAPHENE INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID (1): GCE21 Date(s) Analyzed (1): 06/04/2015 06/04/2015

GC Column (1): RTXCLP ID: 0.32 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

COMPOUND	PEAK[1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
Toxaphene	1	44700	46100	41500	40700	34200	11.1
	2	32000	34100	31300	30800	26000	9.7
	3	33600	35800	32900	33100	27700	9.0
	4	23500	25100	22900	23200	19600	8.8
	5	21600	23600	22200	23200	19700	7.1

Instrument ID (2): GCE21 Date(s) Analyzed (2): 06/04/2015 06/04/2015

GC Column (2): RTXCLP2 ID: 0.32 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

COMPOUND	PEAK[1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
Toxaphene	1	14500	16800	14500	14700	14400	6.9
	2	17400	20200	17500	17400	17200	7.0
	3	40000	45100	38900	38800	38700	6.8
	4	25500	29000	25300	25100	25100	6.5
	5	25400	28900	25200	25100	25300	6.2

[1]At least three peaks for each column are required for identification of Toxaphene.

6M - FORM VI PEST-4
TOXAPHENE INITIAL CALIBRATION

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID (1): GCE21 Date(s) Analyzed (1): 06/08/2015 06/08/2015

GC Column (1): RTXCLP ID: 0.32 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

COMPOUND	PEAK[1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
Toxaphene	1	43700	44000	43700	41000	41100	3.6
	2	23100	24900	25300	24600	25200	3.7
	3	31800	33900	34300	33300	34000	3.0
	4	39400	40000	39400	37400	37900	2.9
	5	21100	23000	24000	24000	25600	7.0

Instrument ID (2): GCE21 Date(s) Analyzed (2): 06/08/2015 06/08/2015

GC Column (2): RTXCLP2 ID: 0.32 (mm)

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 20

COMPOUND	PEAK[1]	CALIBRATION FACTORS (CFs) STANDARDS					%RSD
		CS1	CS2	CS3	CS4	CS5	
Toxaphene	1	11900	13300	12700	12800	11700	5.1
	2	14600	16000	15400	15500	14200	4.8
	3	32300	35300	33600	34000	31300	4.6
	4	21300	23300	22300	22700	20900	4.5
	5	22200	23400	22500	22800	21000	4.0

[1]At least three peaks for each column are required for identification of Toxaphene.

6R - FORM VI PEST-5

PESTICIDE RESOLUTION CHECK SUMMARY

COLUMN 1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (RESC##): RESC11 Lab Sample ID (1): RESC11

Date Analyzed (1): 06/04/2015 Time Analyzed (1): 18:24

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.06	100.0
02	alpha-BHC	4.81	100.0
03	gamma-BHC (Lindane)	5.24	100.0
04	beta-BHC	5.36	100.0
05	delta-BHC	5.61	100.0
06	Heptachlor	5.90	100.0
07	Aldrin	6.33	100.0
08	Heptachlor epoxide	7.19	100.0
09	gamma-Chlordane	7.37	100.0
10	alpha-Chlordane	7.56	100.0
11	4,4'-DDE	7.67	100.0
12	Endosulfan I	7.75	100.0
13	Dieldrin	8.10	100.0
14	Endrin	8.44	100.0
15	4,4'-DDD	8.53	100.0
16	Endosulfan II	8.76	100.0
17	4,4'-DDT	8.94	100.0
18	Endrin aldehyde	9.37	100.0
19	Methoxychlor	9.64	100.0
20	Endosulfan sulfate	10.01	100.0
21	Endrin ketone	10.38	100.0
22	Decachlorobiphenyl	11.51	

6R - FORM VI PEST-5

PESTICIDE RESOLUTION CHECK SUMMARY

COLUMN 1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (RESC##): RESC51 Lab Sample ID (1): RESC51

Date Analyzed (1): 06/08/2015 Time Analyzed (1): 15:00

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.12	100.0
02	alpha-BHC	4.87	100.0
03	gamma-BHC (Lindane)	5.31	100.0
04	beta-BHC	5.43	100.0
05	delta-BHC	5.67	100.0
06	Heptachlor	5.97	100.0
07	Aldrin	6.39	100.0
08	Heptachlor epoxide	7.26	100.0
09	gamma-Chlordane	7.44	100.0
10	alpha-Chlordane	7.63	100.0
11	4,4'-DDE	7.74	100.0
12	Endosulfan I	7.83	100.0
13	Dieldrin	8.18	100.0
14	Endrin	8.51	100.0
15	4,4'-DDD	8.60	100.0
16	Endosulfan II	8.84	100.0
17	4,4'-DDT	9.01	100.0
18	Endrin aldehyde	9.45	100.0
19	Methoxychlor	9.71	100.0
20	Endosulfan sulfate	10.08	100.0
21	Endrin ketone	10.45	100.0
22	Decachlorobiphenyl	11.56	

6T - FORM VI PEST-5

PESTICIDE RESOLUTION CHECK SUMMARY

COLUMN 2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (RESC##): RESC52 Lab Sample ID (2): RESC52

Date Analyzed (2): 06/08/2015 Time Analyzed (2): 15:20

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.69	100.0
02	alpha-BHC	5.58	100.0
03	gamma-BHC (Lindane)	6.10	100.0
04	beta-BHC	6.22	100.0
05	delta-BHC	6.65	100.0
06	Heptachlor	6.76	100.0
07	Aldrin	7.24	100.0
08	Heptachlor epoxide	8.09	100.0
09	gamma-Chlordane	8.37	100.0
10	alpha-Chlordane	8.59	100.0
11	Endosulfan I	8.68	100.0
12	4,4'-DDE	8.82	100.0
13	Dieldrin	9.08	100.0
14	Endrin	9.54	100.0
15	4,4'-DDD	9.68	100.0
16	Endosulfan II	9.85	100.0
17	4,4'-DDT	10.13	100.0
18	Endrin aldehyde	10.32	100.0
19	Endosulfan sulfate	10.68	100.0
20	Methoxychlor	10.99	100.0
21	Endrin ketone	11.33	100.0
22	Decachlorobiphenyl	12.61	

6T - FORM VI PEST-5

PESTICIDE RESOLUTION CHECK SUMMARY

COLUMN 2

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (RESC##): RESC12 Lab Sample ID (2): RESC12

Date Analyzed (2): 06/04/2015 Time Analyzed (2): 18:44

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.53	100.0
02	alpha-BHC	5.39	100.0
03	gamma-BHC (Lindane)	5.91	100.0
04	beta-BHC	6.03	100.0
05	delta-BHC	6.45	100.0
06	Heptachlor	6.55	100.0
07	Aldrin	7.03	100.0
08	Heptachlor epoxide	7.87	100.0
09	gamma-Chlordane	8.14	100.0
10	alpha-Chlordane	8.36	100.0
11	Endosulfan I	8.45	100.0
12	4,4'-DDE	8.60	100.0
13	Dieldrin	8.85	100.0
14	Endrin	9.30	100.0
15	4,4'-DDD	9.45	100.0
16	Endosulfan II	9.62	100.0
17	4,4'-DDT	9.91	100.0
18	Endrin aldehyde	10.10	100.0
19	Endosulfan sulfate	10.47	100.0
20	Methoxychlor	10.81	100.0
21	Endrin ketone	11.13	100.0
22	Decachlorobiphenyl	12.41	

6U - FORM VI PEST-6

PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (PEM##): PEM11 Lab Sample ID (1): PEM11

Date Analyzed (1): 06/04/2015 Time Analyzed (1): 18:44

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.06	100.0
02	alpha-BHC	4.81	100.0
03	gamma-BHC (Lindane)	5.24	100.0
04	beta-BHC	5.36	100.0
05	Endrin	8.44	100.0
06	4,4'-DDT	8.94	100.0
07	Methoxychlor	9.64	100.0
08	Decachlorobiphenyl	11.51	

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (PEM##): PEM12 Lab Sample ID (2): PEM12

Date Analyzed (2): 06/04/2015 Time Analyzed (2): 19:05

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.53	100.0
02	alpha-BHC	5.40	100.0
03	gamma-BHC (Lindane)	5.91	100.0
04	beta-BHC	6.03	100.0
05	Endrin	9.30	100.0
06	4,4'-DDT	9.91	100.0
07	Methoxychlor	10.81	100.0
08	Decachlorobiphenyl	12.41	

6U - FORM VI PEST-6

PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (PEM##): PEM21 Lab Sample ID (1): PEM21

Date Analyzed (1): 06/04/2015 Time Analyzed (1): 22:50

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.07	100.0
02	alpha-BHC	4.81	100.0
03	gamma-BHC (Lindane)	5.24	100.0
04	beta-BHC	5.36	100.0
05	Endrin	8.44	100.0
06	4,4'-DDT	8.94	100.0
07	Methoxychlor	9.65	100.0
08	Decachlorobiphenyl	11.52	

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (PEM##): PEM22 Lab Sample ID (2): PEM22

Date Analyzed (2): 06/04/2015 Time Analyzed (2): 23:10

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.53	100.0
02	alpha-BHC	5.40	100.0
03	gamma-BHC (Lindane)	5.91	100.0
04	beta-BHC	6.03	100.0
05	Endrin	9.31	100.0
06	4,4'-DDT	9.92	100.0
07	Methoxychlor	10.81	100.0
08	Decachlorobiphenyl	12.41	

6U - FORM VI PEST-6
PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (PEM##): PEM51 Lab Sample ID (1): PEM51

Date Analyzed (1): 06/08/2015 Time Analyzed (1): 15:20

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.12	100.0
02	alpha-BHC	4.87	100.0
03	gamma-BHC (Lindane)	5.31	100.0
04	beta-BHC	5.43	100.0
05	Endrin	8.51	100.0
06	4,4'-DDT	9.01	100.0
07	Methoxychlor	9.71	100.0
08	Decachlorobiphenyl	11.56	

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (PEM##): PEM52 Lab Sample ID (2): PEM52

Date Analyzed (2): 06/08/2015 Time Analyzed (2): 15:40

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.69	100.0
02	alpha-BHC	5.58	100.0
03	gamma-BHC (Lindane)	6.10	100.0
04	beta-BHC	6.22	100.0
05	Endrin	9.54	100.0
06	4,4'-DDT	10.13	100.0
07	Methoxychlor	10.99	100.0
08	Decachlorobiphenyl	12.61	

6U - FORM VI PEST-6

PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (PEM##): PEM61 Lab Sample ID (1): PEM61

Date Analyzed (1): 06/08/2015 Time Analyzed (1): 19:26

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.12	100.0
02	alpha-BHC	4.87	100.0
03	gamma-BHC (Lindane)	5.30	100.0
04	beta-BHC	5.42	100.0
05	Endrin	8.51	100.0
06	4,4'-DDT	9.00	100.0
07	Methoxychlor	9.70	100.0
08	Decachlorobiphenyl	11.55	

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (PEM##): PEM62 Lab Sample ID (2): PEM62

Date Analyzed (2): 06/08/2015 Time Analyzed (2): 19:46

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.69	100.0
02	alpha-BHC	5.58	100.0
03	gamma-BHC (Lindane)	6.10	100.0
04	beta-BHC	6.21	100.0
05	Endrin	9.54	100.0
06	4,4'-DDT	10.12	100.0
07	Methoxychlor	10.99	100.0
08	Decachlorobiphenyl	12.60	

6X - FORM VI PEST-9
INDIVIDUAL STANDARD MIXTURE C

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (INDC3##): INDC311 Lab Sample ID (1): INDC311

Date Analyzed (1): 06/04/2015 Time Analyzed (1): 21:28

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.06	100.0
02	alpha-BHC	4.81	100.0
03	gamma-BHC (Lindane)	5.24	100.0
04	beta-BHC	5.36	100.0
05	delta-BHC	5.61	100.0
06	Heptachlor	5.90	100.0
07	Aldrin	6.33	100.0
08	Heptachlor epoxide	7.19	100.0
09	gamma-Chlordane	7.37	100.0
10	alpha-Chlordane	7.56	100.0
11	4,4'-DDE	7.67	100.0
12	Endosulfan I	7.76	100.0
13	Dieldrin	8.10	100.0
14	Endrin	8.44	100.0
15	4,4'-DDD	8.53	100.0
16	Endosulfan II	8.76	100.0
17	4,4'-DDT	8.94	100.0
18	Endrin aldehyde	9.37	100.0
19	Methoxychlor	9.65	100.0
20	Endosulfan sulfate	10.01	100.0
21	Endrin ketone	10.38	100.0
22	Decachlorobiphenyl	11.51	

6X - FORM VI PEST-9
INDIVIDUAL STANDARD MIXTURE C

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (INDC3##): INDC331 Lab Sample ID (1): INDC331

Date Analyzed (1): 06/05/2015 Time Analyzed (1): 04:16

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.06	100.0
02	alpha-BHC	4.81	100.0
03	gamma-BHC (Lindane)	5.24	100.0
04	beta-BHC	5.36	100.0
05	delta-BHC	5.61	100.0
06	Heptachlor	5.90	100.0
07	Aldrin	6.32	100.0
08	Heptachlor epoxide	7.19	100.0
09	gamma-Chlordane	7.37	100.0
10	alpha-Chlordane	7.56	100.0
11	4,4'-DDE	7.67	100.0
12	Endosulfan I	7.75	100.0
13	Dieldrin	8.10	100.0
14	Endrin	8.44	100.0
15	4,4'-DDD	8.53	100.0
16	Endosulfan II	8.76	100.0
17	4,4'-DDT	8.94	100.0
18	Endrin aldehyde	9.37	100.0
19	Methoxychlor	9.64	100.0
20	Endosulfan sulfate	10.01	100.0
21	Endrin ketone	10.38	100.0
22	Decachlorobiphenyl	11.51	

6X - FORM VI PEST-9
INDIVIDUAL STANDARD MIXTURE C

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (INDC3##): INDC351 Lab Sample ID (1): INDC351

Date Analyzed (1): 06/08/2015 Time Analyzed (1): 18:04

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.12	100.0
02	alpha-BHC	4.87	100.0
03	gamma-BHC (Lindane)	5.30	100.0
04	beta-BHC	5.42	100.0
05	delta-BHC	5.67	100.0
06	Heptachlor	5.96	100.0
07	Aldrin	6.39	100.0
08	Heptachlor epoxide	7.26	100.0
09	gamma-Chlordane	7.43	100.0
10	alpha-Chlordane	7.62	100.0
11	4,4'-DDE	7.73	100.0
12	Endosulfan I	7.83	100.0
13	Dieldrin	8.17	100.0
14	Endrin	8.51	100.0
15	4,4'-DDD	8.60	100.0
16	Endosulfan II	8.83	100.0
17	4,4'-DDT	9.00	100.0
18	Endrin aldehyde	9.45	100.0
19	Methoxychlor	9.70	100.0
20	Endosulfan sulfate	10.08	100.0
21	Endrin ketone	10.44	100.0
22	Decachlorobiphenyl	11.55	

6X - FORM VI PEST-9
INDIVIDUAL STANDARD MIXTURE C

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (1): RTXCLP ID: 0.32 (mm) Instrument ID (1): GCE21

EPA Sample No. (INDC3##): INDC371 Lab Sample ID (1): INDC371

Date Analyzed (1): 06/08/2015 Time Analyzed (1): 23:51

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.12	100.0
02	alpha-BHC	4.87	100.0
03	gamma-BHC (Lindane)	5.30	100.0
04	beta-BHC	5.42	100.0
05	delta-BHC	5.67	100.0
06	Heptachlor	5.96	100.0
07	Aldrin	6.39	100.0
08	Heptachlor epoxide	7.26	100.0
09	gamma-Chlordane	7.43	100.0
10	alpha-Chlordane	7.62	100.0
11	4,4'-DDE	7.73	100.0
12	Endosulfan I	7.83	100.0
13	Dieldrin	8.17	100.0
14	Endrin	8.51	100.0
15	4,4'-DDD	8.60	100.0
16	Endosulfan II	8.83	100.0
17	4,4'-DDT	9.00	100.0
18	Endrin aldehyde	9.45	100.0
19	Methoxychlor	9.70	100.0
20	Endosulfan sulfate	10.08	100.0
21	Endrin ketone	10.44	100.0
22	Decachlorobiphenyl	11.55	

6Y - FORM VI PEST-10
INDIVIDUAL STANDARD MIXTURE C

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (INDC3##): INDC312 Lab Sample ID (2): INDC312

Date Analyzed (2): 06/04/2015 Time Analyzed (2): 21:48

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.53	100.0
02	alpha-BHC	5.40	100.0
03	gamma-BHC (Lindane)	5.91	100.0
04	beta-BHC	6.03	100.0
05	delta-BHC	6.46	100.0
06	Heptachlor	6.55	100.0
07	Aldrin	7.03	100.0
08	Heptachlor epoxide	7.87	100.0
09	gamma-Chlordane	8.15	100.0
10	alpha-Chlordane	8.36	100.0
11	Endosulfan I	8.45	100.0
12	4,4'-DDE	8.60	100.0
13	Dieldrin	8.86	100.0
14	Endrin	9.31	100.0
15	4,4'-DDD	9.46	100.0
16	Endosulfan II	9.62	100.0
17	4,4'-DDT	9.92	100.0
18	Endrin aldehyde	10.11	100.0
19	Endosulfan sulfate	10.48	100.0
20	Methoxychlor	10.81	100.0
21	Endrin ketone	11.13	100.0
22	Decachlorobiphenyl	12.41	

6Y - FORM VI PEST-10
INDIVIDUAL STANDARD MIXTURE C

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (INDC3##): INDC372 Lab Sample ID (2): INDC372

Date Analyzed (2): 06/09/2015 Time Analyzed (2): 00:12

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.69	100.0
02	alpha-BHC	5.58	100.0
03	gamma-BHC (Lindane)	6.10	100.0
04	beta-BHC	6.21	100.0
05	delta-BHC	6.65	100.0
06	Heptachlor	6.75	100.0
07	Aldrin	7.24	100.0
08	Heptachlor epoxide	8.09	100.0
09	gamma-Chlordane	8.36	100.0
10	alpha-Chlordane	8.58	100.0
11	Endosulfan I	8.67	100.0
12	4,4'-DDE	8.82	100.0
13	Dieldrin	9.08	100.0
14	Endrin	9.54	100.0
15	4,4'-DDD	9.67	100.0
16	Endosulfan II	9.85	100.0
17	4,4'-DDT	10.13	100.0
18	Endrin aldehyde	10.32	100.0
19	Endosulfan sulfate	10.68	100.0
20	Methoxychlor	10.99	100.0
21	Endrin ketone	11.32	100.0
22	Decachlorobiphenyl	12.60	

6Y - FORM VI PEST-10
INDIVIDUAL STANDARD MIXTURE C

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (INDC3##): INDC352 Lab Sample ID (2): INDC352

Date Analyzed (2): 06/08/2015 Time Analyzed (2): 18:24

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.69	100.0
02	alpha-BHC	5.58	100.0
03	gamma-BHC (Lindane)	6.10	100.0
04	beta-BHC	6.21	100.0
05	delta-BHC	6.65	100.0
06	Heptachlor	6.75	100.0
07	Aldrin	7.24	100.0
08	Heptachlor epoxide	8.09	100.0
09	gamma-Chlordane	8.36	100.0
10	alpha-Chlordane	8.58	100.0
11	Endosulfan I	8.67	100.0
12	4,4'-DDE	8.81	100.0
13	Dieldrin	9.08	100.0
14	Endrin	9.54	100.0
15	4,4'-DDD	9.67	100.0
16	Endosulfan II	9.85	100.0
17	4,4'-DDT	10.13	100.0
18	Endrin aldehyde	10.32	100.0
19	Endosulfan sulfate	10.68	100.0
20	Methoxychlor	10.99	100.0
21	Endrin ketone	11.32	100.0
22	Decachlorobiphenyl	12.60	

6Y - FORM VI PEST-10
INDIVIDUAL STANDARD MIXTURE C

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (2): RTXCLP2 ID: 0.32 (mm) Instrument ID (2): GCE21

EPA Sample No. (INDC3##): INDC332 Lab Sample ID (2): INDC332

Date Analyzed (2): 06/05/2015 Time Analyzed (2): 04:37

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.53	100.0
02	alpha-BHC	5.40	100.0
03	gamma-BHC (Lindane)	5.91	100.0
04	beta-BHC	6.03	100.0
05	delta-BHC	6.46	100.0
06	Heptachlor	6.55	100.0
07	Aldrin	7.03	100.0
08	Heptachlor epoxide	7.87	100.0
09	gamma-Chlordane	8.15	100.0
10	alpha-Chlordane	8.36	100.0
11	Endosulfan I	8.45	100.0
12	4,4'-DDE	8.60	100.0
13	Dieldrin	8.85	100.0
14	Endrin	9.31	100.0
15	4,4'-DDD	9.45	100.0
16	Endosulfan II	9.62	100.0
17	4,4'-DDT	9.92	100.0
18	Endrin aldehyde	10.11	100.0
19	Endosulfan sulfate	10.48	100.0
20	Methoxychlor	10.81	100.0
21	Endrin ketone	11.13	100.0
22	Decachlorobiphenyl	12.41	

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No. (PIBLK##): Date Analyzed:

Lab Sample ID (PIBLK): Time Analyzed:

EPA Sample No. (PEM##): PEM11 Date Analyzed: 06/04/2015

Lab Sample ID (PEM): PEM11 Time Analyzed: 18:44

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.81	4.76	4.86	0.019	0.020	-3.4
beta-BHC	5.36	5.31	5.41	0.020	0.020	-1.3
gamma-BHC (Lindane)	5.24	5.19	5.29	0.020	0.020	-1.3
Endrin	8.44	8.37	8.51	0.099	0.100	-1.5
4,4'-DDT	8.94	8.87	9.01	0.194	0.200	-3.2
Methoxychlor	9.64	9.58	9.72	0.493	0.500	-1.4
TCX	4.06	4.01	4.11	0.038	0.040	-4.8
DCB	11.51	11.41	11.61	0.043	0.040	8.3

4,4'-DDT %Breakdown (1): 0.4 Endrin %Breakdown (1): 5.6

Combined %Breakdown (1): 6.0

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No. (PIBLK##): PIBLK21 Date Analyzed: 06/04/2015

Lab Sample ID (PIBLK): PIBLK21 Time Analyzed: 22:29

EPA Sample No. (PEM##): PEM21 Date Analyzed: 06/04/2015

Lab Sample ID (PEM): PEM21 Time Analyzed: 22:50

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.81	4.76	4.86	0.020	0.020	-1.3
beta-BHC	5.36	5.31	5.41	0.020	0.020	0.9
gamma-BHC (Lindane)	5.24	5.19	5.29	0.020	0.020	0.7
Endrin	8.44	8.37	8.51	0.100	0.100	-0.1
4,4'-DDT	8.94	8.87	9.01	0.204	0.200	1.8
Methoxychlor	9.65	9.58	9.72	0.521	0.500	4.1
TCX	4.07	4.01	4.11	0.038	0.040	-4.7
DCB	11.52	11.41	11.61	0.046	0.040	15.0

4,4'-DDT %Breakdown (1): 0.3 Endrin %Breakdown (1): 7.1

Combined %Breakdown (1): 7.4

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/08/2015 06/08/2015

EPA Sample No. (PIBLK##): Date Analyzed:

Lab Sample ID (PIBLK): Time Analyzed:

EPA Sample No. (PEM##): PEM51 Date Analyzed: 06/08/2015

Lab Sample ID (PEM): PEM51 Time Analyzed: 15:20

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.87	4.82	4.92	0.019	0.020	-7.1
beta-BHC	5.43	5.37	5.47	0.019	0.020	-4.7
gamma-BHC (Lindane)	5.31	5.25	5.35	0.019	0.020	-3.7
Endrin	8.51	8.44	8.58	0.098	0.100	-1.7
4,4'-DDT	9.01	8.93	9.07	0.190	0.200	-4.9
Methoxychlor	9.71	9.63	9.77	0.475	0.500	-4.9
TCX	4.12	4.07	4.17	0.038	0.040	-4.6
DCB	11.56	11.45	11.65	0.041	0.040	2.9

4,4'-DDT %Breakdown (1): 0.2 Endrin %Breakdown (1): 10.8

Combined %Breakdown (1): 11.0

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/08/2015 06/08/2015

EPA Sample No. (PIBLK##): PIBLK61 Date Analyzed: 06/08/2015

Lab Sample ID (PIBLK): PIBLK61 Time Analyzed: 19:05

EPA Sample No. (PEM##): PEM61 Date Analyzed: 06/08/2015

Lab Sample ID (PEM): PEM61 Time Analyzed: 19:26

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	4.87	4.82	4.92	0.019	0.020	-6.3
beta-BHC	5.42	5.37	5.47	0.019	0.020	-2.7
gamma-BHC (Lindane)	5.30	5.25	5.35	0.020	0.020	-2.3
Endrin	8.51	8.44	8.58	0.092	0.100	-8.0
4,4'-DDT	9.00	8.93	9.07	0.192	0.200	-3.8
Methoxychlor	9.70	9.63	9.77	0.477	0.500	-4.6
TCX	4.12	4.07	4.17	0.038	0.040	-4.7
DCB	11.55	11.45	11.65	0.042	0.040	4.8

4,4'-DDT %Breakdown (1): 0.2 Endrin %Breakdown (1): 18.2

Combined %Breakdown (1): 18.4

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No. (PIBLK##): Date Analyzed:

Lab Sample ID (PIBLK): Time Analyzed:

EPA Sample No. (PEM##): PEM12 Date Analyzed: 06/04/2015

Lab Sample ID (PEM): PEM12 Time Analyzed: 19:05

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	5.40	5.35	5.45	0.019	0.020	-4.5
beta-BHC	6.03	5.98	6.08	0.021	0.020	4.5
gamma-BHC (Lindane)	5.91	5.86	5.96	0.020	0.020	-1.5
Endrin	9.30	9.24	9.38	0.096	0.100	-4.4
4,4'-DDT	9.91	9.85	9.99	0.184	0.200	-8.0
Methoxychlor	10.81	10.74	10.88	0.456	0.500	-8.9
TCX	4.53	4.48	4.58	0.039	0.040	-3.3
DCB	12.41	12.31	12.51	0.039	0.040	-1.3

4,4'-DDT %Breakdown (1): 0.8 Endrin %Breakdown (1): 7.9

Combined %Breakdown (1): 8.7

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No. (PIBLK##): PIBLK22 Date Analyzed: 06/04/2015

Lab Sample ID (PIBLK): PIBLK22 Time Analyzed: 22:50

EPA Sample No. (PEM##): PEM22 Date Analyzed: 06/04/2015

Lab Sample ID (PEM): PEM22 Time Analyzed: 23:10

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	5.40	5.35	5.45	0.020	0.020	1.8
beta-BHC	6.03	5.98	6.08	0.022	0.020	10.5
gamma-BHC (Lindane)	5.91	5.86	5.96	0.021	0.020	5.4
Endrin	9.31	9.24	9.38	0.100	0.100	-0.4
4,4'-DDT	9.92	9.85	9.99	0.202	0.200	1.0
Methoxychlor	10.81	10.74	10.88	0.498	0.500	-0.3
TCX	4.53	4.48	4.58	0.040	0.040	0.3
DCB	12.41	12.31	12.51	0.043	0.040	6.9

4,4'-DDT %Breakdown (1): 0.9 Endrin %Breakdown (1): 14.0

Combined %Breakdown (1): 14.8

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/08/2015 06/08/2015

EPA Sample No. (PIBLK##): Date Analyzed:

Lab Sample ID (PIBLK): Time Analyzed:

EPA Sample No. (PEM##): PEM52 Date Analyzed: 06/08/2015

Lab Sample ID (PEM): PEM52 Time Analyzed: 15:40

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	5.58	5.53	5.63	0.019	0.020	-5.8
beta-BHC	6.22	6.16	6.26	0.020	0.020	-0.7
gamma-BHC (Lindane)	6.10	6.05	6.15	0.019	0.020	-4.1
Endrin	9.54	9.47	9.61	0.090	0.100	-10.5
4,4'-DDT	10.13	10.06	10.20	0.160	0.200	-20.2
Methoxychlor	10.99	10.92	11.06	0.388	0.500	-22.3
TCX	4.69	4.64	4.74	0.039	0.040	-2.9
DCB	12.61	12.50	12.70	0.033	0.040	-16.6

4,4'-DDT %Breakdown (1): 1.8 Endrin %Breakdown (1): 10.2

Combined %Breakdown (1): 12.0

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7J - FORM VII PEST-1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/08/2015 06/08/2015

EPA Sample No. (PIBLK##): PIBLK62 Date Analyzed: 06/08/2015

Lab Sample ID (PIBLK): PIBLK62 Time Analyzed: 19:26

EPA Sample No. (PEM##): PEM62 Date Analyzed: 06/08/2015

Lab Sample ID (PEM): PEM62 Time Analyzed: 19:46

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
alpha-BHC	5.58	5.53	5.63	0.019	0.020	-5.4
beta-BHC	6.21	6.16	6.26	0.021	0.020	5.9
gamma-BHC (Lindane)	6.10	6.05	6.15	0.020	0.020	-1.6
Endrin	9.54	9.47	9.61	0.097	0.100	-2.6
4,4'-DDT	10.12	10.06	10.20	0.202	0.200	1.1
Methoxychlor	10.99	10.92	11.06	0.492	0.500	-1.6
TCX	4.69	4.64	4.74	0.039	0.040	-3.2
DCB	12.60	12.50	12.70	0.042	0.040	4.3

4,4'-DDT %Breakdown (1): 1.8 Endrin %Breakdown (1): 19.2

Combined %Breakdown (1): 21.0

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7L - FORM VII PEST-3

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No. (PIBLK##): PIBLK31 Date Analyzed: 06/05/2015

Lab Sample ID (PIBLK): PIBLK31 Time Analyzed: 03:56

EPA Sample No. (INDC3##): INDC331 Date Analyzed: 06/05/2015

Lab Sample ID (INDC3): INDC331 Time Analyzed: 04:16

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	4.81	4.76	4.86	1420000	1480000	4.3
gamma-BHC (Lindane)	5.24	5.19	5.29	1300000	1350000	3.8
Heptachlor	5.90	5.85	5.95	1330000	1370000	2.5
Endosulfan I	7.75	7.69	7.83	1050000	1050000	0.7
Dieldrin	8.10	8.03	8.17	972000	974000	0.1
Endrin	8.44	8.37	8.51	901000	844000	-6.3
4,4'-DDD	8.53	8.46	8.60	746000	738000	-1.1
4,4'-DDT	8.94	8.87	9.01	823000	780000	-5.2
Methoxychlor	9.64	9.58	9.72	403000	372000	-7.8
beta-BHC	5.36	5.31	5.41	678000	685000	1.1
delta-BHC	5.61	5.56	5.66	1210000	1220000	1.0
Aldrin	6.32	6.28	6.38	1160000	1190000	2.1
Heptachlor epoxide	7.19	7.12	7.26	1090000	1090000	0.3
4,4'-DDE	7.67	7.60	7.74	905000	910000	0.6
Endosulfan II	8.76	8.69	8.83	829000	797000	-3.8
Endosulfan sulfate	10.01	9.94	10.08	726000	684000	-5.7
Endrin ketone	10.38	10.31	10.45	909000	867000	-4.6
Endrin aldehyde	9.37	9.31	9.45	690000	656000	-4.9
alpha-Chlordane	7.56	7.49	7.63	1130000	1120000	-0.4
gamma-Chlordane	7.37	7.30	7.44	1170000	1100000	-5.8
TCX	4.06	4.01	4.11	1170000	1160000	-0.1
DCB	11.51	11.41	11.61	772000	703000	-9.0

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7L - FORM VII PEST-3

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/08/2015 06/08/2015

EPA Sample No. (PIBLK##): PIBLK71 Date Analyzed: 06/08/2015

Lab Sample ID (PIBLK): PIBLK71 Time Analyzed: 23:31

EPA Sample No. (INDC3##): INDC371 Date Analyzed: 06/08/2015

Lab Sample ID (INDC3): INDC371 Time Analyzed: 23:51

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	4.87	4.82	4.92	1410000	1430000	1.6
gamma-BHC (Lindane)	5.30	5.25	5.35	1300000	1340000	2.8
Heptachlor	5.96	5.91	6.01	1380000	1390000	0.5
Endosulfan I	7.83	7.75	7.89	1150000	1140000	-0.3
Dieldrin	8.17	8.10	8.24	1030000	1050000	2.0
Endrin	8.51	8.44	8.58	871000	893000	2.5
4,4'-DDD	8.60	8.53	8.67	818000	855000	4.5
4,4'-DDT	9.00	8.93	9.07	908000	905000	-0.3
Methoxychlor	9.70	9.63	9.77	469000	466000	-0.5
beta-BHC	5.42	5.37	5.47	686000	704000	2.6
delta-BHC	5.67	5.62	5.72	1210000	1260000	3.6
Aldrin	6.39	6.34	6.44	1190000	1200000	0.8
Heptachlor epoxide	7.26	7.19	7.33	1130000	1130000	0.1
4,4'-DDE	7.73	7.66	7.80	945000	982000	4.0
Endosulfan II	8.83	8.76	8.90	906000	907000	0.2
Endosulfan sulfate	10.08	10.01	10.15	802000	812000	1.3
Endrin ketone	10.44	10.37	10.51	1070000	1070000	0.2
Endrin aldehyde	9.45	9.38	9.52	778000	763000	-1.9
alpha-Chlordane	7.62	7.55	7.69	1170000	1180000	0.8
gamma-Chlordane	7.43	7.36	7.50	1180000	1150000	-3.0
TCX	4.12	4.07	4.17	1130000	1150000	1.8
DCB	11.55	11.45	11.65	919000	891000	-3.0

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7L - FORM VII PEST-3

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/04/2015 06/04/2015

EPA Sample No. (PIBLK##): PIBLK32 Date Analyzed: 06/05/2015

Lab Sample ID (PIBLK): PIBLK32 Time Analyzed: 04:16

EPA Sample No. (INDC3##): INDC332 Date Analyzed: 06/05/2015

Lab Sample ID (INDC3): INDC332 Time Analyzed: 04:37

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	5.40	5.35	5.45	1060000	1160000	9.8
gamma-BHC (Lindane)	5.91	5.86	5.96	973000	1070000	9.7
Heptachlor	6.55	6.50	6.60	1010000	1080000	7.3
Endosulfan I	8.45	8.38	8.52	752000	827000	10.1
Dieldrin	8.85	8.78	8.92	757000	839000	10.8
Endrin	9.31	9.24	9.38	662000	615000	-7.1
4,4'-DDD	9.45	9.38	9.52	576000	653000	13.5
4,4'-DDT	9.92	9.85	9.99	641000	706000	10.1
Methoxychlor	10.81	10.74	10.88	316000	333000	5.3
beta-BHC	6.03	5.98	6.08	495000	540000	9.1
delta-BHC	6.46	6.41	6.51	851000	973000	14.4
Aldrin	7.03	6.98	7.08	860000	941000	9.4
Heptachlor epoxide	7.87	7.80	7.94	801000	881000	10.0
4,4'-DDE	8.60	8.53	8.67	727000	812000	11.7
Endosulfan II	9.62	9.55	9.69	634000	710000	11.8
Endosulfan sulfate	10.48	10.41	10.55	557000	629000	13.0
Endrin ketone	11.13	11.06	11.20	712000	811000	13.9
Endrin aldehyde	10.11	10.04	10.18	524000	597000	13.9
alpha-Chlordane	8.36	8.29	8.43	836000	915000	9.4
gamma-Chlordane	8.15	8.08	8.22	843000	953000	13.1
TCX	4.53	4.48	4.58	866000	914000	5.5
DCB	12.41	12.31	12.51	617000	648000	5.0

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7L - FORM VII PEST-3

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/08/2015 06/08/2015

EPA Sample No. (PIBLK##): PIBLK72 Date Analyzed: 06/08/2015

Lab Sample ID (PIBLK): PIBLK72 Time Analyzed: 23:51

EPA Sample No. (INDC3##): INDC372 Date Analyzed: 06/09/2015

Lab Sample ID (INDC3): INDC372 Time Analyzed: 00:12

INDIVIDUAL MIX C COMPOUND	RT	RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
alpha-BHC	5.58	5.53	5.63	888000	912000	2.8
gamma-BHC (Lindane)	6.10	6.05	6.15	810000	829000	2.4
Heptachlor	6.75	6.70	6.80	834000	836000	0.2
Endosulfan I	8.67	8.60	8.74	620000	655000	5.6
Dieldrin	9.08	9.01	9.15	628000	674000	7.3
Endrin	9.54	9.47	9.61	506000	467000	-7.6
4,4'-DDD	9.67	9.60	9.74	471000	530000	12.7
4,4'-DDT	10.13	10.06	10.20	517000	537000	3.8
Methoxychlor	10.99	10.92	11.06	265000	263000	-0.9
beta-BHC	6.21	6.16	6.26	427000	441000	3.4
delta-BHC	6.65	6.60	6.70	707000	758000	7.3
Aldrin	7.24	7.19	7.29	721000	740000	2.7
Heptachlor epoxide	8.09	8.02	8.16	673000	704000	4.6
4,4'-DDE	8.82	8.74	8.88	593000	646000	9.0
Endosulfan II	9.85	9.78	9.92	527000	575000	9.1
Endosulfan sulfate	10.68	10.61	10.75	446000	492000	10.2
Endrin ketone	11.32	11.25	11.39	604000	658000	9.0
Endrin aldehyde	10.32	10.25	10.39	426000	459000	7.7
alpha-Chlordane	8.58	8.51	8.65	689000	728000	5.7
gamma-Chlordane	8.36	8.29	8.43	694000	729000	5.1
TCX	4.69	4.64	4.74	747000	741000	-0.7
DCB	12.60	12.50	12.70	531000	520000	-2.3

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/04/2015 06/04/2015

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.06 DCB: 11.51

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC11	21150604A004	06/04/2015	18:24	4.06	11.51
02	PEM11	21150604A005	06/04/2015	18:44	4.06	11.51
03	TOXAPH111	21150604A006	06/04/2015	19:05	4.06	11.52
04	TOXAPH211	21150604A007	06/04/2015	19:26	4.06	11.52
05	TOXAPH311	21150604A008	06/04/2015	19:46	4.06	11.51
06	TOXAPH411	21150604A009	06/04/2015	20:06	4.06	11.51
07	TOXAPH511	21150604A010	06/04/2015	20:27	4.06	11.51
08	INDC111	21150604A011	06/04/2015	20:47	4.06	11.51
09	INDC211	21150604A012	06/04/2015	21:08	4.06	11.52
10	INDC311	21150604A013	06/04/2015	21:28	4.06	11.51
11	INDC411	21150604A014	06/04/2015	21:48	4.06	11.52
12	INDC511	21150604A015	06/04/2015	22:09	4.06	11.51
13	PIBLK21	21150604A016	06/04/2015	22:29	4.06	11.51
14	PEM21	21150604A017	06/04/2015	22:50	4.07	11.52
15	PBLKS1	21150604A018	06/04/2015	23:10	4.06	11.52
16	PLCSS1	21150604A019	06/04/2015	23:31	4.06	11.52
17	F9L58	21150604A020	06/04/2015	23:51	4.06	11.51
18	F9L59	21150604A021	06/05/2015	00:11	4.06	11.52
19	F9L60	21150604A022	06/05/2015	00:32	4.06	11.52
20	F9L61	21150604A023	06/05/2015	00:52	4.06	11.52
21	F9L62	21150604A024	06/05/2015	01:13	4.06	11.52
22	F9L63	21150604A025	06/05/2015	01:33	4.06	11.51
23	F9L64	21150604A026	06/05/2015	01:53	4.06	11.51
24	F9L65	21150604A027	06/05/2015	02:14	4.06	11.51
25	F9L66	21150604A028	06/05/2015	02:34	4.06	11.51
26	F9L66MS	21150604A029	06/05/2015	02:54	4.06	11.51
27	F9L66MSD	21150604A030	06/05/2015	03:15	4.06	11.51
28	ZZZZZ		06/05/2015	03:35		
29	PIBLK31	21150604A032	06/05/2015	03:56	4.06	11.51
30	INDC331	21150604A033	06/05/2015	04:16	4.06	11.51
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/08/2015 06/08/2015

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.12 DCB: 11.55

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC51	21150608A004	06/08/2015	15:00	4.12	11.56
02	PEM51	21150608A005	06/08/2015	15:20	4.12	11.56
03	TOXAPH151	21150608A006	06/08/2015	15:40	4.12	11.56
04	TOXAPH251	21150608A007	06/08/2015	16:01	4.12	11.56
05	TOXAPH351	21150608A008	06/08/2015	16:21	4.12	11.56
06	TOXAPH451	21150608A009	06/08/2015	16:42	4.12	11.55
07	TOXAPH551	21150608A010	06/08/2015	17:02	4.12	11.55
08	INDC151	21150608A011	06/08/2015	17:23	4.12	11.56
09	INDC251	21150608A012	06/08/2015	17:43	4.12	11.55
10	INDC351	21150608A013	06/08/2015	18:04	4.12	11.55
11	INDC451	21150608A014	06/08/2015	18:24	4.12	11.55
12	INDC551	21150608A015	06/08/2015	18:45	4.12	11.55
13	PIBLK61	21150608A016	06/08/2015	19:05	4.12	11.55
14	PEM61	21150608A017	06/08/2015	19:26	4.12	11.55
15	F9L67	21150608A018	06/08/2015	19:46	4.12	11.55
16	F9L68	21150608A019	06/08/2015	20:07	4.12	11.55
17	F9L69	21150608A020	06/08/2015	20:27	4.12	11.55
18	F9L70	21150608A021	06/08/2015	20:48	4.12	11.55
19	F9L71	21150608A022	06/08/2015	21:08	4.12	11.55
20	F9L72	21150608A023	06/08/2015	21:29	4.12	11.55
21	F9L73	21150608A024	06/08/2015	21:49	4.12	11.55
22	F9L75	21150608A025	06/08/2015	22:09	4.12	11.55
23	F9L77	21150608A026	06/08/2015	22:30	4.12	11.55
24	F9L78	21150608A027	06/08/2015	22:50	4.12	11.55
25	F9L79	21150608A028	06/08/2015	23:11	4.12	11.55
26	PIBLK71	21150608A029	06/08/2015	23:31	4.12	11.55
27	INDC371	21150608A030	06/08/2015	23:51	4.12	11.55
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/04/2015 06/04/2015

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.53 DCB: 12.41

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC12	21150604B004	06/04/2015	18:44	4.53	12.41
02	PEM12	21150604B005	06/04/2015	19:05	4.53	12.41
03	TOXAPH112	21150604B006	06/04/2015	19:26	4.53	12.41
04	TOXAPH212	21150604B007	06/04/2015	19:46	4.53	12.41
05	TOXAPH312	21150604B008	06/04/2015	20:06	4.53	12.41
06	TOXAPH412	21150604B009	06/04/2015	20:27	4.53	12.41
07	TOXAPH512	21150604B010	06/04/2015	20:47	4.53	12.41
08	INDC112	21150604B011	06/04/2015	21:08	4.53	12.41
09	INDC212	21150604B012	06/04/2015	21:28	4.53	12.41
10	INDC312	21150604B013	06/04/2015	21:48	4.53	12.41
11	INDC412	21150604B014	06/04/2015	22:09	4.53	12.41
12	INDC512	21150604B015	06/04/2015	22:29	4.53	12.41
13	PIBLK22	21150604B016	06/04/2015	22:50	4.53	12.41
14	PEM22	21150604B017	06/04/2015	23:10	4.53	12.41
15	PBLKS1	21150604B018	06/04/2015	23:31	4.53	12.41
16	PLCSS1	21150604B019	06/04/2015	23:51	4.53	12.41
17	F9L58	21150604B020	06/05/2015	00:11	4.53	12.41
18	F9L59	21150604B021	06/05/2015	00:32	4.53	12.41
19	F9L60	21150604B022	06/05/2015	00:52	4.53	12.41
20	F9L61	21150604B023	06/05/2015	01:13	4.53	12.41
21	F9L62	21150604B024	06/05/2015	01:33	4.53	12.41
22	F9L63	21150604B025	06/05/2015	01:53	4.53	12.41
23	F9L64	21150604B026	06/05/2015	02:14	4.53	12.41
24	F9L65	21150604B027	06/05/2015	02:34	4.53	12.41
25	F9L66	21150604B028	06/05/2015	02:54	4.53	12.41
26	F9L66MS	21150604B029	06/05/2015	03:15	4.53	12.41
27	F9L66MSD	21150604B030	06/05/2015	03:35	4.53	12.41
28	ZZZZZ		06/05/2015	03:56		
29	PIBLK32	21150604B032	06/05/2015	04:16	4.53	12.41
30	INDC332	21150604B033	06/05/2015	04:37	4.53	12.41
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/08/2015 06/08/2015

Instrument ID: GCE21

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.69 DCB: 12.60

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC52	21150608B004	06/08/2015	15:20	4.69	12.61
02	PEM52	21150608B005	06/08/2015	15:40	4.69	12.61
03	TOXAPH152	21150608B006	06/08/2015	16:01	4.69	12.61
04	TOXAPH252	21150608B007	06/08/2015	16:21	4.69	12.60
05	TOXAPH352	21150608B008	06/08/2015	16:42	4.69	12.60
06	TOXAPH452	21150608B009	06/08/2015	17:02	4.69	12.60
07	TOXAPH552	21150608B010	06/08/2015	17:23	4.69	12.60
08	INDC152	21150608B011	06/08/2015	17:43	4.69	12.60
09	INDC252	21150608B012	06/08/2015	18:04	4.69	12.60
10	INDC352	21150608B013	06/08/2015	18:24	4.69	12.60
11	INDC452	21150608B014	06/08/2015	18:45	4.69	12.60
12	INDC552	21150608B015	06/08/2015	19:05	4.69	12.60
13	PIBLK62	21150608B016	06/08/2015	19:26	4.69	12.60
14	PEM62	21150608B017	06/08/2015	19:46	4.69	12.60
15	F9L67	21150608B018	06/08/2015	20:07	4.69	12.60
16	F9L68	21150608B019	06/08/2015	20:27	4.69	12.60
17	F9L69	21150608B020	06/08/2015	20:48	4.69	12.60
18	F9L70	21150608B021	06/08/2015	21:08	4.69	12.60
19	F9L71	21150608B022	06/08/2015	21:29	4.69	12.60
20	F9L72	21150608B023	06/08/2015	21:49	4.69	12.60
21	F9L73	21150608B024	06/08/2015	22:09	4.69	12.60
22	F9L75	21150608B025	06/08/2015	22:30	4.69	12.60
23	F9L77	21150608B026	06/08/2015	22:50	4.69	12.60
24	F9L78	21150608B027	06/08/2015	23:11	4.69	12.60
25	F9L79	21150608B028	06/08/2015	23:31	4.69	12.60
26	PIBLK72	21150608B029	06/08/2015	23:51	4.69	12.60
27	INDC372	21150608B030	06/09/2015	00:12	4.69	12.60
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

9A - FORM IX PEST-1
PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Florisil Cartridge Lot Number: FLO24680 Date of Analysis: 03/10/2015

GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	%REC #	QC LIMITS
alpha-BHC	0.020	0.020	99	80-120
gamma-BHC (Lindane)	0.020	0.020	102	80-120
Heptachlor	0.020	0.021	106	80-120
Endosulfan I	0.020	0.021	105	80-120
Dieldrin	0.040	0.043	106	80-120
Endrin	0.040	0.045	113	80-120
4,4'-DDD	0.040	0.042	106	80-120
4,4'-DDT	0.040	0.043	107	80-120
Methoxychlor	0.20	0.23	113	80-120
TCX	0.020	0.021	104	80-120
DCB	0.040	0.047	117	80-120
2,4,5-Trichlorophenol	0.10	0.00066	1	<5

Column to be used to flag recovery with an asterisk.

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, LCSs AND MS/MSDs:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLKS1	448474	06/04/2015	06/04/2015
02	PLCSS1	448475	06/04/2015	06/04/2015
03	F9L58	1514293001	06/04/2015	06/05/2015
04	F9L59	1514293002	06/05/2015	06/05/2015
05	F9L60	1514293003	06/05/2015	06/05/2015
06	F9L61	1514293004	06/05/2015	06/05/2015
07	F9L62	1514293005	06/05/2015	06/05/2015
08	F9L63	1514293006	06/05/2015	06/05/2015
09	F9L64	1514293007	06/05/2015	06/05/2015
10	F9L65	1514293008	06/05/2015	06/05/2015
11	F9L66	1514293009	06/05/2015	06/05/2015
12	F9L66MS	1514293010	06/05/2015	06/05/2015
13	F9L66MSD	1514293011	06/05/2015	06/05/2015
14	F9L67	1514293012	06/08/2015	06/08/2015
15	F9L68	1514293013	06/08/2015	06/08/2015
16	F9L69	1514293014	06/08/2015	06/08/2015
17	F9L70	1514293015	06/08/2015	06/08/2015
18	F9L71	1514293016	06/08/2015	06/08/2015
19	F9L72	1514293017	06/08/2015	06/08/2015
20	F9L73	1514293018	06/08/2015	06/08/2015
21	F9L75	1514293019	06/08/2015	06/08/2015
22	F9L77	1514293020	06/08/2015	06/08/2015
23	F9L78	1514293021	06/08/2015	06/08/2015

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

9A - FORM IX PEST-1
PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Florisil Cartridge Lot Number: FLO24680 Date of Analysis: 03/10/2015

GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	%REC #	QC LIMITS
alpha-BHC	0.020	0.020	99	80-120
gamma-BHC (Lindane)	0.020	0.020	102	80-120
Heptachlor	0.020	0.021	106	80-120
Endosulfan I	0.020	0.021	105	80-120
Dieldrin	0.040	0.043	106	80-120
Endrin	0.040	0.045	113	80-120
4,4'-DDD	0.040	0.042	106	80-120
4,4'-DDT	0.040	0.043	107	80-120
Methoxychlor	0.20	0.23	113	80-120
TCX	0.020	0.021	104	80-120
DCB	0.040	0.047	117	80-120
2,4,5-Trichlorophenol	0.10	0.00066	1	<5

Column to be used to flag recovery with an asterisk.

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, LCSs AND MS/MSDs:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	F9L79	1514293022	06/08/2015	06/08/2015
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

9B - FORM IX PEST-2
PESTICIDE GPC CALIBRATION VERIFICATION

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GPC Column: GPC6 Calibration Verification Date: 05/25/2015

GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.020	0.020	98	80-110
Heptachlor	0.020	0.020	98	80-110
Aldrin	0.020	0.020	98	80-110
Dieldrin	0.040	0.039	98	80-110
Endrin	0.040	0.036	90	80-110
4,4'-DDT	0.040	0.038	94	80-110

Column to be used to flag recovery with an asterisk.

THIS GPC CALIBRATION VERIFICATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, LCSs, AND MS/MSDs:

	EPA SAMPLE NO.	LAB SAMPLE ID	GPC CLEANUP DATE
01	PBLKS1	448474	05/27/2015
02	PLCSS1	448475	05/27/2015
03	F9L58	1514293001	05/27/2015
04	F9L59	1514293002	05/27/2015
05	F9L60	1514293003	05/27/2015
06	F9L61	1514293004	05/27/2015
07	F9L62	1514293005	05/27/2015
08	F9L63	1514293006	05/27/2015
09	F9L64	1514293007	05/27/2015
10	F9L65	1514293008	05/27/2015
11	F9L66	1514293009	05/27/2015
12	F9L66MS	1514293010	05/27/2015
13	F9L66MSD	1514293011	05/27/2015
14	F9L67	1514293012	05/27/2015
15	F9L68	1514293013	05/27/2015
16	F9L69	1514293014	05/27/2015
17	F9L70	1514293015	05/27/2015
18	F9L71	1514293016	05/27/2015
19	F9L72	1514293017	05/27/2015
20	F9L73	1514293018	05/27/2015
21	F9L75	1514293019	05/27/2015
22	F9L77	1514293020	05/27/2015
23	F9L78	1514293021	05/27/2015

9B - FORM IX PEST-2
PESTICIDE GPC CALIBRATION VERIFICATION

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L58

GPC Column: GPC6 Calibration Verification Date: 05/25/2015

GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.020	0.020	98	80-110
Heptachlor	0.020	0.020	98	80-110
Aldrin	0.020	0.020	98	80-110
Dieldrin	0.040	0.039	98	80-110
Endrin	0.040	0.036	90	80-110
4,4'-DDT	0.040	0.038	94	80-110

Column to be used to flag recovery with an asterisk.

THIS GPC CALIBRATION VERIFICATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, LCSs, AND MS/MSDs:

	EPA SAMPLE NO.	LAB SAMPLE ID	GPC CLEANUP DATE
01	F9L79	1514293022	05/27/2015
02			
03			
04			
05			
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L58

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293001 Date(s) Analyzed: 06/04/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
delta-BHC	1	5.61	5.56	5.66	0.36	
	2	6.43	6.41	6.51	0.52	46.0
gamma-BHC (Lindane)	1	5.28	5.19	5.29	0.21	
	2	5.96	5.86	5.96	0.41	92.1
Heptachlor epoxide	1	7.18	7.12	7.26	0.79	
	2	7.86	7.80	7.94	0.42	90.0
Dieldrin	1	8.17	8.03	8.17	0.35	
	2	8.81	8.78	8.92	1.9	447.8
4,4'-DDE	1	7.67	7.60	7.74	3.2	
	2	8.60	8.53	8.67	4.9	51.2
Endrin	1	8.40	8.37	8.51	0.079	
	2	9.29	9.24	9.38	0.92	999.9
Endosulfan II	1	8.71	8.69	8.83	0.70	
	2	9.63	9.55	9.69	1.1	65.1
4,4'-DDD	1	8.50	8.46	8.60	1.6	
	2	9.39	9.38	9.52	1.1	46.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L58

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293001 Date(s) Analyzed: 06/04/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDT	1	8.94	8.87	9.01	2.2	
	2	9.92	9.85	9.99	2.5	14.6
Methoxychlor	1	9.66	9.58	9.72	2.3	
	2	10.76	10.74	10.88	2.3	0.9
Endrin ketone	1	10.43	10.31	10.45	0.20	
	2	11.15	11.06	11.20	0.33	64.7
Endrin aldehyde	1	9.43	9.31	9.45	0.99	
	2	10.11	10.04	10.18	0.77	27.9
gamma-Chlordane	1	7.34	7.30	7.44	0.56	
	2	8.13	8.08	8.22	1.3	141.9
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L59

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293002 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.82	4.76	4.86	0.074	
	2	5.36	5.35	5.45	0.088	18.6
beta-BHC	1	5.33	5.31	5.41	0.45	
	2	6.01	5.98	6.08	0.12	273.1
delta-BHC	1	5.60	5.56	5.66	0.64	
	2	6.43	6.41	6.51	0.96	50.0
Heptachlor epoxide	1	7.20	7.12	7.26	0.48	
	2	7.86	7.80	7.94	1.2	145.3
Dieldrin	1	8.09	8.03	8.17	0.21	
	2	8.81	8.78	8.92	2.5	999.9
4,4'-DDE	1	7.67	7.60	7.74	0.94	
	2	8.60	8.53	8.67	0.76	24.5
Endrin	1	8.41	8.37	8.51	0.15	
	2	9.30	9.24	9.38	0.66	352.9
Endosulfan II	1	8.81	8.69	8.83	0.049	
	2	9.65	9.55	9.69	1.6	999.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L59

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293002 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDD	1	8.50	8.46	8.60	1.8	
	2	9.39	9.38	9.52	1.3	35.3
4,4'-DDT	1	8.90	8.87	9.01	2.0	
	2	9.92	9.85	9.99	2.1	4.4
Methoxychlor	1	9.68	9.58	9.72	2.4	
	2	10.75	10.74	10.88	1.2	105.1
Endrin ketone	1	10.37	10.31	10.45	0.22	
	2	11.12	11.06	11.20	0.51	127.4
Endrin aldehyde	1	9.43	9.31	9.45	0.21	
	2	10.11	10.04	10.18	0.15	45.9
gamma-Chlordane	1	7.34	7.30	7.44	0.69	
	2	8.13	8.08	8.22	4.3	518.3
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L60

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293003 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
beta-BHC	1	5.33	5.31	5.41	0.22	
	2	5.99	5.98	6.08	0.25	14.1
delta-BHC	1	5.61	5.56	5.66	0.47	
	2	6.42	6.41	6.51	1.0	112.1
gamma-BHC (Lindane)	1	5.21	5.19	5.29	0.11	
	2	5.94	5.86	5.96	0.12	11.1
Heptachlor	1	5.92	5.85	5.95	0.86	
	2	6.56	6.50	6.60	0.26	228.1
Dieldrin	1	8.17	8.03	8.17	0.47	
	2	8.81	8.78	8.92	0.97	106.9
4,4'-DDE	1	7.67	7.60	7.74	3.8	
	2	8.60	8.53	8.67	3.7	3.8
Endosulfan II	1	8.79	8.69	8.83	0.23	
	2	9.57	9.55	9.69	0.054	320.6
4,4'-DDD	1	8.50	8.46	8.60	1.2	
	2	9.46	9.38	9.52	0.22	430.0

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L60

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293003 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDT	1	8.94	8.87	9.01	4.1	
	2	9.92	9.85	9.99	3.0	34.1
Methoxychlor	1	9.66	9.58	9.72	1.8	
	2	10.76	10.74	10.88	0.72	155.6
Endrin ketone	1	10.32	10.31	10.45	0.10	
	2	11.15	11.06	11.20	0.47	363.8
Endrin aldehyde	1	9.43	9.31	9.45	0.30	
	2	10.11	10.04	10.18	0.60	97.7
gamma-Chlordane	1	7.35	7.30	7.44	0.46	
	2	8.13	8.08	8.22	2.5	449.9
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L61

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293004 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.82	4.76	4.86	0.024	
	2	5.37	5.35	5.45	0.056	131.7
delta-BHC	1	5.60	5.56	5.66	0.35	
	2	6.42	6.41	6.51	0.72	107.8
gamma-BHC (Lindane)	1	5.28	5.19	5.29	0.015	
	2	5.88	5.86	5.96	0.025	69.0
Dieldrin	1	8.17	8.03	8.17	0.40	
	2	8.82	8.78	8.92	0.57	40.9
4,4'-DDE	1	7.67	7.60	7.74	0.22	
	2	8.60	8.53	8.67	0.58	165.2
Endrin	1	8.39	8.37	8.51	1.3	
	2	9.29	9.24	9.38	0.61	107.2
4,4'-DDT	1	8.94	8.87	9.01	0.23	
	2	9.92	9.85	9.99	0.59	156.7
Methoxychlor	1	9.64	9.58	9.72	2.4	
	2	10.75	10.74	10.88	1.3	86.1

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L61

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293004 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin ketone	1	10.44	10.31	10.45	0.19	
	2	11.14	11.06	11.20	0.68	251.9
Endrin aldehyde	1	9.43	9.31	9.45	1.5	
	2	10.11	10.04	10.18	0.88	72.1
gamma-Chlordane	1	7.35	7.30	7.44	0.40	
	2	8.13	8.08	8.22	3.8	870.5
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L62

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293005 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
delta-BHC	1	5.60	5.56	5.66	0.39	
	2	6.43	6.41	6.51	0.62	61.9
gamma-BHC (Lindane)	1	5.28	5.19	5.29	0.053	
	2	5.93	5.86	5.96	0.15	189.5
Dieldrin	1	8.17	8.03	8.17	0.41	
	2	8.81	8.78	8.92	0.76	84.1
4,4'-DDE	1	7.67	7.60	7.74	0.39	
	2	8.60	8.53	8.67	1.6	306.9
Endrin	1	8.39	8.37	8.51	1.2	
	2	9.29	9.24	9.38	0.57	111.5
4,4'-DDT	1	8.94	8.87	9.01	0.26	
	2	9.92	9.85	9.99	0.62	144.1
Methoxychlor	1	9.63	9.58	9.72	1.9	
	2	10.76	10.74	10.88	0.23	728.1
Endrin ketone	1	10.45	10.31	10.45	0.13	
	2	11.15	11.06	11.20	0.32	152.0

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L62

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293005 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin aldehyde	1	9.42	9.31	9.45	0.61	
	2	10.11	10.04	10.18	0.51	18.0
gamma-Chlordane	1	7.34	7.30	7.44	0.56	
	2	8.13	8.08	8.22	0.40	38.6
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L63

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293006 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
beta-BHC	1	5.41	5.31	5.41	0.99	
	2	6.03	5.98	6.08	0.19	421.6
delta-BHC	1	5.61	5.56	5.66	0.37	
	2	6.43	6.41	6.51	0.57	56.2
gamma-BHC (Lindane)	1	5.27	5.19	5.29	0.13	
	2	5.88	5.86	5.96	0.019	590.8
Heptachlor	1	5.88	5.85	5.95	0.74	
	2	6.59	6.50	6.60	0.10	611.3
Dieldrin	1	8.17	8.03	8.17	0.43	
	2	8.82	8.78	8.92	0.85	95.9
4,4'-DDE	1	7.67	7.60	7.74	2.9	
	2	8.60	8.53	8.67	3.9	34.0
Endosulfan II	1	8.70	8.69	8.83	1.6	
	2	9.58	9.55	9.69	0.028	999.9
4,4'-DDD	1	8.50	8.46	8.60	0.91	
	2	9.40	9.38	9.52	1.5	66.2

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L63

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293006 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endosulfan sulfate	1	10.03	9.94	10.08	0.14	
	2	10.46	10.41	10.55	0.28	95.0
4,4'-DDT	1	8.94	8.87	9.01	2.1	
	2	9.92	9.85	9.99	2.3	8.7
Methoxychlor	1	9.63	9.58	9.72	2.7	
	2	10.75	10.74	10.88	0.27	901.3
Endrin ketone	1	10.37	10.31	10.45	0.51	
	2	11.15	11.06	11.20	0.54	5.6
Endrin aldehyde	1	9.43	9.31	9.45	0.81	
	2	10.11	10.04	10.18	0.99	23.6
gamma-Chlordane	1	7.34	7.30	7.44	0.39	
	2	8.13	8.08	8.22	2.5	551.6
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L64

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293007 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
beta-BHC	1	5.37	5.31	5.41	1.4	
	2	6.04	5.98	6.08	0.36	280.5
delta-BHC	1	5.61	5.56	5.66	0.40	
	2	6.43	6.41	6.51	0.76	90.3
Heptachlor	1	5.88	5.85	5.95	0.80	
	2	6.59	6.50	6.60	0.37	113.9
Dieldrin	1	8.17	8.03	8.17	0.38	
	2	8.82	8.78	8.92	0.23	60.2
4,4'-DDE	1	7.67	7.60	7.74	2.5	
	2	8.60	8.53	8.67	3.1	22.7
Endosulfan II	1	8.70	8.69	8.83	7.0	
	2	9.63	9.55	9.69	1.8	297.2
4,4'-DDD	1	8.50	8.46	8.60	0.83	
	2	9.46	9.38	9.52	1.7	110.3
4,4'-DDT	1	8.94	8.87	9.01	1.2	
	2	9.92	9.85	9.99	1.8	50.8

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L64

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293007 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Methoxychlor	1	9.64	9.58	9.72	2.0	
	2	10.75	10.74	10.88	0.91	115.5
Endrin ketone	1	10.37	10.31	10.45	0.27	
	2	11.11	11.06	11.20	0.48	75.5
Endrin aldehyde	1	9.43	9.31	9.45	1.3	
	2	10.11	10.04	10.18	1.0	22.4
gamma-Chlordane	1	7.35	7.30	7.44	0.39	
	2	8.13	8.08	8.22	0.63	62.6
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293008 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
delta-BHC	1	5.60	5.56	5.66	0.45	
	2	6.43	6.41	6.51	0.62	37.9
gamma-BHC (Lindane)	1	5.27	5.19	5.29	0.067	
	2	5.94	5.86	5.96	0.064	4.7
Heptachlor	1	5.88	5.85	5.95	0.60	
	2	6.59	6.50	6.60	0.27	124.1
Dieldrin	1	8.17	8.03	8.17	0.35	
	2	8.82	8.78	8.92	2.1	494.2
4,4'-DDE	1	7.67	7.60	7.74	2.9	
	2	8.60	8.53	8.67	3.9	35.2
4,4'-DDD	1	8.50	8.46	8.60	0.19	
	2	9.46	9.38	9.52	1.5	702.4
4,4'-DDT	1	8.94	8.87	9.01	3.3	
	2	9.92	9.85	9.99	3.2	3.8
Methoxychlor	1	9.66	9.58	9.72	1.3	
	2	10.75	10.74	10.88	0.58	129.1

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293008 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin ketone	1	10.37	10.31	10.45	0.33	
	2	11.15	11.06	11.20	0.38	15.9
Endrin aldehyde	1	9.43	9.31	9.45	0.12	
	2	10.11	10.04	10.18	0.61	411.8
gamma-Chlordane	1	7.35	7.30	7.44	0.26	
	2	8.13	8.08	8.22	2.0	646.5
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L66

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293009 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
delta-BHC	1	5.60	5.56	5.66	0.26	
	2	6.43	6.41	6.51	0.33	27.1
Heptachlor	1	5.88	5.85	5.95	0.49	
	2	6.59	6.50	6.60	0.097	405.5
Dieldrin	1	8.17	8.03	8.17	0.38	
	2	8.82	8.78	8.92	0.82	118.1
4,4'-DDE	1	7.67	7.60	7.74	2.5	
	2	8.60	8.53	8.67	3.1	25.9
Endosulfan II	1	8.79	8.69	8.83	0.14	
	2	9.64	9.55	9.69	0.46	228.6
4,4'-DDD	1	8.50	8.46	8.60	0.70	
	2	9.40	9.38	9.52	0.45	55.2
4,4'-DDT	1	8.94	8.87	9.01	2.2	
	2	9.92	9.85	9.99	1.3	61.7
Endrin aldehyde	1	9.40	9.31	9.45	0.43	
	2	10.11	10.04	10.18	0.71	63.4

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L66

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293009 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
gamma-Chlordane	1	7.35	7.30	7.44	0.48	
	2	8.13	8.08	8.22	3.5	637.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L66MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293010 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
delta-BHC	1	5.60	5.56	5.66	0.36	
	2	6.43	6.41	6.51	0.46	27.1
gamma-BHC (Lindane)	1	5.24	5.19	5.29	17.	
	2	5.91	5.86	5.96	18.	7.1
Heptachlor	1	5.90	5.85	5.95	16.	
	2	6.55	6.50	6.60	17.	4.6
Aldrin	1	6.32	6.28	6.38	17.	
	2	7.03	6.98	7.08	15.	13.2
Dieldrin	1	8.10	8.03	8.17	29.	
	2	8.86	8.78	8.92	37.	27.2
4,4'-DDE	1	7.67	7.60	7.74	3.6	
	2	8.60	8.53	8.67	5.3	48.3
Endrin	1	8.43	8.37	8.51	34.	
	2	9.31	9.24	9.38	37.	7.5
Endosulfan II	1	8.79	8.69	8.83	0.22	
	2	9.64	9.55	9.69	0.44	99.1

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L66MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293010 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDT	1	8.94	8.87	9.01	39.	
	2	9.92	9.85	9.99	37.	6.1
Methoxychlor	1	9.65	9.58	9.72	1.0	
	2	10.76	10.74	10.88	0.21	404.7
Endrin ketone	1	10.38	10.31	10.45	2.4	
	2	11.14	11.06	11.20	2.5	3.6
Endrin aldehyde	1	9.39	9.31	9.45	0.85	
	2	10.11	10.04	10.18	1.6	84.3
gamma-Chlordane	1	7.35	7.30	7.44	0.30	
	2	8.13	8.08	8.22	1.6	442.3
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L66MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293011 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.86	4.76	4.86	0.13	
	2	5.42	5.35	5.45	0.17	31.9
delta-BHC	1	5.60	5.56	5.66	0.14	
	2	6.43	6.41	6.51	0.29	109.9
gamma-BHC (Lindane)	1	5.24	5.19	5.29	12.	
	2	5.91	5.86	5.96	13.	4.6
Heptachlor	1	5.90	5.85	5.95	12.	
	2	6.55	6.50	6.60	12.	0.3
Aldrin	1	6.32	6.28	6.38	13.	
	2	7.03	6.98	7.08	11.	16.4
Dieldrin	1	8.10	8.03	8.17	23.	
	2	8.86	8.78	8.92	30.	28.7
4,4'-DDE	1	7.67	7.60	7.74	2.9	
	2	8.60	8.53	8.67	4.1	40.2
Endrin	1	8.43	8.37	8.51	26.	
	2	9.31	9.24	9.38	28.	7.0

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L66MSD

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293011 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endosulfan II	1	8.79	8.69	8.83	0.19	
	2	9.64	9.55	9.69	1.2	525.8
4,4'-DDD	1	8.53	8.46	8.60	0.71	
	2	9.46	9.38	9.52	1.7	145.9
4,4'-DDT	1	8.94	8.87	9.01	31.	
	2	9.92	9.85	9.99	29.	7.9
Endrin ketone	1	10.38	10.31	10.45	2.2	
	2	11.14	11.06	11.20	2.0	7.3
Endrin aldehyde	1	9.42	9.31	9.45	1.0	
	2	10.11	10.04	10.18	2.2	118.7
gamma-Chlordane	1	7.35	7.30	7.44	0.25	
	2	8.13	8.08	8.22	1.5	478.8
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L67

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293012 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.84	4.82	4.92	0.058	
	2	5.61	5.53	5.63	0.11	84.5
beta-BHC	1	5.39	5.37	5.47	0.33	
	2	6.23	6.16	6.26	0.44	36.7
delta-BHC	1	5.69	5.62	5.72	0.32	
	2	6.61	6.60	6.70	1.1	236.0
gamma-BHC (Lindane)	1	5.32	5.25	5.35	0.27	
	2	6.07	6.05	6.15	0.44	63.6
Heptachlor	1	5.96	5.91	6.01	3.3	
	2	6.75	6.70	6.80	3.1	4.2
Heptachlor epoxide	1	7.26	7.19	7.33	8.0	
	2	8.09	8.02	8.16	9.4	17.6
Dieldrin	1	8.16	8.10	8.24	3.8	
	2	9.07	9.01	9.15	2.7	42.9
4,4'-DDE	1	7.73	7.66	7.80	3.9	
	2	8.81	8.74	8.88	5.4	38.0

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L67

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293012 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin	1	8.47	8.44	8.58	0.96	
	2	9.51	9.47	9.61	4.0	319.3
Endosulfan II	1	8.88	8.76	8.90	0.29	
	2	9.85	9.78	9.92	6.2	999.9
4,4'-DDD	1	8.55	8.53	8.67	14.	
	2	9.65	9.60	9.74	8.5	67.3
Endosulfan sulfate	1	10.04	10.01	10.15	0.19	
	2	10.73	10.61	10.75	2.6	999.9
4,4'-DDT	1	8.96	8.93	9.07	10.	
	2	10.13	10.06	10.20	14.	36.2
Methoxychlor	1	9.70	9.63	9.77	0.37	
	2	10.94	10.92	11.06	14.	999.9
Endrin ketone	1	10.41	10.37	10.51	1.4	
	2	11.36	11.25	11.39	3.4	137.0
Endrin aldehyde	1	9.49	9.38	9.52	1.5	
	2	10.32	10.25	10.39	3.4	122.4

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L67

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293012 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-Chlordane	1	7.61	7.55	7.69	20.	
	2	8.58	8.51	8.65	9.5	112.1
gamma-Chlordane	1	7.43	7.36	7.50	16.	
	2	8.36	8.29	8.43	22.	39.6
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L68

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293013 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.91	4.82	4.92	0.065	
	2	5.54	5.53	5.63	0.044	47.1
delta-BHC	1	5.62	5.62	5.72	0.072	
	2	6.62	6.60	6.70	0.37	417.2
gamma-BHC (Lindane)	1	5.34	5.25	5.35	0.11	
	2	6.07	6.05	6.15	0.23	117.1
Heptachlor	1	5.96	5.91	6.01	0.73	
	2	6.75	6.70	6.80	0.38	91.3
Heptachlor epoxide	1	7.26	7.19	7.33	9.9	
	2	8.09	8.02	8.16	10.	0.7
Dieldrin	1	8.20	8.10	8.24	1.3	
	2	9.04	9.01	9.15	1.6	27.0
4,4'-DDE	1	7.73	7.66	7.80	1.6	
	2	8.81	8.74	8.88	3.1	93.2
Endrin	1	8.47	8.44	8.58	1.6	
	2	9.51	9.47	9.61	1.7	3.5

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L68

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293013 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endosulfan II	1	8.84	8.76	8.90	0.28	
	2	9.85	9.78	9.92	0.93	232.8
4,4'-DDD	1	8.55	8.53	8.67	5.4	
	2	9.65	9.60	9.74	6.0	11.8
Endosulfan sulfate	1	10.04	10.01	10.15	0.30	
	2	10.69	10.61	10.75	0.47	57.0
4,4'-DDT	1	8.99	8.93	9.07	1.6	
	2	10.13	10.06	10.20	4.1	155.8
Endrin ketone	1	10.41	10.37	10.51	0.90	
	2	11.36	11.25	11.39	2.9	219.5
alpha-Chlordane	1	7.62	7.55	7.69	16.	
	2	8.58	8.51	8.65	8.8	77.6
gamma-Chlordane	1	7.43	7.36	7.50	13.	
	2	8.36	8.29	8.43	18.	37.9
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L69

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293014 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
delta-BHC	1	5.63	5.62	5.72	0.25	
	2	6.60	6.60	6.70	0.52	109.9
Heptachlor	1	5.96	5.91	6.01	0.23	
	2	6.76	6.70	6.80	0.072	211.8
Heptachlor epoxide	1	7.26	7.19	7.33	1.5	
	2	8.09	8.02	8.16	1.1	30.8
Dieldrin	1	8.23	8.10	8.24	0.39	
	2	9.04	9.01	9.15	0.22	75.8
4,4'-DDE	1	7.73	7.66	7.80	0.13	
	2	8.78	8.74	8.88	1.0	708.4
4,4'-DDD	1	8.57	8.53	8.67	3.7	
	2	9.61	9.60	9.74	0.75	392.0
4,4'-DDT	1	9.00	8.93	9.07	1.3	
	2	10.13	10.06	10.20	1.3	4.9
Endrin ketone	1	10.48	10.37	10.51	0.13	
	2	11.31	11.25	11.39	2.8	999.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L69

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293014 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-Chlordane	1	7.62	7.55	7.69	0.077	
	2	8.58	8.51	8.65	0.67	769.1
gamma-Chlordane	1	7.42	7.36	7.50	0.34	
	2	8.36	8.29	8.43	13.	999.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L70

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293015 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
beta-BHC	1	5.39	5.37	5.47	0.50	
	2	6.22	6.16	6.26	0.16	219.6
delta-BHC	1	5.68	5.62	5.72	0.44	
	2	6.60	6.60	6.70	2.4	451.4
gamma-BHC (Lindane)	1	5.27	5.25	5.35	0.19	
	2	6.07	6.05	6.15	0.10	85.5
Heptachlor epoxide	1	7.26	7.19	7.33	0.71	
	2	8.10	8.02	8.16	1.7	139.3
Dieldrin	1	8.23	8.10	8.24	0.41	
	2	9.05	9.01	9.15	1.4	245.7
Endrin	1	8.47	8.44	8.58	0.87	
	2	9.51	9.47	9.61	1.3	52.7
Endosulfan II	1	8.81	8.76	8.90	1.1	
	2	9.85	9.78	9.92	0.12	801.7
4,4'-DDD	1	8.58	8.53	8.67	3.3	
	2	9.69	9.60	9.74	0.30	989.6

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L70

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293015 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endosulfan sulfate	1	10.12	10.01	10.15	0.28	
	2	10.69	10.61	10.75	1.5	417.1
4,4'-DDT	1	8.97	8.93	9.07	2.8	
	2	10.13	10.06	10.20	2.5	12.1
Methoxychlor	1	9.68	9.63	9.77	1.4	
	2	10.94	10.92	11.06	4.7	226.3
Endrin aldehyde	1	9.50	9.38	9.52	0.43	
	2	10.32	10.25	10.39	0.49	14.6
gamma-Chlordane	1	7.41	7.36	7.50	0.52	
	2	8.36	8.29	8.43	28.	999.9
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293016 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.88	4.82	4.92	0.057	
	2	5.55	5.53	5.63	0.13	122.9
gamma-BHC (Lindane)	1	5.34	5.25	5.35	0.062	
	2	6.12	6.05	6.15	0.098	58.0
Heptachlor epoxide	1	7.27	7.19	7.33	0.45	
	2	8.10	8.02	8.16	0.35	31.0
Dieldrin	1	8.23	8.10	8.24	0.36	
	2	9.04	9.01	9.15	0.31	16.8
4,4'-DDE	1	7.69	7.66	7.80	0.63	
	2	8.78	8.74	8.88	0.77	23.7
Endrin	1	8.47	8.44	8.58	1.5	
	2	9.50	9.47	9.61	1.3	12.8
Endosulfan sulfate	1	10.13	10.01	10.15	0.21	
	2	10.69	10.61	10.75	1.0	402.5
4,4'-DDT	1	8.97	8.93	9.07	1.1	
	2	10.13	10.06	10.20	1.1	3.6

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293016 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin ketone	1	10.51	10.37	10.51	0.96	
	2	11.31	11.25	11.39	2.8	188.0
Endrin aldehyde	1	9.50	9.38	9.52	0.99	
	2	10.32	10.25	10.39	1.1	15.5
gamma-Chlordane	1	7.41	7.36	7.50	0.23	
	2	8.36	8.29	8.43	9.4	999.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293017 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.88	4.82	4.92	0.040	
	2	5.54	5.53	5.63	0.15	284.0
beta-BHC	1	5.39	5.37	5.47	0.23	
	2	6.17	6.16	6.26	0.27	17.0
Heptachlor epoxide	1	7.24	7.19	7.33	0.68	
	2	8.10	8.02	8.16	0.37	83.3
Dieldrin	1	8.23	8.10	8.24	0.38	
	2	9.04	9.01	9.15	0.17	130.6
Endosulfan II	1	8.85	8.76	8.90	0.091	
	2	9.84	9.78	9.92	0.074	22.8
4,4'-DDD	1	8.58	8.53	8.67	3.1	
	2	9.70	9.60	9.74	0.063	999.9
4,4'-DDT	1	9.00	8.93	9.07	0.15	
	2	10.14	10.06	10.20	0.80	415.5
Methoxychlor	1	9.70	9.63	9.77	1.0	
	2	11.04	10.92	11.06	0.14	633.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293017 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endrin ketone	1	10.47	10.37	10.51	0.13	
	2	11.33	11.25	11.39	0.92	614.4
Endrin aldehyde	1	9.51	9.38	9.52	0.82	
	2	10.31	10.25	10.39	0.75	9.4
gamma-Chlordane	1	7.41	7.36	7.50	0.21	
	2	8.36	8.29	8.43	0.67	221.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293018 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.84	4.82	4.92	0.024	
	2	5.55	5.53	5.63	0.12	406.7
beta-BHC	1	5.39	5.37	5.47	0.46	
	2	6.17	6.16	6.26	0.049	835.2
Heptachlor epoxide	1	7.25	7.19	7.33	0.49	
	2	8.10	8.02	8.16	0.26	88.8
Dieldrin	1	8.23	8.10	8.24	0.38	
	2	9.04	9.01	9.15	0.65	72.3
4,4'-DDE	1	7.72	7.66	7.80	0.26	
	2	8.78	8.74	8.88	1.9	613.9
Endrin	1	8.47	8.44	8.58	1.1	
	2	9.51	9.47	9.61	1.0	9.1
Endosulfan II	1	8.85	8.76	8.90	0.061	
	2	9.85	9.78	9.92	0.086	39.8
4,4'-DDD	1	8.58	8.53	8.67	0.31	
	2	9.70	9.60	9.74	0.058	442.4

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293018 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDT	1	9.00	8.93	9.07	0.16	
	2	10.14	10.06	10.20	1.0	531.7
Endrin ketone	1	10.47	10.37	10.51	0.089	
	2	11.32	11.25	11.39	1.1	999.9
Endrin aldehyde	1	9.51	9.38	9.52	0.20	
	2	10.31	10.25	10.39	1.3	582.2
gamma-Chlordane	1	7.41	7.36	7.50	0.20	
	2	8.36	8.29	8.43	0.96	394.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L75

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293019 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.88	4.82	4.92	0.044	
	2	5.54	5.53	5.63	0.14	221.5
beta-BHC	1	5.39	5.37	5.47	0.27	
	2	6.17	6.16	6.26	0.55	105.6
gamma-BHC (Lindane)	1	5.34	5.25	5.35	0.053	
	2	6.11	6.05	6.15	0.31	485.1
Heptachlor epoxide	1	7.24	7.19	7.33	1.6	
	2	8.11	8.02	8.16	0.28	493.1
Dieldrin	1	8.23	8.10	8.24	0.38	
	2	9.04	9.01	9.15	0.47	22.8
4,4'-DDE	1	7.69	7.66	7.80	0.28	
	2	8.79	8.74	8.88	1.1	302.6
Endosulfan II	1	8.84	8.76	8.90	0.13	
	2	9.85	9.78	9.92	0.36	169.5
4,4'-DDD	1	8.58	8.53	8.67	1.7	
	2	9.62	9.60	9.74	0.40	326.4

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L75

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293019 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDT	1	9.00	8.93	9.07	0.98	
	2	10.12	10.06	10.20	0.76	28.3
Methoxychlor	1	9.68	9.63	9.77	2.4	
	2	11.00	10.92	11.06	0.98	146.8
Endrin ketone	1	10.47	10.37	10.51	0.64	
	2	11.31	11.25	11.39	0.75	17.5
Endrin aldehyde	1	9.50	9.38	9.52	1.1	
	2	10.31	10.25	10.39	0.93	21.0
gamma-Chlordane	1	7.41	7.36	7.50	0.38	
	2	8.36	8.29	8.43	3.1	699.7
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293020 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.89	4.82	4.92	0.057	
	2	5.54	5.53	5.63	0.080	40.6
Heptachlor epoxide	1	7.24	7.19	7.33	1.8	
	2	8.11	8.02	8.16	0.28	547.4
Dieldrin	1	8.23	8.10	8.24	0.36	
	2	9.04	9.01	9.15	0.23	52.0
4,4'-DDE	1	7.69	7.66	7.80	0.18	
	2	8.79	8.74	8.88	0.45	151.2
Endrin	1	8.49	8.44	8.58	1.2	
	2	9.51	9.47	9.61	0.89	33.6
Endrin ketone	1	10.48	10.37	10.51	0.076	
	2	11.31	11.25	11.39	0.59	673.8
gamma-Chlordane	1	7.41	7.36	7.50	0.40	
	2	8.36	8.29	8.43	1.8	354.4
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293021 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.89	4.82	4.92	0.032	
	2	5.54	5.53	5.63	0.15	360.6
delta-BHC	1	5.63	5.62	5.72	0.21	
	2	6.60	6.60	6.70	1.2	484.4
gamma-BHC (Lindane)	1	5.35	5.25	5.35	0.021	
	2	6.13	6.05	6.15	0.13	507.5
Heptachlor	1	5.94	5.91	6.01	0.58	
	2	6.72	6.70	6.80	0.26	119.9
Heptachlor epoxide	1	7.26	7.19	7.33	2.3	
	2	8.10	8.02	8.16	0.30	681.2
Dieldrin	1	8.22	8.10	8.24	0.47	
	2	9.04	9.01	9.15	0.66	40.2
4,4'-DDE	1	7.69	7.66	7.80	0.31	
	2	8.78	8.74	8.88	1.1	266.2
Endosulfan sulfate	1	10.03	10.01	10.15	0.49	
	2	10.69	10.61	10.75	2.2	359.6

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293021 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Methoxychlor	1	9.68	9.63	9.77	2.6	
	2	11.00	10.92	11.06	1.1	129.9
Endrin aldehyde	1	9.51	9.38	9.52	1.3	
	2	10.32	10.25	10.39	0.88	51.2
gamma-Chlordane	1	7.41	7.36	7.50	0.58	
	2	8.36	8.29	8.43	21.	999.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L79

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293022 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
alpha-BHC	1	4.89	4.82	4.92	0.037	
	2	5.55	5.53	5.63	0.056	51.1
delta-BHC	1	5.63	5.62	5.72	0.080	
	2	6.61	6.60	6.70	0.39	385.4
Heptachlor epoxide	1	7.24	7.19	7.33	0.30	
	2	8.11	8.02	8.16	0.15	99.0
Dieldrin	1	8.23	8.10	8.24	0.38	
	2	9.04	9.01	9.15	0.11	257.0
4,4'-DDE	1	7.69	7.66	7.80	0.26	
	2	8.78	8.74	8.88	0.54	106.4
Methoxychlor	1	9.69	9.63	9.77	0.51	
	2	10.93	10.92	11.06	0.29	71.9
Endrin ketone	1	10.51	10.37	10.51	0.67	
	2	11.31	11.25	11.39	2.1	213.7
Endrin aldehyde	1	9.51	9.38	9.52	0.68	
	2	10.31	10.25	10.39	0.61	11.9

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

F9L79

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293022 Date(s) Analyzed: 06/08/2015 06/08/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
gamma-Chlordane	1	7.41	7.36	7.50	0.19	
	2	8.36	8.29	8.43	7.0	999.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 448474 Date(s) Analyzed: 06/04/2015 06/04/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
beta-BHC	1	5.36	5.31	5.41	0.58	
	2	6.05	5.98	6.08	0.63	8.7
delta-BHC	1	5.63	5.56	5.66	0.26	
	2	6.43	6.41	6.51	0.32	22.8
Heptachlor	1	5.87	5.85	5.95	0.18	
	2	6.51	6.50	6.60	0.30	70.9
Dieldrin	1	8.06	8.03	8.17	0.048	
	2	8.81	8.78	8.92	0.39	712.8
Endosulfan II	1	8.70	8.69	8.83	2.1	
	2	9.58	9.55	9.69	0.049	999.9
Endrin ketone	1	10.42	10.31	10.45	0.77	
	2	11.11	11.06	11.20	0.27	189.4
Endrin aldehyde	1	9.31	9.31	9.45	0.41	
	2	10.11	10.04	10.18	0.43	5.0
gamma-Chlordane	1	7.34	7.30	7.44	0.40	
	2	8.13	8.08	8.22	0.076	434.3

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PLCSS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 448475 Date(s) Analyzed: 06/04/2015 06/04/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
gamma-BHC (Lindane)	1	5.24	5.19	5.29	1.3	
	2	5.91	5.86	5.96	1.3	2.3
Heptachlor epoxide	1	7.19	7.12	7.26	1.6	
	2	7.87	7.80	7.94	1.4	13.3
Dieldrin	1	8.10	8.03	8.17	3.1	
	2	8.86	8.78	8.92	3.0	5.1
4,4'-DDE	1	7.67	7.60	7.74	3.1	
	2	8.60	8.53	8.67	2.7	14.3
Endrin	1	8.44	8.37	8.51	3.4	
	2	9.31	9.24	9.38	2.7	25.5
Endosulfan sulfate	1	10.01	9.94	10.08	2.8	
	2	10.48	10.41	10.55	2.5	11.5
Endrin ketone	1	10.38	10.31	10.45	0.020	
	2	11.13	11.06	11.20	0.11	452.2
Endrin aldehyde	1	9.31	9.31	9.45	0.24	
	2	10.11	10.04	10.18	0.50	107.8

10A - FORM X PEST-1
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PLCSS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 448475 Date(s) Analyzed: 06/04/2015 06/04/2015

Instrument ID (1): GCE21 Instrument ID (2): GCE21

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
gamma-Chlordane	1	7.37	7.30	7.44	1.7	
	2	8.15	8.08	8.22	1.4	18.2
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:54:36
Operator	: sagers	Sample Name	: RESC11
Sample Number	: 004	Study	: 26384
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 18:24:13	Dilution Factor	: 1.00
		Cycle	: 3

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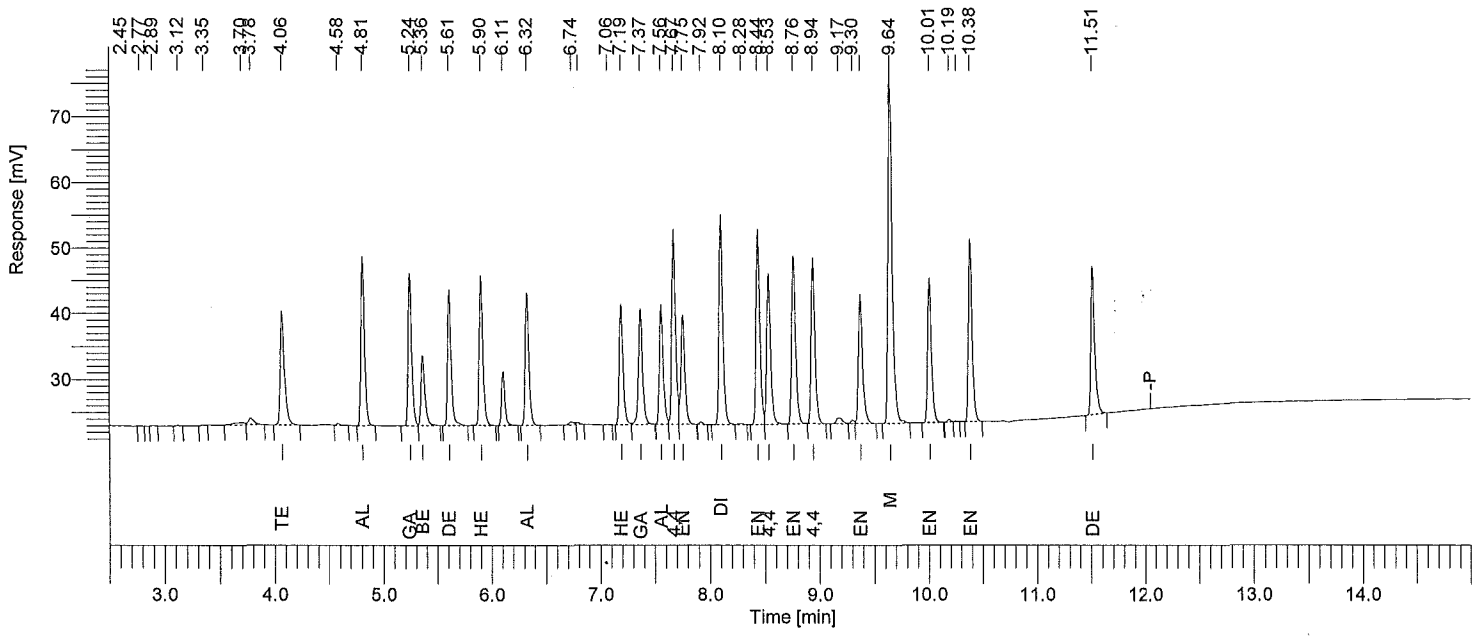

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.06	Tetrachloro-m-xylene	46043	0.0197447
4.81	alpha-BHC	57657	0.0203719
5.24	gamma-BHC	52593	0.0201939
5.36	beta-BHC	26726	0.0197164
5.61	delta-BHC	47388	0.0196232
5.90	Heptachlor	53641	0.0201013
6.32	Aldrin	46395	0.0199480
7.19	Heptachlor epoxide	43396	0.0199500
7.37	gamma-Chlordane	45175	0.0193860
7.56	alpha-Chlordane	43904	0.0194752
7.67	4,4'-DDE	70689	0.0390709
7.75	Endosulfan I	41051	0.0195921
8.10	Dieldrin	76788	0.0394801
8.44	Endrin	70541	0.0391577
8.53	4,4'-DDD	57125	0.0382760
8.76	Endosulfan II	62870	0.0379371
8.94	4,4'-DDT	61290	0.0372459
9.37	Endrin aldehyde	51273	0.0371797
9.64	Methoxychlor	144576	0.1791552
10.01	Endosulfan sulfate	53196	0.0366613
10.38	Endrin ketone	66088	0.0363657
11.51	Decachlorobiphenyl	54342	0.0351838

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:54:38
Operator	: sagers	Sample Name	: PEM11
Sample Number	: 005	Study	: 26388
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
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		Cycle	: 4

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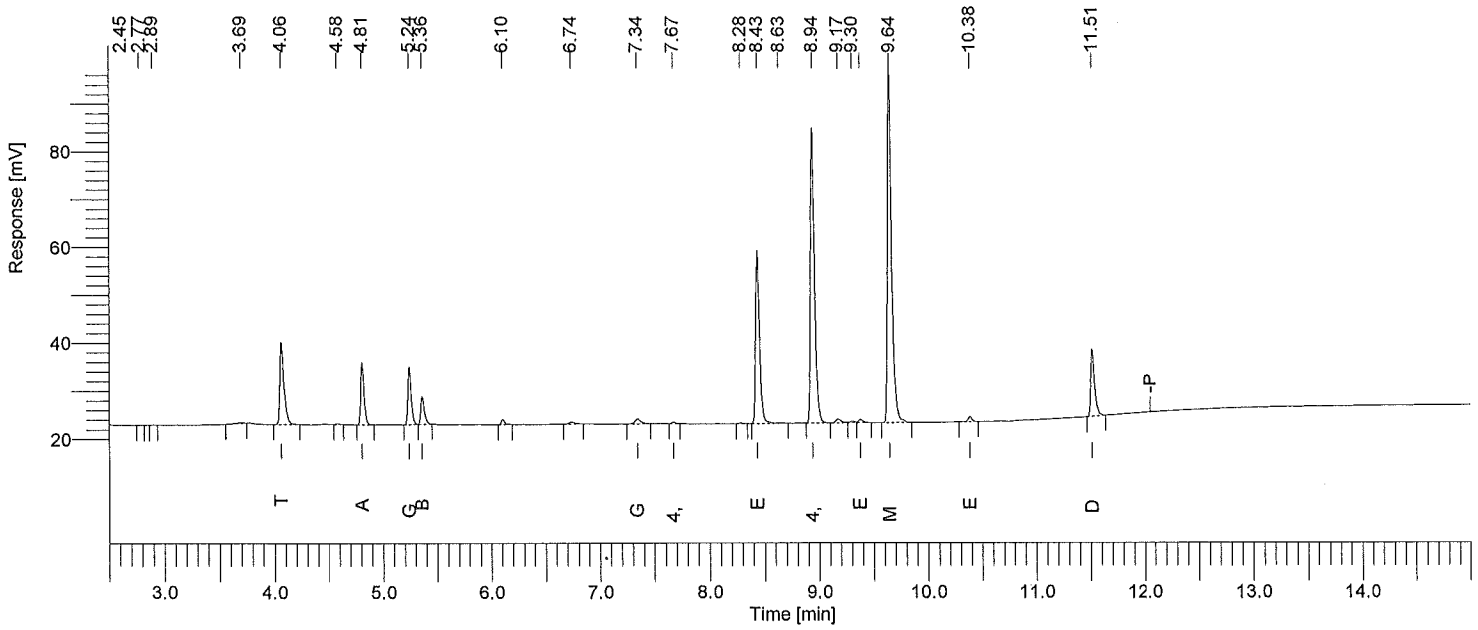

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.06	Tetrachloro-m-xylene	44412	0.0190453	0.0190453	0.02000	95.2
4.81	alpha-BHC	27348	0.0096630	0.0096630	0.01000	96.6
5.24	gamma-BHC	25702	0.0098686	0.0098686	0.01000	98.7
5.36	beta-BHC	13381	0.0098716	0.0098716	0.01000	98.7
5.61	delta-BHC	0	0.0000000	0.0000000	----------	------
5.90	Heptachlor	0	0.0000000	0.0000000	----------	------
6.32	Aldrin	0	0.0000000	0.0000000	----------	------
7.19	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
7.34	gamma-Chlordane	3643	0.0015632	0.0015632	0.00000	------
7.56	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
7.67	4,4'-DDE	725	0.0004009	0.0004009	0.10000	0.4
7.76	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.10	Dieldrin	0	0.0000000	0.0000000	----------	------
8.43	Endrin	88733	0.0492564	0.0492564	0.05000	98.5
8.53	4,4'-DDD	0	0.0000000	0.0000000	----------	------
8.76	Endosulfan II	0	0.0000000	0.0000000	----------	------
8.94	4,4'-DDT	159209	0.0967516	0.0967516	0.10000	96.8
9.38	Endrin aldehyde	1969	0.0014280	0.0014280	0.05000	2.9
9.64	Methoxychlor	198944	0.2465278	0.2465278	0.25000	98.6
10.01	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.38	Endrin ketone	2537	0.0013958	0.0013958	0.05000	2.8
11.51	Decachlorobiphenyl	33439	0.0216502	0.0216502	0.02000	108.3
			0.4674226			797.4

06/05/2015 13:54:38 Result: \\AIsltws012\TCCS\sagers\GCE21\21150604\21150604A_005.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
7.67	4,4'-DDE	725	0.0004009	0.0004009	0.10000	0.4
8.53	4,4'-DDD	0	0.0000000	0.0000000	----------	------
			0.0004009			0.4

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
9.38	Endrin aldehyde	1969	0.0014280	0.0014280	0.05000	2.9
10.38	Endrin ketone	2537	0.0013958	0.0013958	0.05000	2.8
			0.0028239			5.6

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:54:40
Operator	: sagers	Sample Name	: TOXAPH111
Sample Number	: 006	Study	: 26377
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
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		Cycle	: 5

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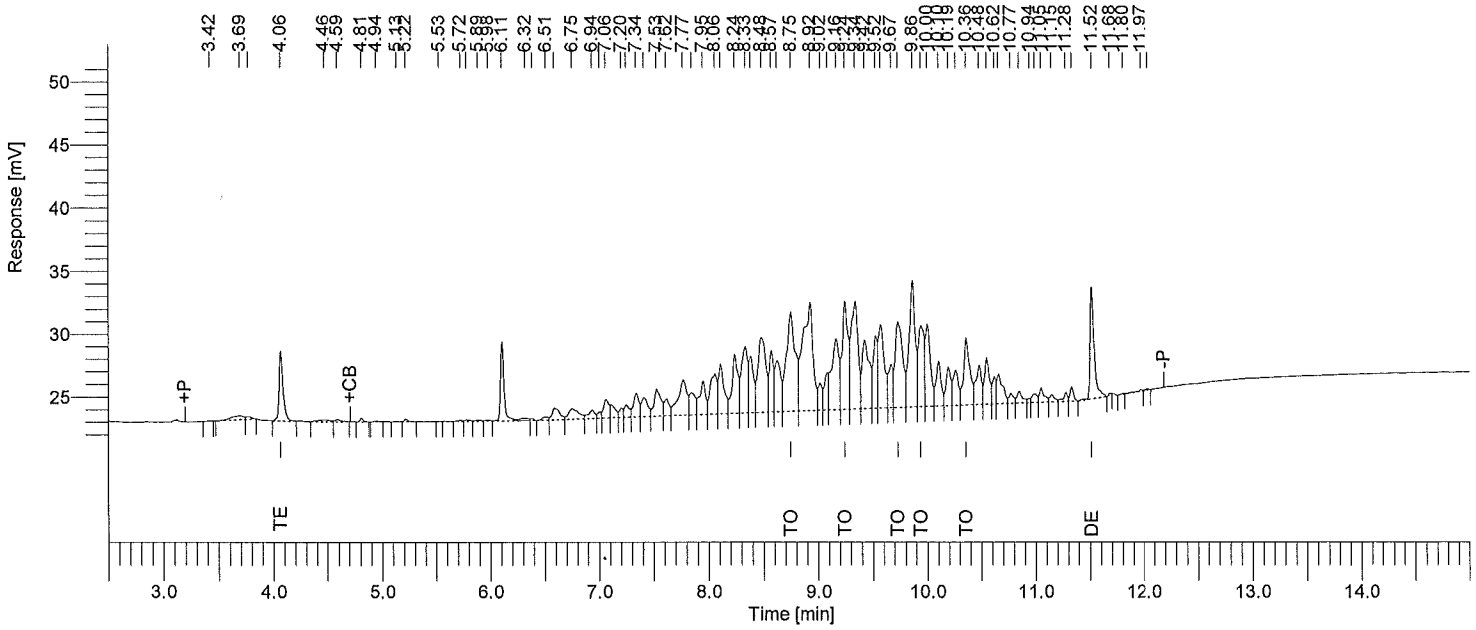

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.06	Tetrachloro-m-xylene	13777	0.0057474
8.75	Toxaphene-1	44650	0.5387173
9.24	Toxaphene-2	31964	0.5183201
9.73	Toxaphene-3	33561	0.5145160
9.94	Toxaphene-4	23541	0.5146771
10.36	Toxaphene-5	21622	0.4898797
11.52	Decachlorobiphenyl	22755	0.0122187

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:54:42
Operator	: sagers	Sample Name	: TOXAPH211
Sample Number	: 007	Study	: 26378
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 19:26:01	Dilution Factor	: 1.00
		Cycle	: 6

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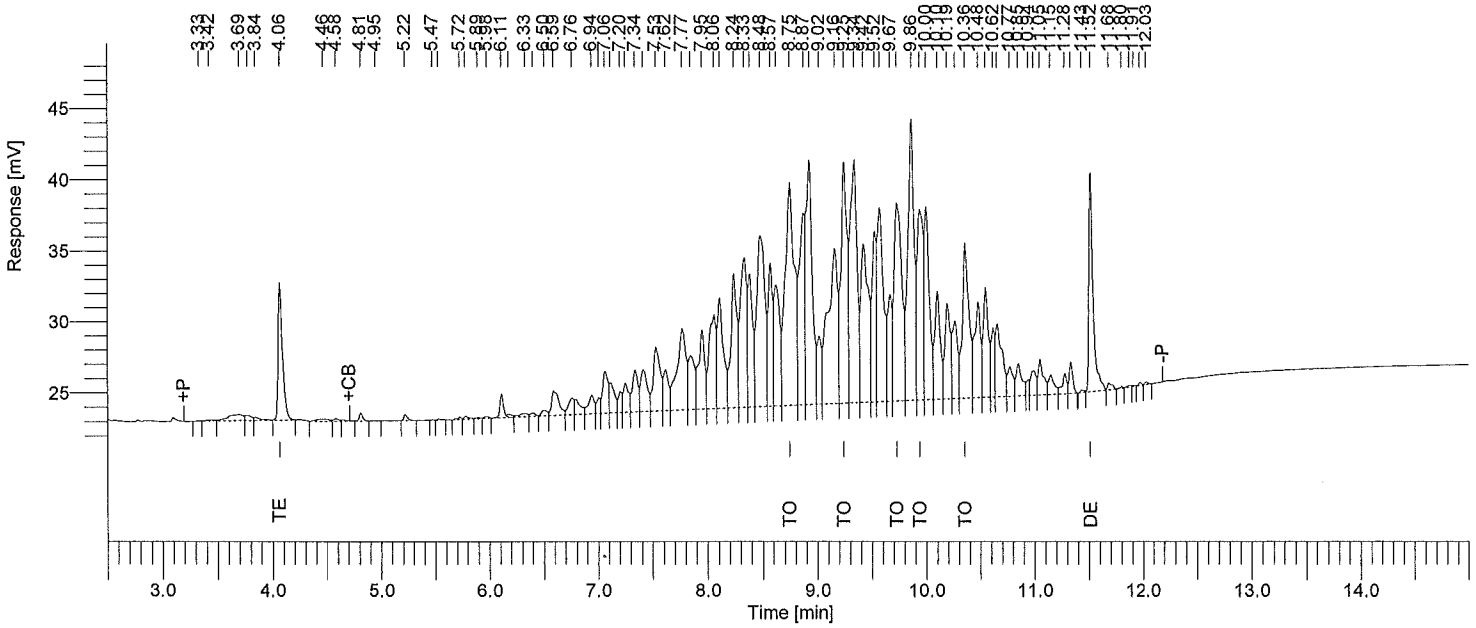

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.06	Tetrachloro-m-xylene	26398	0.0110125
8.75	Toxaphene-1	92264	1.1131906
9.25	Toxaphene-2	68271	1.1070533
9.73	Toxaphene-3	71519	1.0964464
9.94	Toxaphene-4	50277	1.0992023
10.36	Toxaphene-5	47253	1.0705831
11.52	Decachlorobiphenyl	41046	0.0220409

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:54:44
Operator	: sagers	Sample Name	: TOXAPH311
Sample Number	: 008	Study	: 26379
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 19:46:25	Dilution Factor	: 1.00
		Cycle	: 7

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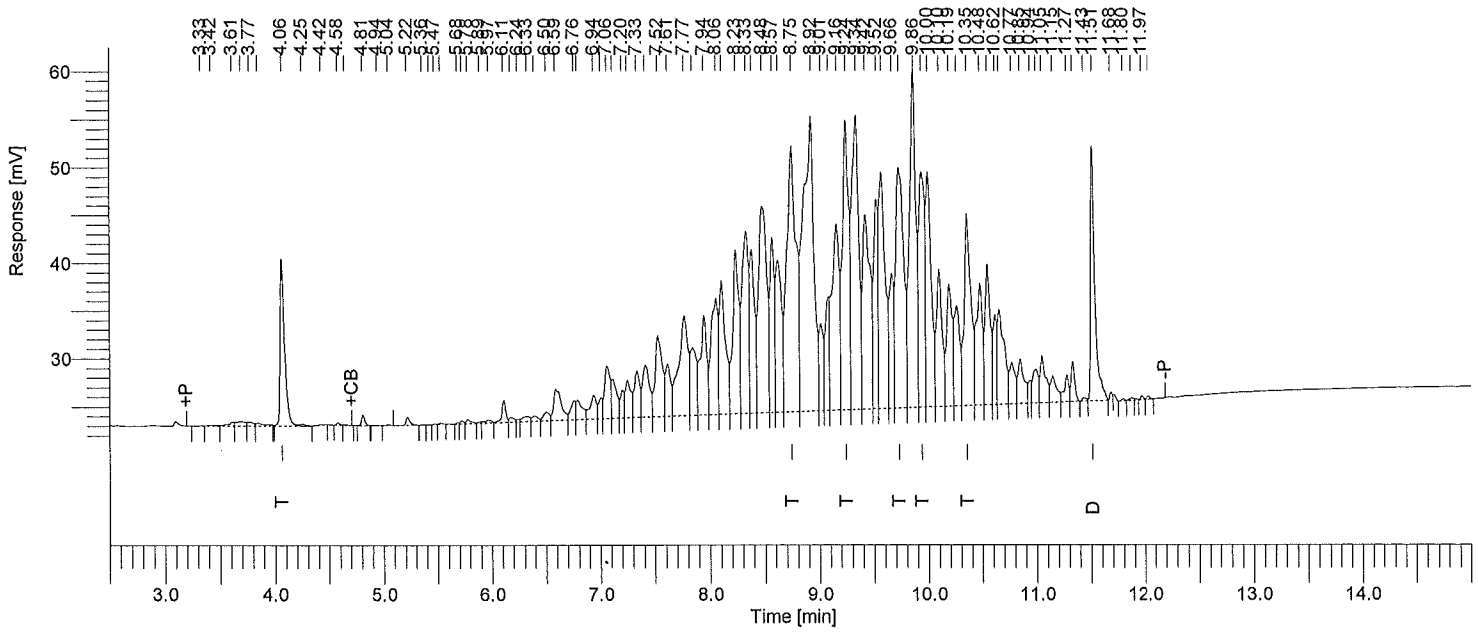

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.06	Tetrachloro-m-xylene	48283	0.0201422	0.0201422	0.0200000	100.7
8.75	Toxaphene-1	165815	2.0006051	2.0006051	2.0000000	100.0
9.24	Toxaphene-2	125081	2.0282751	2.0282751	2.0000000	101.4
9.73	Toxaphene-3	131610	2.0176779	2.0176779	2.0000000	100.9
9.94	Toxaphene-4	91485	2.0001084	2.0001084	2.0000000	100.0
10.35	Toxaphene-5	88936	2.0149654	2.0149654	2.0000000	100.7
11.51	Decachlorobiphenyl	70245	0.0377199	0.0377199	0.0400000	94.3

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:54:46
Operator	: sagers	Sample Name	: TOXAPH411
Sample Number	: 009	Study	: 26380
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 20:06:50	Dilution Factor	: 1.00
		Cycle	: 8

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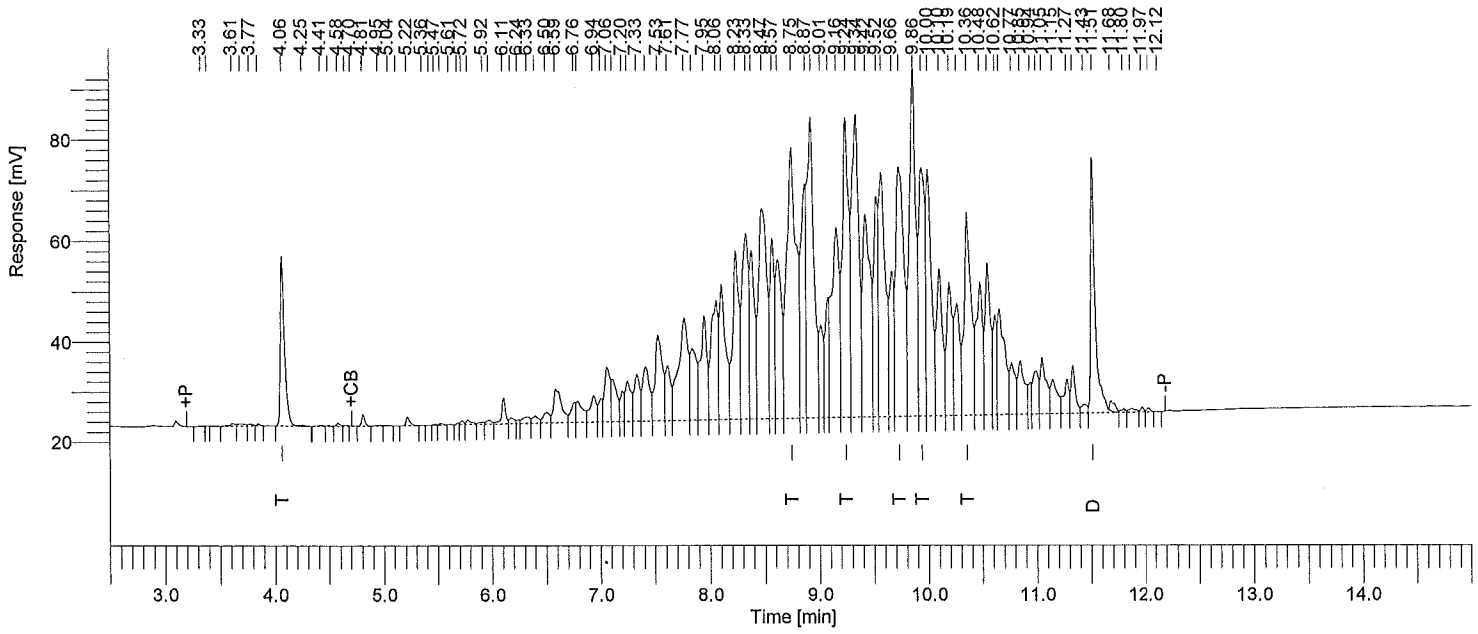

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.06	Tetrachloro-m-xylene	88748	0.0370235
8.75	Toxaphene-1	325929	3.9324231
9.24	Toxaphene-2	246291	3.9937603
9.73	Toxaphene-3	264811	4.0597645
9.94	Toxaphene-4	185212	4.0492562
10.36	Toxaphene-5	185633	4.2057641
11.51	Decachlorobiphenyl	142756	0.0766567

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:54:48
Operator	: sagers	Sample Name	: TOXAPH511
Sample Number	: 010	Study	: 26381
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 20:27:14	Dilution Factor	: 1.00
		Cycle	: 9

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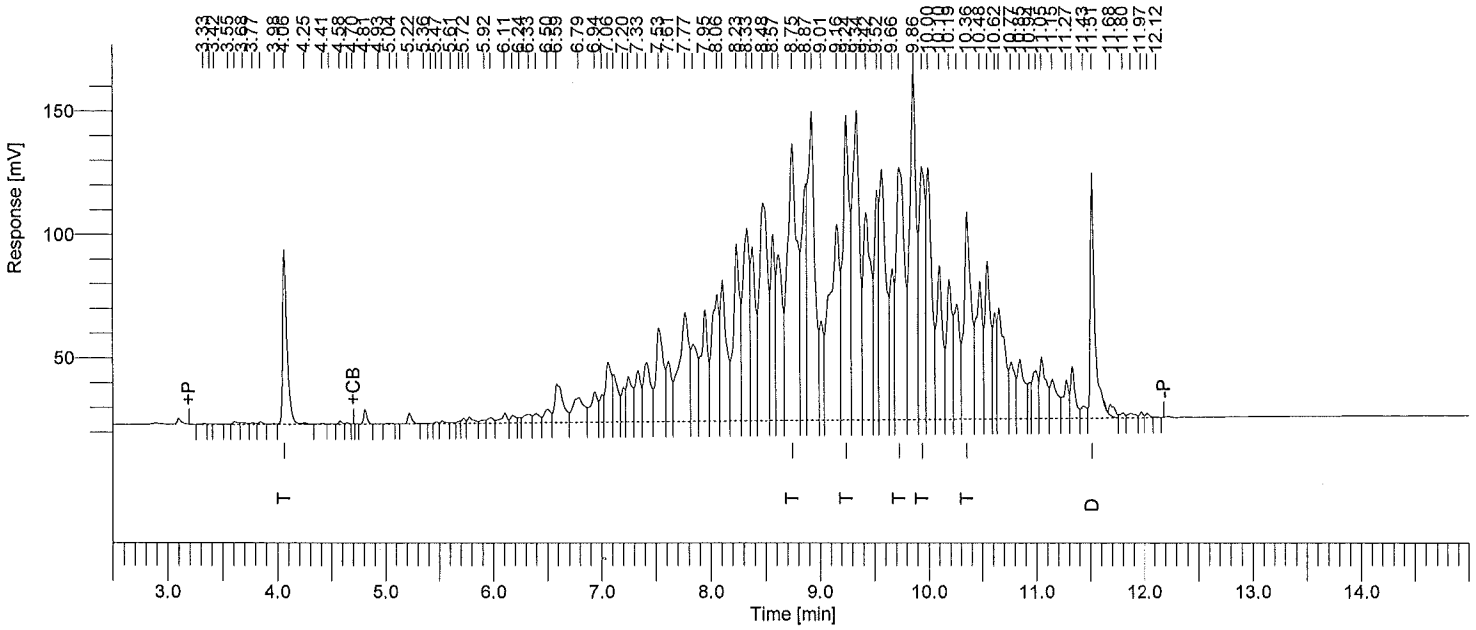

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.06	Tetrachloro-m-xylene	195739	0.0816570
8.75	Toxaphene-1	684581	8.2596649
9.24	Toxaphene-2	520318	8.4372889
9.73	Toxaphene-3	554923	8.5074150
9.94	Toxaphene-4	392940	8.5907528
10.36	Toxaphene-5	393151	8.9073386
11.51	Decachlorobiphenyl	288607	0.1549755

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:54:52
Operator	: sagers	Sample Name	: INDC111
Sample Number	: 011	Study	: 26382
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 20:47:38	Dilution Factor	: 1.00
		Cycle	: 10

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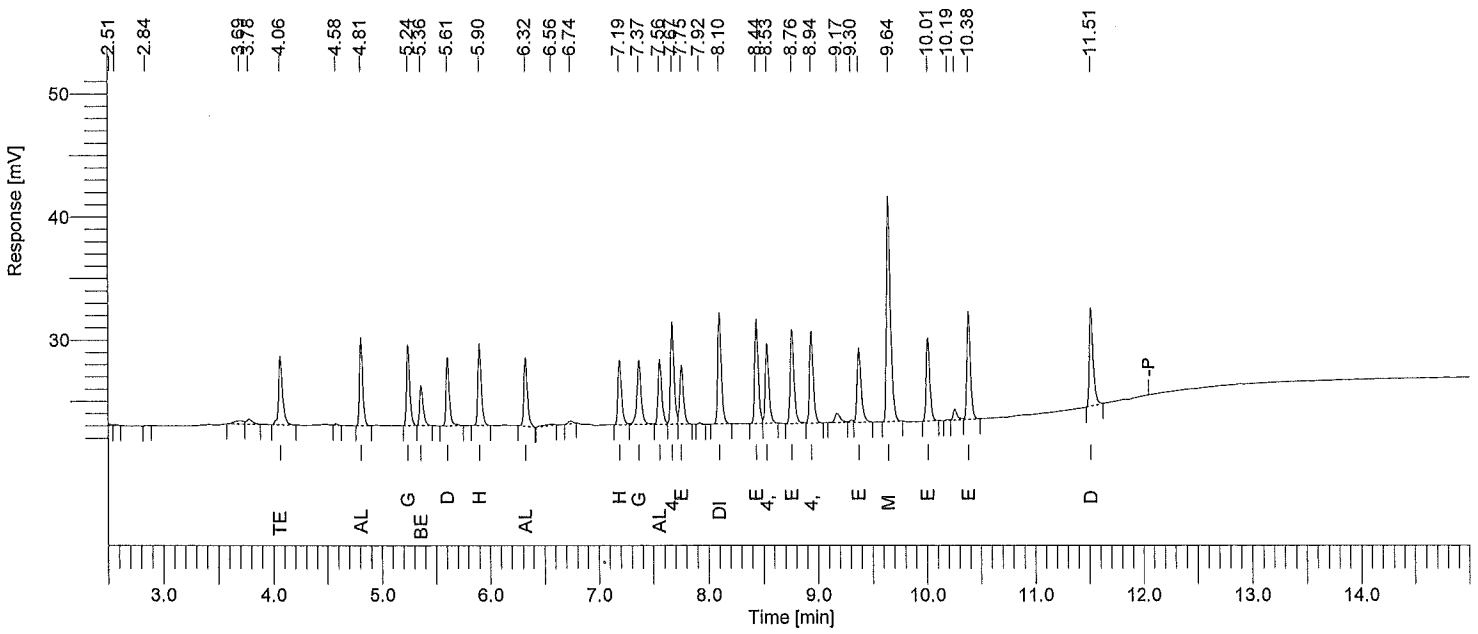

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.06	Tetrachloro-m-xylene	14111	0.0060511
4.81	alpha-BHC	14229	0.0050275
5.24	gamma-BHC	13376	0.0051359
5.36	beta-BHC	7313	0.0053952
5.61	delta-BHC	11854	0.0049086
5.90	Heptachlor	14606	0.0054735
6.32	Aldrin	12451	0.0053535
7.19	Heptachlor epoxide	12026	0.0055285
7.37	gamma-Chlordane	14289	0.0061319
7.56	alpha-Chlordane	12557	0.0055702
7.67	4,4'-DDE	18559	0.0102579
7.75	Endosulfan I	11140	0.0053169
8.10	Dieldrin	20519	0.0105495
8.44	Endrin	19233	0.0106764
8.53	4,4'-DDD	14830	0.0099370
8.76	Endosulfan II	18426	0.0111189
8.94	4,4'-DDT	17466	0.0106141
9.37	Endrin aldehyde	15466	0.0112151
9.64	Methoxychlor	47266	0.0585708
10.01	Endosulfan sulfate	15644	0.0107810
10.38	Endrin ketone	20181	0.0111051
11.51	Decachlorobiphenyl	18833	0.0121936

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:54:54
Operator	: sagers	Sample Name	: INDC211
Sample Number	: 012	Study	: 26383
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 21:08:02	Dilution Factor	: 1.00
		Cycle	: 11

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604A_012.rst
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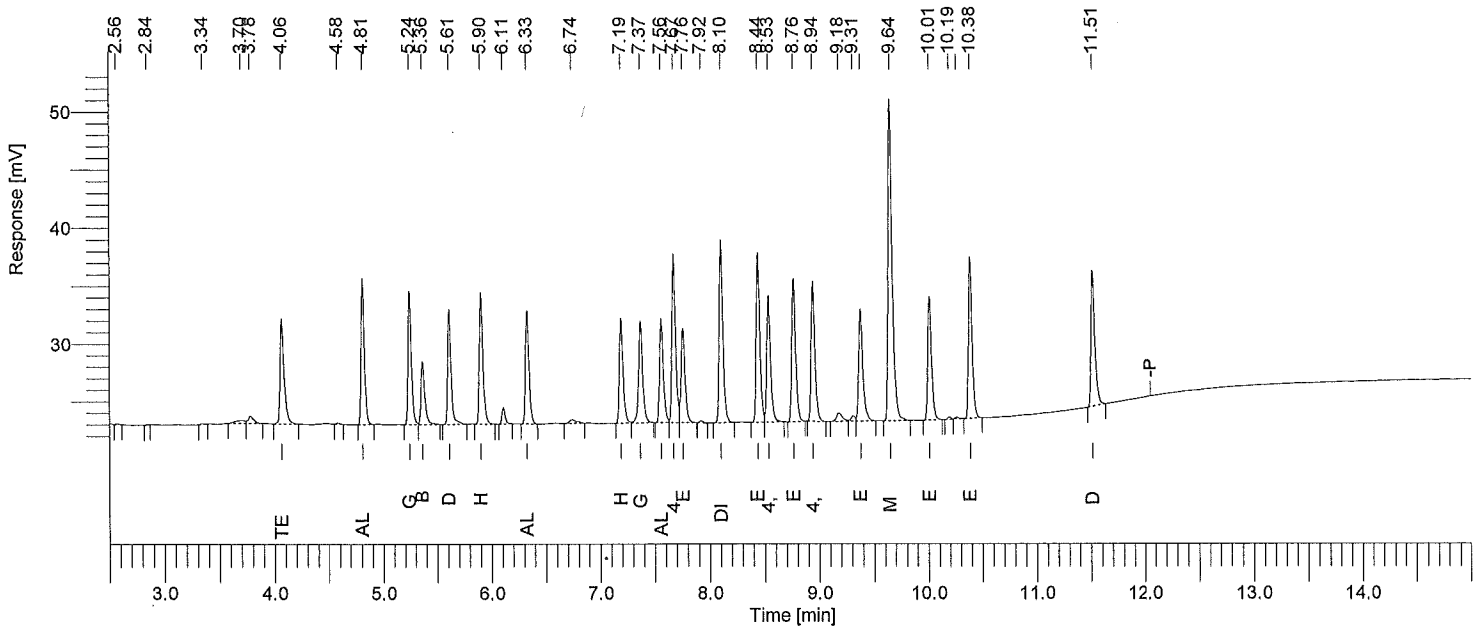

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.06	Tetrachloro-m-xylene	22943	0.0098386
4.81	alpha-BHC	26429	0.0093382
5.24	gamma-BHC	24650	0.0094649
5.36	beta-BHC	13349	0.0098479
5.61	delta-BHC	21740	0.0090023
5.90	Heptachlor	26312	0.0098600
6.33	Aldrin	21981	0.0094509
7.19	Heptachlor epoxide	21291	0.0097881
7.37	gamma-Chlordane	22816	0.0097911
7.56	alpha-Chlordane	21641	0.0095995
7.67	4,4'-DDE	33614	0.0185787
7.76	Endosulfan I	19989	0.0095400
8.10	Dieldrin	36919	0.0189815
8.44	Endrin	33807	0.0187664
8.53	4,4'-DDD	26537	0.0177809
8.76	Endosulfan II	30188	0.0182161
8.94	4,4'-DDT	29352	0.0178370
9.38	Endrin aldehyde	25342	0.0183760
9.64	Methoxychlor	74173	0.0919139
10.01	Endosulfan sulfate	25775	0.0177637
10.38	Endrin ketone	32696	0.0179913
11.51	Decachlorobiphenyl	28319	0.0183353

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:54:56
Operator	: sagers	Sample Name	: INDC311
Sample Number	: 013	Study	: 26384
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 21:28:26	Dilution Factor	: 1.00
		Cycle	: 12

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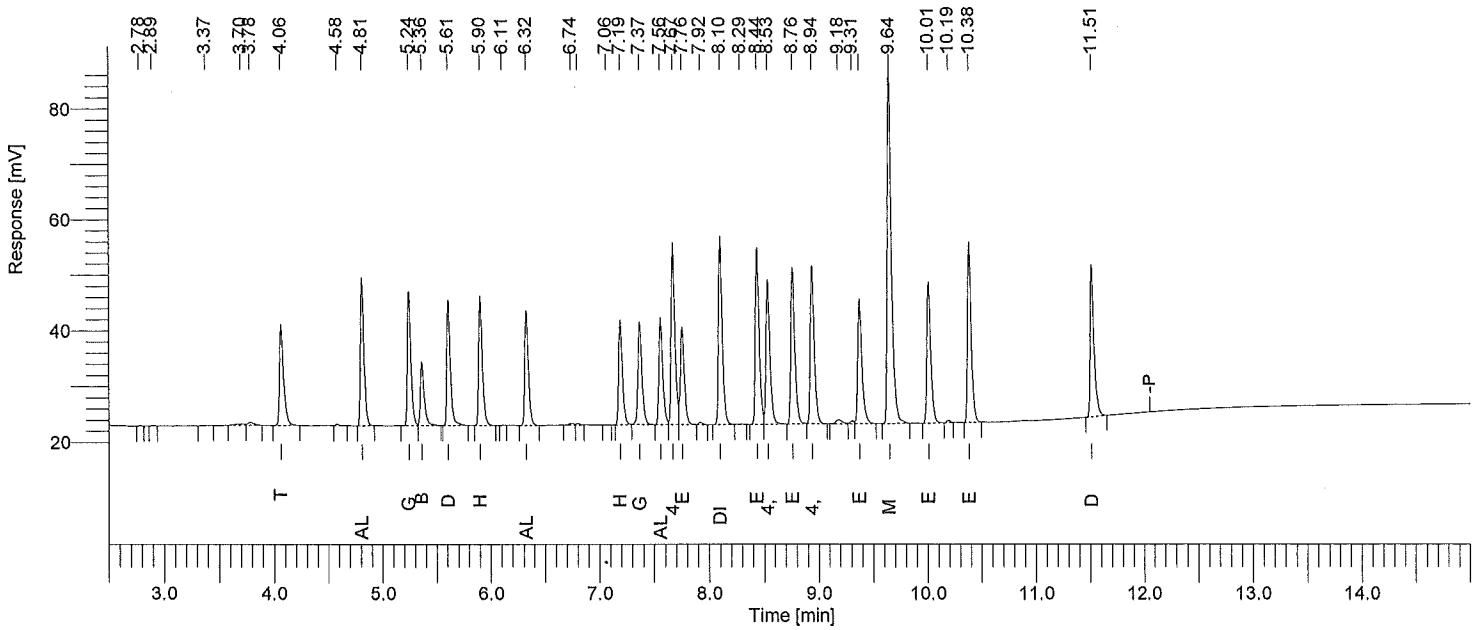

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.06	Tetrachloro-m-xylene	46254	0.0198350	0.0198350	0.0200000	99.2
4.81	alpha-BHC	58558	0.0206903	0.0206903	0.0200000	103.5
5.24	gamma-BHC	54159	0.0207950	0.0207950	0.0200000	104.0
5.36	beta-BHC	28445	0.0209843	0.0209843	0.0200000	104.9
5.61	delta-BHC	51460	0.0213095	0.0213095	0.0200000	106.5
5.90	Heptachlor	55023	0.0206190	0.0206190	0.0200000	103.1
6.32	Aldrin	47689	0.0205042	0.0205042	0.0200000	102.5
7.19	Heptachlor epoxide	44725	0.0205608	0.0205608	0.0200000	102.8
7.37	gamma-Chlordane	46317	0.0198760	0.0198760	0.0200000	99.4
7.56	alpha-Chlordane	46862	0.0207873	0.0207873	0.0200000	103.9
7.67	4,4'-DDE	77586	0.0428829	0.0428829	0.0400000	107.2
7.76	Endosulfan I	43986	0.0209929	0.0209929	0.0200000	105.0
8.10	Dieldrin	82122	0.0422224	0.0422224	0.0400000	105.6
8.44	Endrin	76049	0.0422154	0.0422154	0.0400000	105.5
8.53	4,4'-DDD	65684	0.0440107	0.0440107	0.0400000	110.0
8.76	Endosulfan II	70400	0.0424810	0.0424810	0.0400000	106.2
8.94	4,4'-DDT	71059	0.0431824	0.0431824	0.0400000	108.0
9.37	Endrin aldehyde	59314	0.0430101	0.0430101	0.0400000	107.5
9.64	Methoxychlor	172273	0.2134769	0.2134769	0.2000000	106.7
10.01	Endosulfan sulfate	62453	0.0430407	0.0430407	0.0400000	107.6
10.38	Endrin ketone	77970	0.0429039	0.0429039	0.0400000	107.3
11.51	Decachlorobiphenyl	66056	0.0427681	0.0427681	0.0400000	106.9

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:54:58
Operator	: sagers	Sample Name	: INDC411
Sample Number	: 014	Study	: 26385
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 21:48:50	Dilution Factor	: 1.00
		Cycle	: 13

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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150604\21_RPT_2UL\21_som_std_a.rpt
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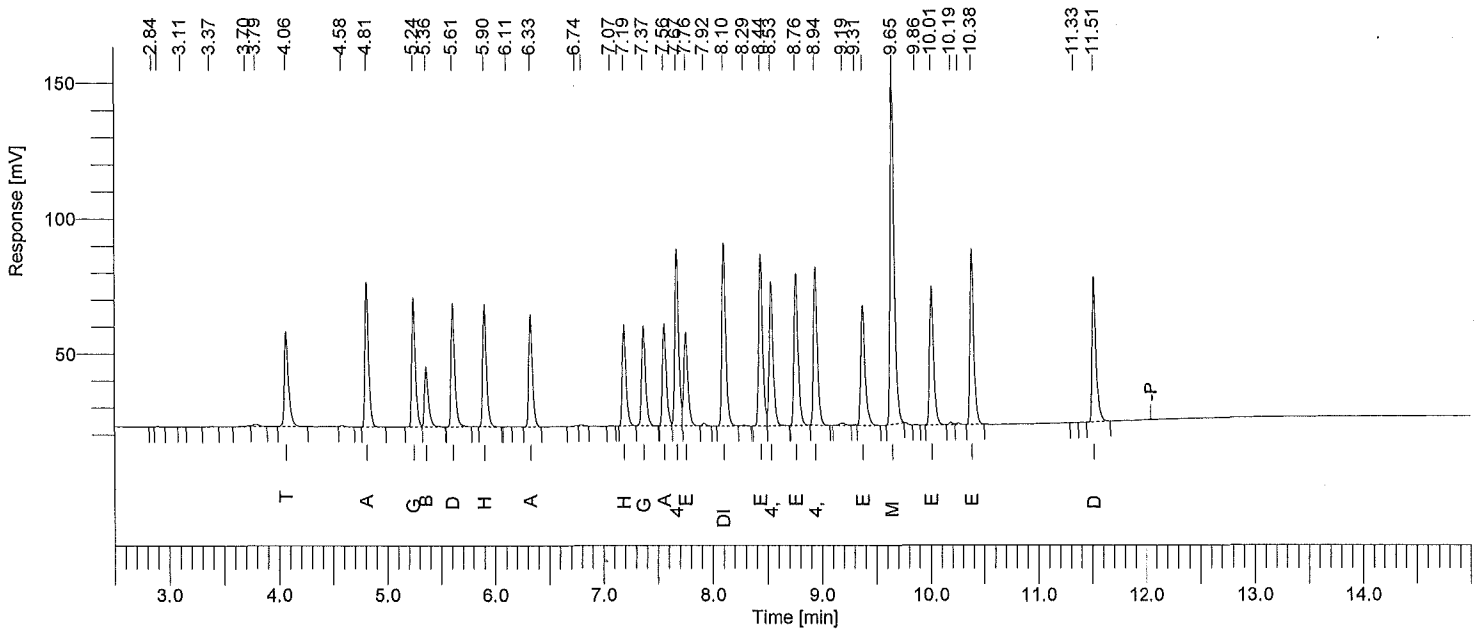

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.06	Tetrachloro-m-xylene	92585	0.0397031
4.81	alpha-BHC	122765	0.0433767
5.24	gamma-BHC	111525	0.0428213
5.36	beta-BHC	56303	0.0415361
5.61	delta-BHC	108116	0.0447703
5.90	Heptachlor	109677	0.0410999
6.33	Aldrin	98417	0.0423150
7.19	Heptachlor epoxide	90044	0.0413949
7.37	gamma-Chlordane	92348	0.0396297
7.56	alpha-Chlordane	93773	0.0415963
7.67	4,4'-DDE	158994	0.0878785
7.76	Endosulfan I	88724	0.0423445
8.10	Dieldrin	166763	0.0857400
8.44	Endrin	156129	0.0866684
8.53	4,4'-DDD	134947	0.0904193
8.76	Endosulfan II	142503	0.0859895
8.94	4,4'-DDT	146286	0.0888978
9.38	Endrin aldehyde	118128	0.0856582
9.65	Methoxychlor	338326	0.4192459
10.01	Endosulfan sulfate	128839	0.0887919
10.38	Endrin ketone	158205	0.0870546
11.51	Decachlorobiphenyl	129511	0.0838518

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:00
Operator	: sagers	Sample Name	: INDC511
Sample Number	: 015	Study	: 26386
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 22:09:24	Dilution Factor	: 1.00
		Cycle	: 14

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604A_015.rst
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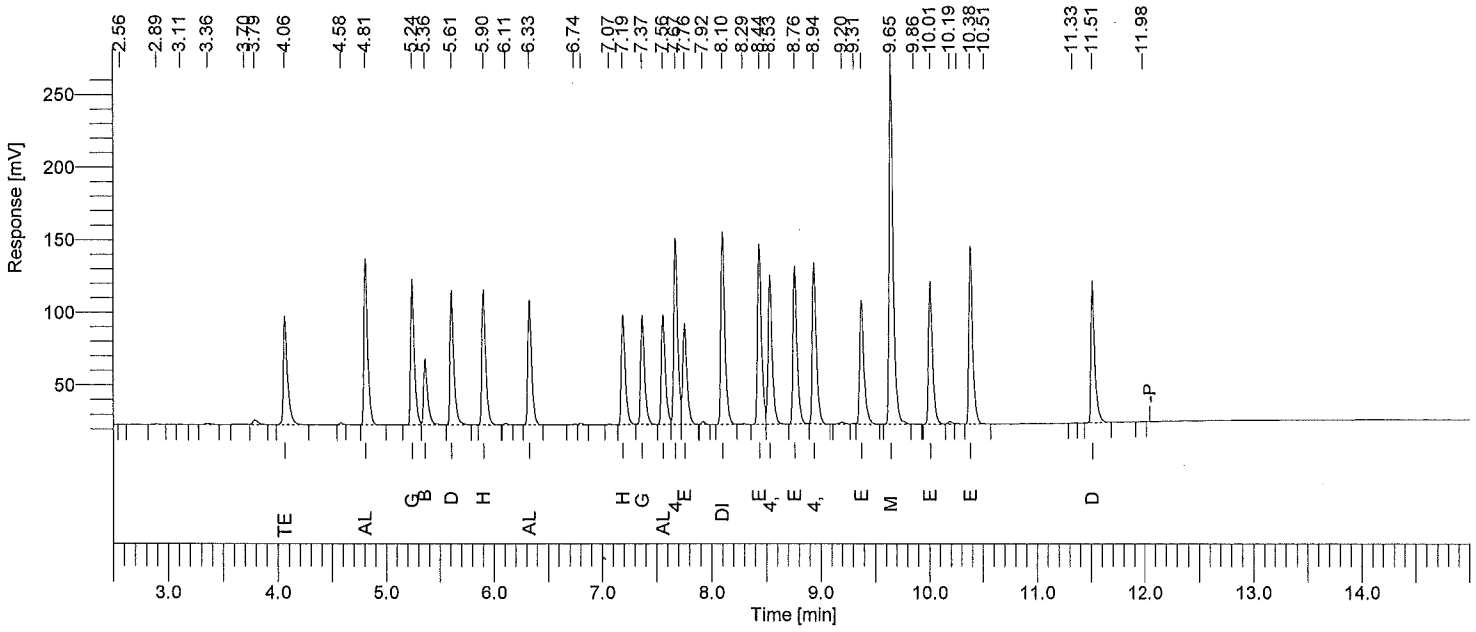

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.06	Tetrachloro-m-xylene	191591	0.0821595
4.81	alpha-BHC	266532	0.0941735
5.24	gamma-BHC	238577	0.0916050
5.36	beta-BHC	115023	0.0848548
5.61	delta-BHC	225387	0.0933316
5.90	Heptachlor	229720	0.0860846
6.33	Aldrin	209584	0.0901121
7.19	Heptachlor epoxide	185456	0.0852574
7.37	gamma-Chlordane	188747	0.0809977
7.56	alpha-Chlordane	190882	0.0846729
7.67	4,4'-DDE	316519	0.1749445
7.76	Endosulfan I	183203	0.0874361
8.10	Dieldrin	337910	0.1737339
8.44	Endrin	308155	0.1710592
8.53	4,4'-DDD	264687	0.1773501
8.76	Endosulfan II	278546	0.1680812
8.94	4,4'-DDT	281702	0.1711906
9.38	Endrin aldehyde	224432	0.1627425
9.65	Methoxychlor	640703	0.7939458
10.01	Endosulfan sulfate	246034	0.1695590
10.38	Endrin ketone	301363	0.1658288
11.51	Decachlorobiphenyl	230604	0.1493045

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:05
Operator	: sagers	Sample Name	: PEM21
Sample Number	: 017	Study	: 26388
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 22:50:22	Dilution Factor	: 1.00
		Cycle	: 16

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604A_017.rst
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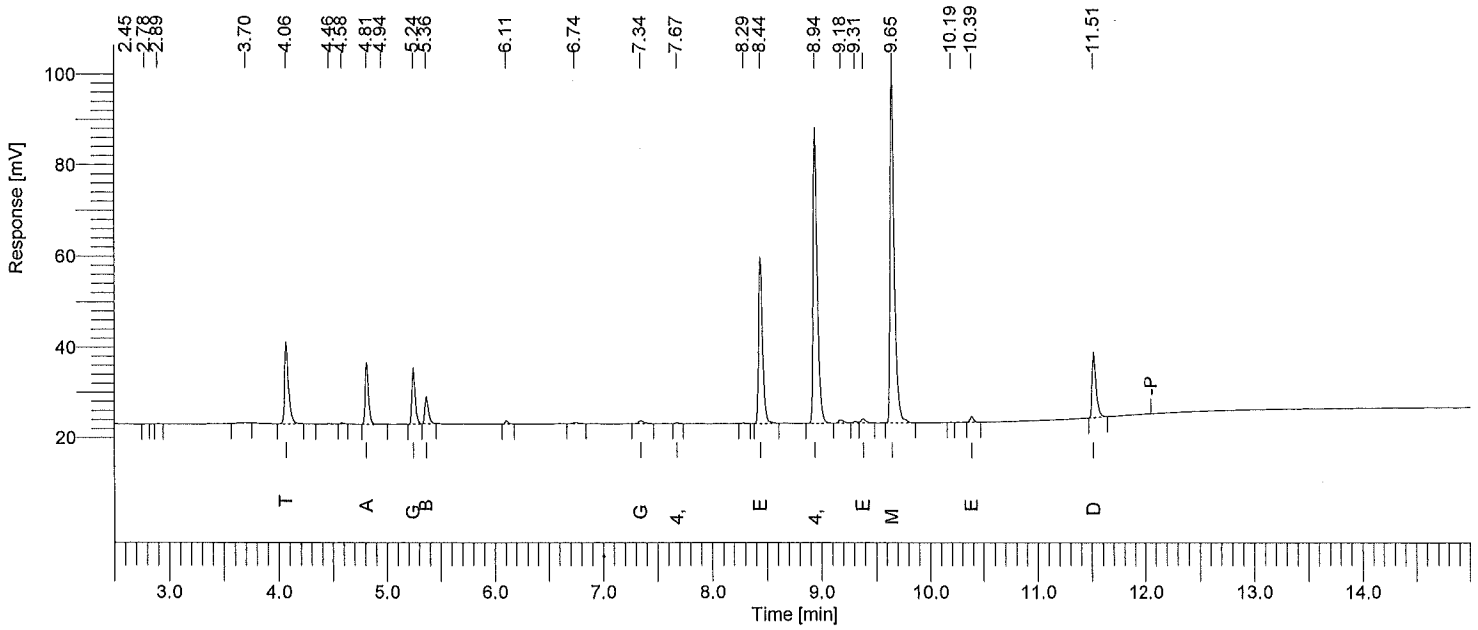
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604_SOM012_PEST_F9K58_A.seq



Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.06	Tetrachloro-m-xylene	44450	0.0190613	0.0190613	0.02000	95.3
4.81	alpha-BHC	27929	0.0098680	0.0098680	0.01000	98.7
5.24	gamma-BHC	26223	0.0100686	0.0100686	0.01000	100.7
5.36	beta-BHC	13672	0.0100857	0.0100857	0.01000	100.9
5.61	delta-BHC	0	0.0000000	0.0000000	----------	------
5.90	Heptachlor	0	0.0000000	0.0000000	----------	------
6.32	Aldrin	0	0.0000000	0.0000000	----------	------
7.19	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
7.34	gamma-Chlordane	2442	0.0010478	0.0010478	0.00000	------
7.56	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
7.67	4,4'-DDE	525	0.0002900	0.0002900	0.10000	0.3
7.76	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.10	Dieldrin	0	0.0000000	0.0000000	----------	------
8.44	Endrin	89999	0.0499589	0.0499589	0.05000	99.9
8.53	4,4'-DDD	0	0.0000000	0.0000000	----------	------
8.76	Endosulfan II	0	0.0000000	0.0000000	----------	------
8.94	4,4'-DDT	167596	0.1018484	0.1018484	0.10000	101.8
9.38	Endrin aldehyde	2742	0.0019882	0.0019882	0.05000	4.0
9.65	Methoxychlor	210024	0.2602572	0.2602572	0.25000	104.1
10.01	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.39	Endrin ketone	2852	0.0015694	0.0015694	0.05000	3.1
11.51	Decachlorobiphenyl	35531	0.0230047	0.0230047	0.02000	115.0
			0.4890483			823.8

06/05/2015 13:55:05 Result: \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604A_017.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
7.67	4,4'-DDE	525	0.0002900	0.0002900	0.10000	0.3
8.53	4,4'-DDD	0	0.0000000	0.0000000	----------	------
			0.0002900			0.3

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
9.38	Endrin aldehyde	2742	0.0019882	0.0019882	0.05000	4.0
10.39	Endrin ketone	2852	0.0015694	0.0015694	0.05000	3.1
			0.0035576			7.1

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:40
Operator	: sagers	Sample Name	: INDC331
Sample Number	: 033	Study	: 26384
AutoSampler	: HP7673A	Rack/Vial	: 0/33
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 04:16:42	Dilution Factor	: 1.00
		Cycle	: 32

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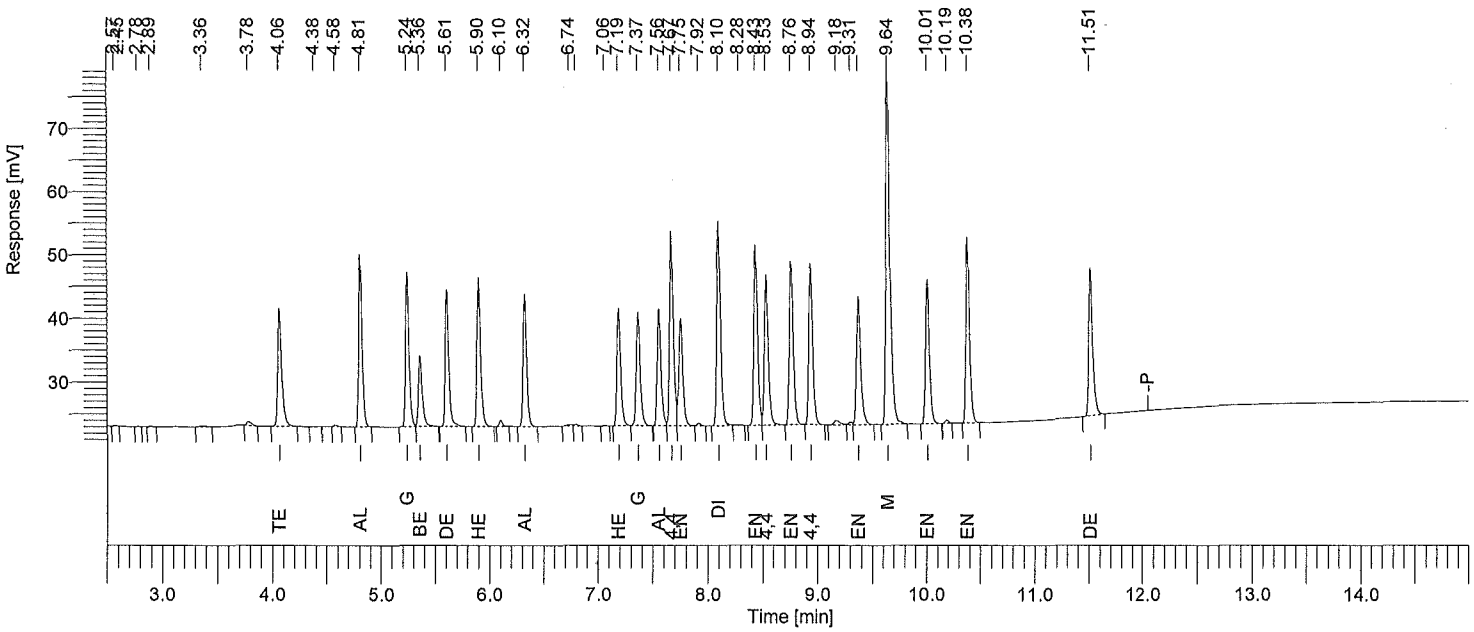

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.06	Tetrachloro-m-xylene	46590	0.0199789	0.0199789	0.0200000	99.9
4.81	alpha-BHC	59049	0.0208639	0.0208639	0.0200000	104.3
5.24	gamma-BHC	54055	0.0207551	0.0207551	0.0200000	103.8
5.36	beta-BHC	27400	0.0202135	0.0202135	0.0200000	101.1
5.61	delta-BHC	48767	0.0201941	0.0201941	0.0200000	101.0
5.90	Heptachlor	54714	0.0205035	0.0205035	0.0200000	102.5
6.32	Aldrin	47487	0.0204174	0.0204174	0.0200000	102.1
7.19	Heptachlor epoxide	43655	0.0200689	0.0200689	0.0200000	100.3
7.37	gamma-Chlordane	43900	0.0188392	0.0188392	0.0200000	94.2
7.56	alpha-Chlordane	44929	0.0199302	0.0199302	0.0200000	99.7
7.67	4,4'-DDE	72776	0.0402246	0.0402246	0.0400000	100.6
7.75	Endosulfan I	42186	0.0201339	0.0201339	0.0200000	100.7
8.10	Dieldrin	77908	0.0400556	0.0400556	0.0400000	100.1
8.43	Endrin	67501	0.0374702	0.0374702	0.0400000	93.7
8.53	4,4'-DDD	59036	0.0395564	0.0395564	0.0400000	98.9
8.76	Endosulfan II	63739	0.0384614	0.0384614	0.0400000	96.2
8.94	4,4'-DDT	62429	0.0379379	0.0379379	0.0400000	94.8
9.37	Endrin aldehyde	52480	0.0380547	0.0380547	0.0400000	95.1
9.64	Methoxychlor	148827	0.1844234	0.1844234	0.2000000	92.2
10.01	Endosulfan sulfate	54724	0.0377143	0.0377143	0.0400000	94.3
10.38	Endrin ketone	69334	0.0381521	0.0381521	0.0400000	95.4
11.51	Decachlorobiphenyl	56251	0.0364199	0.0364199	0.0400000	91.0

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:16:24
Operator	: sagers	Sample Name	: RESC51
Sample Number	: 004	Study	: 26384
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 15:00:10	Dilution Factor	: 1.00
		Cycle	: 3

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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150608\21_RPT_2UL\21_som_std_a.rpt
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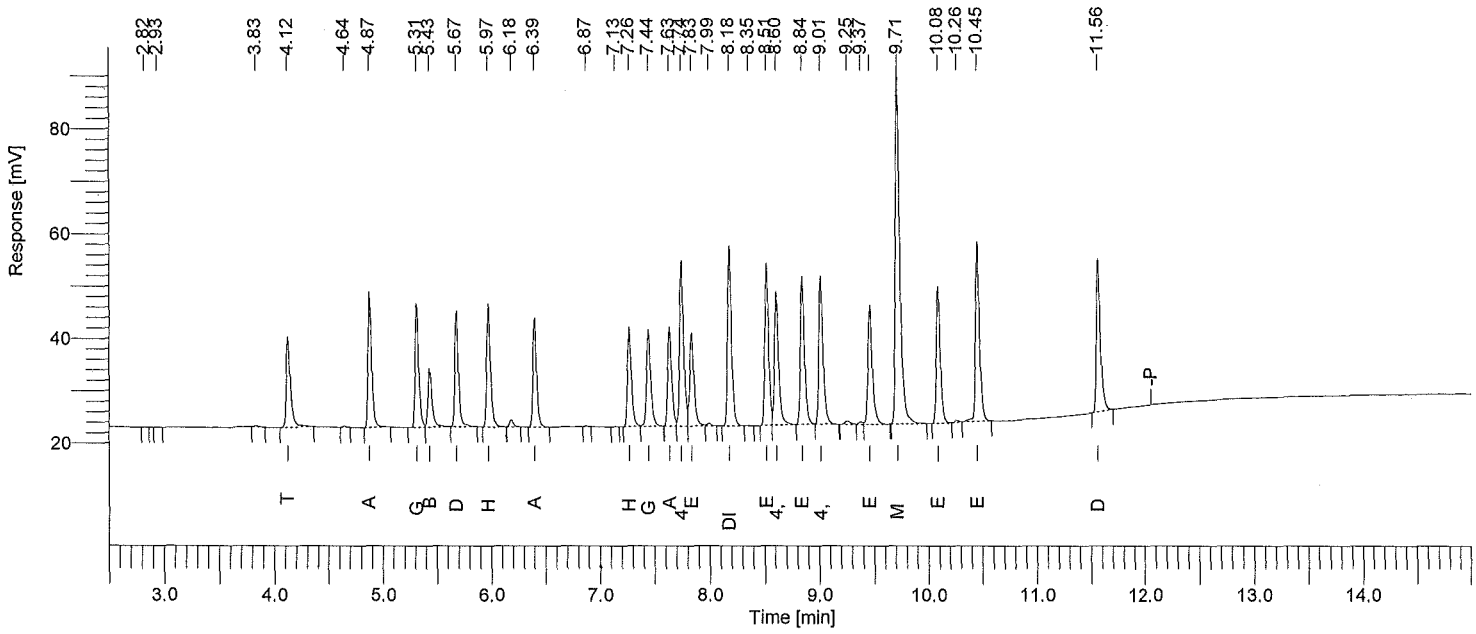

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	46421	0.0205389
4.87	alpha-BHC	60306	0.0213574
5.31	gamma-BHC	55118	0.0211908
5.43	beta-BHC	29530	0.0215356
5.67	delta-BHC	51430	0.0211993
5.97	Heptachlor	57855	0.0209512
6.39	Aldrin	49969	0.0209124
7.26	Heptachlor epoxide	47460	0.0209280
7.44	gamma-Chlordane	49348	0.0208426
7.63	alpha-Chlordane	48404	0.0207088
7.74	4,4'-DDE	79504	0.0420805
7.83	Endosulfan I	48195	0.0209844
8.18	Dieldrin	86967	0.0421723
8.51	Endrin	75387	0.0432868
8.60	4,4'-DDD	68183	0.0416804
8.84	Endosulfan II	74308	0.0410288
9.01	4,4'-DDT	74915	0.0412708
9.45	Endrin aldehyde	64594	0.0415210
9.71	Methoxychlor	192628	0.2054914
10.08	Endosulfan sulfate	66415	0.0414118
10.45	Endrin ketone	88662	0.0413839
11.56	Decachlorobiphenyl	74853	0.0407366

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:16:26
Operator	: sagers	Sample Name	: PEM51
Sample Number	: 005	Study	: 26388
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/08/2015 15:20:32	Cycle	: 4

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Calib Method : \\AlsItws012\TCCS\sagers\GCE21\21150608\21_som12_pest_a.mth from \\AlsItws012\TCCS\sagers\GCE21\21150608\21150608A_005.rst
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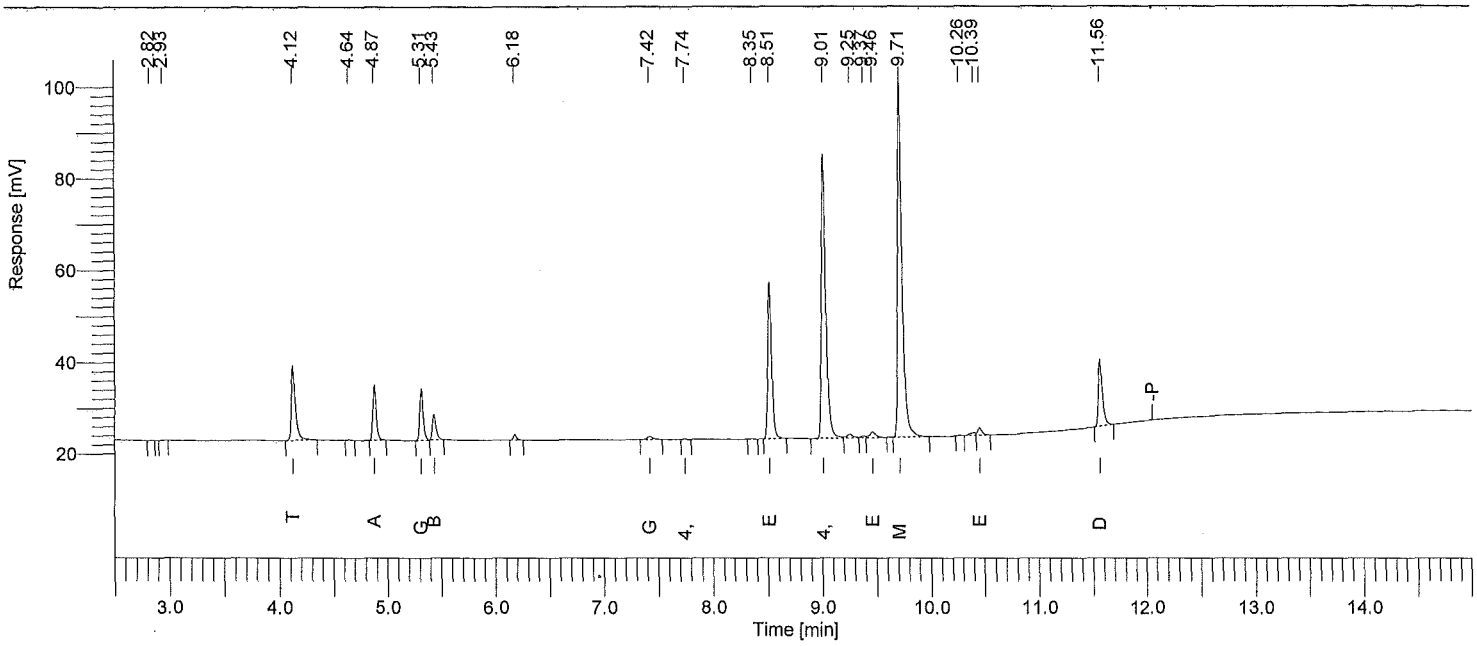

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.12	Tetrachloro-m-xylene	43123	0.0190799	0.0190799	0.02000	95.4
4.87	alpha-BHC	26231	0.0092898	0.0092898	0.01000	92.9
5.31	gamma-BHC	25040	0.0096271	0.0096271	0.01000	96.3
5.43	beta-BHC	13064	0.0095278	0.0095278	0.01000	95.3
5.67	delta-BHC	0	0.0000000	0.0000000	----------	------
5.96	Heptachlor	0	0.0000000	0.0000000	----------	------
6.39	Aldrin	0	0.0000000	0.0000000	----------	------
7.26	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
7.42	gamma-Chlordane	2541	0.0010731	0.0010731	0.00000	------
7.62	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
7.74	4,4'-DDE	408	0.0002158	0.0002158	0.10000	0.2
7.82	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.17	Dieldrin	0	0.0000000	0.0000000	----------	------
8.51	Endrin	85577	0.0491382	0.0491382	0.05000	98.3
8.60	4,4'-DDD	0	0.0000000	0.0000000	----------	------
8.83	Endosulfan II	0	0.0000000	0.0000000	----------	------
9.01	4,4'-DDT	172661	0.0951193	0.0951193	0.10000	95.1
9.46	Endrin aldehyde	5174	0.0033260	0.0033260	0.05000	6.7
9.71	Methoxychlor	222827	0.2377069	0.2377069	0.25000	95.1
10.07	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.45	Endrin ketone	4400	0.0020537	0.0020537	0.05000	4.1
11.56	Decachlorobiphenyl	37823	0.0205837	0.0205837	0.02000	102.9
			0.4567412			782.2

06/09/2015 11:16:26 Result: \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_005.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
7.74	4,4'-DDE	408	0.0002158	0.0002158	0.10000	0.2
8.60	4,4'-DDD	0	0.0000000	0.0000000	----------	------
			0.0002158			0.2

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
9.46	Endrin aldehyde	5174	0.0033260	0.0033260	0.05000	6.7
10.45	Endrin ketone	4400	0.0020537	0.0020537	0.05000	4.1
			0.0053797			10.8

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:16:28
Operator	: sagers	Sample Name	: TOXAPH151
Sample Number	: 006	Study	: 26377
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 15:40:58	Dilution Factor	: 1.00
		Cycle	: 5

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som_tox_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_006.rst
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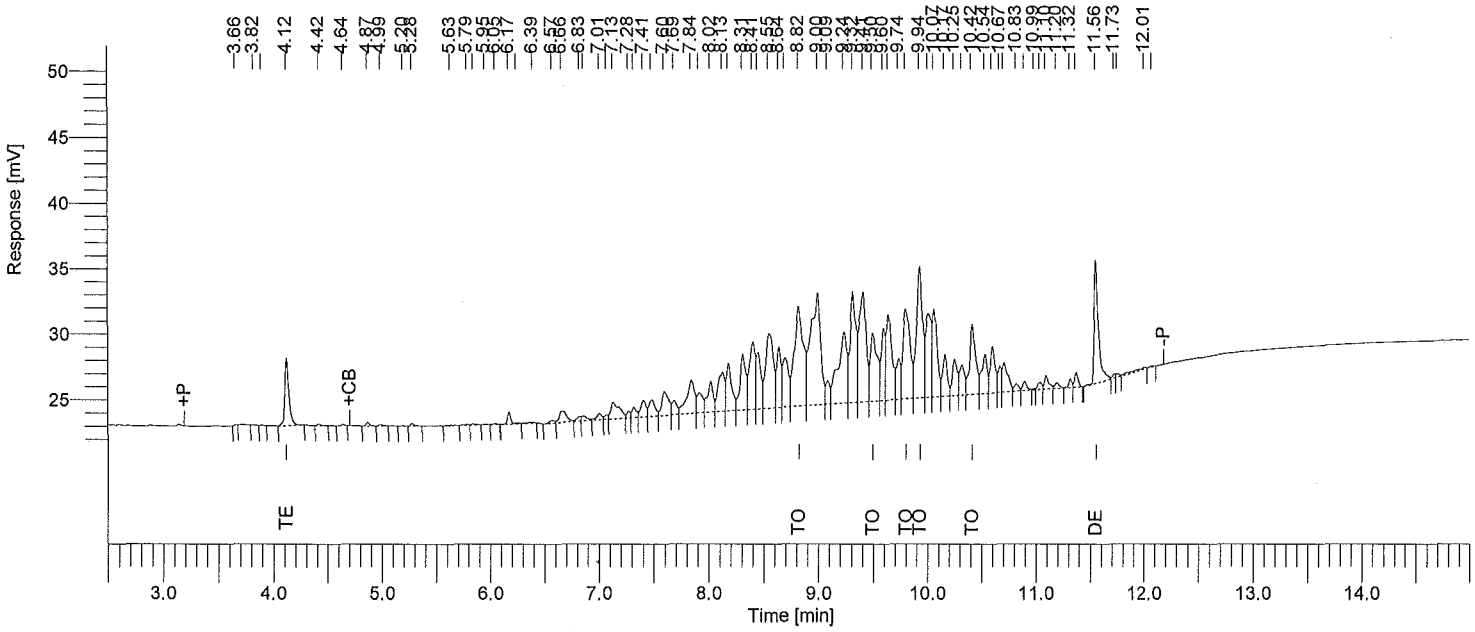

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	13067	0.0057712
8.82	Toxaphene-1	43655	0.5111630
9.50	Toxaphene-2	23074	0.4685191
9.81	Toxaphene-3	31789	0.4749669
9.94	Toxaphene-4	39378	0.5074579
10.42	Toxaphene-5	21080	0.4477867
11.56	Decachlorobiphenyl	26080	0.0119629

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:16:30
Operator	: sagers	Sample Name	: TOXAPH251
Sample Number	: 007	Study	: 26378
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 16:01:20	Dilution Factor	: 1.00
		Cycle	: 6

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_007.raw <Modified>
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som_tox_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_007.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som_tox_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_007.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150608\21_RPT_2UL\21_som_std_a.rpt
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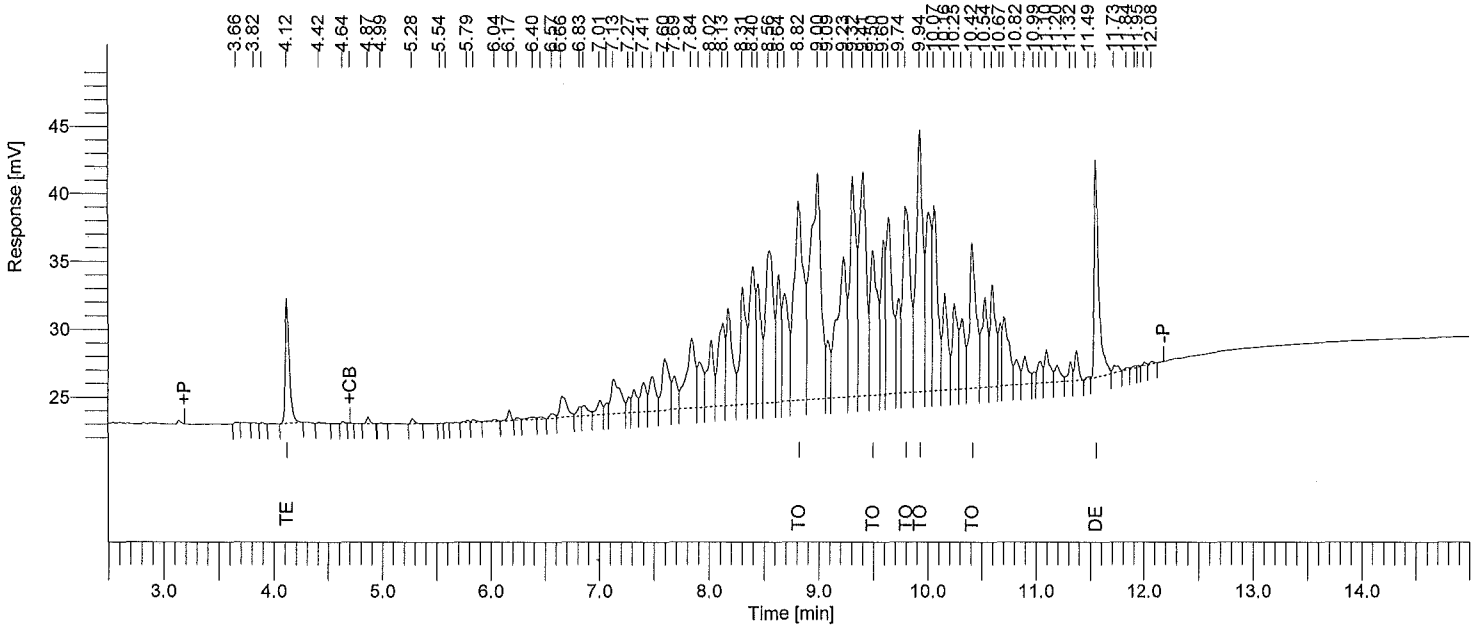

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	23482	0.0103712
8.82	Toxaphene-1	88070	1.0312254
9.50	Toxaphene-2	49855	1.0123100
9.80	Toxaphene-3	67726	1.0119033
9.94	Toxaphene-4	80004	1.0310027
10.42	Toxaphene-5	46069	0.9786243
11.56	Decachlorobiphenyl	45951	0.0210780

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:16:33
Operator	: sagers	Sample Name	: TOXAPH351
Sample Number	: 008	Study	: 26379
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 16:21:44	Dilution Factor	: 1.00
		Cycle	: 7

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som_tox_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_008.rst
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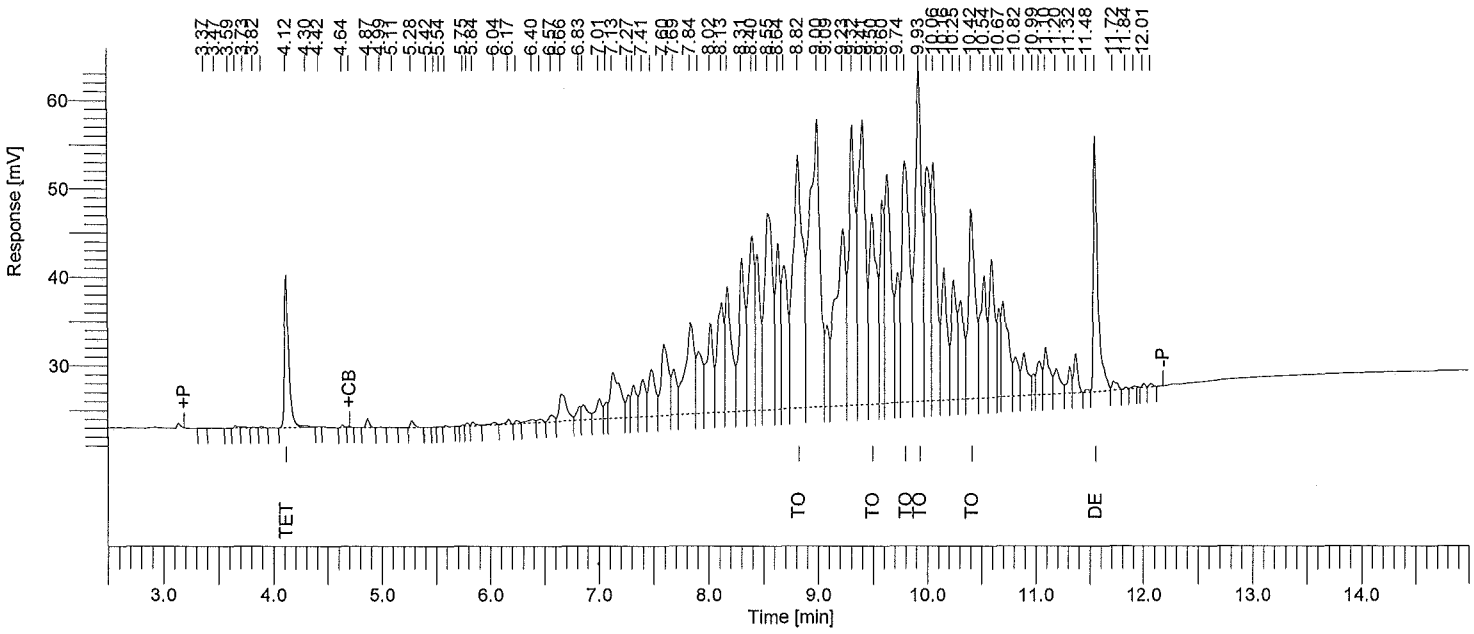

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.12	Tetrachloro-m-xylene	45857	0.0202534	0.0202534	0.0200000	101.3
8.82	Toxaphene-1	174977	2.0488356	2.0488356	2.0000000	102.4
9.50	Toxaphene-2	101158	2.0540388	2.0540388	2.0000000	102.7
9.80	Toxaphene-3	137362	2.0523435	2.0523435	2.0000000	102.6
9.93	Toxaphene-4	157456	2.0291230	2.0291230	2.0000000	101.5
10.42	Toxaphene-5	95940	2.0380206	2.0380206	2.0000000	101.9
11.56	Decachlorobiphenyl	82469	0.0378291	0.0378291	0.0400000	94.6

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:16:35
Operator	: sagers	Sample Name	: TOXAPH451
Sample Number	: 009	Study	: 26380
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 16:42:08	Dilution Factor	: 1.00
		Cycle	: 8

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som_tox_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_009.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som_tox_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_009.rst
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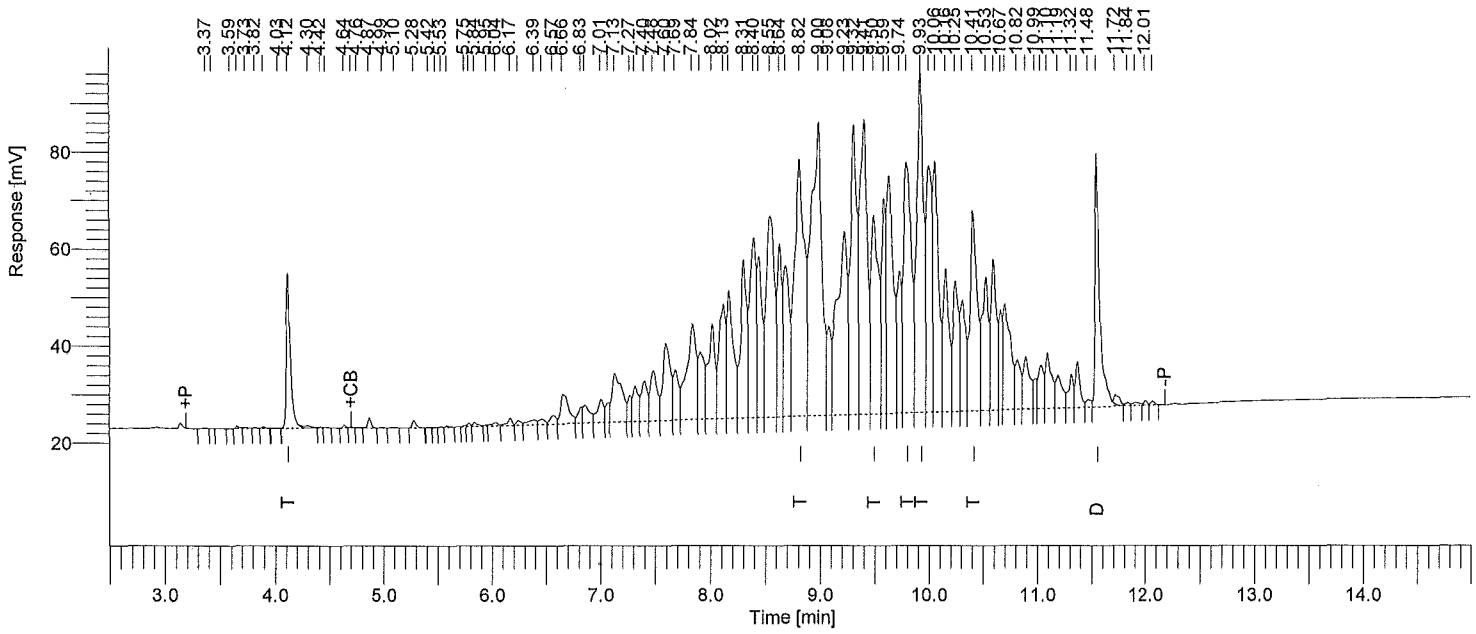

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	82759	0.0365518
8.82	Toxaphene-1	327682	3.8368888
9.50	Toxaphene-2	197162	4.0034262
9.80	Toxaphene-3	266282	3.9785589
9.93	Toxaphene-4	299131	3.8548818
10.41	Toxaphene-5	192001	4.0786252
11.55	Decachlorobiphenyl	156323	0.0717070

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:16:37
Operator	: sagers	Sample Name	: TOXAPH551
Sample Number	: 010	Study	: 26381
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 17:02:36	Dilution Factor	: 1.00
		Cycle	: 9

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som_tox_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_010.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som_tox_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_010.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150608\21_RPT_2UL\21_som_std_a.rpt
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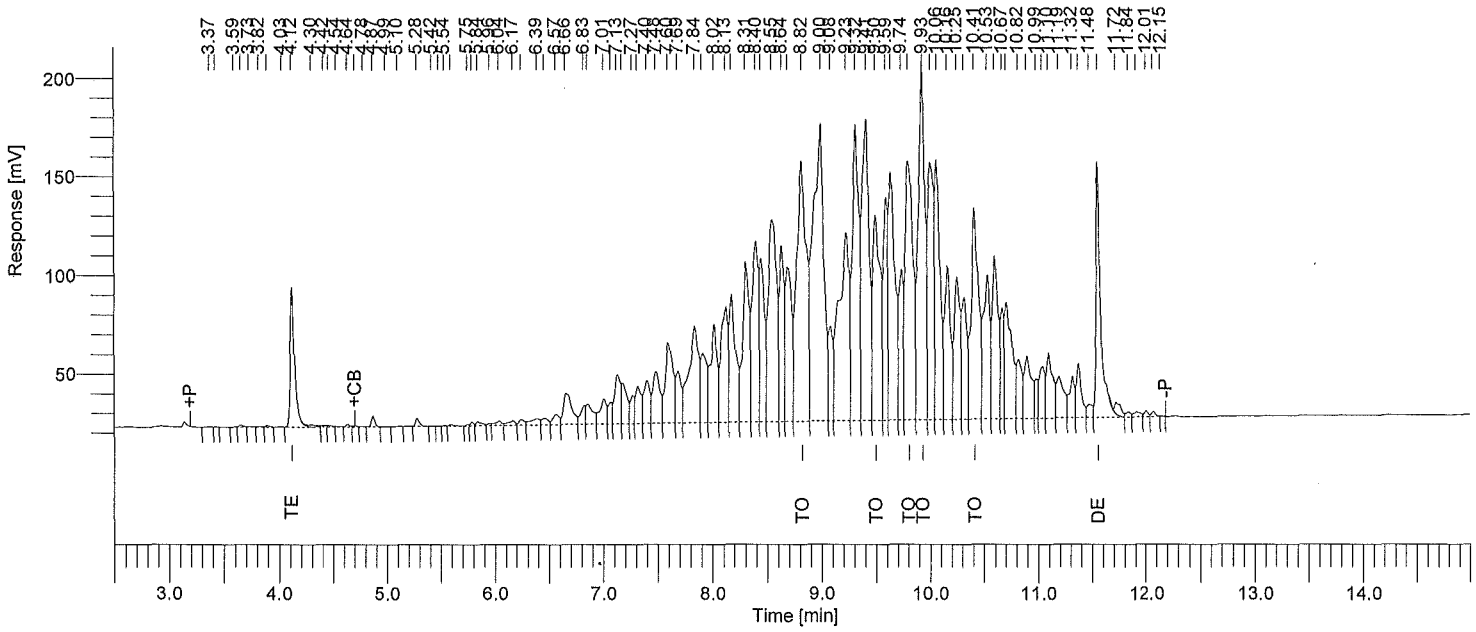

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	199741	0.0882185
8.82	Toxaphene-1	822268	9.6280859
9.50	Toxaphene-2	503700	10.2277591
9.80	Toxaphene-3	680906	10.1735134
9.93	Toxaphene-4	757201	9.7579952
10.41	Toxaphene-5	511768	10.8713565
11.55	Decachlorobiphenyl	395782	0.1815486

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:16:41
Operator	: sagers	Sample Name	: INDC151
Sample Number	: 011	Study	: 26382
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 17:23:17	Dilution Factor	: 1.00
		Cycle	: 10

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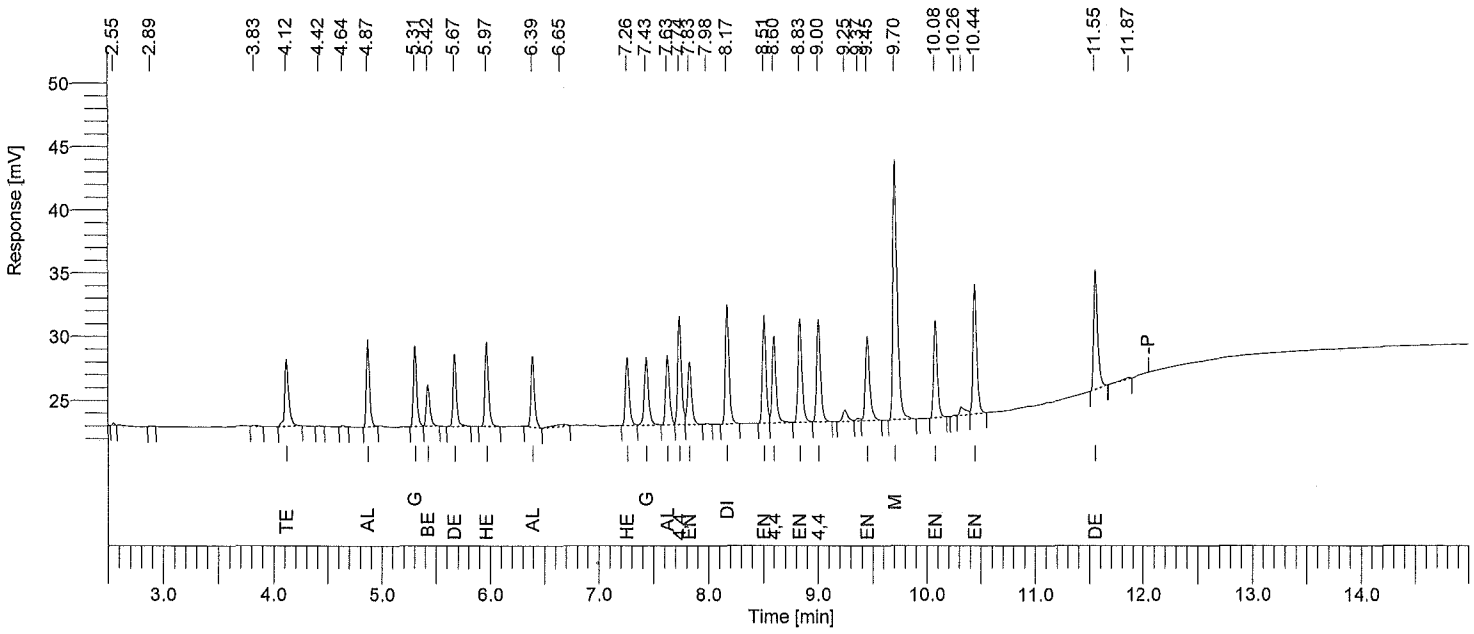

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	13360	0.0059112
4.87	alpha-BHC	13955	0.0049421
5.31	gamma-BHC	13511	0.0051945
5.42	beta-BHC	7593	0.0055374
5.67	delta-BHC	12237	0.0050443
5.97	Heptachlor	15214	0.0055093
6.39	Aldrin	12773	0.0053456
7.26	Heptachlor epoxide	12683	0.0055927
7.43	gamma-Chlordane	14260	0.0060229
7.63	alpha-Chlordane	13300	0.0056899
7.74	4,4'-DDE	20018	0.0105956
7.83	Endosulfan I	12488	0.0054375
8.17	Dieldrin	22158	0.0107450
8.51	Endrin	19453	0.0111700
8.60	4,4'-DDD	17152	0.0104849
8.83	Endosulfan II	20637	0.0113947
9.00	4,4'-DDT	19981	0.0110074
9.45	Endrin aldehyde	18118	0.0116462
9.70	Methoxychlor	57385	0.0612176
10.08	Endosulfan sulfate	18279	0.0113978
10.44	Endrin ketone	24734	0.0115449
11.55	Decachlorobiphenyl	23483	0.0127800

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:16:43
Operator	: sagers	Sample Name	: INDC251
Sample Number	: 012	Study	: 26383
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/08/2015 17:43:41	Cycle	: 11

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_012.rst
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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150608\21_RPT_2UL\21_som_std_a.rpt
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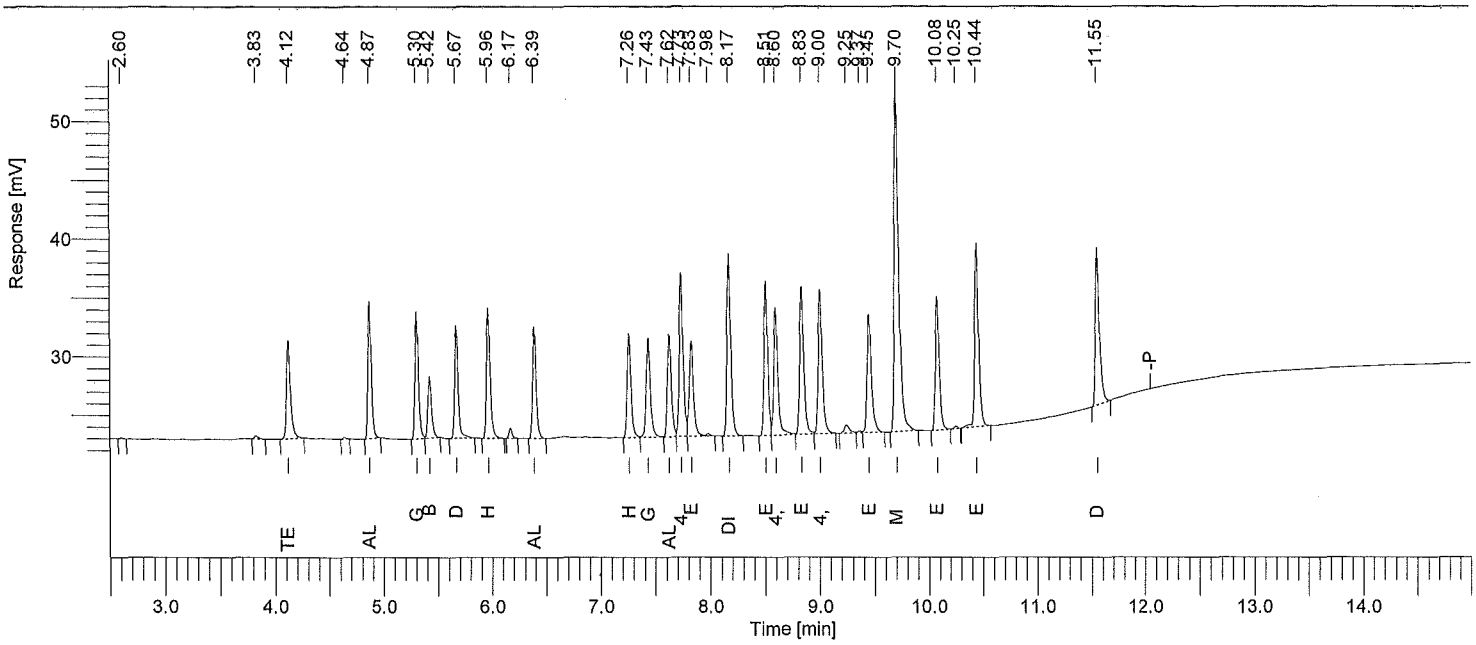

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	21242	0.0093986
4.87	alpha-BHC	25307	0.0089627
5.30	gamma-BHC	23962	0.0092125
5.42	beta-BHC	12572	0.0091690
5.67	delta-BHC	21370	0.0088088
5.96	Heptachlor	26570	0.0096218
6.39	Aldrin	21878	0.0091563
7.26	Heptachlor epoxide	21681	0.0095605
7.43	gamma-Chlordane	22437	0.0094767
7.62	alpha-Chlordane	21990	0.0094082
7.73	4,4'-DDE	33603	0.0177859
7.83	Endosulfan I	21568	0.0093906
8.17	Dieldrin	38121	0.0184856
8.51	Endrin	31182	0.0179044
8.60	4,4'-DDD	28616	0.0174930
8.83	Endosulfan II	32995	0.0182180
9.00	4,4'-DDT	32041	0.0176515
9.45	Endrin aldehyde	28406	0.0182593
9.70	Methoxychlor	85017	0.0906939
10.08	Endosulfan sulfate	28586	0.0178244
10.44	Endrin ketone	39581	0.0184748
11.55	Decachlorobiphenyl	34558	0.0188070

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:16:45
Operator	: sagers	Sample Name	: INDC351
Sample Number	: 013	Study	: 26384
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 18:04:13	Dilution Factor	: 1.00
		Cycle	: 12

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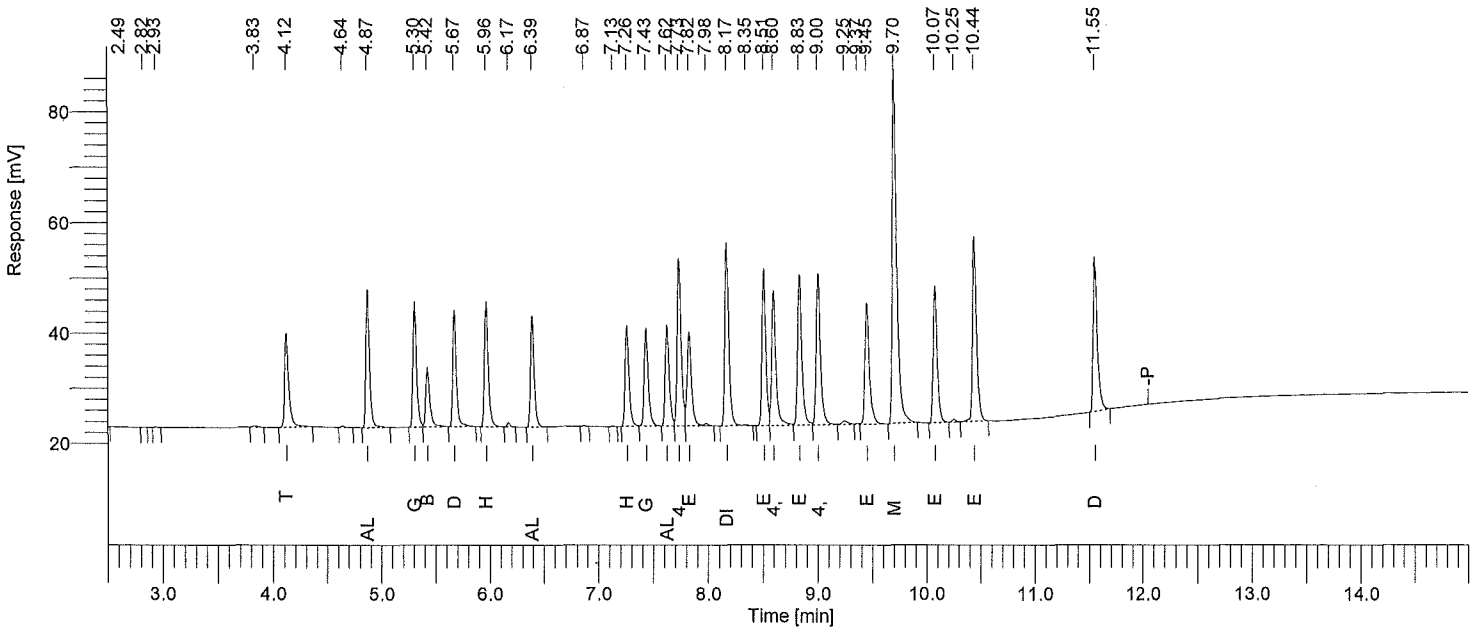

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.12	Tetrachloro-m-xylene	44577	0.0197230	0.0197230	0.0200000	98.6
4.87	alpha-BHC	57807	0.0204726	0.0204726	0.0200000	102.4
5.30	gamma-BHC	52653	0.0202431	0.0202431	0.0200000	101.2
5.42	beta-BHC	28364	0.0206852	0.0206852	0.0200000	103.4
5.67	delta-BHC	48840	0.0201321	0.0201321	0.0200000	100.7
5.96	Heptachlor	55760	0.0201926	0.0201926	0.0200000	101.0
6.39	Aldrin	48147	0.0201498	0.0201498	0.0200000	100.7
7.26	Heptachlor epoxide	45277	0.0199654	0.0199654	0.0200000	99.8
7.43	gamma-Chlordane	45931	0.0193994	0.0193994	0.0200000	97.0
7.62	alpha-Chlordane	46882	0.0200577	0.0200577	0.0200000	100.3
7.73	4,4'-DDE	75671	0.0400516	0.0400516	0.0400000	100.1
7.82	Endosulfan I	46877	0.0204104	0.0204104	0.0200000	102.1
8.17	Dieldrin	83876	0.0406735	0.0406735	0.0400000	101.7
8.51	Endrin	68707	0.0394515	0.0394515	0.0400000	98.6
8.60	4,4'-DDD	66791	0.0408297	0.0408297	0.0400000	102.1
8.83	Endosulfan II	73997	0.0408573	0.0408573	0.0400000	102.1
9.00	4,4'-DDT	74555	0.0410727	0.0410727	0.0400000	102.7
9.45	Endrin aldehyde	63271	0.0406703	0.0406703	0.0400000	101.7
9.70	Methoxychlor	183499	0.1957526	0.1957526	0.2000000	97.9
10.07	Endosulfan sulfate	64006	0.0399102	0.0399102	0.0400000	99.8
10.44	Endrin ketone	85821	0.0400580	0.0400580	0.0400000	100.1
11.55	Decachlorobiphenyl	73173	0.0398219	0.0398219	0.0400000	99.6

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:16:47
Operator	: sagers	Sample Name	: INDC451
Sample Number	: 014	Study	: 26385
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 18:24:41	Dilution Factor	: 1.00
		Cycle	: 13

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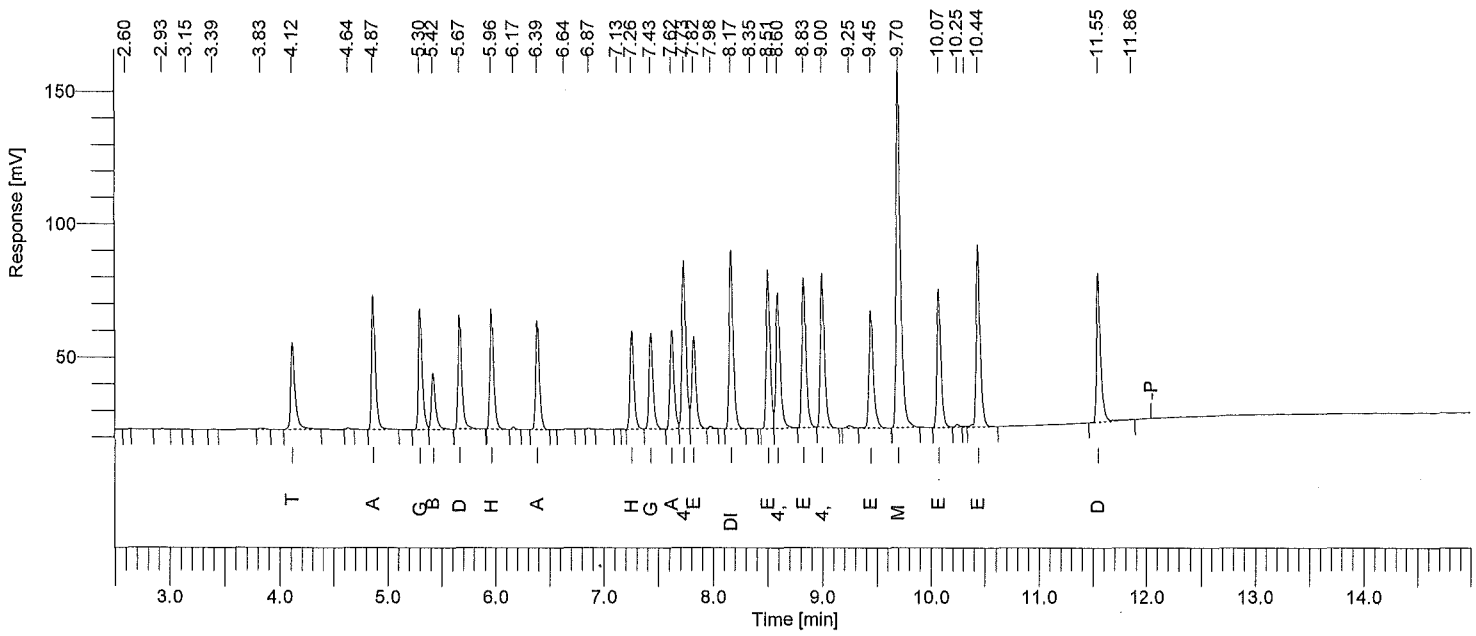
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150608\21_RPT_2UL\21_som_std_a.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608_SOM012_PEST_F9L58_F9L53_A.seq



Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	89899	0.0397756
4.87	alpha-BHC	121696	0.0430990
5.30	gamma-BHC	109290	0.0420177
5.42	beta-BHC	56015	0.0408510
5.67	delta-BHC	104939	0.0432559
5.96	Heptachlor	111539	0.0403919
6.39	Aldrin	99349	0.0415784
7.26	Heptachlor epoxide	91534	0.0403629
7.43	gamma-Chlordane	92888	0.0392324
7.62	alpha-Chlordane	94029	0.0402282
7.73	4,4'-DDE	161034	0.0852337
7.82	Endosulfan I	93173	0.0405678
8.17	Dieldrin	170993	0.0829184
8.51	Endrin	146114	0.0838983
8.60	4,4'-DDD	139187	0.0850858
8.83	Endosulfan II	146206	0.0807271
9.00	4,4'-DDT	150538	0.0829313
9.45	Endrin aldehyde	125212	0.0804866
9.70	Methoxychlor	371738	0.3965628
10.07	Endosulfan sulfate	132567	0.0826604
10.44	Endrin ketone	173491	0.0809791
11.55	Decachlorobiphenyl	141536	0.0770264

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:16:49
Operator	: sagers	Sample Name	: INDC551
Sample Number	: 015	Study	: 26386
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 18:45:19	Dilution Factor	: 1.00
		Cycle	: 14

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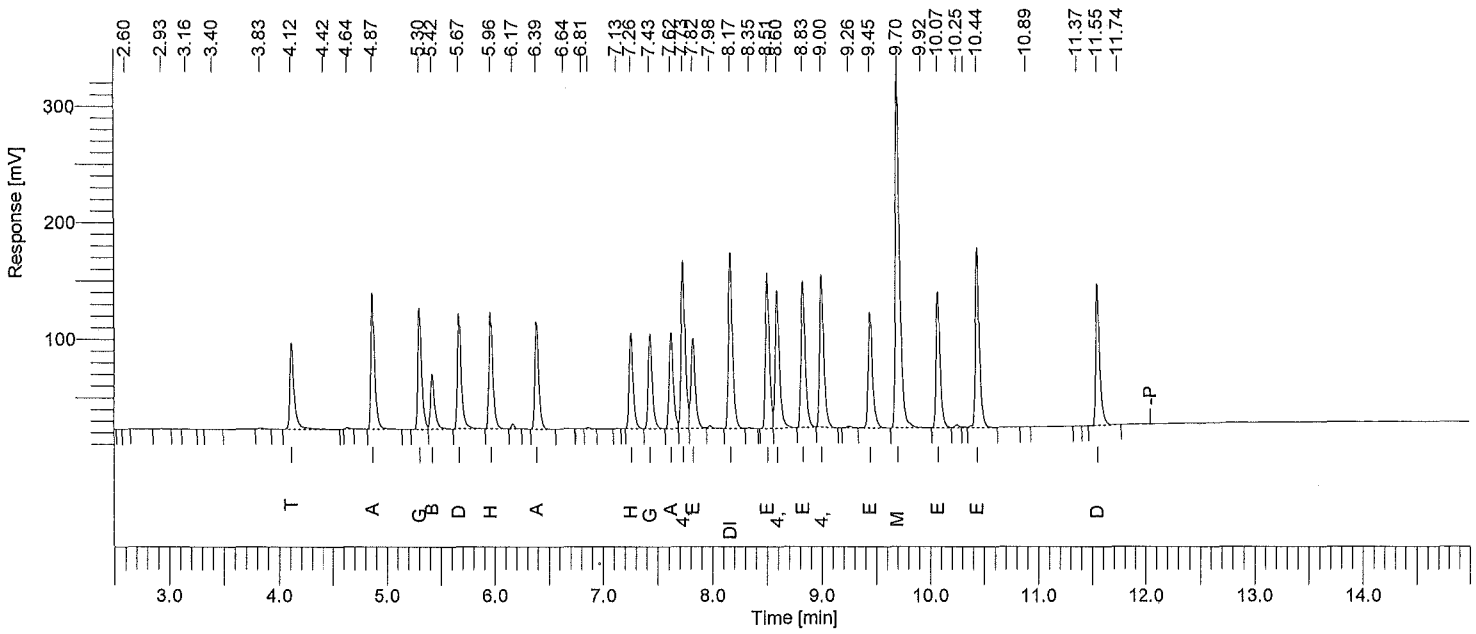

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	202816	0.0897354
4.87	alpha-BHC	286375	0.1014205
5.30	gamma-BHC	254187	0.0977252
5.42	beta-BHC	126161	0.0920077
5.67	delta-BHC	248000	0.1022259
5.96	Heptachlor	253092	0.0916529
6.39	Aldrin	231372	0.0968306
7.26	Heptachlor epoxide	208198	0.0918078
7.43	gamma-Chlordane	212371	0.0896976
7.62	alpha-Chlordane	213310	0.0912604
7.73	4,4'-DDE	371985	0.1968877
7.82	Endosulfan I	215600	0.0938732
8.17	Dieldrin	390949	0.1895801
8.51	Endrin	331860	0.1905525
8.60	4,4'-DDD	324728	0.1985079
8.83	Endosulfan II	332921	0.1838213
9.00	4,4'-DDT	346062	0.1906459
9.45	Endrin aldehyde	279894	0.1799160
9.70	Methoxychlor	842290	0.8985382
10.07	Endosulfan sulfate	300861	0.1875975
10.44	Endrin ketone	389097	0.1816162
11.55	Decachlorobiphenyl	302554	0.1646552

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:16:53
Operator	: sagers	Sample Name	: PEM61
Sample Number	: 017	Study	: 26388
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/08/2015 19:26:13	Cycle	: 16

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Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_017.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150608\21_RPT_2UL\21_som_pem_a.rpt
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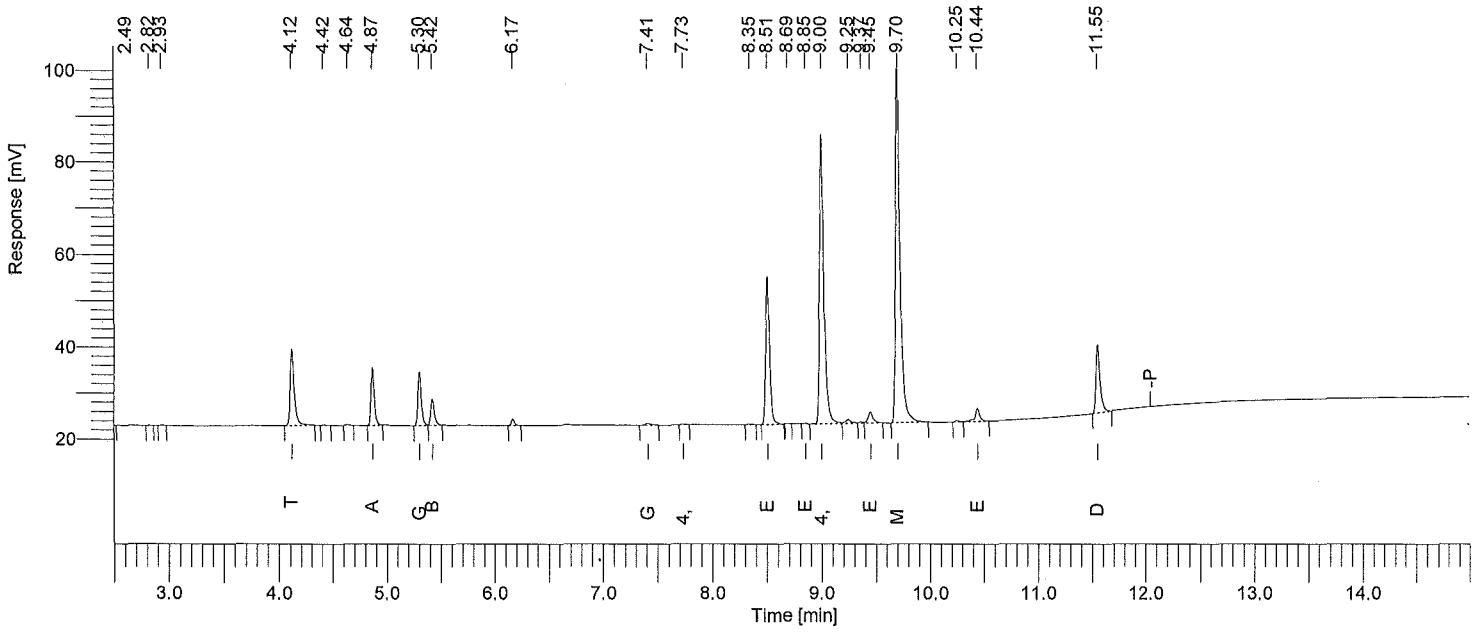

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.12	Tetrachloro-m-xylene	43091	0.0190655	0.0190655	0.02000	95.3
4.87	alpha-BHC	26451	0.0093678	0.0093678	0.01000	93.7
5.30	gamma-BHC	25421	0.0097735	0.0097735	0.01000	97.7
5.42	beta-BHC	13344	0.0097319	0.0097319	0.01000	97.3
5.67	delta-BHC	0	0.0000000	0.0000000	----------	------
5.96	Heptachlor	0	0.0000000	0.0000000	----------	------
6.39	Aldrin	0	0.0000000	0.0000000	----------	------
7.26	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
7.41	gamma-Chlordane	1496	0.0006317	0.0006317	0.00000	------
7.62	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
7.73	4,4'-DDE	421	0.0002229	0.0002229	0.10000	0.2
7.82	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.17	Dieldrin	0	0.0000000	0.0000000	----------	------
8.51	Endrin	80120	0.0460048	0.0460048	0.05000	92.0
8.60	4,4'-DDD	0	0.0000000	0.0000000	----------	------
8.85	Endosulfan II	341	0.0001882	0.0001882	0.00000	------
9.00	4,4'-DDT	174537	0.0961527	0.0961527	0.10000	96.2
9.45	Endrin aldehyde	8075	0.0051903	0.0051903	0.05000	10.4
9.70	Methoxychlor	223560	0.2384893	0.2384893	0.25000	95.4
10.07	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.44	Endrin ketone	8352	0.0038985	0.0038985	0.05000	7.8
11.55	Decachlorobiphenyl	38515	0.0209606	0.0209606	0.02000	104.8
			0.4596777			790.8

06/09/2015 11:16:53 Result: \\AIsItws012\TCCS\sagers\GCE21\21150608\21150608A_017.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
7.73	4,4'-DDE	421	0.0002229	0.0002229	0.10000	0.2
8.60	4,4'-DDD	0	0.0000000	0.0000000	----------	------
			0.0002229			0.2

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
9.45	Endrin aldehyde	8075	0.0051903	0.0051903	0.05000	10.4
10.44	Endrin ketone	8352	0.0038985	0.0038985	0.05000	7.8
			0.0090888			18.2

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 12:11:53
Reprocess Number	: nasltw7087: 2207191		
Operator	: sagers		
Sample Number	: 030	Sample Name	: INDC371
AutoSampler	: HP7673A	Study	: 26384
Instrument Name	: GCE21	Rack/Vial	: 0/30
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.40 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 23:51:59	Dilution Factor	: 1.00
		Cycle	: 2

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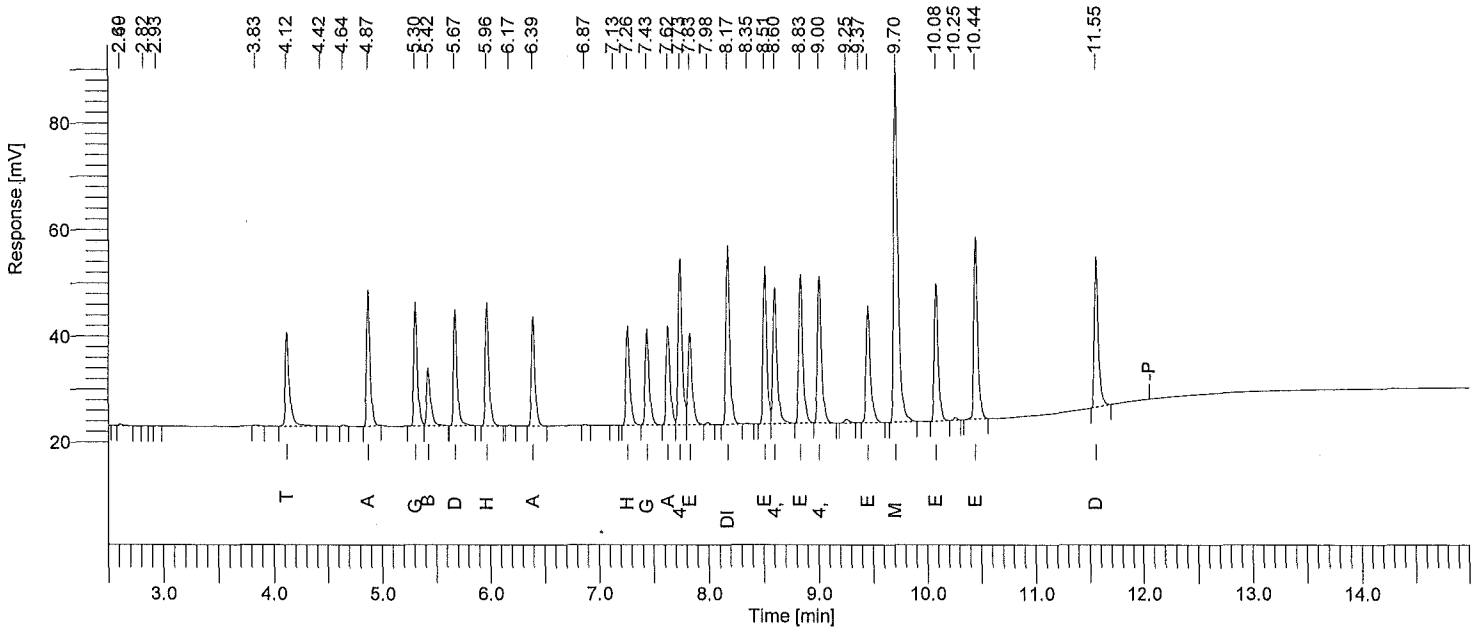

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.12	Tetrachloro-m-xylene	46033	0.0203670	0.0203670	0.0200000	101.8
4.87	alpha-BHC	57390	0.0203247	0.0203247	0.0200000	101.6
5.30	gamma-BHC	53458	0.0205524	0.0205524	0.0200000	102.8
5.42	beta-BHC	28140	0.0205222	0.0205222	0.0200000	102.6
5.67	delta-BHC	50274	0.0207228	0.0207228	0.0200000	103.6
5.96	Heptachlor	55480	0.0200910	0.0200910	0.0200000	100.5
6.39	Aldrin	48160	0.0201551	0.0201551	0.0200000	100.8
7.26	Heptachlor epoxide	45386	0.0200135	0.0200135	0.0200000	100.1
7.43	gamma-Chlordane	45935	0.0194014	0.0194014	0.0200000	97.0
7.62	alpha-Chlordane	47130	0.0201634	0.0201634	0.0200000	100.8
7.73	4,4'-DDE	78570	0.0415864	0.0415864	0.0400000	104.0
7.83	Endosulfan I	45794	0.0199391	0.0199391	0.0200000	99.7
8.17	Dieldrin	84164	0.0408132	0.0408132	0.0400000	102.0
8.51	Endrin	71438	0.0410193	0.0410193	0.0400000	102.5
8.60	4,4'-DDD	68362	0.0417902	0.0417902	0.0400000	104.5
8.83	Endosulfan II	72565	0.0400664	0.0400664	0.0400000	100.2
9.00	4,4'-DDT	72409	0.0398904	0.0398904	0.0400000	99.7
9.45	Endrin aldehyde	61071	0.0392565	0.0392565	0.0400000	98.1
9.70	Methoxychlor	186485	0.1989381	0.1989381	0.2000000	99.5
10.08	Endosulfan sulfate	64995	0.0405267	0.0405267	0.0400000	101.3
10.44	Endrin ketone	85909	0.0400992	0.0400992	0.0400000	100.2
11.55	Decachlorobiphenyl	71292	0.0387981	0.0387981	0.0400000	97.0

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:45
Operator	: sagers	Sample Name	: RESC12
Sample Number	: 004	Study	: 26384
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 18:44:41	Dilution Factor	: 1.00
		Cycle	: 4

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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150604\21_RPT_2UL\21_som_std_b.rpt
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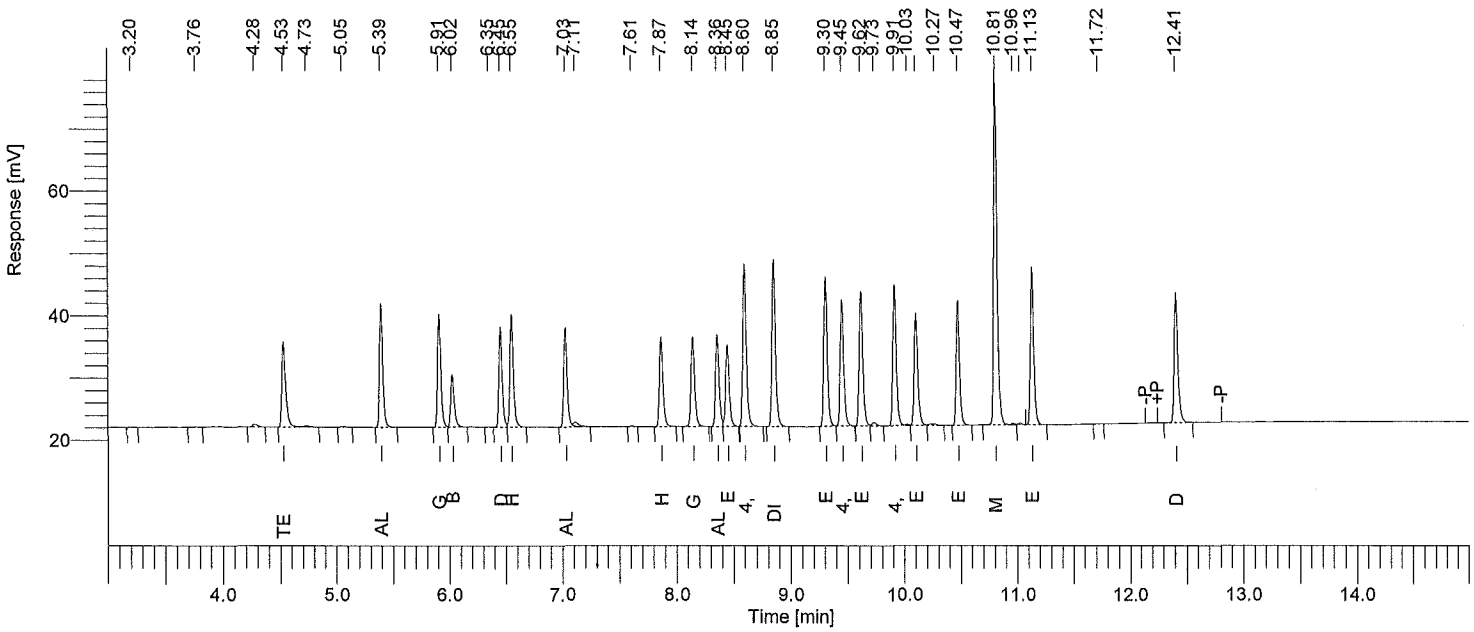

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.53	Tetrachloro-m-xylene	32705	0.0188756
5.39	alpha-BHC	40703	0.0192768
5.91	gamma-BHC	37414	0.0192239
6.02	beta-BHC	18731	0.0189259
6.45	delta-BHC	32406	0.0190451
6.55	Heptachlor	38515	0.0191443
7.03	Aldrin	33412	0.0194232
7.87	Heptachlor epoxide	31068	0.0193965
8.14	gamma-Chlordane	32186	0.0191005
8.36	alpha-Chlordane	32231	0.0192686
8.45	Endosulfan I	28945	0.0192580
8.60	4,4'-DDE	56017	0.0385324
8.85	Dieldrin	58554	0.0386702
9.30	Endrin	51965	0.0392460
9.45	4,4'-DDD	43663	0.0379349
9.62	Endosulfan II	48163	0.0379599
9.91	4,4'-DDT	48596	0.0378863
10.10	Endrin aldehyde	40045	0.0382055
10.47	Endosulfan sulfate	41495	0.0372734
10.81	Methoxychlor	117055	0.1849518
11.13	Endrin ketone	52087	0.0365773
12.41	Decachlorobiphenyl	45336	0.0367523

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:47
Operator	: sagers	Sample Name	: PEM12
Sample Number	: 005	Study	: 26388
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 19:05:23	Dilution Factor	: 1.00
		Cycle	: 5

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_005.raw <Modified>
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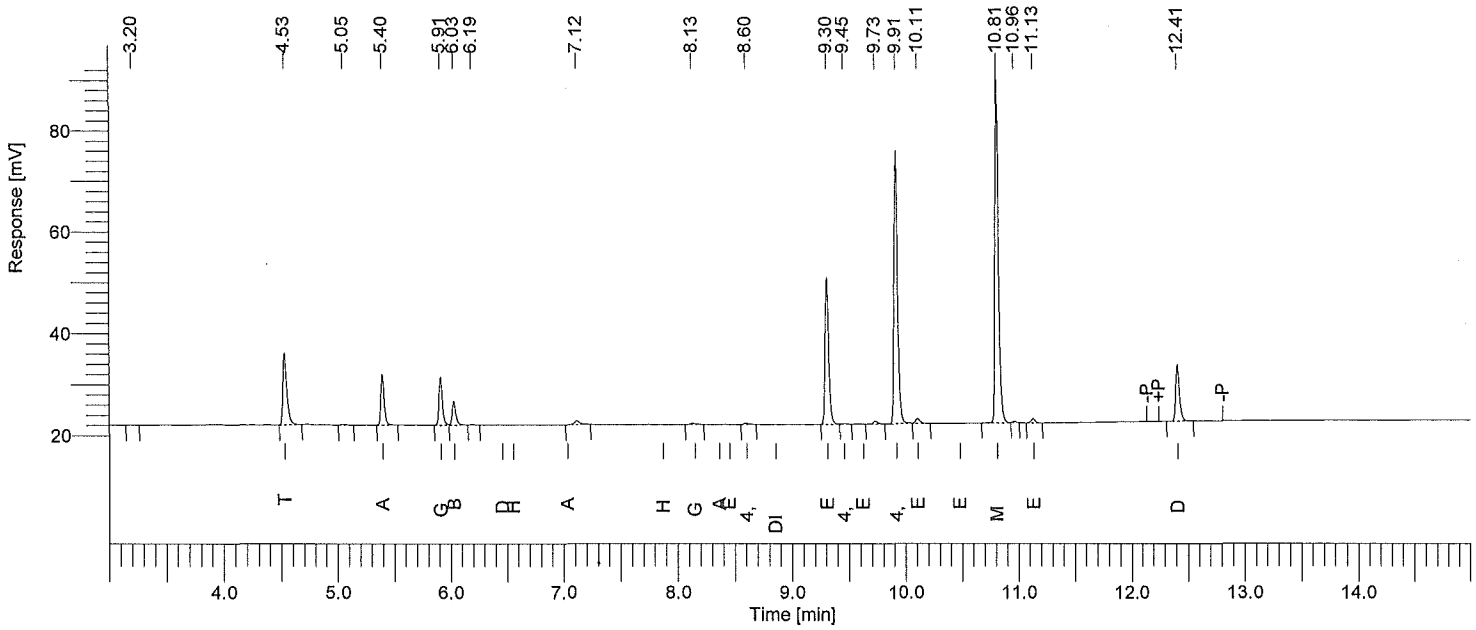

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.53	Tetrachloro-m-xylene	33508	0.0193391	0.0193391	0.02000	96.7
5.40	alpha-BHC	20168	0.0095514	0.0095514	0.01000	95.5
5.91	gamma-BHC	19169	0.0098492	0.0098492	0.01000	98.5
6.03	beta-BHC	10346	0.0104534	0.0104534	0.01000	104.5
6.46	delta-BHC	0	0.0000000	0.0000000	----------	------
6.55	Heptachlor	0	0.0000000	0.0000000	----------	------
7.03	Aldrin	0	0.0000000	0.0000000	----------	------
7.87	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.13	gamma-Chlordane	649	0.0003851	0.0003851	0.00000	------
8.36	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.45	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.60	4,4'-DDE	643	0.0004424	0.0004424	0.10000	0.4
8.86	Dieldrin	0	0.0000000	0.0000000	----------	------
9.30	Endrin	63318	0.0478202	0.0478202	0.05000	95.6
9.45	4,4'-DDD	361	0.0003134	0.0003134	0.10000	0.3
9.62	Endosulfan II	0	0.0000000	0.0000000	----------	------
9.91	4,4'-DDT	117995	0.0919912	0.0919912	0.10000	92.0
10.11	Endrin aldehyde	2692	0.0025680	0.0025680	0.05000	5.1
10.48	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.81	Methoxychlor	144183	0.2278151	0.2278151	0.25000	91.1
11.13	Endrin ketone	1965	0.0013798	0.0013798	0.05000	2.8
12.41	Decachlorobiphenyl	24342	0.0197336	0.0197336	0.02000	98.7
			0.4416418			781.3

06/05/2015 13:55:47 Result: \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_005.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
8.60	4,4'-DDE	643	0.0004424	0.0004424	0.10000	0.4
9.45	4,4'-DDD	361	0.0003134	0.0003134	0.10000	0.3
			0.0007558			0.8

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
10.11	Endrin aldehyde	2692	0.0025680	0.0025680	0.05000	5.1
11.13	Endrin ketone	1965	0.0013798	0.0013798	0.05000	2.8
			0.0039478			7.9

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:49
Operator	: sagers	Sample Name	: TOXAPH112
Sample Number	: 006	Study	: 26377
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 19:26:01	Dilution Factor	: 1.00
		Cycle	: 6

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Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som_tox_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_006.rst
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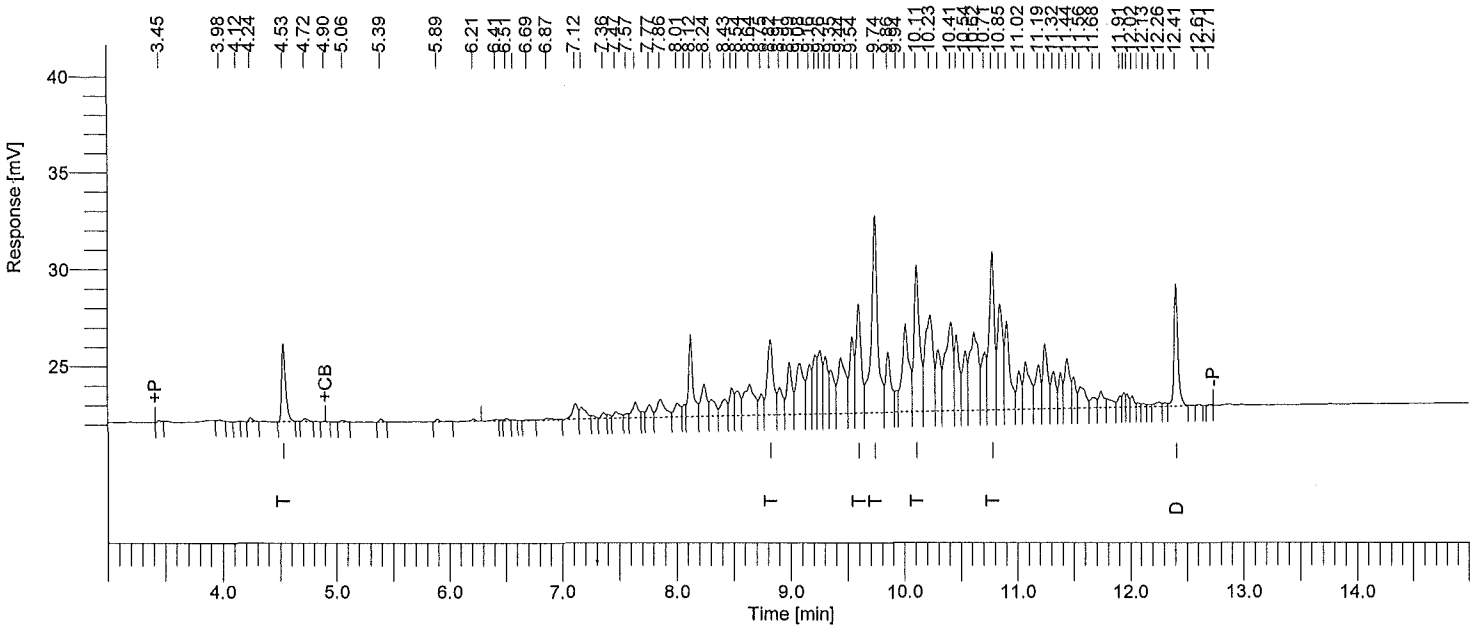

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.53	Tetrachloro-m-xylene	9501	0.0053624
8.82	Toxaphene-1	14457	0.4829965
9.60	Toxaphene-2	17445	0.4861689
9.74	Toxaphene-3	39986	0.4963889
10.11	Toxaphene-4	25453	0.4891544
10.78	Toxaphene-5	25428	0.4893246
12.41	Decachlorobiphenyl	14685	0.0107280

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:51
Operator	: sagers	Sample Name	: TOXAPH212
Sample Number	: 007	Study	: 26378
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 19:46:25	Dilution Factor	: 1.00
		Cycle	: 7

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Inst Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som_acq_pest from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_007.raw
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som_tox_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_007.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som_tox_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_007.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150604\21_RPT_2UL\21_som_std_b.rpt
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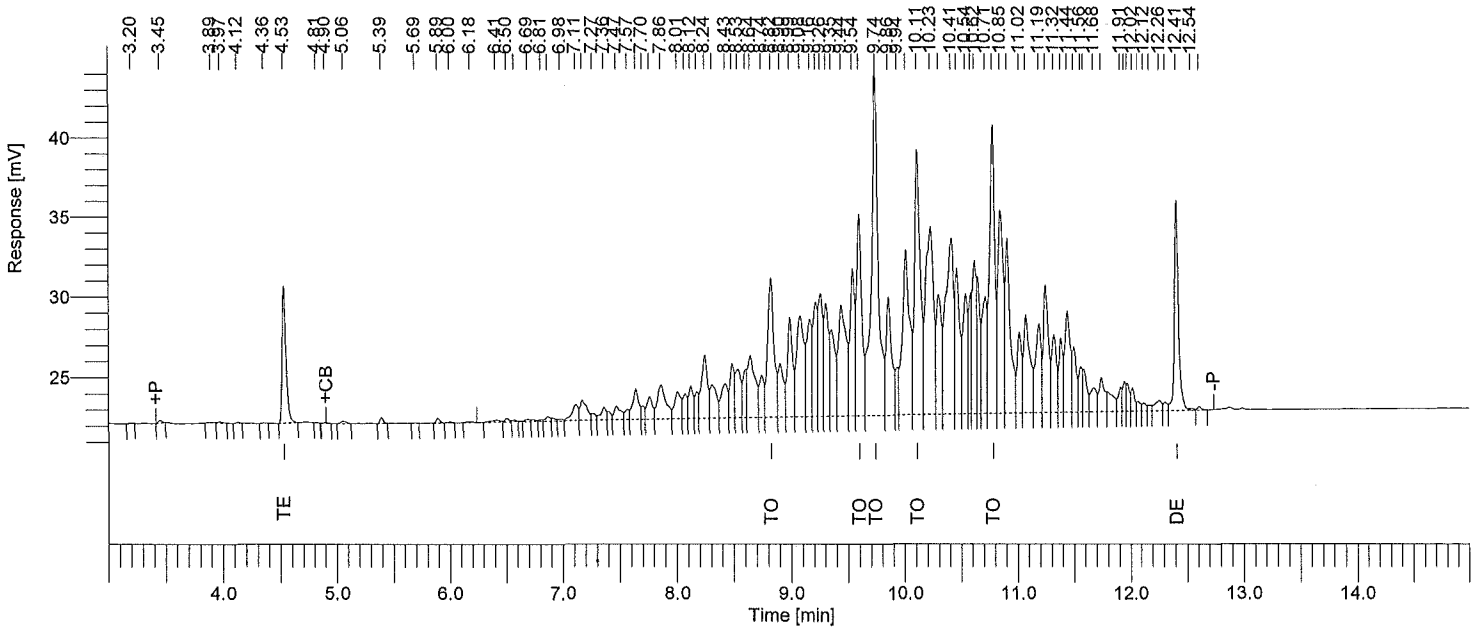

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.53	Tetrachloro-m-xylene	19714	0.0111266
8.82	Toxaphene-1	33622	1.1233113
9.60	Toxaphene-2	40353	1.1245735
9.74	Toxaphene-3	90172	1.1193914
10.11	Toxaphene-4	58077	1.1161268
10.78	Toxaphene-5	57707	1.1104884
12.41	Decachlorobiphenyl	31255	0.0228333

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:53
Operator	: sagers	Sample Name	: TOXAPH312
Sample Number	: 008	Study	: 26379
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 20:06:50	Dilution Factor	: 1.00
		Cycle	: 8

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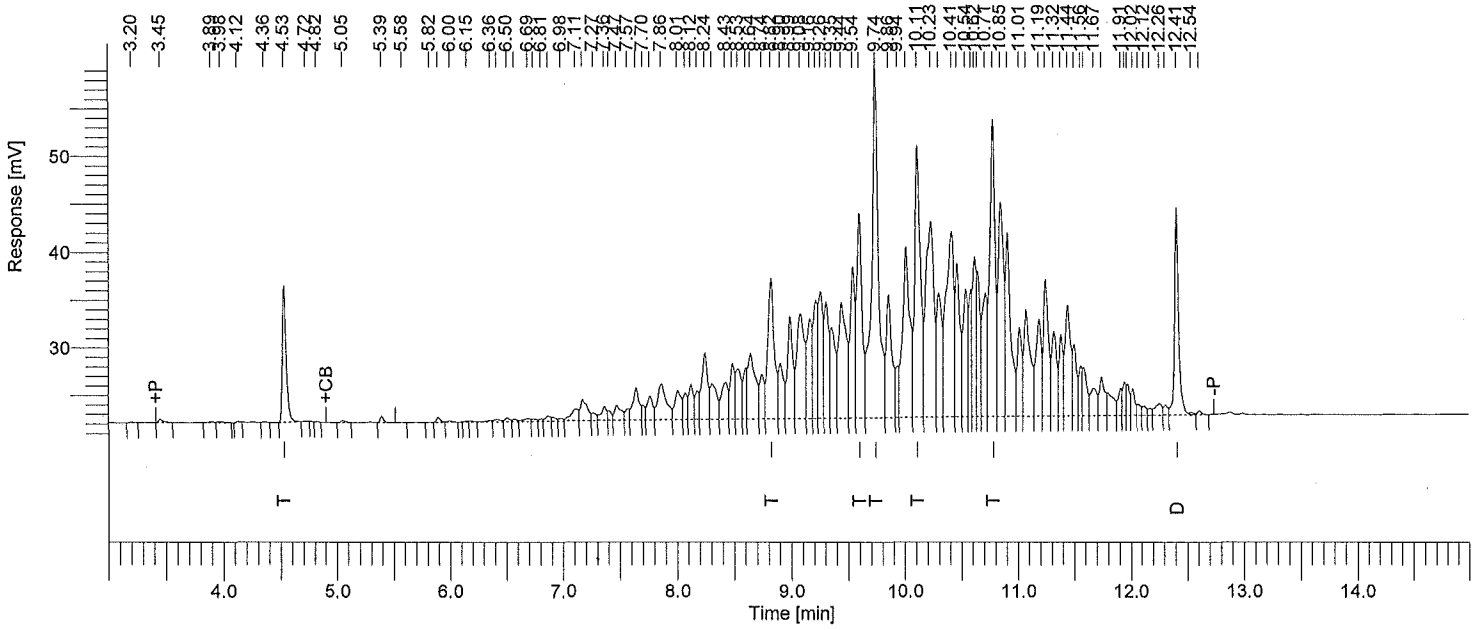
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som_tox_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_008.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som_tox_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_008.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150604\21_RPT_2UL\21_som12_ccv_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604_SOM012_PEST_F9K58_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.53	Tetrachloro-m-xylene	33454	0.0188815	0.0188815	0.0200000	94.4
8.82	Toxaphene-1	58100	1.9411264	1.9411264	2.0000000	97.1
9.60	Toxaphene-2	69953	1.9495004	1.9495004	2.0000000	97.5
9.74	Toxaphene-3	155499	1.9303584	1.9303584	2.0000000	96.5
10.11	Toxaphene-4	101275	1.9463204	1.9463204	2.0000000	97.3
10.78	Toxaphene-5	100872	1.9411464	1.9411464	2.0000000	97.1
12.41	Decachlorobiphenyl	51974	0.0379690	0.0379690	0.0400000	94.9

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:56
Operator	: sagers	Sample Name	: TOXAPH412
Sample Number	: 009	Study	: 26380
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 20:27:14	Dilution Factor	: 1.00
		Cycle	: 9

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_009.raw <Modified>
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som_tox_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_009.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som_tox_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_009.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150604\21_RPT_2UL\21_som_std_b.rpt
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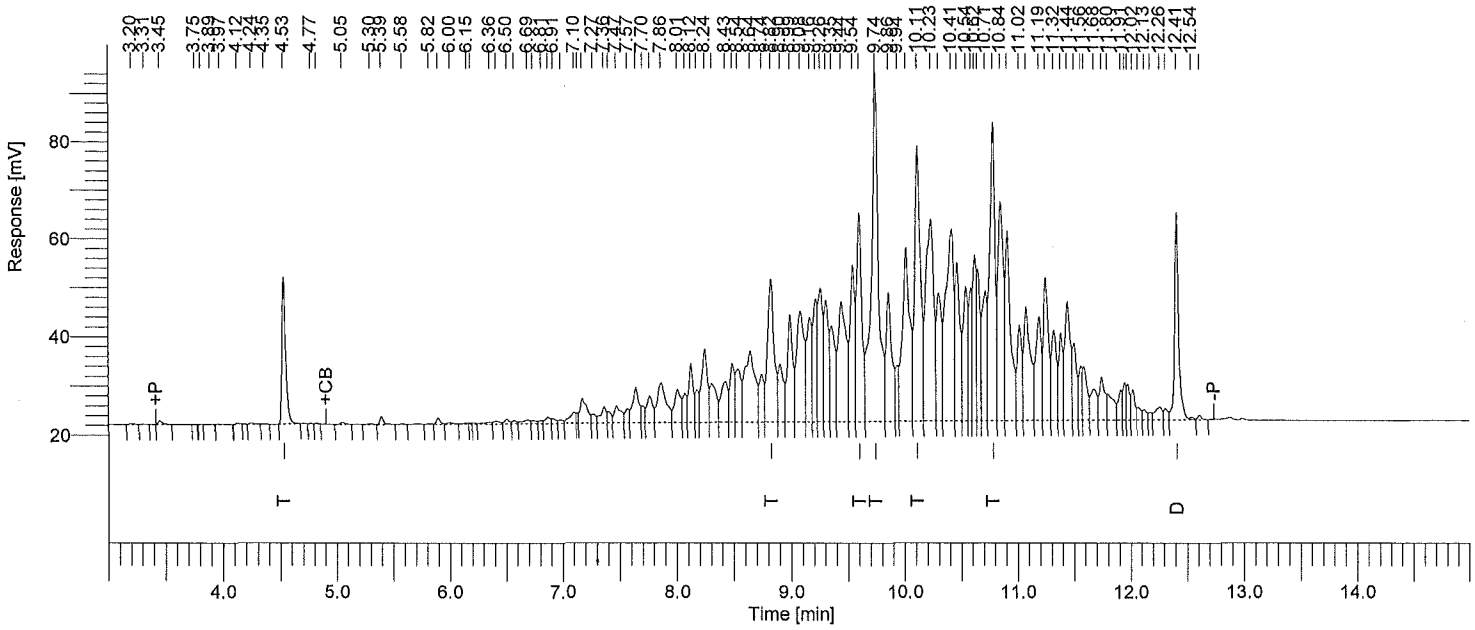

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.53	Tetrachloro-m-xylene	68479	0.0386498
8.82	Toxaphene-1	117428	3.9233009
9.60	Toxaphene-2	139332	3.8829874
9.74	Toxaphene-3	310204	3.8508605
10.11	Toxaphene-4	201082	3.8644116
10.78	Toxaphene-5	200515	3.8586376
12.41	Decachlorobiphenyl	101568	0.0741996

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:58
Operator	: sagers	Sample Name	: TOXAPH512
Sample Number	: 010	Study	: 26381
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 20:47:38	Dilution Factor	: 1.00
		Cycle	: 10

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som_tox_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_010.rst
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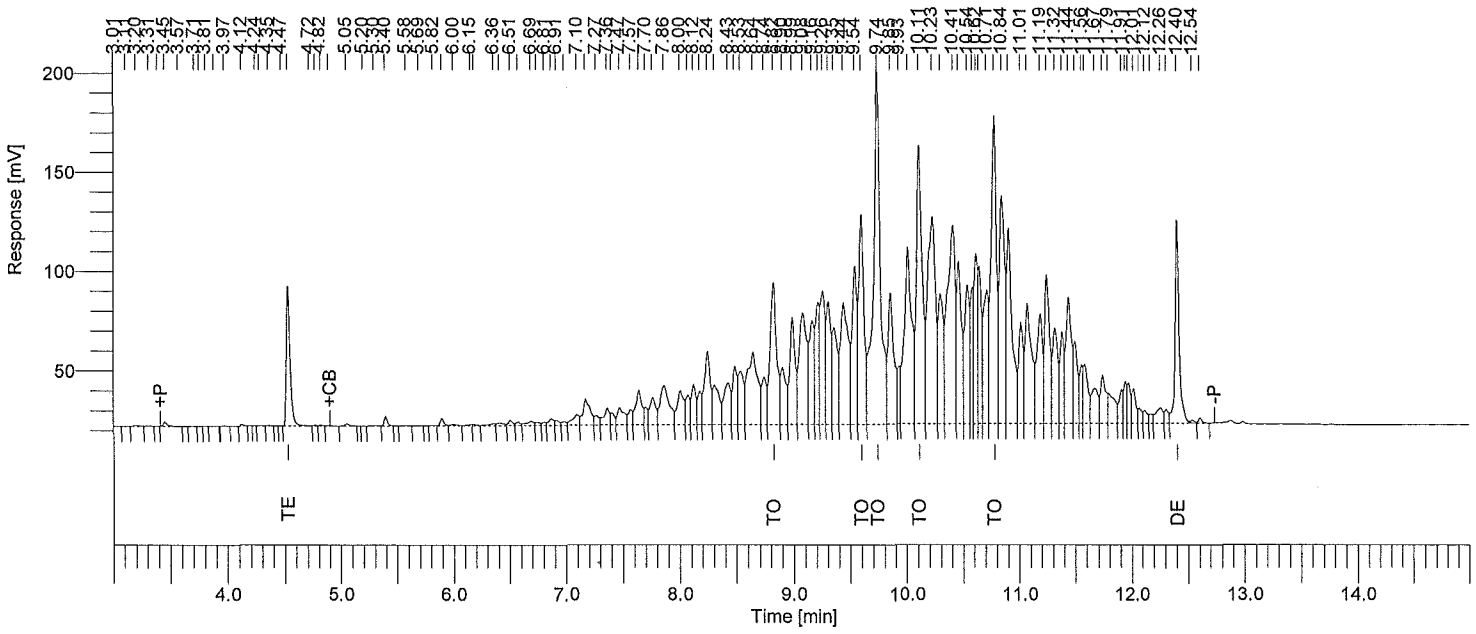
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150604\21_RPT_2UL\21_som_std_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604_SOM012_PEST_F9K58_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.53	Tetrachloro-m-xylene	160264	0.0904540
8.82	Toxaphene-1	287130	9.5930730
9.60	Toxaphene-2	343610	9.5759169
9.74	Toxaphene-3	773271	9.5993649
10.11	Toxaphene-4	502808	9.6630126
10.78	Toxaphene-5	506988	9.7562972
12.40	Decachlorobiphenyl	248805	0.1817627

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:01
Operator	: sagers	Sample Name	: INDC112
Sample Number	: 011	Study	: 26382
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 21:08:02	Dilution Factor	: 1.00
		Cycle	: 11

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_011.raw <Modified>
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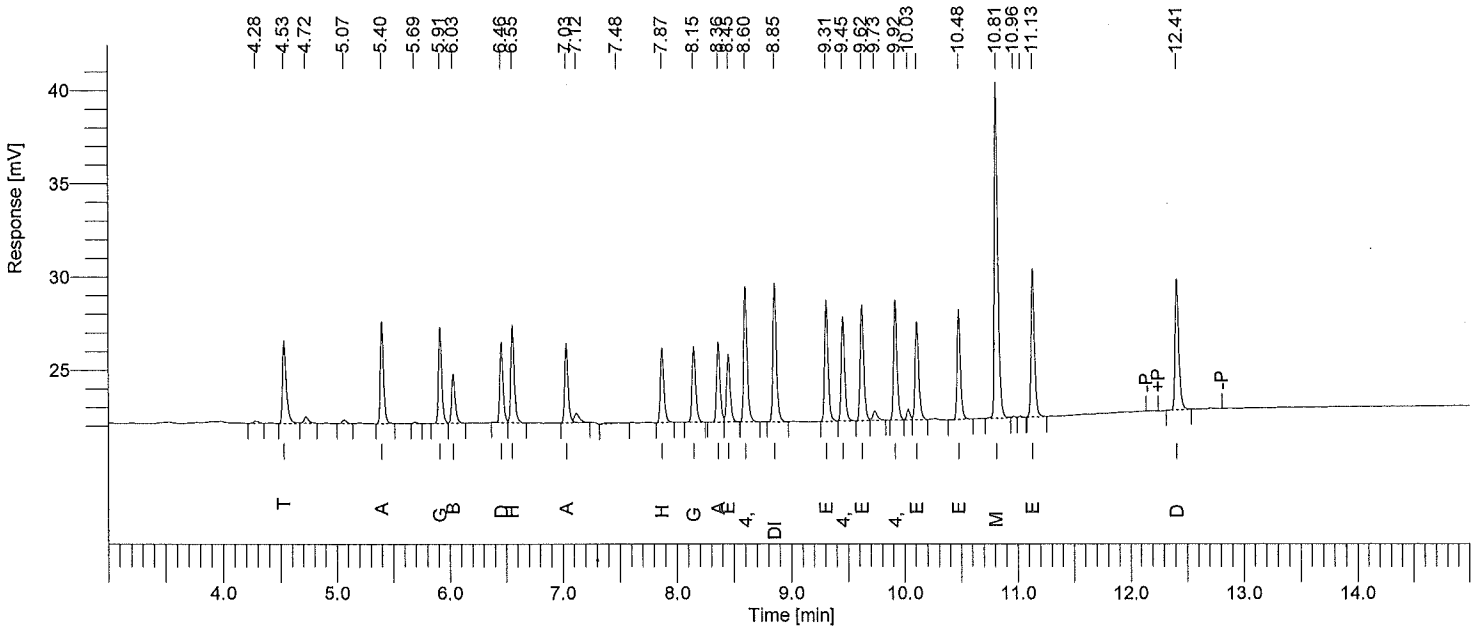
Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_011.rst
Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_011.rst
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150604\21_RPT_2UL\21_som_std_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604_SOM012_PEST_F9K58_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.53	Tetrachloro-m-xylene	10276	0.0059310
5.40	alpha-BHC	10671	0.0050535
5.91	gamma-BHC	10240	0.0052612
6.03	beta-BHC	5716	0.0057758
6.46	delta-BHC	8502	0.0049965
6.55	Heptachlor	10979	0.0054570
7.03	Aldrin	8833	0.0051348
7.87	Heptachlor epoxide	8462	0.0052831
8.15	gamma-Chlordane	8835	0.0052431
8.36	alpha-Chlordane	9170	0.0054822
8.45	Endosulfan I	7965	0.0052994
8.60	4,4'-DDE	15142	0.0104160
8.85	Dieldrin	15895	0.0104974
9.31	Endrin	13899	0.0104974
9.45	4,4'-DDD	11800	0.0102521
9.62	Endosulfan II	13663	0.0107688
9.92	4,4'-DDT	13449	0.0104848
10.11	Endrin aldehyde	11681	0.0111446
10.48	Endosulfan sulfate	12082	0.0108528
10.81	Methoxychlor	37079	0.0585857
11.13	Endrin ketone	16432	0.0115391
12.41	Decachlorobiphenyl	15251	0.0123634

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:03
Operator	: sagers	Sample Name	: INDC212
Sample Number	: 012	Study	: 26383
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 21:28:26	Dilution Factor	: 1.00
		Cycle	: 12

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_012.rst
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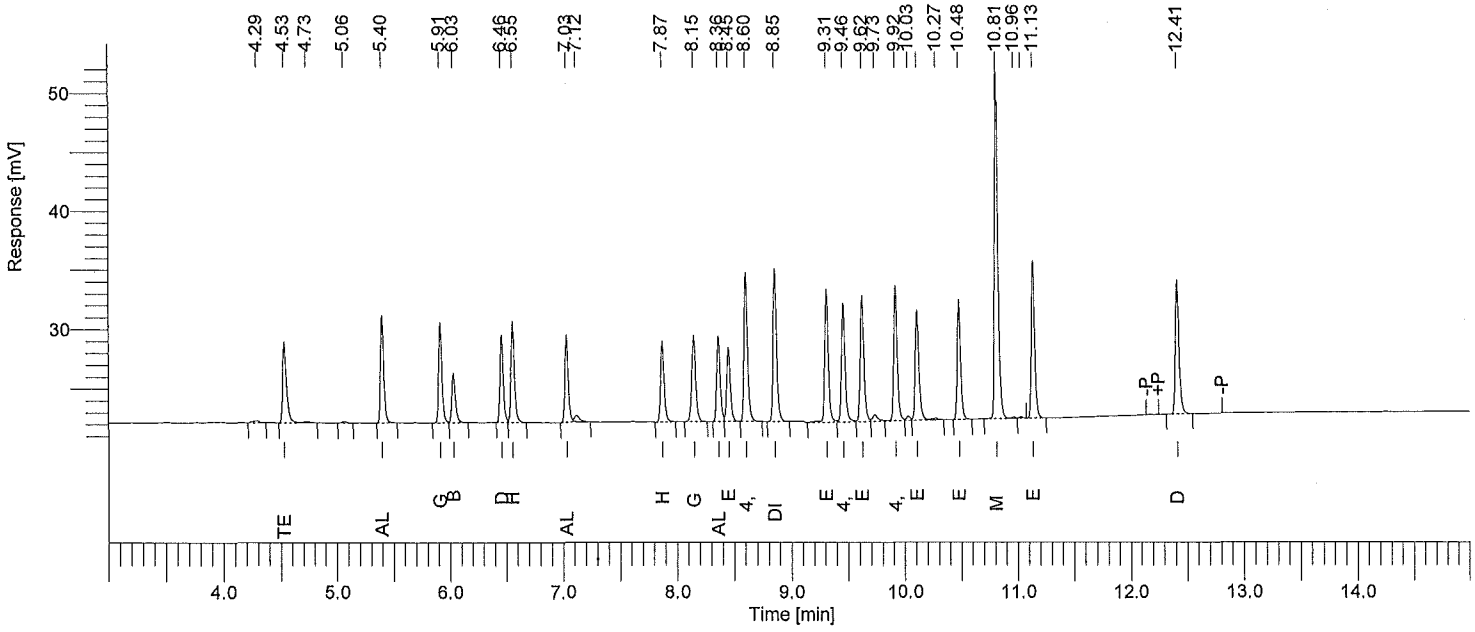
Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150604\21_RPT_2UL\21_som_std_b.rpt
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604_SOM012_PEST_F9K58_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.53	Tetrachloro-m-xylene	15977	0.0092209
5.40	alpha-BHC	17984	0.0085173
5.91	gamma-BHC	17003	0.0087365
6.03	beta-BHC	9188	0.0092838
6.46	delta-BHC	14447	0.0084907
6.55	Heptachlor	18007	0.0089506
7.03	Aldrin	15126	0.0087928
7.87	Heptachlor epoxide	14674	0.0091611
8.15	gamma-Chlordane	17375	0.0103109
8.36	alpha-Chlordane	15528	0.0092831
8.45	Endosulfan I	13694	0.0091109
8.60	4,4'-DDE	26650	0.0183320
8.85	Dieldrin	27640	0.0182541
9.31	Endrin	25031	0.0189047
9.46	4,4'-DDD	22135	0.0192311
9.62	Endosulfan II	23987	0.0189052
9.92	4,4'-DDT	24543	0.0191341
10.11	Endrin aldehyde	20840	0.0198832
10.48	Endosulfan sulfate	20933	0.0188029
10.81	Methoxychlor	61493	0.0971617
11.13	Endrin ketone	27171	0.0190808
12.41	Decachlorobiphenyl	24701	0.0200247

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:05
Operator	: sagers	Sample Name	: INDC312
Sample Number	: 013	Study	: 26384
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 21:48:50	Dilution Factor	: 1.00
		Cycle	: 13

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_013.raw <Modified>
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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_013.rst
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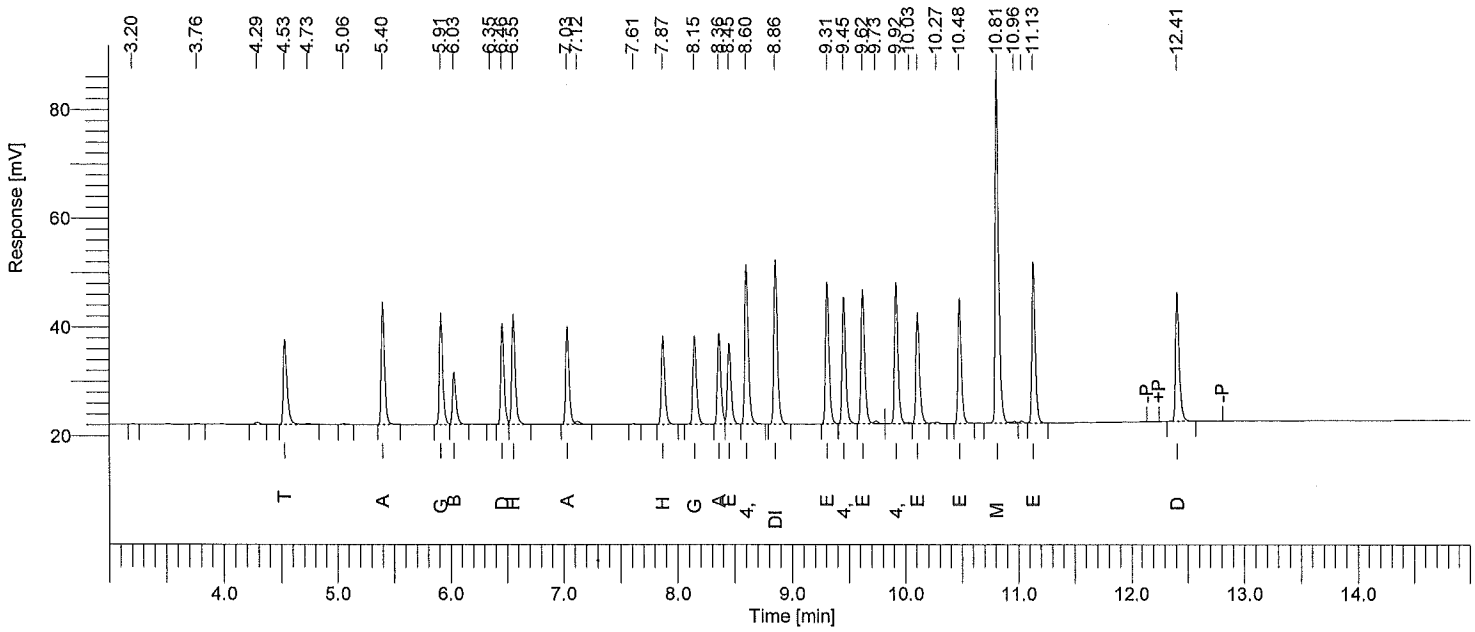

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.53	Tetrachloro-m-xylene	36056	0.0208098	0.0208098	0.0200000	104.0
5.40	alpha-BHC	45657	0.0216227	0.0216227	0.0200000	108.1
5.91	gamma-BHC	41953	0.0215560	0.0215560	0.0200000	107.8
6.03	beta-BHC	21129	0.0213484	0.0213484	0.0200000	106.7
6.46	delta-BHC	37394	0.0219765	0.0219765	0.0200000	109.9
6.55	Heptachlor	43292	0.0215188	0.0215188	0.0200000	107.6
7.03	Aldrin	37585	0.0218489	0.0218489	0.0200000	109.2
7.87	Heptachlor epoxide	34956	0.0218240	0.0218240	0.0200000	109.1
8.15	gamma-Chlordane	35501	0.0210683	0.0210683	0.0200000	105.3
8.36	alpha-Chlordane	36309	0.0217062	0.0217062	0.0200000	108.5
8.45	Endosulfan I	32735	0.0217798	0.0217798	0.0200000	108.9
8.60	4,4'-DDE	63772	0.0438666	0.0438666	0.0400000	109.7
8.86	Dieldrin	66184	0.0437094	0.0437094	0.0400000	109.3
9.31	Endrin	56831	0.0429216	0.0429216	0.0400000	107.3
9.45	4,4'-DDD	50125	0.0435491	0.0435491	0.0400000	108.9
9.62	Endosulfan II	54993	0.0433432	0.0433432	0.0400000	108.4
9.92	4,4'-DDT	55676	0.0434061	0.0434061	0.0400000	108.5
10.11	Endrin aldehyde	45319	0.0432372	0.0432372	0.0400000	108.1
10.48	Endosulfan sulfate	47952	0.0430736	0.0430736	0.0400000	107.7
10.81	Methoxychlor	132356	0.2091282	0.2091282	0.2000000	104.6
11.13	Endrin ketone	60228	0.0422947	0.0422947	0.0400000	105.7
12.41	Decachlorobiphenyl	51194	0.0415012	0.0415012	0.0400000	103.8

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:07
Operator	: sagers	Sample Name	: INDC412
Sample Number	: 014	Study	: 26385
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 22:09:24	Dilution Factor	: 1.00
		Cycle	: 14

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Proc Method : \\AlsItws012\TCCS\sagers\GCE21\21150604\21_som12_pest_b.mth from \\AlsItws012\TCCS\sagers\GCE21\21150604\21150604B_014.rst
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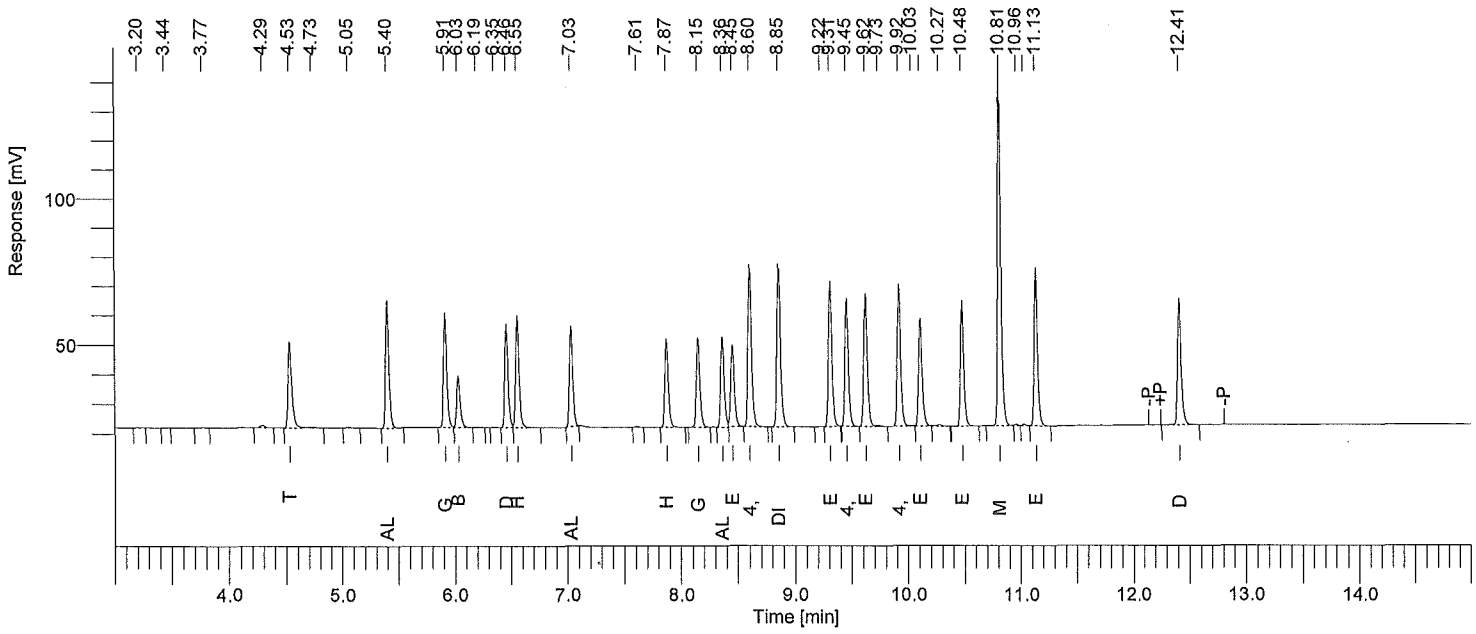

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.53	Tetrachloro-m-xylene	67343	0.0388668
5.40	alpha-BHC	88858	0.0420824
5.91	gamma-BHC	80070	0.0411406
6.03	beta-BHC	38425	0.0388240
6.46	delta-BHC	71661	0.0421152
6.55	Heptachlor	81185	0.0403535
7.03	Aldrin	69873	0.0406184
7.87	Heptachlor epoxide	64425	0.0402216
8.15	gamma-Chlordane	65154	0.0386653
8.36	alpha-Chlordane	66173	0.0395602
8.45	Endosulfan I	60667	0.0403640
8.60	4,4'-DDE	118117	0.0812486
8.85	Dieldrin	122734	0.0810561
9.31	Endrin	107540	0.0812189
9.45	4,4'-DDD	92209	0.0801114
9.62	Endosulfan II	100380	0.0791153
9.92	4,4'-DDT	102198	0.0796758
10.11	Endrin aldehyde	79961	0.0762883
10.48	Endosulfan sulfate	88557	0.0795466
10.81	Methoxychlor	241124	0.3809858
11.13	Endrin ketone	109483	0.0768833
12.41	Decachlorobiphenyl	92424	0.0749256

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:09
Operator	: sagers	Sample Name	: INDC512
Sample Number	: 015	Study	: 26386
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 22:29:46	Dilution Factor	: 1.00
		Cycle	: 15

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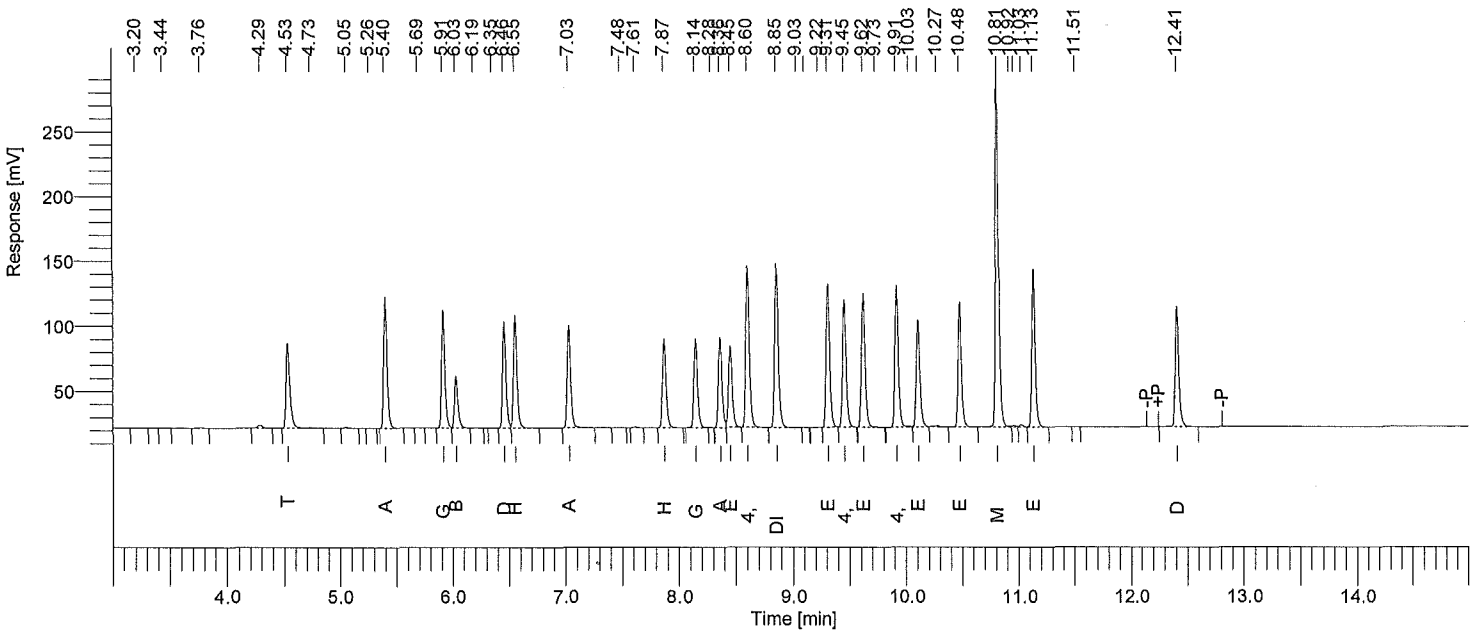
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604_SOM012_PEST_F9K58_A.seq



Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.53	Tetrachloro-m-xylene	152399	0.0879563
5.40	alpha-BHC	212075	0.1004369
5.91	gamma-BHC	188355	0.0967788
6.03	beta-BHC	86941	0.0878443
6.46	delta-BHC	170144	0.0999933
6.55	Heptachlor	186853	0.0928770
7.03	Aldrin	169588	0.0985849
7.87	Heptachlor epoxide	149045	0.0930518
8.14	gamma-Chlordane	151696	0.0900239
8.36	alpha-Chlordane	150702	0.0900938
8.45	Endosulfan I	139920	0.0930943
8.60	4,4'-DDE	270264	0.1859057
8.85	Dieldrin	282129	0.1863243
9.31	Endrin	242768	0.1833494
9.45	4,4'-DDD	212503	0.1846236
9.62	Endosulfan II	229735	0.1810670
9.91	4,4'-DDT	234399	0.1827422
10.10	Endrin aldehyde	179620	0.1713693
10.48	Endosulfan sulfate	201146	0.1806810
10.81	Methoxychlor	543379	0.8585629
11.13	Endrin ketone	248816	0.1747283
12.41	Decachlorobiphenyl	194485	0.1576641

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:14
Operator	: sagers	Sample Name	: PEM22
Sample Number	: 017	Study	: 26388
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 23:10:46	Dilution Factor	: 1.00
		Cycle	: 2

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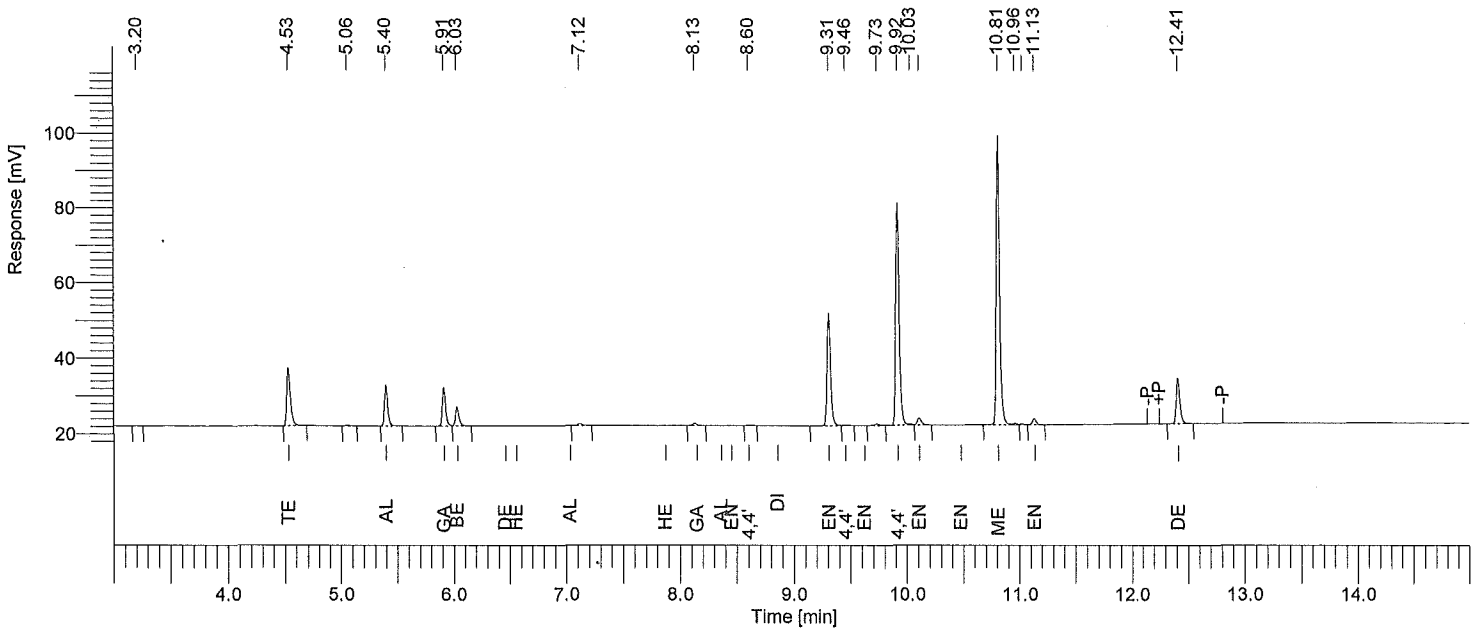

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.53	Tetrachloro-m-xylene	34758	0.0200603	0.0200603	0.02000	100.3
5.40	alpha-BHC	21501	0.0101827	0.0101827	0.01000	101.8
5.91	gamma-BHC	20508	0.0105370	0.0105370	0.01000	105.4
6.03	beta-BHC	10936	0.0110499	0.0110499	0.01000	110.5
6.46	delta-BHC	0	0.0000000	0.0000000	----------	------
6.55	Heptachlor	0	0.0000000	0.0000000	----------	------
7.03	Aldrin	0	0.0000000	0.0000000	----------	------
7.87	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.13	gamma-Chlordane	1417	0.0008411	0.0008411	0.00000	------
8.36	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.45	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.60	4,4'-DDE	483	0.0003323	0.0003323	0.10000	0.3
8.86	Dieldrin	0	0.0000000	0.0000000	----------	------
9.31	Endrin	65957	0.0498133	0.0498133	0.05000	99.6
9.46	4,4'-DDD	625	0.0005434	0.0005434	0.10000	0.5
9.62	Endosulfan II	0	0.0000000	0.0000000	----------	------
9.92	4,4'-DDT	129595	0.1010347	0.1010347	0.10000	101.0
10.11	Endrin aldehyde	4631	0.0044179	0.0044179	0.05000	8.8
10.48	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.81	Methoxychlor	157672	0.2491286	0.2491286	0.25000	99.7
11.13	Endrin ketone	3651	0.0025637	0.0025637	0.05000	5.1
12.41	Decachlorobiphenyl	26380	0.0213854	0.0213854	0.02000	106.9
			0.4818903			840.1

06/05/2015 13:56:14 Result: \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_017.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
8.60	4,4'-DDE	483	0.0003323	0.0003323	0.10000	0.3
9.46	4,4'-DDD	625	0.0005434	0.0005434	0.10000	0.5
			0.0008758			0.9

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
10.11	Endrin aldehyde	4631	0.0044179	0.0044179	0.05000	8.8
11.13	Endrin ketone	3651	0.0025637	0.0025637	0.05000	5.1
			0.0069816			14.0

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:49
Operator	: sagers	Sample Name	: INDC332
Sample Number	: 033	Study	: 26384
AutoSampler	: HP7673A	Rack/Vial	: 0/33
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 04:37:06	Dilution Factor	: 1.00
		Cycle	: 33

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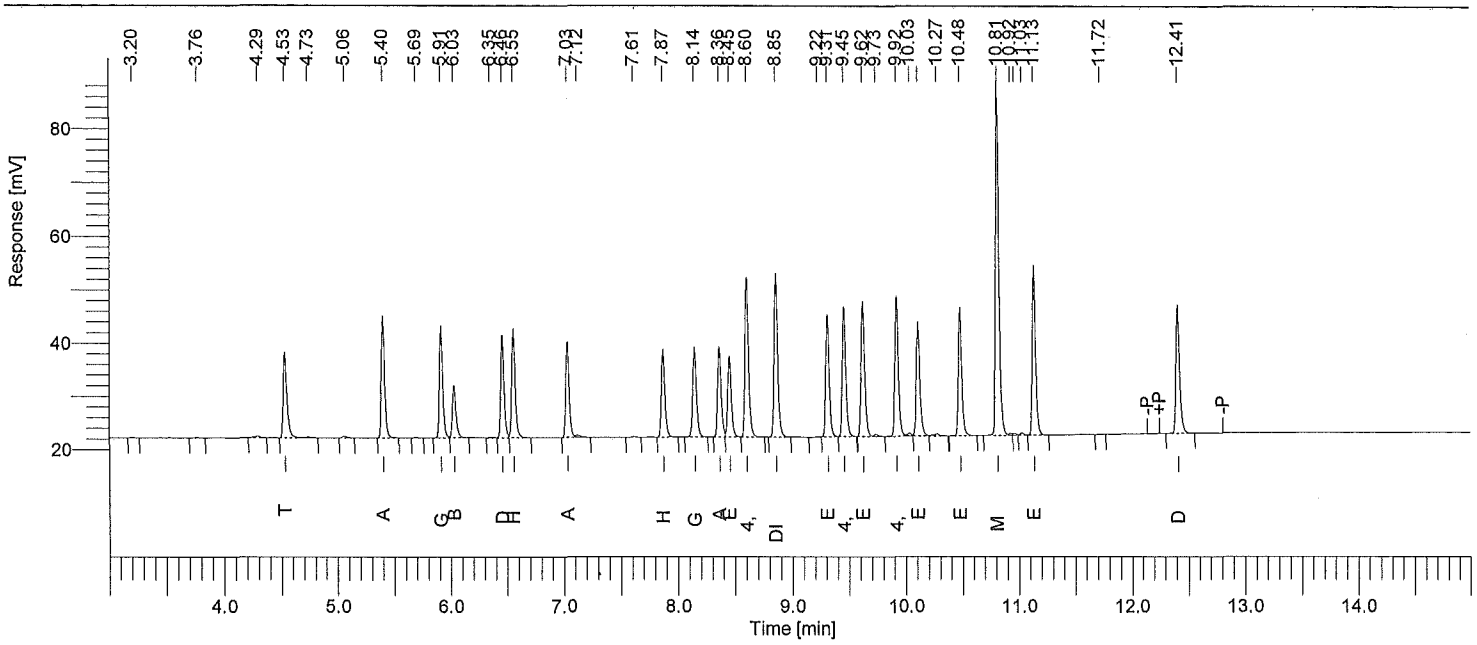

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.53	Tetrachloro-m-xylene	36558	0.0210990	0.0210990	0.0200000	105.5
5.40	alpha-BHC	46383	0.0219668	0.0219668	0.0200000	109.8
5.91	gamma-BHC	42690	0.0219345	0.0219345	0.0200000	109.7
6.03	beta-BHC	21586	0.0218106	0.0218106	0.0200000	109.1
6.46	delta-BHC	38920	0.0228730	0.0228730	0.0200000	114.4
6.55	Heptachlor	43158	0.0214521	0.0214521	0.0200000	107.3
7.03	Aldrin	37653	0.0218885	0.0218885	0.0200000	109.4
7.87	Heptachlor epoxide	35248	0.0220062	0.0220062	0.0200000	110.0
8.14	gamma-Chlordane	38100	0.0226106	0.0226106	0.0200000	113.1
8.36	alpha-Chlordane	36610	0.0218865	0.0218865	0.0200000	109.4
8.45	Endosulfan I	33082	0.0220108	0.0220108	0.0200000	110.1
8.60	4,4'-DDE	64974	0.0446935	0.0446935	0.0400000	111.7
8.85	Dieldrin	67093	0.0443094	0.0443094	0.0400000	110.8
9.31	Endrin	49200	0.0371577	0.0371577	0.0400000	92.9
9.45	4,4'-DDD	52251	0.0453963	0.0453963	0.0400000	113.5
9.62	Endosulfan II	56764	0.0447386	0.0447386	0.0400000	111.8
9.92	4,4'-DDT	56504	0.0440516	0.0440516	0.0400000	110.1
10.11	Endrin aldehyde	47760	0.0455659	0.0455659	0.0400000	113.9
10.48	Endosulfan sulfate	50314	0.0451951	0.0451951	0.0400000	113.0
10.81	Methoxychlor	133253	0.2105462	0.2105462	0.2000000	105.3
11.13	Endrin ketone	64896	0.0455727	0.0455727	0.0400000	113.9
12.41	Decachlorobiphenyl	51829	0.0420163	0.0420163	0.0400000	105.0

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:18
Operator	: sagers	Sample Name	: RESC52
Sample Number	: 004	Study	: 26384
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 15:20:32	Dilution Factor	: 1.00
		Cycle	: 4

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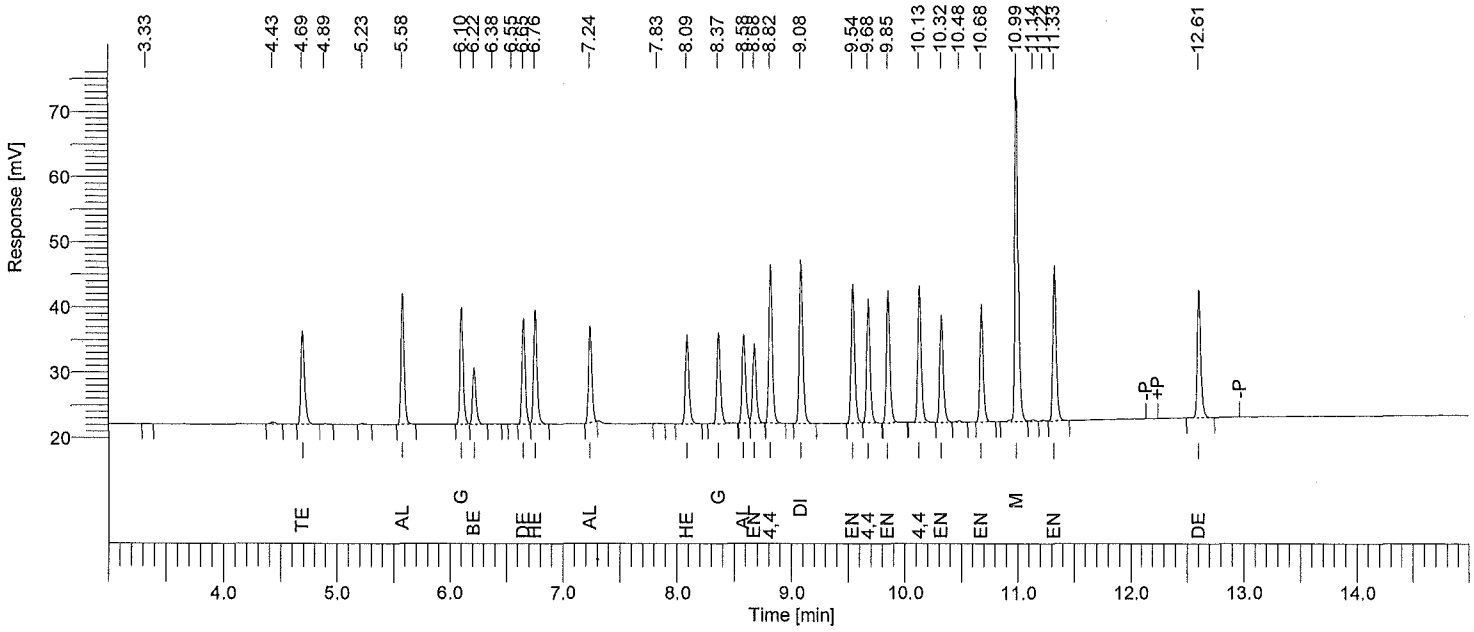

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.69	Tetrachloro-m-xylene	31988	0.0214181
5.58	alpha-BHC	39603	0.0223046
6.10	gamma-BHC	35833	0.0221322
6.22	beta-BHC	18543	0.0217158
6.65	delta-BHC	31789	0.0224938
6.76	Heptachlor	36487	0.0218623
7.24	Aldrin	29807	0.0206802
8.09	Heptachlor epoxide	29356	0.0218191
8.37	gamma-Chlordane	30543	0.0220053
8.58	alpha-Chlordane	29559	0.0214444
8.68	Endosulfan I	26607	0.0214632
8.82	4,4'-DDE	50936	0.0429453
9.08	Dieldrin	54356	0.0433006
9.54	Endrin	46658	0.0461322
9.68	4,4'-DDD	39953	0.0424431
9.85	Endosulfan II	44916	0.0426134
10.13	4,4'-DDT	43747	0.0423079
10.32	Endrin aldehyde	35852	0.0421145
10.68	Endosulfan sulfate	36951	0.0414213
10.99	Methoxychlor	109035	0.2053776
11.33	Endrin ketone	48835	0.0404533
12.61	Decachlorobiphenyl	43647	0.0410635

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:20
Operator	: sagers	Sample Name	: PEM52
Sample Number	: 005	Study	: 26388
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/08/2015 15:40:58	Cycle	: 5

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_005.rst
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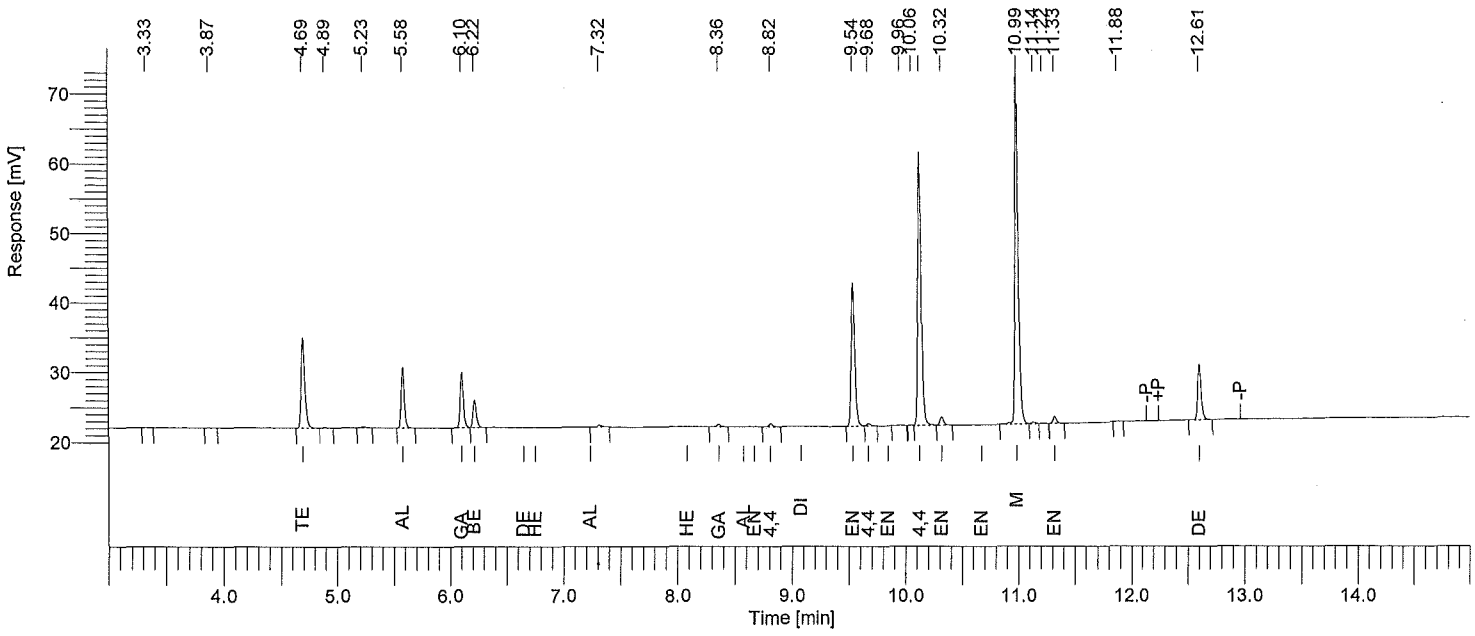

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.69	Tetrachloro-m-xylene	29004	0.0194200	0.0194200	0.02000	97.1
5.58	alpha-BHC	16717	0.0094152	0.0094152	0.01000	94.2
6.10	gamma-BHC	15530	0.0095923	0.0095923	0.01000	95.9
6.22	beta-BHC	8480	0.0099313	0.0099313	0.01000	99.3
6.65	delta-BHC	0	0.0000000	0.0000000	----------	------
6.75	Heptachlor	0	0.0000000	0.0000000	----------	------
7.24	Aldrin	0	0.0000000	0.0000000	----------	------
8.08	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.36	gamma-Chlordane	851	0.0006129	0.0006129	0.00000	------
8.58	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.67	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.82	4,4'-DDE	1032	0.0008703	0.0008703	0.10000	0.9
9.08	Dieldrin	0	0.0000000	0.0000000	----------	------
9.54	Endrin	45260	0.0447502	0.0447502	0.05000	89.5
9.68	4,4'-DDD	866	0.0009203	0.0009203	0.10000	0.9
9.85	Endosulfan II	0	0.0000000	0.0000000	----------	------
10.13	4,4'-DDT	82526	0.0798112	0.0798112	0.10000	79.8
10.32	Endrin aldehyde	2858	0.0033577	0.0033577	0.05000	6.7
10.68	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.99	Methoxychlor	103102	0.1942033	0.1942033	0.25000	77.7
11.33	Endrin ketone	2099	0.0017383	0.0017383	0.05000	3.5
12.61	Decachlorobiphenyl	17739	0.0166896	0.0166896	0.02000	83.4
			0.3913126			728.9

06/09/2015 11:18:20 Result: \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_005.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
8.82	4,4'-DDE	1032	0.0008703	0.0008703	0.10000	0.9
9.68	4,4'-DDD	866	0.0009203	0.0009203	0.10000	0.9
			0.0017907			1.8

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
10.32	Endrin aldehyde	2858	0.0033577	0.0033577	0.05000	6.7
11.33	Endrin ketone	2099	0.0017383	0.0017383	0.05000	3.5
			0.0050961			10.2

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:22
Operator	: sagers	Sample Name	: TOXAPH152
Sample Number	: 006	Study	: 26377
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 16:01:20	Dilution Factor	: 1.00
		Cycle	: 6

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Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som_tox_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_006.rst
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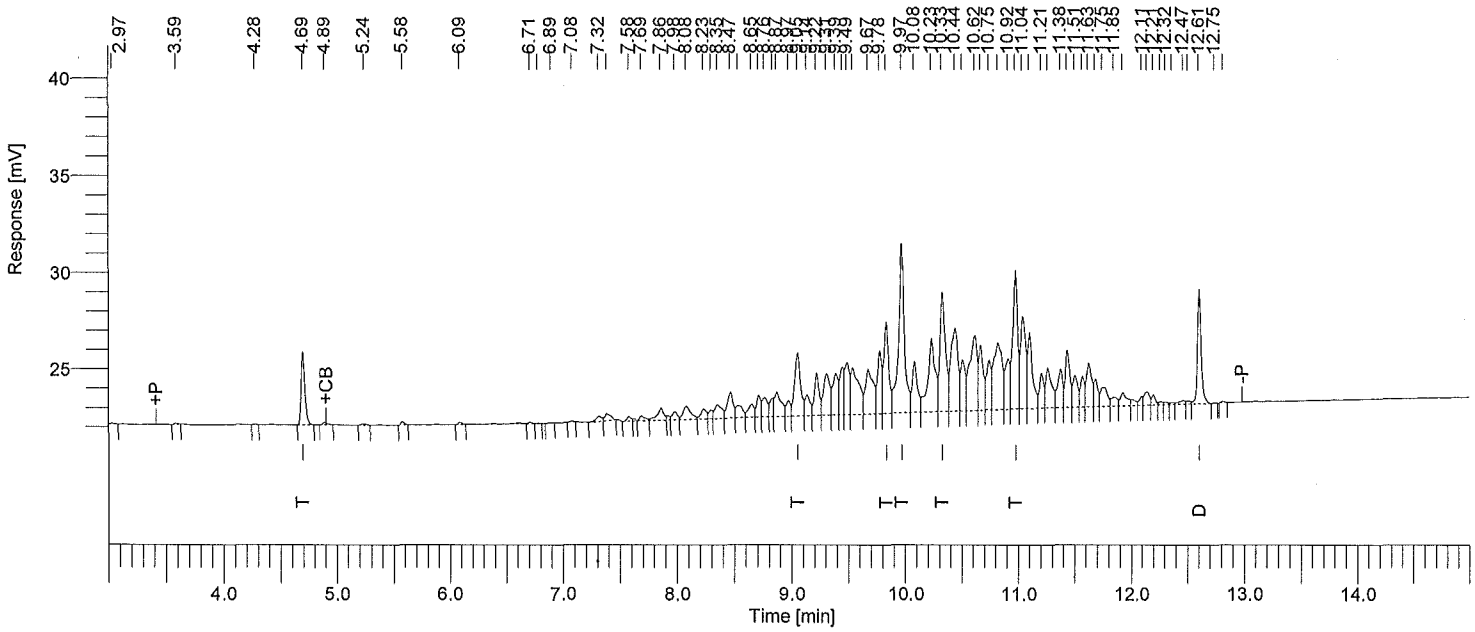

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.69	Tetrachloro-m-xylene	8537	0.0054745
9.05	Toxaphene-1	11941	0.4778810
9.83	Toxaphene-2	14627	0.4831357
9.97	Toxaphene-3	32317	0.4852589
10.33	Toxaphene-4	21271	0.4812789
10.98	Toxaphene-5	22168	0.4956932
12.61	Decachlorobiphenyl	13953	0.0113001

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:24
Operator	: sagers	Sample Name	: TOXAPH252
Sample Number	: 007	Study	: 26378
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 16:21:44	Dilution Factor	: 1.00
		Cycle	: 7

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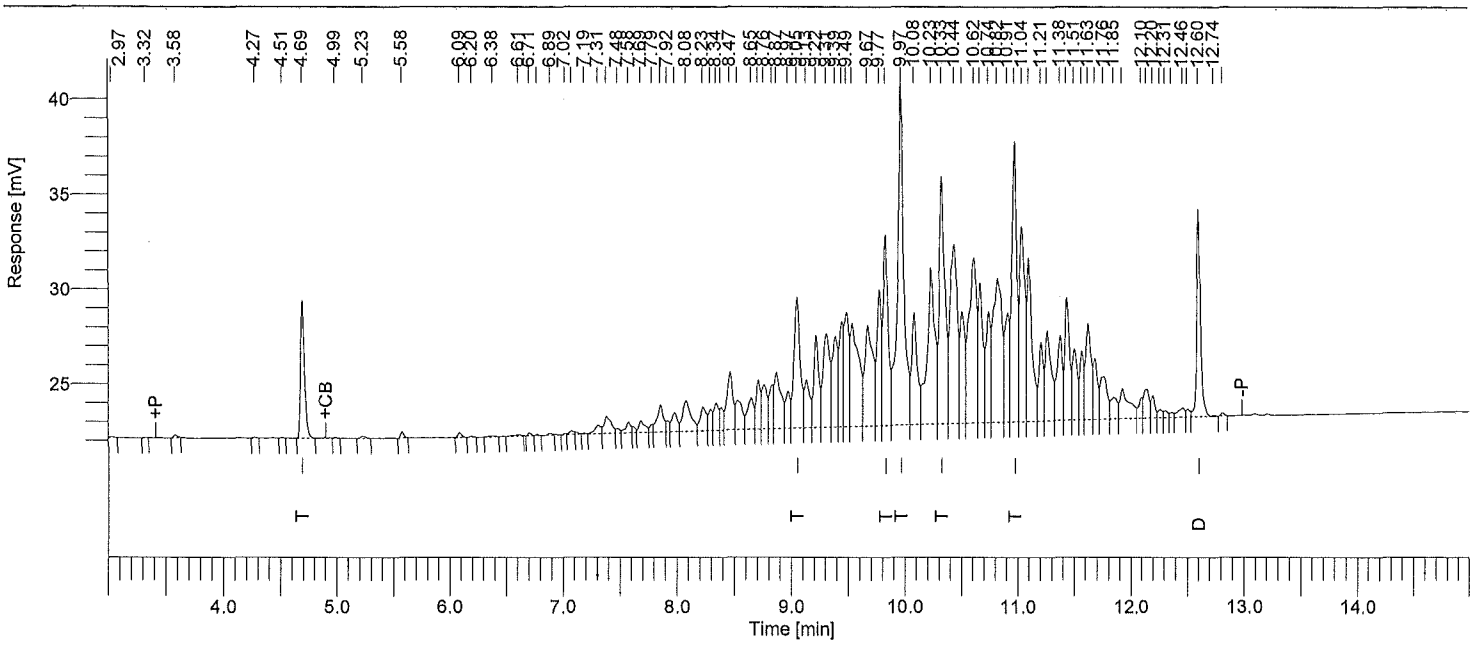

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.69	Tetrachloro-m-xylene	17269	0.0110741
9.05	Toxaphene-1	26532	1.0618581
9.83	Toxaphene-2	32006	1.0571401
9.97	Toxaphene-3	70516	1.0588430
10.33	Toxaphene-4	46545	1.0531593
10.98	Toxaphene-5	46844	1.0474659
12.60	Decachlorobiphenyl	26412	0.0213906

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:26
Operator	: sagers	Sample Name	: TOXAPH352
Sample Number	: 008	Study	: 26379
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 16:42:08	Dilution Factor	: 1.00
		Cycle	: 8

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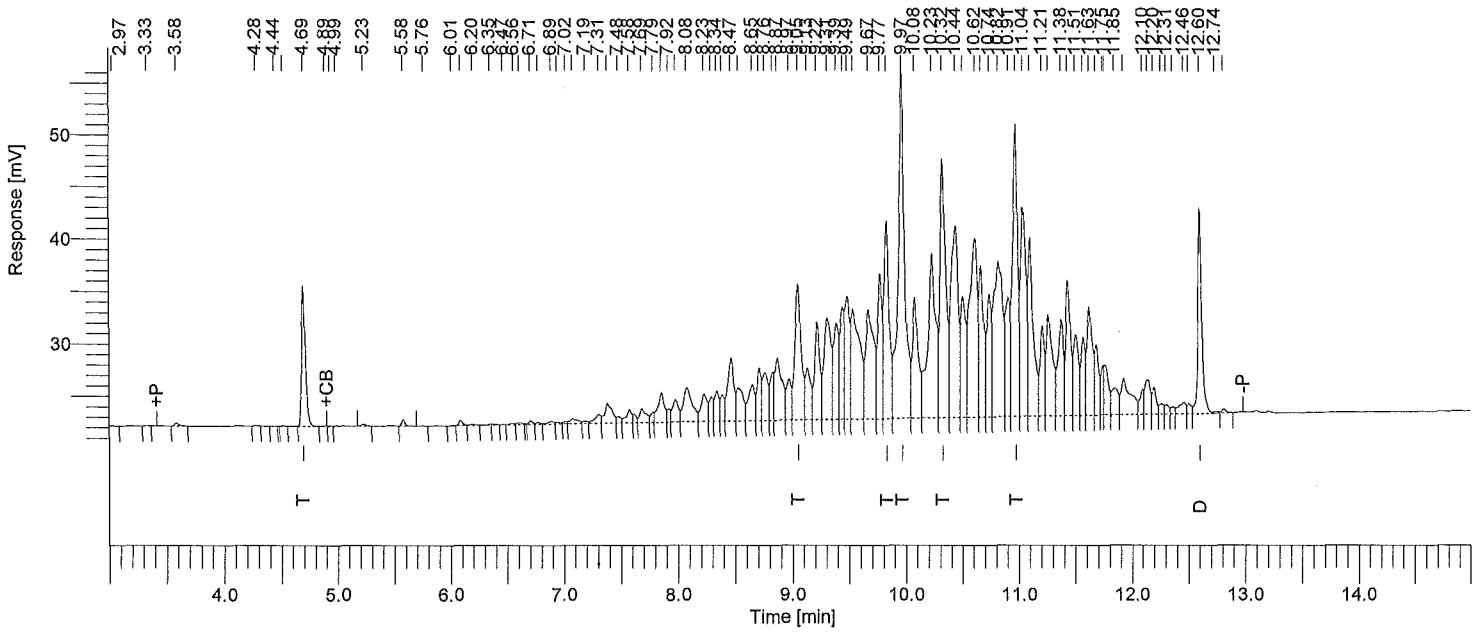

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.69	Tetrachloro-m-xylene	30935	0.0198386	0.0198386	0.0200000	99.2
9.05	Toxaphene-1	50797	2.0329448	2.0329448	2.0000000	101.6
9.83	Toxaphene-2	61515	2.0318245	2.0318245	2.0000000	101.6
9.97	Toxaphene-3	134500	2.0195972	2.0195972	2.0000000	101.0
10.32	Toxaphene-4	89343	2.0215226	2.0215226	2.0000000	101.1
10.98	Toxaphene-5	89842	2.0089123	2.0089123	2.0000000	100.4
12.60	Decachlorobiphenyl	48515	0.0392911	0.0392911	0.0400000	98.2

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:28
Operator	: sagers	Sample Name	: TOXAPH452
Sample Number	: 009	Study	: 26380
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 17:02:36	Dilution Factor	: 1.00
		Cycle	: 9

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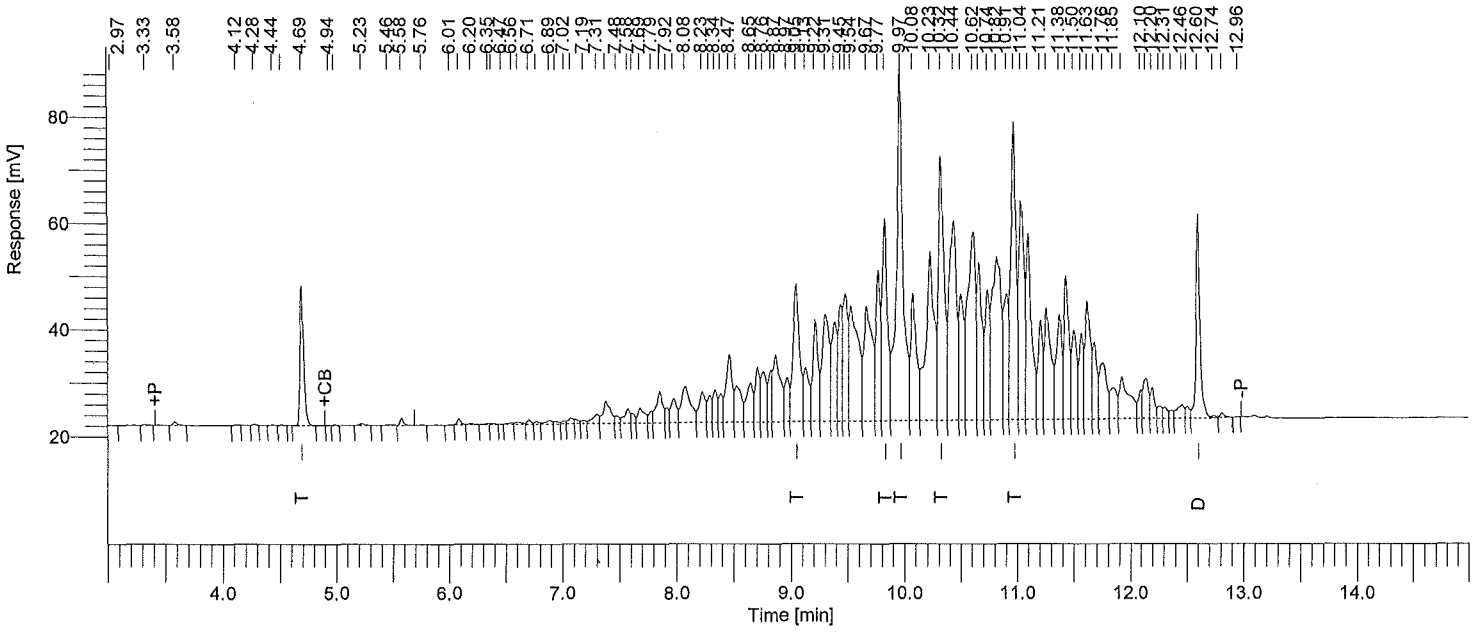

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.69	Tetrachloro-m-xylene	59210	0.0379707
9.05	Toxaphene-1	102587	4.1056618
9.83	Toxaphene-2	124067	4.0978955
9.97	Toxaphene-3	272129	4.0861610
10.32	Toxaphene-4	181606	4.1091174
10.98	Toxaphene-5	182027	4.0702170
12.60	Decachlorobiphenyl	94969	0.0769128

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:30
Operator	: sagers	Sample Name	: TOXAPH552
Sample Number	: 010	Study	: 26381
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 17:23:17	Dilution Factor	: 1.00
		Cycle	: 10

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som_tox_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_010.rst
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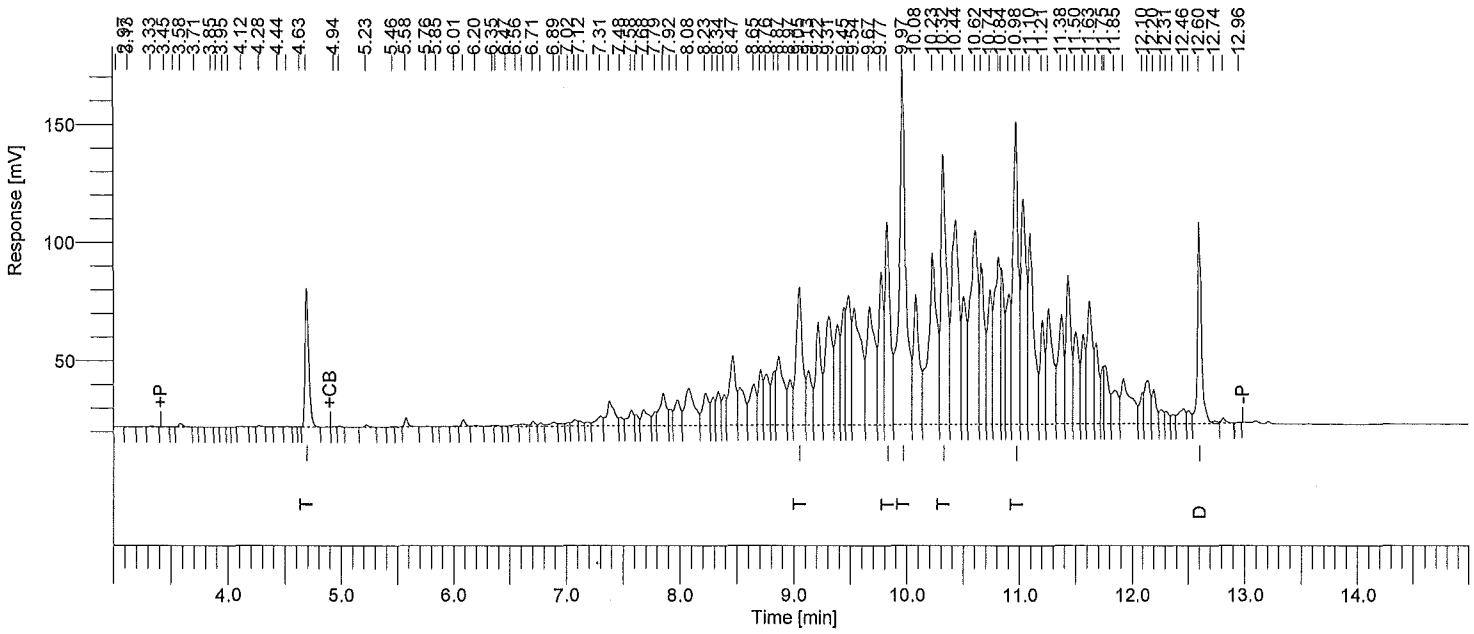

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.69	Tetrachloro-m-xylene	133559	0.0856499
9.05	Toxaphene-1	234749	9.3949200
9.83	Toxaphene-2	283443	9.3620250
9.97	Toxaphene-3	625552	9.3930044
10.32	Toxaphene-4	418201	9.4624225
10.98	Toxaphene-5	419997	9.3913727
12.60	Decachlorobiphenyl	211581	0.1713538

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:34
Operator	: sagers	Sample Name	: INDC152
Sample Number	: 011	Study	: 26382
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 17:43:41	Dilution Factor	: 1.00
		Cycle	: 11

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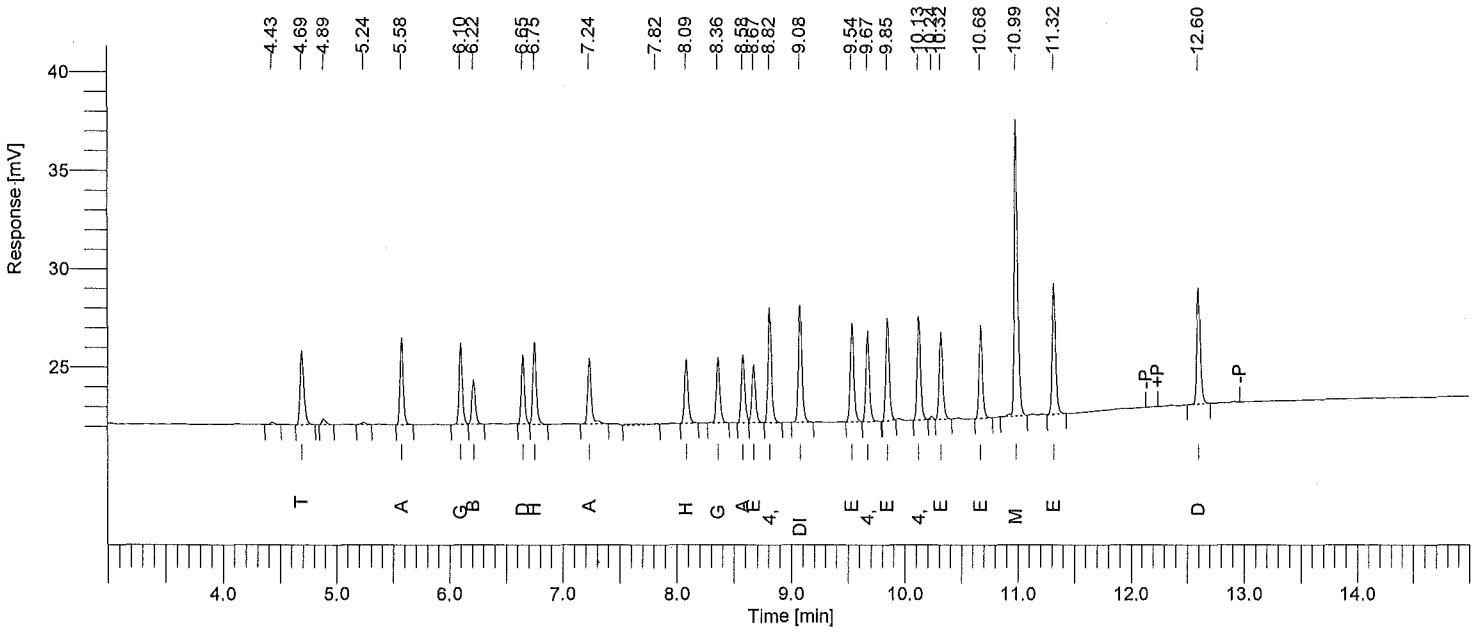

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.69	Tetrachloro-m-xylene	8552	0.0057263
5.58	alpha-BHC	8582	0.0048337
6.10	gamma-BHC	8217	0.0050750
6.22	beta-BHC	4862	0.0056945
6.65	delta-BHC	6822	0.0048273
6.75	Heptachlor	8858	0.0053074
7.24	Aldrin	7455	0.0051726
8.09	Heptachlor epoxide	7049	0.0052390
8.36	gamma-Chlordane	7298	0.0052579
8.58	alpha-Chlordane	7519	0.0054549
8.67	Endosulfan I	6521	0.0052606
8.82	4,4'-DDE	12240	0.0103197
9.08	Dieldrin	12911	0.0102846
9.54	Endrin	10910	0.0107873
9.67	4,4'-DDD	9695	0.0102991
9.85	Endosulfan II	11261	0.0106839
10.13	4,4'-DDT	10878	0.0105205
10.32	Endrin aldehyde	9778	0.0114861
10.68	Endosulfan sulfate	9670	0.0108395
10.99	Methoxychlor	31428	0.0591971
11.32	Endrin ketone	13723	0.0113681
12.60	Decachlorobiphenyl	13133	0.0123553

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:36
Operator	: sagers	Sample Name	: INDC252
Sample Number	: 012	Study	: 26383
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 18:04:13	Dilution Factor	: 1.00
		Cycle	: 12

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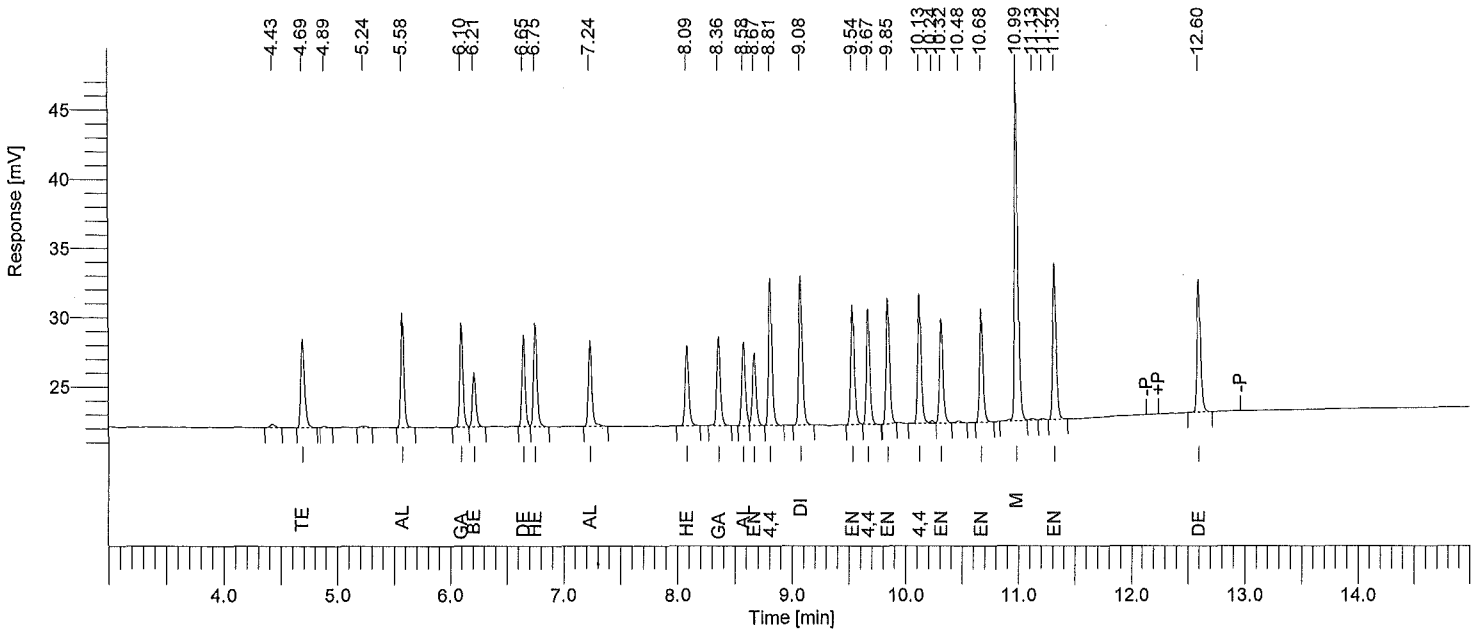

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.69	Tetrachloro-m-xylene	14652	0.0098107
5.58	alpha-BHC	16138	0.0090888
6.10	gamma-BHC	14981	0.0092530
6.21	beta-BHC	8378	0.0098118
6.65	delta-BHC	12716	0.0089977
6.75	Heptachlor	15584	0.0093374
7.24	Aldrin	13139	0.0091159
8.09	Heptachlor epoxide	12657	0.0094075
8.36	gamma-Chlordane	14144	0.0101899
8.58	alpha-Chlordane	13086	0.0094937
8.67	Endosulfan I	11543	0.0093112
8.81	4,4'-DDE	21975	0.0185278
9.08	Dieldrin	23230	0.0185051
9.54	Endrin	18639	0.0184289
9.67	4,4'-DDD	17521	0.0186132
9.85	Endosulfan II	19566	0.0185632
10.13	4,4'-DDT	19318	0.0186829
10.32	Endrin aldehyde	16480	0.0193585
10.68	Endosulfan sulfate	16774	0.0188031
10.99	Methoxychlor	51674	0.0973332
11.32	Endrin ketone	23094	0.0191302
12.60	Decachlorobiphenyl	21510	0.0202369

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:38
Operator	: sagers	Sample Name	: INDC352
Sample Number	: 013	Study	: 26384
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/08/2015 18:24:41	Cycle	: 13

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_013.rst
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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150608\21_RPT_2UL\21_som12_ccv_b.rpt
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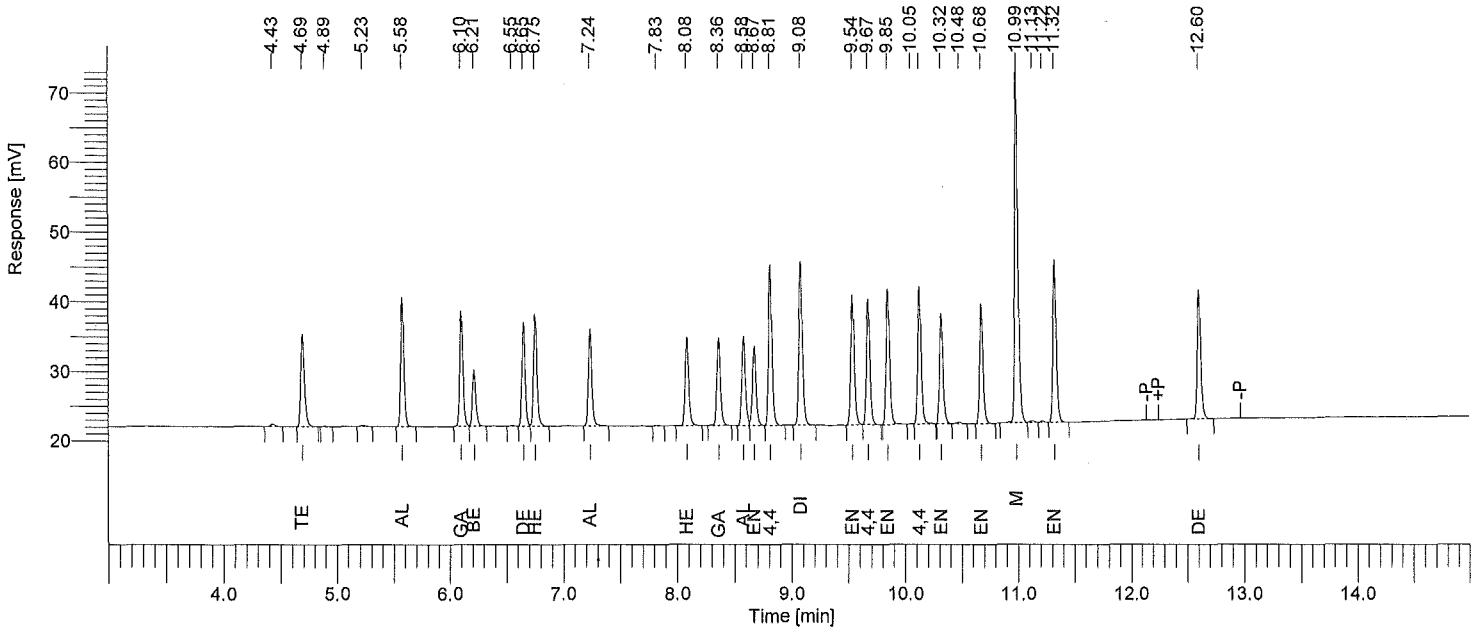

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.69	Tetrachloro-m-xylene	30210	0.0202279	0.0202279	0.0200000	101.1
5.58	alpha-BHC	36981	0.0208283	0.0208283	0.0200000	104.1
6.10	gamma-BHC	33453	0.0206621	0.0206621	0.0200000	103.3
6.21	beta-BHC	17366	0.0203378	0.0203378	0.0200000	101.7
6.65	delta-BHC	29427	0.0208228	0.0208228	0.0200000	104.1
6.75	Heptachlor	34007	0.0203761	0.0203761	0.0200000	101.9
7.24	Aldrin	29325	0.0203457	0.0203457	0.0200000	101.7
8.08	Heptachlor epoxide	27576	0.0204959	0.0204959	0.0200000	102.5
8.36	gamma-Chlordane	27791	0.0200227	0.0200227	0.0200000	100.1
8.58	alpha-Chlordane	28022	0.0203300	0.0203300	0.0200000	101.6
8.67	Endosulfan I	25193	0.0203219	0.0203219	0.0200000	101.6
8.81	4,4'-DDE	48556	0.0409388	0.0409388	0.0400000	102.3
9.08	Dieldrin	51423	0.0409637	0.0409637	0.0400000	102.4
9.54	Endrin	40615	0.0401571	0.0401571	0.0400000	100.4
9.67	4,4'-DDD	38534	0.0409361	0.0409361	0.0400000	102.3
9.85	Endosulfan II	42999	0.0407945	0.0407945	0.0400000	102.0
10.12	4,4'-DDT	41829	0.0404528	0.0404528	0.0400000	101.1
10.32	Endrin aldehyde	34276	0.0402634	0.0402634	0.0400000	100.7
10.68	Endosulfan sulfate	35824	0.0401587	0.0401587	0.0400000	100.4
10.99	Methoxychlor	103093	0.1941851	0.1941851	0.2000000	97.1
11.32	Endrin ketone	47927	0.0397012	0.0397012	0.0400000	99.3
12.60	Decachlorobiphenyl	41650	0.0391850	0.0391850	0.0400000	98.0

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:40
Operator	: sagers	Sample Name	: INDC452
Sample Number	: 014	Study	: 26385
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 18:45:19	Dilution Factor	: 1.00
		Cycle	: 14

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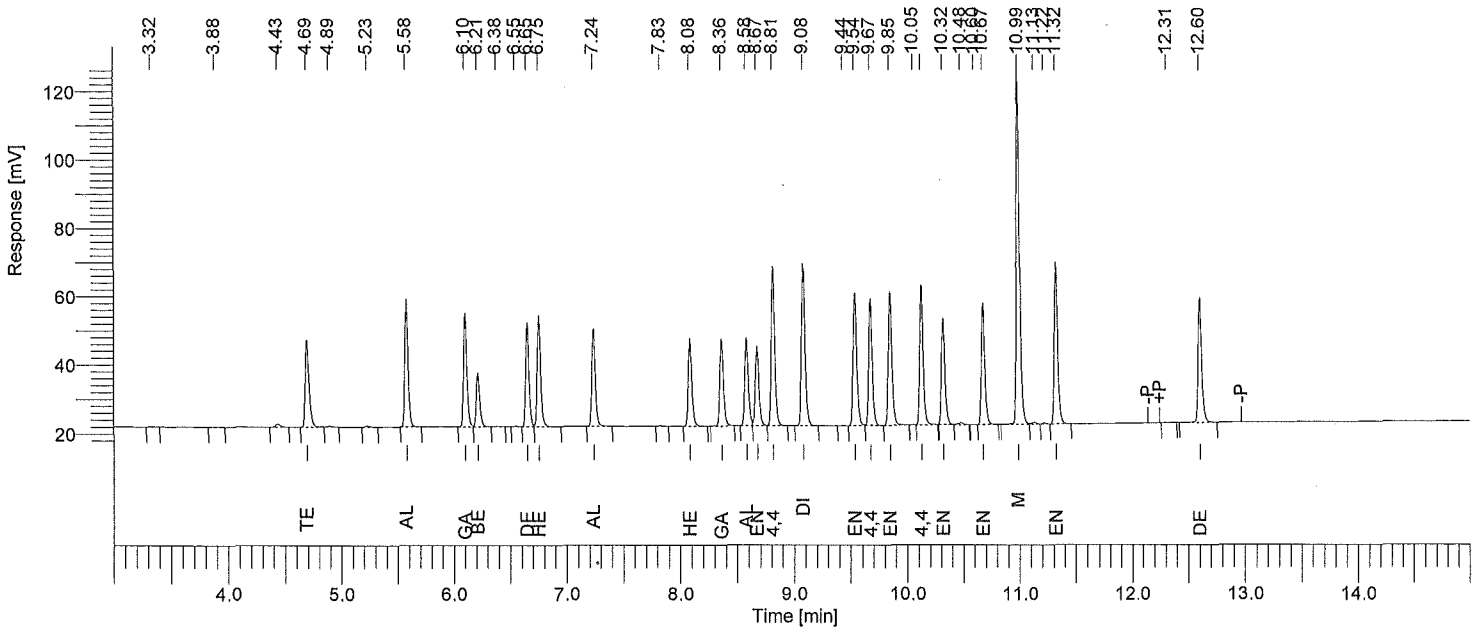

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.69	Tetrachloro-m-xylene	59089	0.0395647
5.58	alpha-BHC	76498	0.0430846
6.10	gamma-BHC	68230	0.0421424
6.21	beta-BHC	33610	0.0393614
6.65	delta-BHC	61106	0.0432389
6.75	Heptachlor	69067	0.0413831
7.24	Aldrin	60388	0.0418972
8.08	Heptachlor epoxide	55356	0.0411431
8.36	gamma-Chlordane	55552	0.0400232
8.58	alpha-Chlordane	55899	0.0405538
8.67	Endosulfan I	51237	0.0413307
8.81	4,4'-DDE	99485	0.0838779
9.08	Dieldrin	105086	0.0837121
9.54	Endrin	85269	0.0843080
9.67	4,4'-DDD	79057	0.0839847
9.85	Endosulfan II	87215	0.0827439
10.12	4,4'-DDT	86285	0.0834473
10.32	Endrin aldehyde	66890	0.0785752
10.67	Endosulfan sulfate	73866	0.0828028
10.99	Methoxychlor	209235	0.3941142
11.32	Endrin ketone	96995	0.0803473
12.60	Decachlorobiphenyl	81391	0.0765738

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:42
Operator	: sagers	Sample Name	: INDC552
Sample Number	: 015	Study	: 26386
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/08/2015 19:05:49	Cycle	: 15

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Calib Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_015.rst
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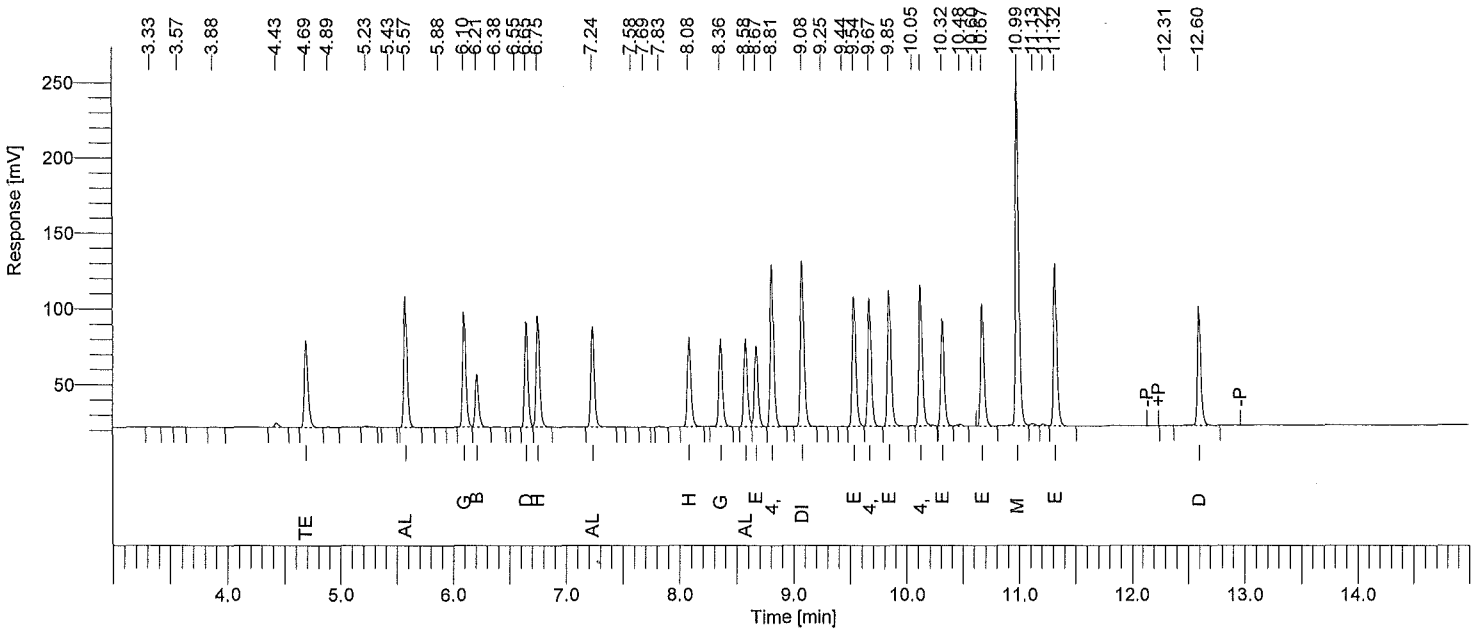

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.69	Tetrachloro-m-xylene	130406	0.0873163
5.57	alpha-BHC	178593	0.1005853
6.10	gamma-BHC	157539	0.0973036
6.21	beta-BHC	75057	0.0878995
6.65	delta-BHC	143109	0.1012652
6.75	Heptachlor	158785	0.0951404
7.24	Aldrin	142574	0.0989175
8.08	Heptachlor epoxide	128902	0.0958070
8.36	gamma-Chlordane	128766	0.0927715
8.58	alpha-Chlordane	128095	0.0929313
8.67	Endosulfan I	119927	0.0967406
8.81	4,4'-DDE	230024	0.1939389
9.08	Dieldrin	244988	0.1951589
9.54	Endrin	190556	0.1884091
9.67	4,4'-DDD	181905	0.1932429
9.85	Endosulfan II	200117	0.1898577
10.12	4,4'-DDT	198405	0.1918794
10.32	Endrin aldehyde	152328	0.1789383
10.67	Endosulfan sulfate	167155	0.1873793
10.99	Methoxychlor	470650	0.8865144
11.32	Endrin ketone	219663	0.1819614
12.60	Decachlorobiphenyl	173431	0.1631665

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:47
Operator	: sagers	Sample Name	: PEM62
Sample Number	: 017	Study	: 26388
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 19:46:41	Dilution Factor	: 1.00
		Cycle	: 2

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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150608\21_RPT_2UL\21_som_pem_b.rpt
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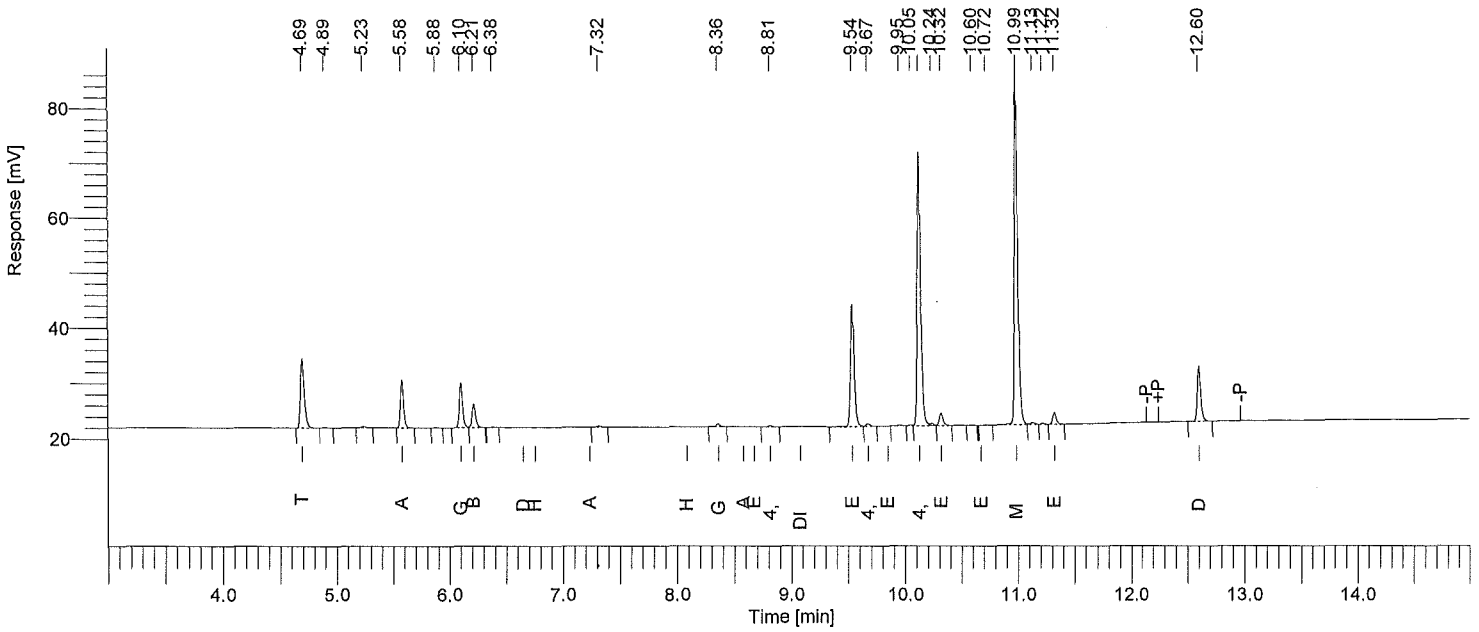

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.69	Tetrachloro-m-xylene	28923	0.0193661	0.0193661	0.02000	96.8
5.58	alpha-BHC	16802	0.0094633	0.0094633	0.01000	94.6
6.10	gamma-BHC	15931	0.0098399	0.0098399	0.01000	98.4
6.21	beta-BHC	9041	0.0105881	0.0105881	0.01000	105.9
6.65	delta-BHC	0	0.0000000	0.0000000	----------	------
6.75	Heptachlor	0	0.0000000	0.0000000	----------	------
7.24	Aldrin	0	0.0000000	0.0000000	----------	------
8.08	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
8.36	gamma-Chlordane	1118	0.0008053	0.0008053	0.00000	------
8.58	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
8.67	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.81	4,4'-DDE	638	0.0005376	0.0005376	0.10000	0.5
9.08	Dieldrin	0	0.0000000	0.0000000	----------	------
9.54	Endrin	49272	0.0487166	0.0487166	0.05000	97.4
9.67	4,4'-DDD	1201	0.0012756	0.0012756	0.10000	1.3
9.85	Endosulfan II	0	0.0000000	0.0000000	----------	------
10.12	4,4'-DDT	104497	0.1010602	0.1010602	0.10000	101.1
10.32	Endrin aldehyde	5115	0.0060082	0.0060082	0.05000	12.0
10.72	Endosulfan sulfate	313	0.0003506	0.0003506	0.00000	------
10.99	Methoxychlor	130561	0.2459236	0.2459236	0.25000	98.4
11.32	Endrin ketone	4323	0.0035813	0.0035813	0.05000	7.2
12.60	Decachlorobiphenyl	22164	0.0208523	0.0208523	0.02000	104.3
			0.4783688			817.9

06/09/2015 11:18:47 Result: \\Alsitws012\TCCS\sagers\GCE21\21150608\21150608B_017.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
8.81	4,4'-DDE	638	0.0005376	0.0005376	0.10000	0.5
9.67	4,4'-DDD	1201	0.0012756	0.0012756	0.10000	1.3
			0.0018132			1.8

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
10.32	Endrin aldehyde	5115	0.0060082	0.0060082	0.05000	12.0
11.32	Endrin ketone	4323	0.0035813	0.0035813	0.05000	7.2
			0.0095896			19.2

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 12:12:02
Reprocess Number	: nasltw7087: 2207193		
Operator	: sagers		
Sample Number	: 030	Sample Name	: INDC372
AutoSampler	: HP7673A	Study	: 26384
Instrument Name	: GCE21	Rack/Vial	: 0/30
Instrument Serial #	: None	Channel	: B
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.40 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/09/2015 00:12:19	Dilution Factor	: 1.00
		Cycle	: 2

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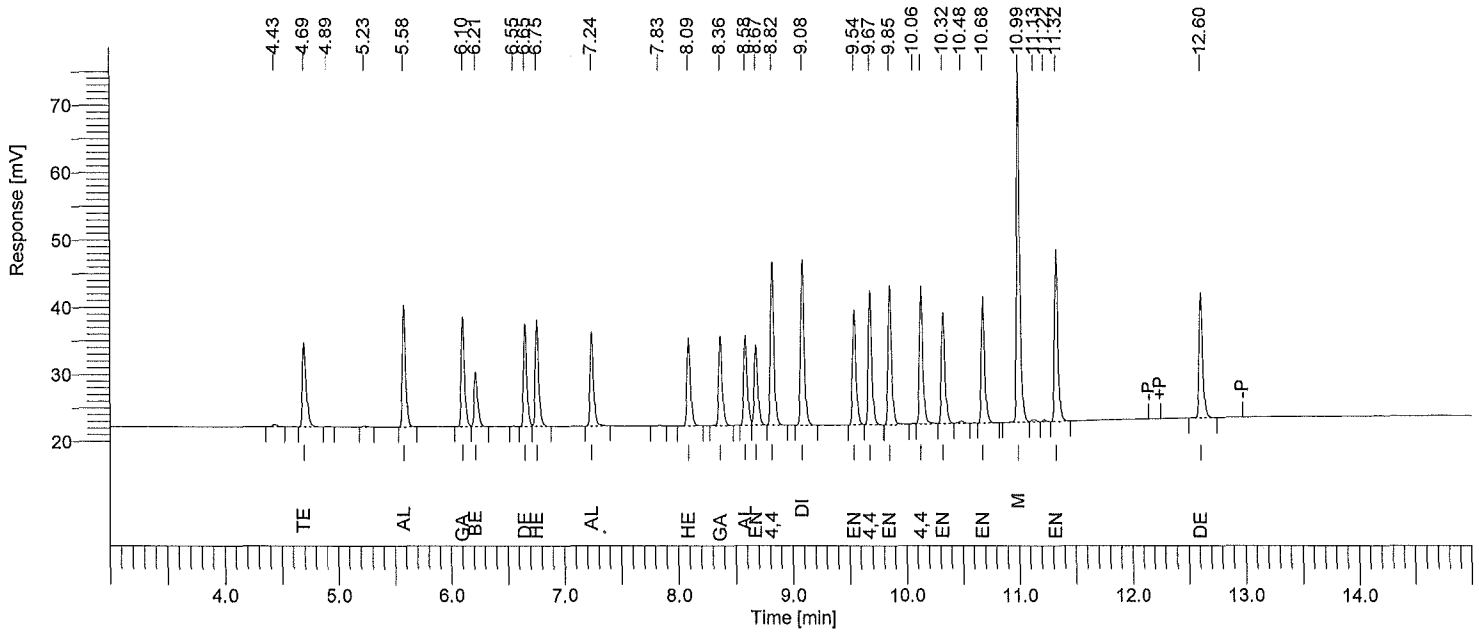

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.69	Tetrachloro-m-xylene	29659	0.0198587	0.0198587	0.0200000	99.3
5.58	alpha-BHC	36499	0.0205565	0.0205565	0.0200000	102.8
6.10	gamma-BHC	33154	0.0204775	0.0204775	0.0200000	102.4
6.21	beta-BHC	17658	0.0206797	0.0206797	0.0200000	103.4
6.65	delta-BHC	30323	0.0214567	0.0214567	0.0200000	107.3
6.75	Heptachlor	33440	0.0200367	0.0200367	0.0200000	100.2
7.24	Aldrin	29599	0.0205361	0.0205361	0.0200000	102.7
8.09	Heptachlor epoxide	28160	0.0209301	0.0209301	0.0200000	104.7
8.36	gamma-Chlordane	29176	0.0210202	0.0210202	0.0200000	105.1
8.58	alpha-Chlordane	29134	0.0211363	0.0211363	0.0200000	105.7
8.67	Endosulfan I	26183	0.0211209	0.0211209	0.0200000	105.6
8.82	4,4'-DDE	51690	0.0435815	0.0435815	0.0400000	109.0
9.08	Dieldrin	53885	0.0429251	0.0429251	0.0400000	107.3
9.54	Endrin	37365	0.0369445	0.0369445	0.0400000	92.4
9.67	4,4'-DDD	42421	0.0450648	0.0450648	0.0400000	112.7
9.85	Endosulfan II	45991	0.0436335	0.0436335	0.0400000	109.1
10.13	4,4'-DDT	42949	0.0415363	0.0415363	0.0400000	103.8
10.32	Endrin aldehyde	36684	0.0430922	0.0430922	0.0400000	107.7
10.68	Endosulfan sulfate	39327	0.0440849	0.0440849	0.0400000	110.2
10.99	Methoxychlor	105172	0.1981026	0.1981026	0.2000000	99.1
11.32	Endrin ketone	52647	0.0436111	0.0436111	0.0400000	109.0
12.60	Decachlorobiphenyl	41560	0.0391003	0.0391003	0.0400000	97.8

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 448474

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21150604A018,21150604B018

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/04/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	0.58	J
319-86-8	delta-BHC	0.26	J
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	0.18	JP
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	0.048	JP
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	0.049	JP
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	0.27	JP
7421-93-4	Endrin aldehyde	0.41	J
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	0.076	JP
8001-35-2	Toxaphene	170	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:07
Operator	: sagers	Sample Name	: 448474
Sample Number	: 018	Study	: PBLKS1
AutoSampler	: HP7673A	Rack/Vial	: 0/18
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 23:10:46	Dilution Factor	: 1.00
		Cycle	: 2

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604A_018.rst
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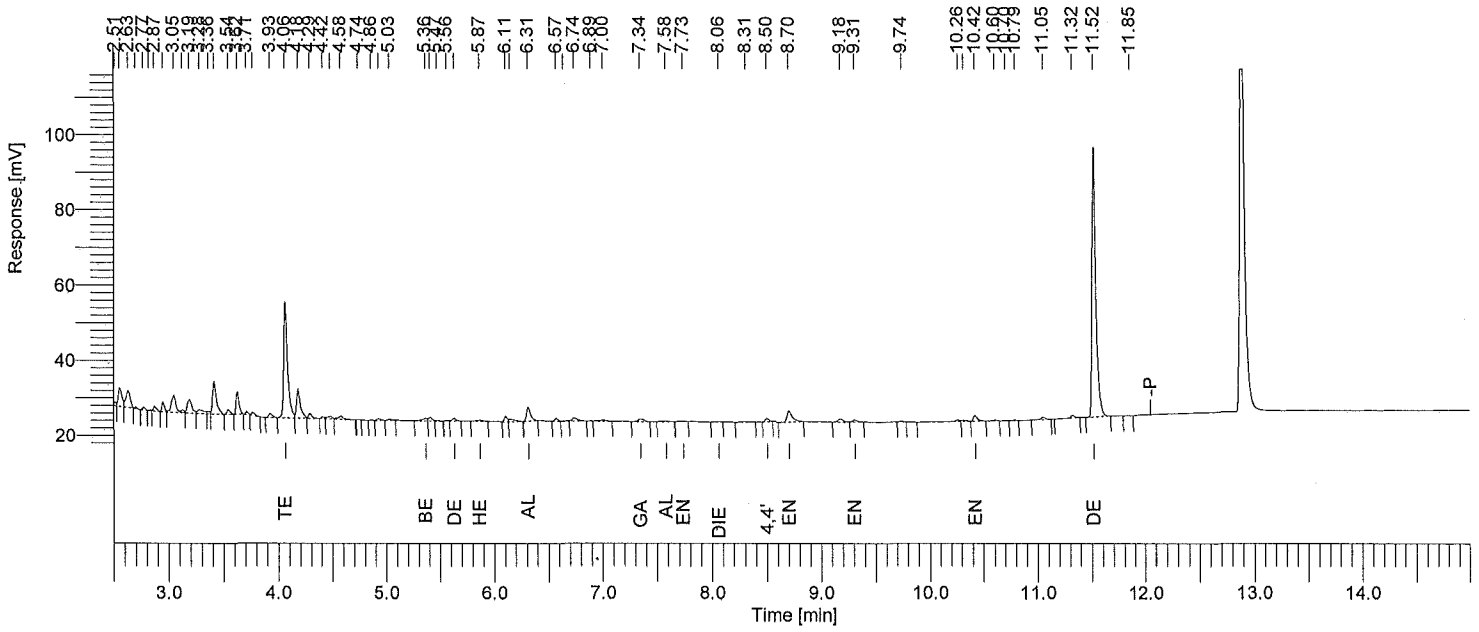
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604_SOM012_PEST_F9K58_A.seq



Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.06	Tetrachloro-m-xylene	75453	0.03235615	1	10	0.03000	1.000	1.6667	10.78538	20.00	53.9
4.81	alpha-BHC	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
5.24	gamma-BHC	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
5.36	beta-BHC	2350	1.7339e-03	1	10	0.03000	1.000	1.6667	0.57795	0.00	------
5.63	delta-BHC	1898	7.8582e-04	1	10	0.03000	1.000	1.6667	0.26194	0.00	------
5.87	Heptachlor	1406	5.2684e-04	1	10	0.03000	1.000	1.6667	0.17561	0.00	------
6.31	Aldrin	9526	4.0959e-03	1	10	0.03000	1.000	1.6667	1.36529	0.00	------
7.19	Heptachlor epoxide	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
7.34	gamma-Chlordane	2830	1.2142e-03	1	10	0.03000	1.000	1.6667	0.40475	0.00	------
7.58	alpha-Chlordane	840	3.7266e-04	1	10	0.03000	1.000	1.6667	0.12422	0.00	------
7.67	4,4'-DDE	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
7.73	Endosulfan I	469	2.2387e-04	1	10	0.03000	1.000	1.6667	0.07462	0.00	------
8.06	Dieldrin	281	1.4426e-04	1	10	0.03000	1.000	3.3333	0.04809	0.00	------
8.44	Endrin	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
8.50	4,4'-DDD	1943	1.3016e-03	1	10	0.03000	1.000	3.3333	0.43388	0.00	------
8.70	Endosulfan II	10306	6.2189e-03	1	10	0.03000	1.000	3.3333	2.07297	0.00	------
8.94	4,4'-DDT	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
9.31	Endrin aldehyde	1683	1.2207e-03	1	10	0.03000	1.000	3.3333	0.40689	0.00	------
9.64	Methoxychlor	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
10.01	Endosulfan sulfate	0	0.00000000	1	10	0.03000	1.000	----------	0.00000	--------	------
10.42	Endrin ketone	4207	2.3151e-03	1	10	0.03000	1.000	3.3333	0.77172	0.00	------
11.52	Decachlorobiphenyl	171369	0.11095310	1	10	0.03000	1.000	3.3333	36.98437	40.00	92.5

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:17
Operator	: sagers	Sample Name	: 448474
Sample Number	: 018	Study	: PBLKS1
AutoSampler	: HP7673A	Rack/Vial	: 0/18
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 23:31:08	Dilution Factor	: 1.00
		Cycle	: 3

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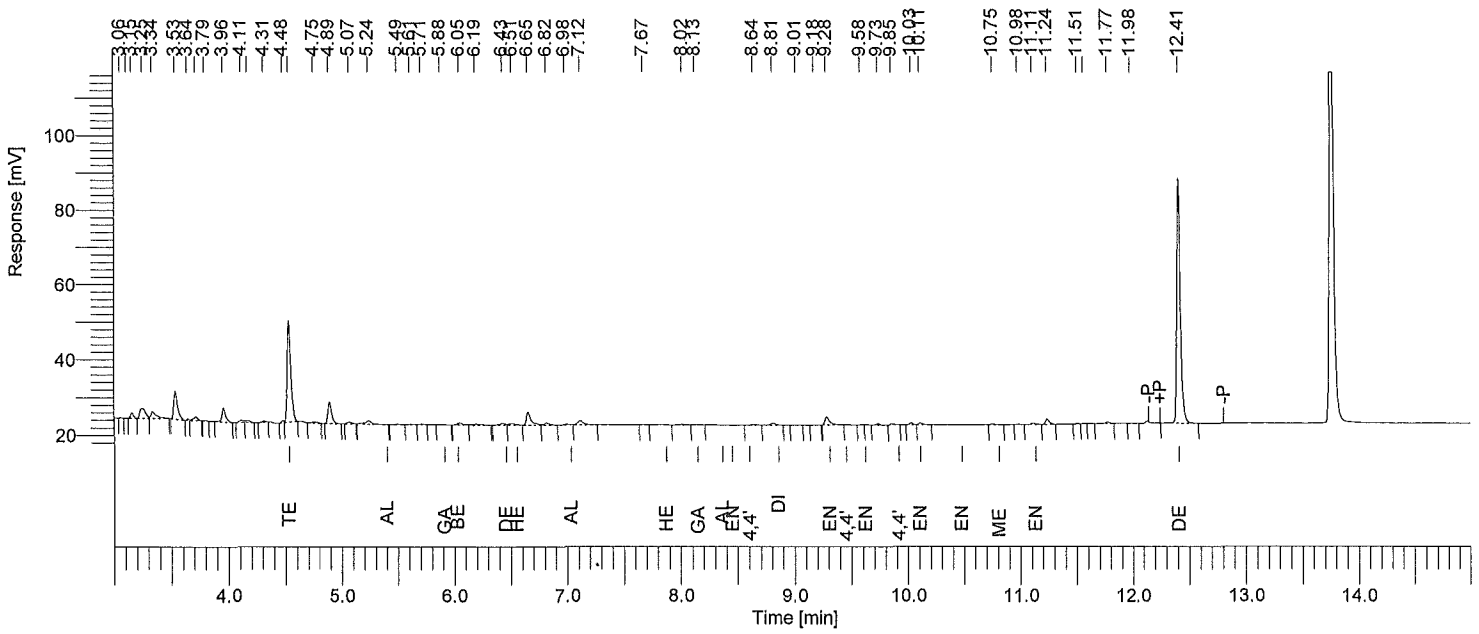

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.53	Tetrachloro-m-xylene	60146	0.03471304	1	10	0.03000	1.000	1.6667	11.57101	20.00	57.9
5.40	alpha-BHC	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
5.88	gamma-BHC	279	1.4344e-04	1	10	0.03000	1.000	1.6667	0.04781	0.00	------
6.05	beta-BHC	1865	1.8842e-03	1	10	0.03000	1.000	1.6667	0.62806	0.00	------
6.43	delta-BHC	1642	9.6495e-04	1	10	0.03000	1.000	1.6667	0.32165	0.00	------
6.51	Heptachlor	1812	9.0072e-04	1	10	0.03000	1.000	1.6667	0.30024	0.00	------
7.03	Aldrin	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
7.87	Heptachlor epoxide	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
8.13	gamma-Chlordane	383	2.2750e-04	1	10	0.03000	1.000	1.6667	0.07583	0.00	------
8.36	alpha-Chlordane	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
8.45	Endosulfan I	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
8.64	4,4'-DDE	773	5.3192e-04	1	10	0.03000	1.000	3.3333	0.17731	0.00	------
8.81	Dieldrin	1778	1.1744e-03	1	10	0.03000	1.000	3.3333	0.39145	0.00	------
9.28	Endrin	6608	4.9908e-03	1	10	0.03000	1.000	3.3333	1.66361	0.00	------
9.45	4,4'-DDD	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
9.58	Endosulfan II	186	1.4678e-04	1	10	0.03000	1.000	3.3333	0.04893	0.00	------
9.85	4,4'-DDT	889	6.9342e-04	1	10	0.03000	1.000	3.3333	0.23114	0.00	------
10.11	Endrin aldehyde	1343	1.2817e-03	1	10	0.03000	1.000	3.3333	0.42725	0.00	------
10.48	Endosulfan sulfate	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
10.75	Methoxychlor	545	8.6185e-04	1	10	0.03000	1.000	16.6667	0.28728	0.00	------
11.11	Endrin ketone	1139	7.9957e-04	1	10	0.03000	1.000	3.3333	0.26652	0.00	------
12.41	Decachlorobiphenyl	138030	0.11189731	1	10	0.03000	1.000	3.3333	37.29910	40.00	93.2

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK21(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK21

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150604A016

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/04/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.012	J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.0084	J
8001-35-2	Toxaphene	5.0	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:02
Operator	: sagers	Sample Name	: PIBLK21
Sample Number	: 016	Study	: 26387
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 22:29:46	Dilution Factor	: 1.00
		Cycle	: 15

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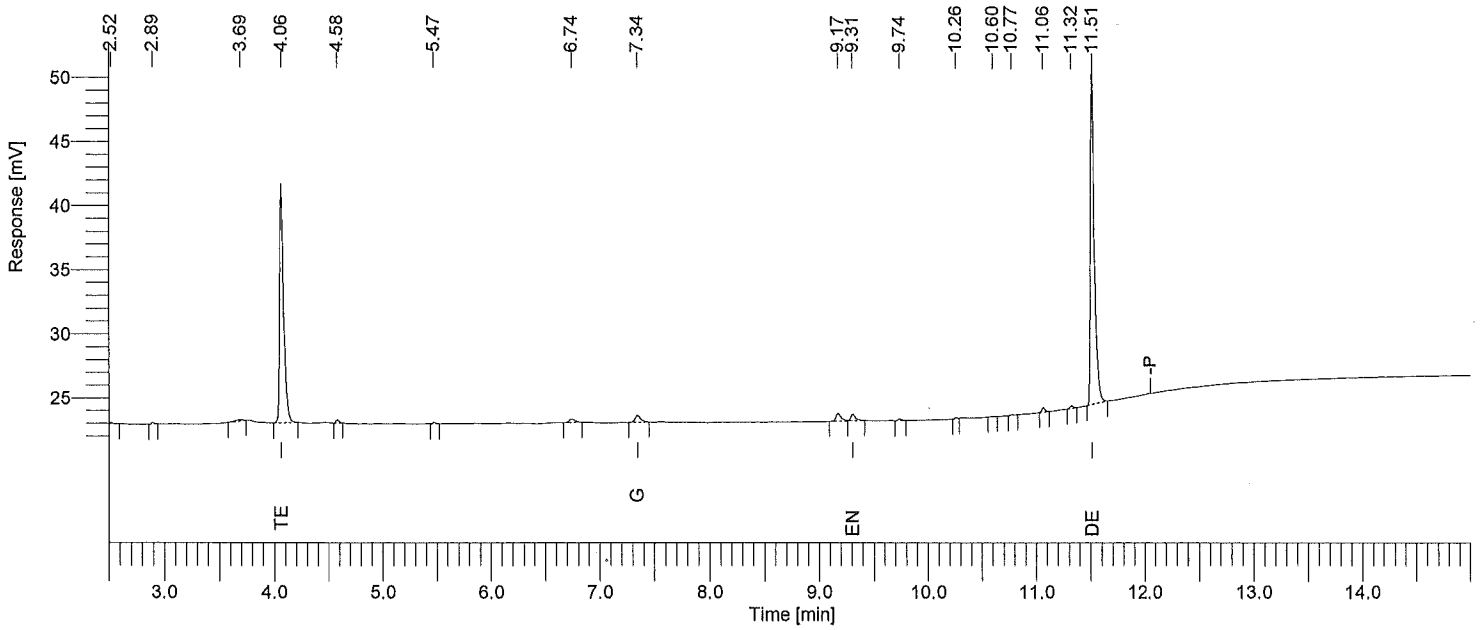

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.06	Tetrachloro-m-xylene	46662	0.020010	1	10	1.000	1.000	0.050000	0.200100	0.2000	100.1
4.81	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.24	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.36	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.61	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.90	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.32	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.19	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.34	gamma-Chlordane	1955	8.39e-04	1	10	1.000	1.000	0.050000	0.008391	0.0000	-----
7.56	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.67	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.76	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.10	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.44	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.53	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.76	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.94	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.31	Endrin aldehyde	1621	1.18e-03	1	10	1.000	1.000	0.100000	0.011757	0.0000	-----
9.64	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.01	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.38	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.51	Decachlorobiphenyl	64148	0.041532	1	10	1.000	1.000	0.100000	0.415323	0.4000	103.8

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK22(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK22

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150604B016

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/04/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.014	J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:11
Operator	: sagers	Sample Name	: PIBLK22
Sample Number	: 016	Study	: 26387
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 22:50:22	Dilution Factor	: 1.00
		Cycle	: 16

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_016.raw <Modified>
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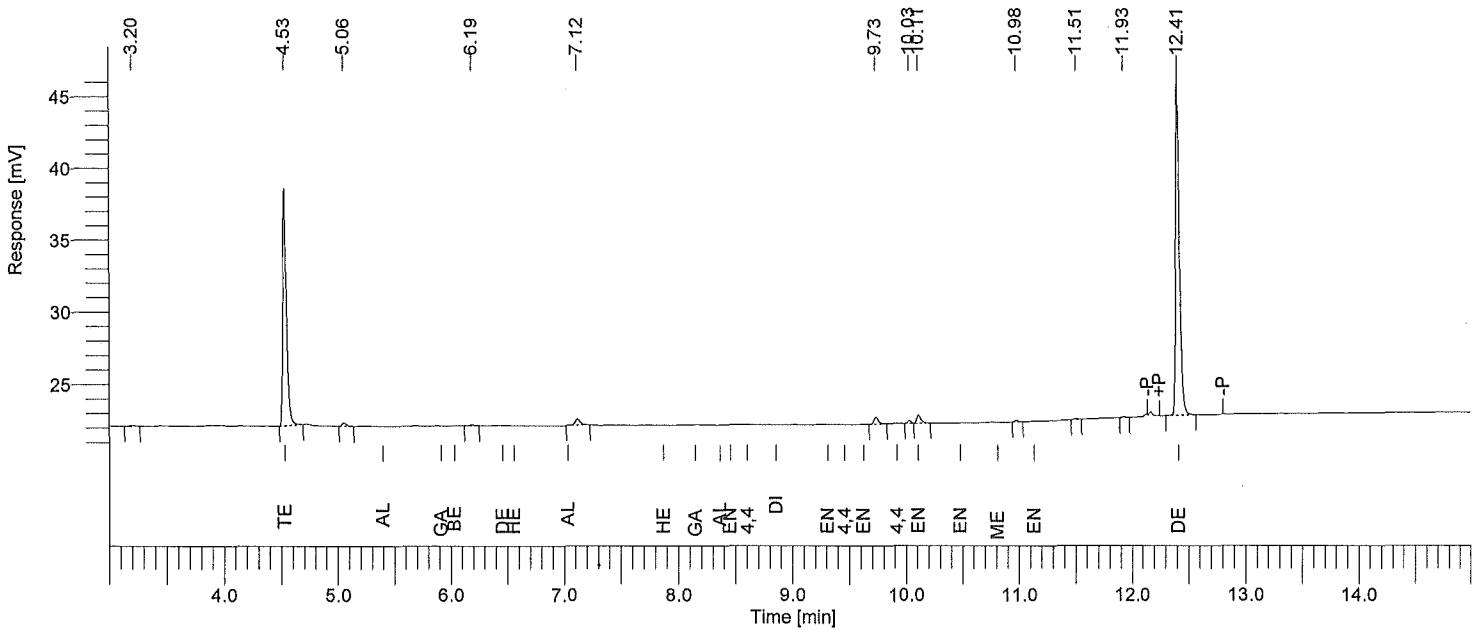

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.53	Tetrachloro-m-xylene	36404	0.021010	1	10	1.000	1.000	0.050000	0.210102	0.2000	105.1
5.40	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.91	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.03	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.46	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.55	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.03	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.87	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.15	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.36	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.45	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.60	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.86	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.31	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.45	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.62	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.92	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.11	Endrin aldehyde	1455	1.39e-03	1	10	1.000	1.000	0.100000	0.013884	0.0000	-----
10.48	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.81	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.13	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
12.41	Decachlorobiphenyl	52210	0.042325	1	10	1.000	1.000	0.100000	0.423249	0.4000	105.8

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK31(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK31

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150604A032

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.0052	J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.0052	J
8001-35-2	Toxaphene	5.0	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:38
Operator	: sagers	Sample Name	: PIBLK31
Sample Number	: 032	Study	: 26387
AutoSampler	: HP7673A	Rack/Vial	: 0/32
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 03:56:20	Dilution Factor	: 1.00
		Cycle	: 31

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604A_032.rst
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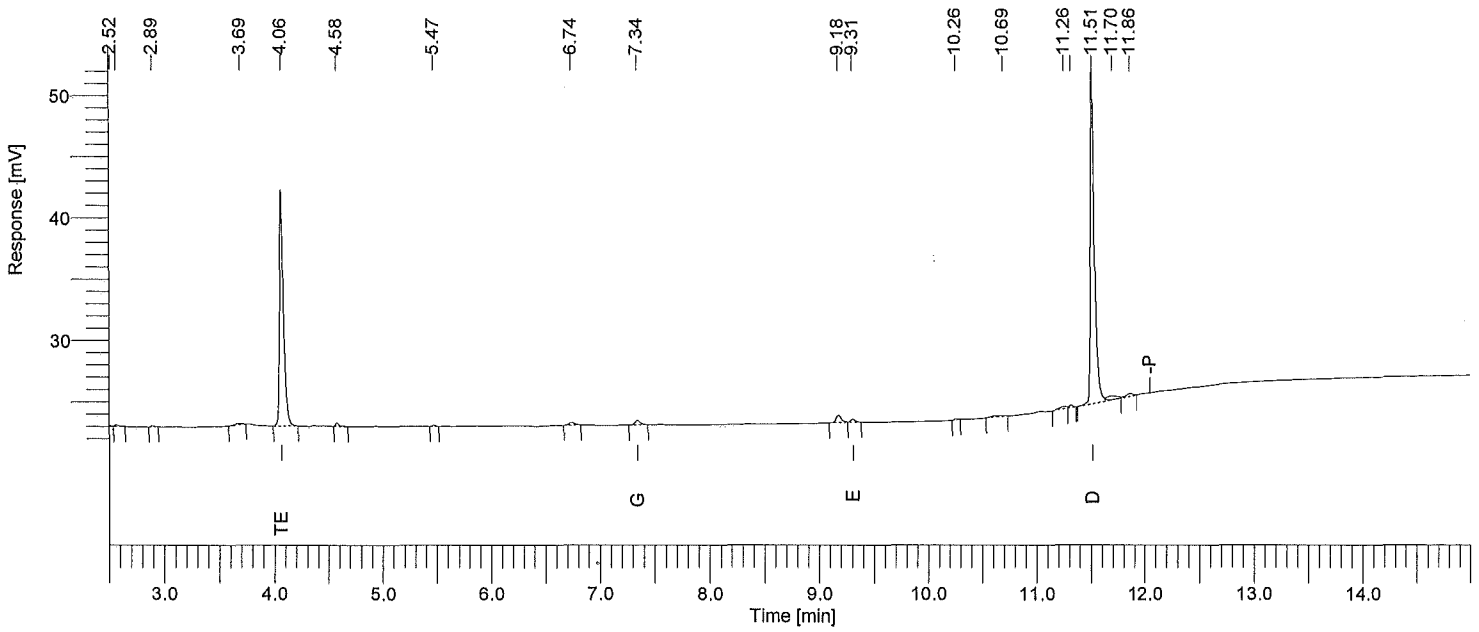

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.06	Tetrachloro-m-xylene	47911	0.020546	1	10	1.000	1.000	0.050000	0.205457	0.2000	102.7
4.81	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.24	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.36	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.61	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.90	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.32	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.19	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.34	gamma-Chlordane	1213	5.21e-04	1	10	1.000	1.000	0.050000	0.005207	0.0000	-----
7.56	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.67	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.76	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.10	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.44	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.53	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.76	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.94	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.31	Endrin aldehyde	724	5.25e-04	1	10	1.000	1.000	0.100000	0.005253	0.0000	-----
9.64	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.01	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.38	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.51	Decachlorobiphenyl	68537	0.044375	1	10	1.000	1.000	0.100000	0.443746	0.4000	110.9

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK32(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK32

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150604B032

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.0061	J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:47
Operator	: sagers	Sample Name	: PIBLK32
Sample Number	: 032	Study	: 26387
AutoSampler	: HP7673A	Rack/Vial	: 0/32
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 04:16:42	Dilution Factor	: 1.00
		Cycle	: 32

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150604\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604B_032.rst
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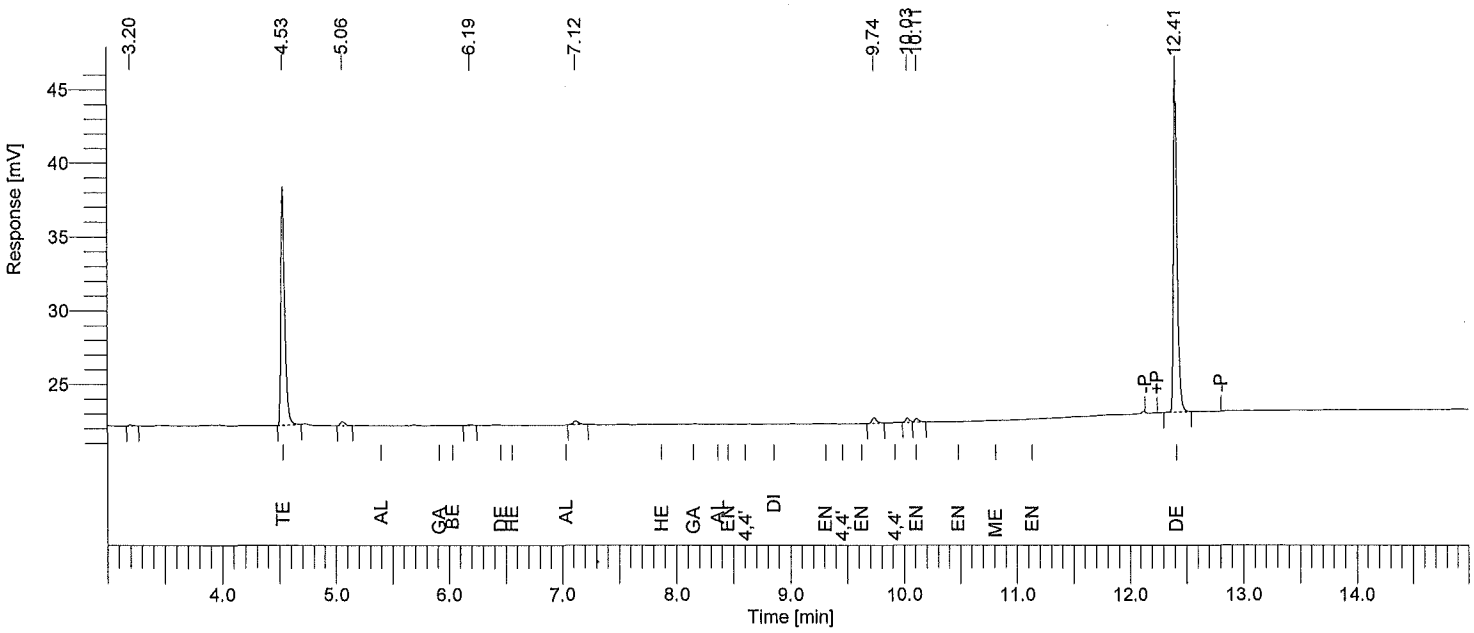

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.53	Tetrachloro-m-xylene	37323	0.021541	1	10	1.000	1.000	0.050000	0.215405	0.2000	107.7
5.40	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.91	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.03	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.46	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.55	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.03	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.87	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.15	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.36	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.45	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.60	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.86	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.31	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.45	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.62	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.92	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.11	Endrin aldehyde	639	6.10e-04	1	10	1.000	1.000	0.100000	0.006099	0.0000	-----
10.48	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.81	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.13	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
12.41	Decachlorobiphenyl	49908	0.040459	1	10	1.000	1.000	0.100000	0.404594	0.4000	101.1

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK61(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK61

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150608A016

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/08/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.0046	J
8001-35-2	Toxaphene	5.0	U

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:16:51
Operator	: sagers	Sample Name	: PIBLK61
Sample Number	: 016	Study	: 26387
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/08/2015 19:05:49	Dilution Factor	: 1.00
		Cycle	: 15

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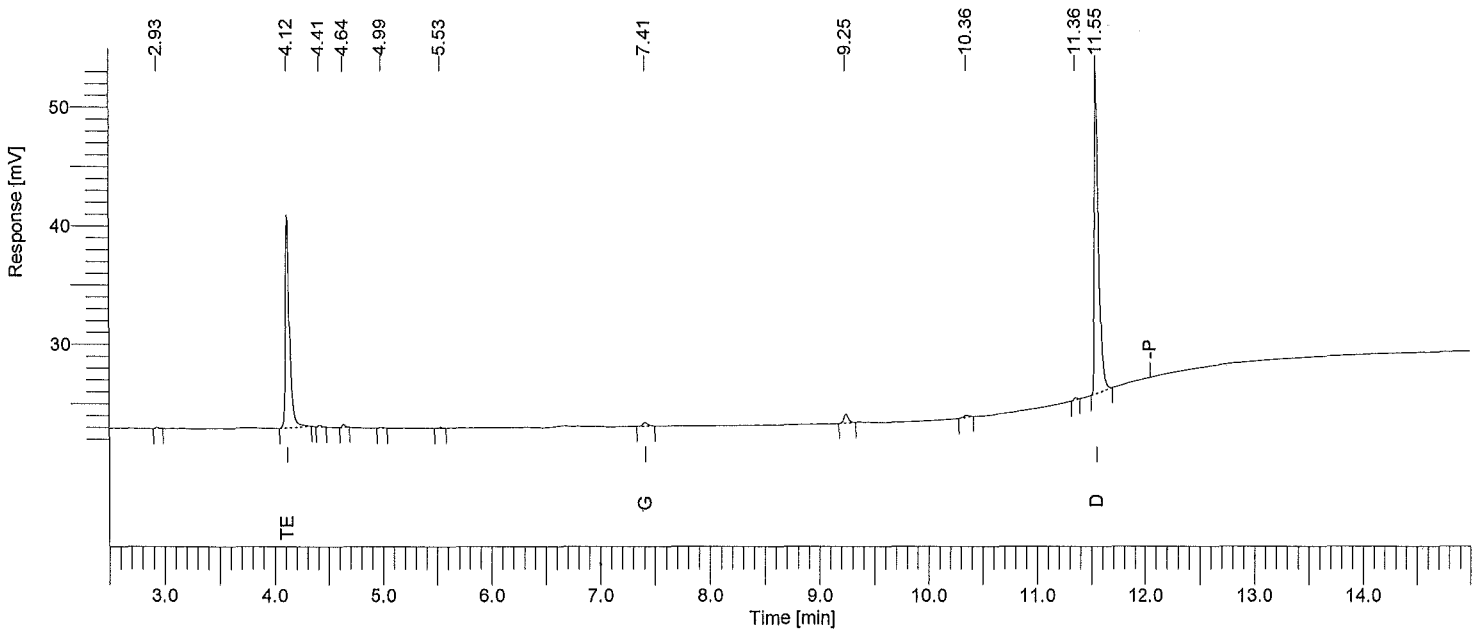

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.12	Tetrachloro-m-xylene	46156	0.020422	1	10	1.000	1.000	0.050000	0.204216	0.2000	102.1
4.87	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.30	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.42	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.67	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.96	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.39	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.26	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.41	gamma-Chlordane	1078	4.55e-04	1	10	1.000	1.000	0.050000	0.004554	0.0000	-----
7.62	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.73	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.82	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.17	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.51	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.60	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.83	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.00	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.45	Endrin aldehyde	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.70	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.07	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.44	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.55	Decachlorobiphenyl	71543	0.038935	1	10	1.000	1.000	0.100000	0.389352	0.4000	97.3

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK62(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK62

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150608B016

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/08/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.0022	J
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.0036	J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Software Version	: 6.3.1.0504	Date	: 06/09/2015 11:18:44
Operator	: sagers	Sample Name	: PIBLK62
Sample Number	: 016	Study	: 26387
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/08/2015 19:26:13	Cycle	: 16

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_016.rst
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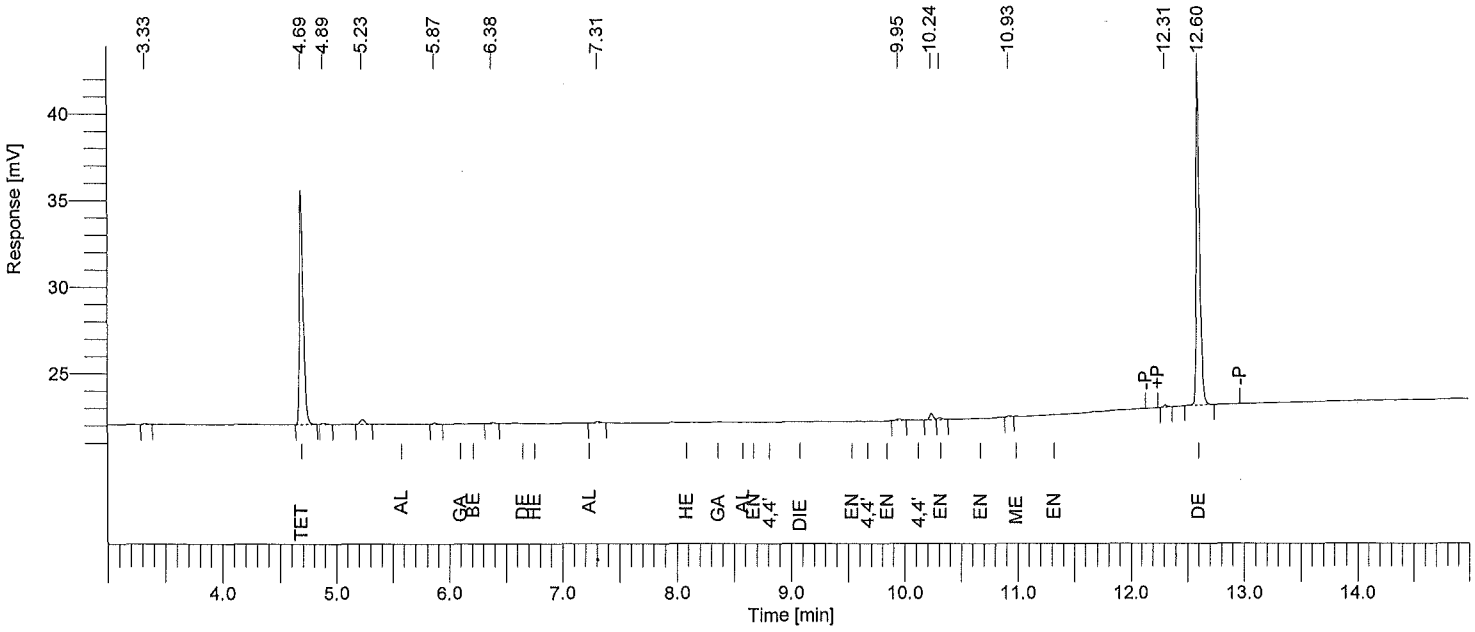

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.69	Tetrachloro-m-xylene	30844	0.020653	1	10	1.000	1.000	0.050000	0.206525	0.2000	103.3
5.58	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.10	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.21	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.65	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.75	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.24	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.08	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.36	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.58	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.67	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.81	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.08	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.54	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.67	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.85	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.12	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.31	Endrin aldehyde	303	3.56e-04	1	10	1.000	1.000	0.100000	0.003556	0.0000	-----
10.68	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.93	Methoxychlor	115	2.17e-04	1	10	1.000	1.000	0.500000	0.002173	0.0000	-----
11.32	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
12.60	Decachlorobiphenyl	43502	0.040927	1	10	1.000	1.000	0.100000	0.409269	0.4000	102.3

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK71(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK71

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150608A029

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/08/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.0022	J
8001-35-2	Toxaphene	5.0	U

Software Version : 6.3.1.0504
Reprocess Number : nasltw7087: 2207190
Operator : sagers
Sample Number : 029
AutoSampler : HP7673A
Instrument Name : GCE21
Instrument Serial # : None
Delay Time : 0.00 min
Sampling Rate : 5.0000 pts/s
Sample Volume : 1.000000
Sample Amount : 1.0000
Data Acquisition Time : 06/08/2015 23:31:41

Date : 06/09/2015 12:11:48

Sample Name : PIBLK71
Study : 26387
Rack/Vial : 0/29
Channel : A
A/D mV Range : 1000
End Time : 16.40 min

Area Reject : 0.000000
Dilution Factor : 1.00
Cycle : 1

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608A_029.rst
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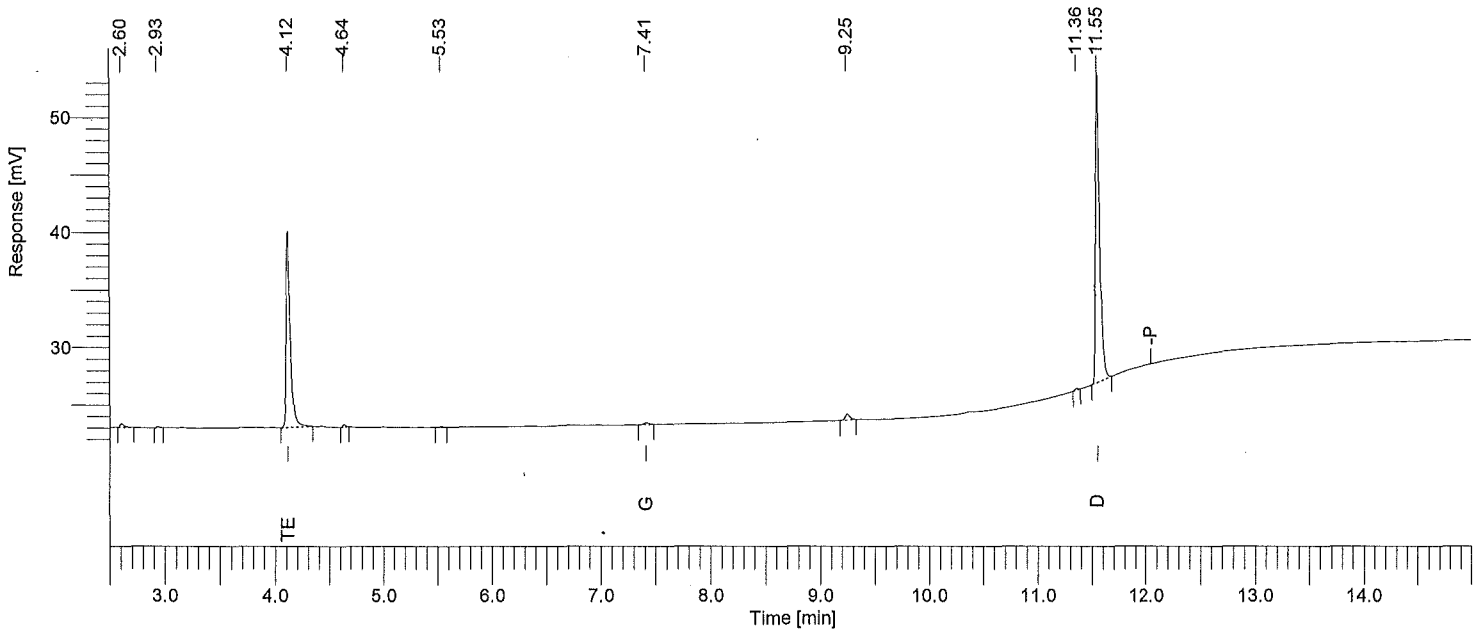

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.12	Tetrachloro-m-xylene	44283	0.019593	1	10	1.000	1.000	0.050000	0.195929	0.2000	98.0
4.87	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.30	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.42	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.67	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.96	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.39	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.26	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.41	gamma-Chlordane	530	2.24e-04	1	10	1.000	1.000	0.050000	0.002240	0.0000	-----
7.62	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.73	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.82	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.17	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.51	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.60	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.83	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.00	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.45	Endrin aldehyde	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.70	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.07	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.44	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.55	Decachlorobiphenyl	68731	0.037405	1	10	1.000	1.000	0.100000	0.374047	0.4000	93.5

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK72(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PIBLK72

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 21150608B029

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/08/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Software Version	: 6.3.1.0504	Date	: 06/09/2015 12:17:59
Operator	: sagers	Sample Name	: PIBLK72
Sample Number	: 029	Study	: 26387
AutoSampler	: HP7673A	Rack/Vial	: 0/29
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/08/2015 23:51:59	Cycle	: 1

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Proc Method : \\Alsltws012\TCCS\sagers\GCE21\21150608\21_som12_pest_b.mth from \\Alsltws012\TCCS\sagers\GCE21\21150608\21150608B_029.rst
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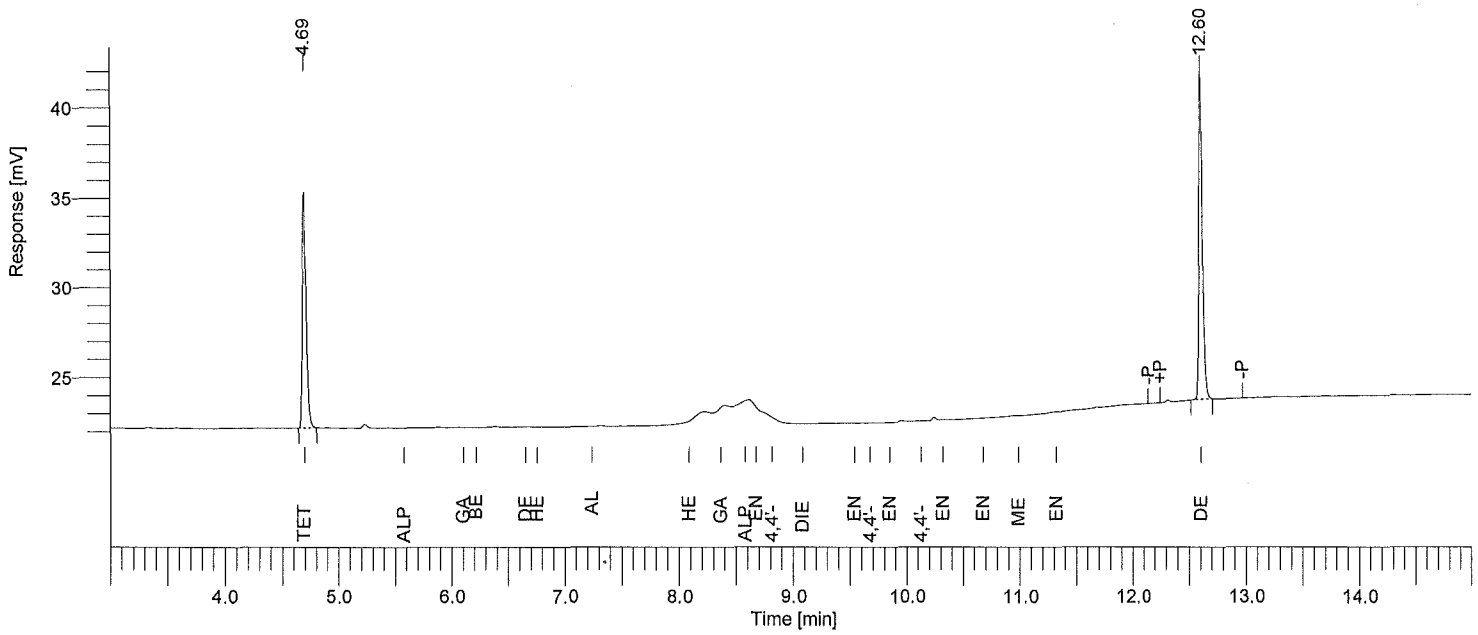

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.69	Tetrachloro-m-xylene	29573	0.019801	1	10	1.000	1.000	0.050000	0.198013	0.2000	99.0
5.58	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.10	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.21	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.65	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.75	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.24	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.08	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.36	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.58	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.67	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.81	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.08	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.54	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.67	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.85	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.12	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.32	Endrin aldehyde	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.68	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.99	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.32	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
12.60	Decachlorobiphenyl	40223	0.037843	1	10	1.000	1.000	0.100000	0.378425	0.4000	94.6

All analytes <CRQL.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L66MS(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293010

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21150604A029

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	0.45	JB
319-86-8	delta-BHC	0.36	JBP
58-89-9	gamma-BHC (Lindane)	17.	
76-44-8	Heptachlor	16.	B
309-00-2	Aldrin	17.	
1024-57-3	Heptachlor epoxide	0.56	J
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	29.	BP
72-55-9	4,4'-DDE	3.6	JP
72-20-8	Endrin	34.	
33213-65-9	Endosulfan II	0.22	JBP
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	0.22	J
50-29-3	4,4'-DDT	39.	
72-43-5	Methoxychlor	1.0	JP
53494-70-5	Endrin ketone	2.4	JB
7421-93-4	Endrin aldehyde	0.85	JBP
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.30	JBP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:31
Operator	: sagers	Sample Name	: 1514293010
Sample Number	: 029	Study	: F9L66MS
AutoSampler	: HP7673A	Rack/Vial	: 0/29
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 02:54:59	Dilution Factor	: 1.00
		Cycle	: 13

Raw Data File : \\Alsltws012\TCCS\sagers\GCE21\21150604\21150604A_029.raw <Modified>
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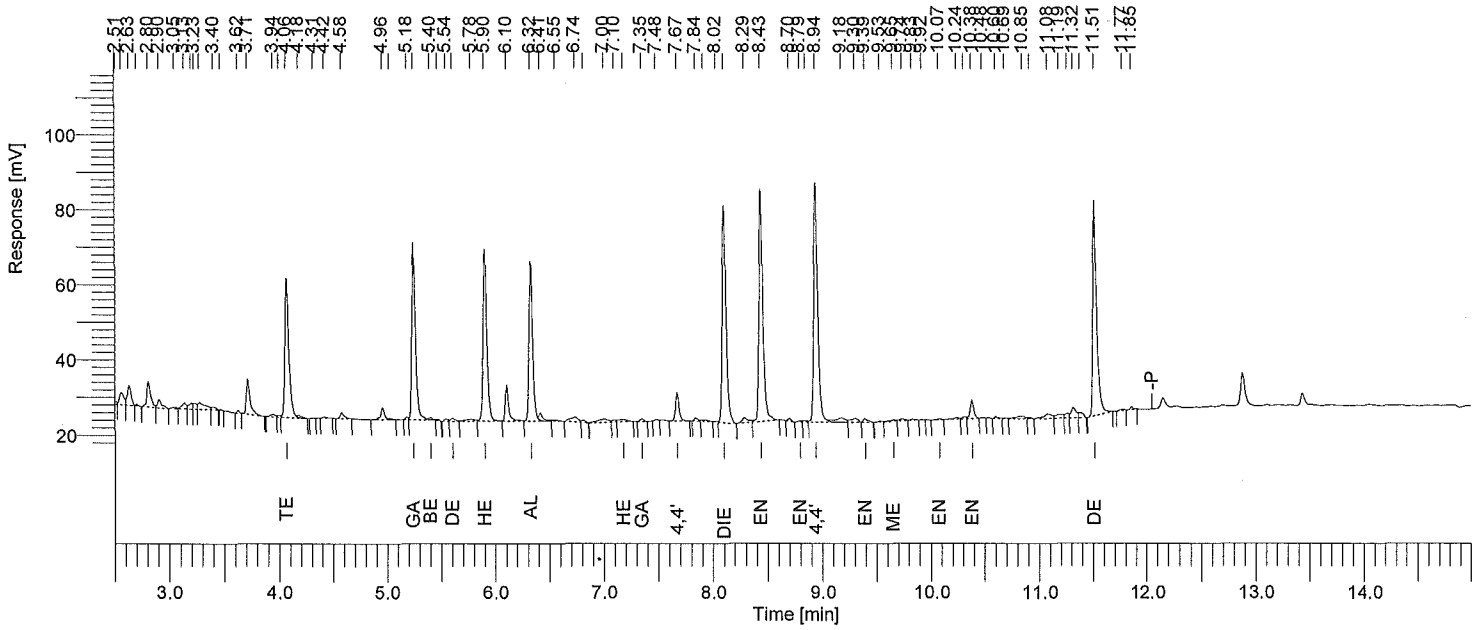

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.06	Tetrachloro-m-xylene	94292	0.04043483	1	10	0.03003	0.999	1.6650	13.46481	19.98	67.4
4.81	alpha-BHC	0	0.00000000	1	10	0.03003	0.999	----------	0.00000	--------	------
5.24	gamma-BHC	109573	0.04207201	1	10	0.03003	0.999	1.6650	14.00999	0.00	------
5.40	beta-BHC	1557	1.1488e-03	1	10	0.03003	0.999	1.6650	0.38254	0.00	------
5.60	delta-BHC	2214	9.1669e-04	1	10	0.03003	0.999	1.6650	0.30526	0.00	------
5.90	Heptachlor	111436	0.04175931	1	10	0.03003	0.999	1.6650	13.90586	0.00	------
6.32	Aldrin	100563	0.04323763	1	10	0.03003	0.999	1.6650	14.39814	0.00	------
7.18	Heptachlor epoxide	3108	1.4290e-03	1	10	0.03003	0.999	1.6650	0.47585	0.00	------
7.35	gamma-Chlordane	1775	7.6157e-04	1	10	0.03003	0.999	1.6650	0.25360	0.00	------
7.56	alpha-Chlordane	0	0.00000000	1	10	0.03003	0.999	----------	0.00000	--------	------
7.67	4,4'-DDE	16418	9.0742e-03	1	10	0.03003	0.999	3.3300	3.02171	0.00	------
7.76	Endosulfan I	0	0.00000000	1	10	0.03003	0.999	----------	0.00000	--------	------
8.10	Dieldrin	143317	0.07368528	1	10	0.03003	0.999	3.3300	24.53722	0.00	------
8.43	Endrin	156748	0.08701182	1	10	0.03003	0.999	3.3300	28.97496	0.00	------
8.53	4,4'-DDD	0	0.00000000	1	10	0.03003	0.999	----------	0.00000	--------	------
8.79	Endosulfan II	933	5.6324e-04	1	10	0.03003	0.999	3.3300	0.18756	0.00	------
8.94	4,4'-DDT	163387	0.09929058	1	10	0.03003	0.999	3.3300	33.06380	0.00	------
9.39	Endrin aldehyde	2995	2.1718e-03	1	10	0.03003	0.999	3.3300	0.72323	0.00	------
9.65	Methoxychlor	2143	2.6558e-03	1	10	0.03003	0.999	16.6500	0.88439	0.00	------
10.07	Endosulfan sulfate	809	5.5784e-04	1	10	0.03003	0.999	3.3300	0.18576	0.00	------
10.38	Endrin ketone	11165	6.1438e-03	1	10	0.03003	0.999	3.3300	2.04589	0.00	------
11.51	Decachlorobiphenyl	139534	0.09034152	1	10	0.03003	0.999	3.3300	30.08376	39.96	75.3

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L66MS(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293010

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21150604B029

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.078	J
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	0.46	JBP
58-89-9	gamma-BHC (Lindane)	18.	
76-44-8	Heptachlor	17.	B
309-00-2	Aldrin	15.	
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	37.	BP
72-55-9	4,4'-DDE	5.3	P
72-20-8	Endrin	37.	
33213-65-9	Endosulfan II	0.44	JBP
72-54-8	4,4'-DDD	0.50	J
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	37.	
72-43-5	Methoxychlor	0.21	JP
53494-70-5	Endrin ketone	2.5	JB
7421-93-4	Endrin aldehyde	1.6	JBP
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	1.6	JBP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:41
Operator	: sagers	Sample Name	: 1514293010
Sample Number	: 029	Study	: F9L66MS
AutoSampler	: HP7673A	Rack/Vial	: 0/29
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 03:15:20	Cycle	: 14

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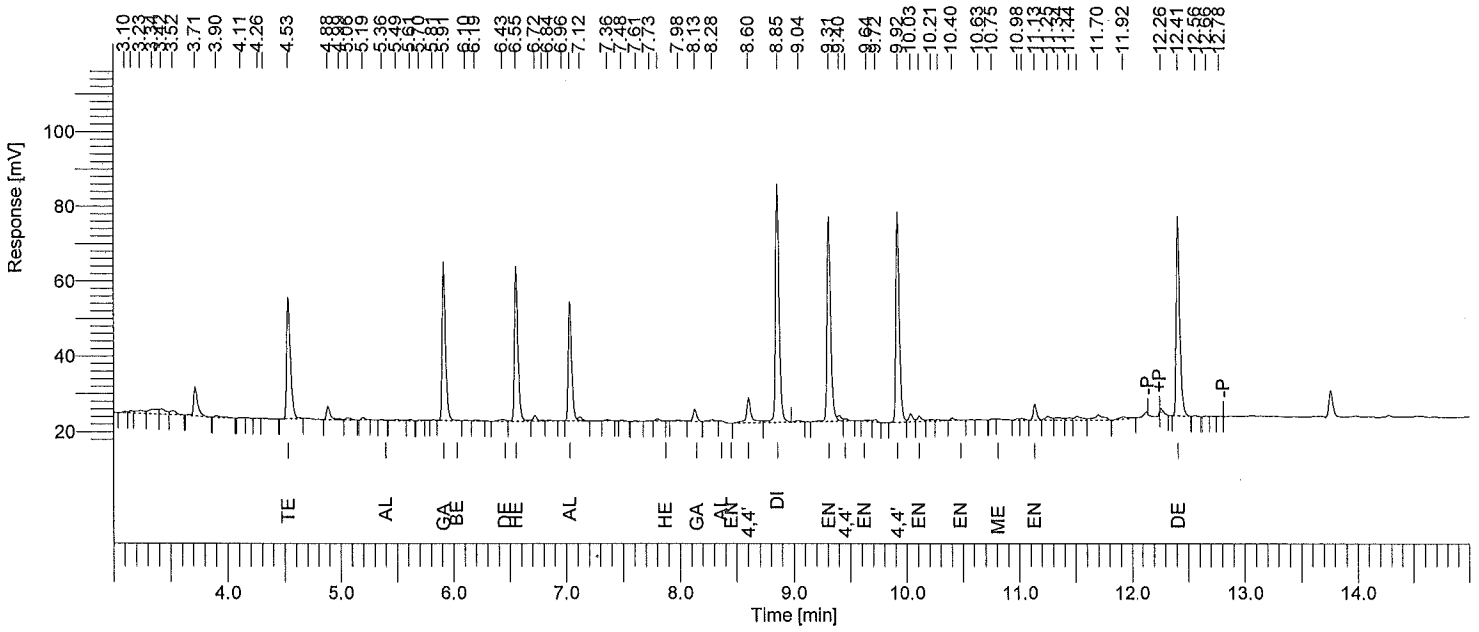

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.53	Tetrachloro-m-xylene	74438	0.04296164	1	10	0.03003	0.999	1.6650	14.30624	19.98	71.6
5.36	alpha-BHC	421	1.9928e-04	1	10	0.03003	0.999	1.6650	0.06636	0.00	------
5.91	gamma-BHC	87703	0.04506293	1	10	0.03003	0.999	1.6650	15.00597	0.00	------
6.03	beta-BHC	0	0.00000000	1	10	0.03003	0.999	---------	0.00000	--------	------
6.43	delta-BHC	1982	1.1648e-03	1	10	0.03003	0.999	1.6650	0.38789	0.00	------
6.55	Heptachlor	87853	0.04366807	1	10	0.03003	0.999	1.6650	14.54148	0.00	------
7.03	Aldrin	65734	0.03821210	1	10	0.03003	0.999	1.6650	12.72464	0.00	------
7.87	Heptachlor epoxide	0	0.00000000	1	10	0.03003	0.999	---------	0.00000	--------	------
8.13	gamma-Chlordane	6961	4.1308e-03	1	10	0.03003	0.999	1.6650	1.37555	0.00	------
8.36	alpha-Chlordane	0	0.00000000	1	10	0.03003	0.999	---------	0.00000	--------	------
8.45	Endosulfan I	0	0.00000000	1	10	0.03003	0.999	---------	0.00000	--------	------
8.60	4,4'-DDE	19562	0.01345584	1	10	0.03003	0.999	3.3300	4.48080	0.00	------
8.85	Dieldrin	141940	0.09374034	1	10	0.03003	0.999	3.3300	31.21556	0.00	------
9.31	Endrin	123843	0.09353201	1	10	0.03003	0.999	3.3300	31.14619	0.00	------
9.45	4,4'-DDD	1473	1.2800e-03	1	10	0.03003	0.999	3.3300	0.42625	0.00	------
9.64	Endosulfan II	1422	1.1210e-03	1	10	0.03003	0.999	3.3300	0.37331	0.00	------
9.92	4,4'-DDT	120047	0.09359108	1	10	0.03003	0.999	3.3300	31.16586	0.00	------
10.11	Endrin aldehyde	4195	4.0023e-03	1	10	0.03003	0.999	3.3300	1.33277	0.00	------
10.48	Endosulfan sulfate	0	0.00000000	1	10	0.03003	0.999	---------	0.00000	--------	------
10.75	Methoxychlor	333	5.2611e-04	1	10	0.03003	0.999	16.6500	0.17519	0.00	------
11.13	Endrin ketone	9066	6.3668e-03	1	10	0.03003	0.999	3.3300	2.12015	0.00	------
12.41	Decachlorobiphenyl	111622	0.09048867	1	10	0.03003	0.999	3.3300	30.13276	39.96	75.4

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L66MSD(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293011

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 21150604A030

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.13	JP
319-85-7	beta-BHC	0.29	JB
319-86-8	delta-BHC	0.14	JBP
58-89-9	gamma-BHC (Lindane)	12.	
76-44-8	Heptachlor	12.	B
309-00-2	Aldrin	13.	
1024-57-3	Heptachlor epoxide	0.38	J
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	23.	BP
72-55-9	4,4'-DDE	2.9	JP
72-20-8	Endrin	26.	
33213-65-9	Endosulfan II	0.19	JBP
72-54-8	4,4'-DDD	0.71	JP
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	31.	
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	2.2	JB
7421-93-4	Endrin aldehyde	1.0	JBP
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	0.25	JBP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:34
Operator	: sagers	Sample Name	: 1514293011
Sample Number	: 030	Study	: F9L66MSD
AutoSampler	: HP7673A	Rack/Vial	: 0/30
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 03:15:20	Dilution Factor	: 1.00
		Cycle	: 14

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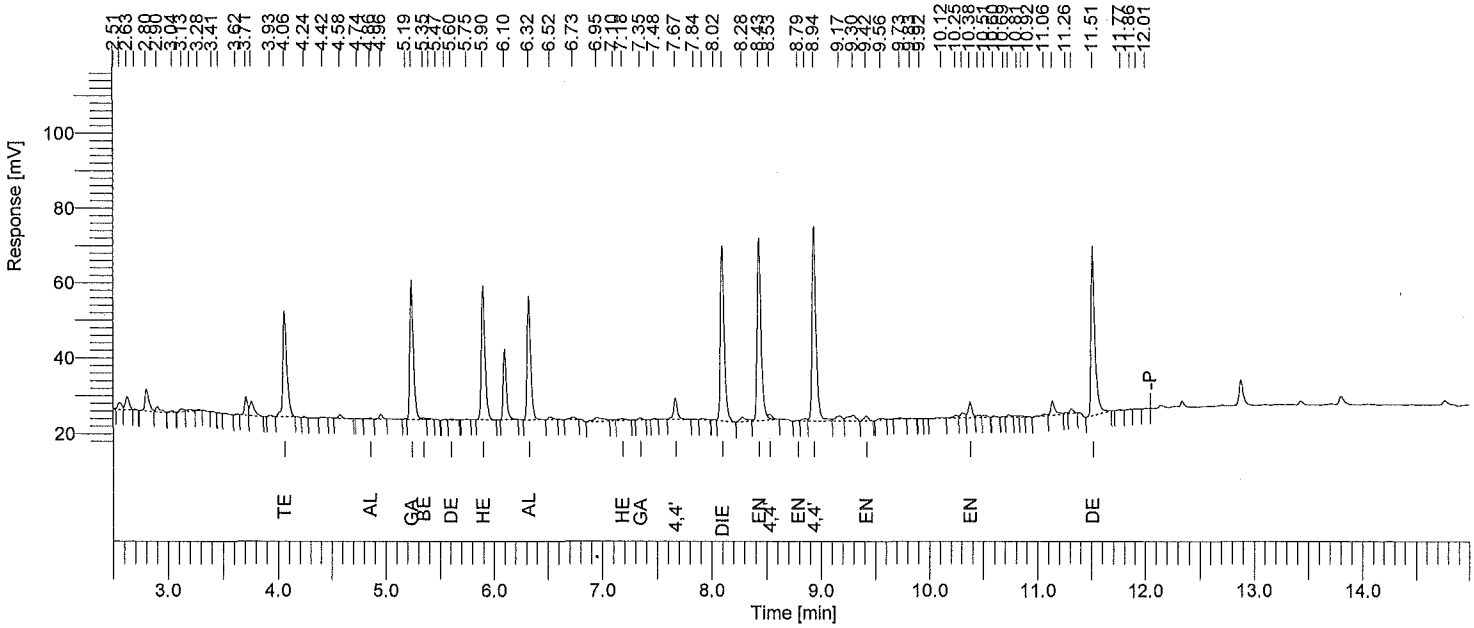

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.06	Tetrachloro-m-xylene	71796	0.03078820	1	10	0.03017	0.994	1.6573	10.20490	19.89	51.3
4.86	alpha-BHC	932	3.2925e-04	1	10	0.03017	0.994	1.6573	0.10913	0.00	------
5.24	gamma-BHC	83370	0.03201086	1	10	0.03017	0.994	1.6573	10.61016	0.00	------
5.35	beta-BHC	1012	7.4624e-04	1	10	0.03017	0.994	1.6573	0.24735	0.00	------
5.60	delta-BHC	852	3.5285e-04	1	10	0.03017	0.994	1.6573	0.11696	0.00	------
5.90	Heptachlor	84217	0.03155935	1	10	0.03017	0.994	1.6573	10.46051	0.00	------
6.32	Aldrin	76298	0.03280504	1	10	0.03017	0.994	1.6573	10.87340	0.00	------
7.18	Heptachlor epoxide	2137	9.8226e-04	1	10	0.03017	0.994	1.6573	0.32558	0.00	------
7.35	gamma-Chlordane	1518	6.5124e-04	1	10	0.03017	0.994	1.6573	0.21586	0.00	------
7.56	alpha-Chlordane	0	0.00000000	1	10	0.03017	0.994	----------	0.00000	--------	------
7.67	4,4'-DDE	13625	7.5309e-03	1	10	0.03017	0.994	3.3146	2.49614	0.00	------
7.76	Endosulfan I	0	0.00000000	1	10	0.03017	0.994	----------	0.00000	--------	------
8.10	Dieldrin	114830	0.05903899	1	10	0.03017	0.994	3.3146	19.56877	0.00	------
8.43	Endrin	122172	0.06781838	1	10	0.03017	0.994	3.3146	22.47875	0.00	------
8.53	4,4'-DDD	2697	1.8073e-03	1	10	0.03017	0.994	3.3146	0.59904	0.00	------
8.79	Endosulfan II	794	4.7917e-04	1	10	0.03017	0.994	3.3146	0.15882	0.00	------
8.94	4,4'-DDT	131847	0.08012379	1	10	0.03017	0.994	3.3146	26.55744	0.00	------
9.42	Endrin aldehyde	3540	2.5671e-03	1	10	0.03017	0.994	3.3146	0.85087	0.00	------
9.64	Methoxychlor	0	0.00000000	1	10	0.03017	0.994	----------	0.00000	--------	------
10.01	Endosulfan sulfate	0	0.00000000	1	10	0.03017	0.994	----------	0.00000	--------	------
10.38	Endrin ketone	10048	5.5293e-03	1	10	0.03017	0.994	3.3146	1.83271	0.00	------
11.51	Decachlorobiphenyl	111686	0.07231115	1	10	0.03017	0.994	3.3146	23.96790	39.77	60.3

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L66MSD(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293011

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 21150604B030

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	0.17	JP
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	0.29	JBP
58-89-9	gamma-BHC (Lindane)	13.	
76-44-8	Heptachlor	12.	B
309-00-2	Aldrin	11.	
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	30.	BP
72-55-9	4,4'-DDE	4.1	P
72-20-8	Endrin	28.	
33213-65-9	Endosulfan II	1.2	JBP
72-54-8	4,4'-DDD	1.7	JP
1031-07-8	Endosulfan sulfate	0.88	J
50-29-3	4,4'-DDT	29.	
72-43-5	Methoxychlor	4.4	J
53494-70-5	Endrin ketone	2.0	JB
7421-93-4	Endrin aldehyde	2.2	JBP
5103-71-9	alpha-Chlordane	0.59	J
5103-74-2	gamma-Chlordane	1.5	JBP
8001-35-2	Toxaphene	200	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:43
Operator	: sagers	Sample Name	: 1514293011
Sample Number	: 030	Study	: F9L66MSD
AutoSampler	: HP7673A	Rack/Vial	: 0/30
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 03:35:56	Dilution Factor	: 1.00
		Cycle	: 15

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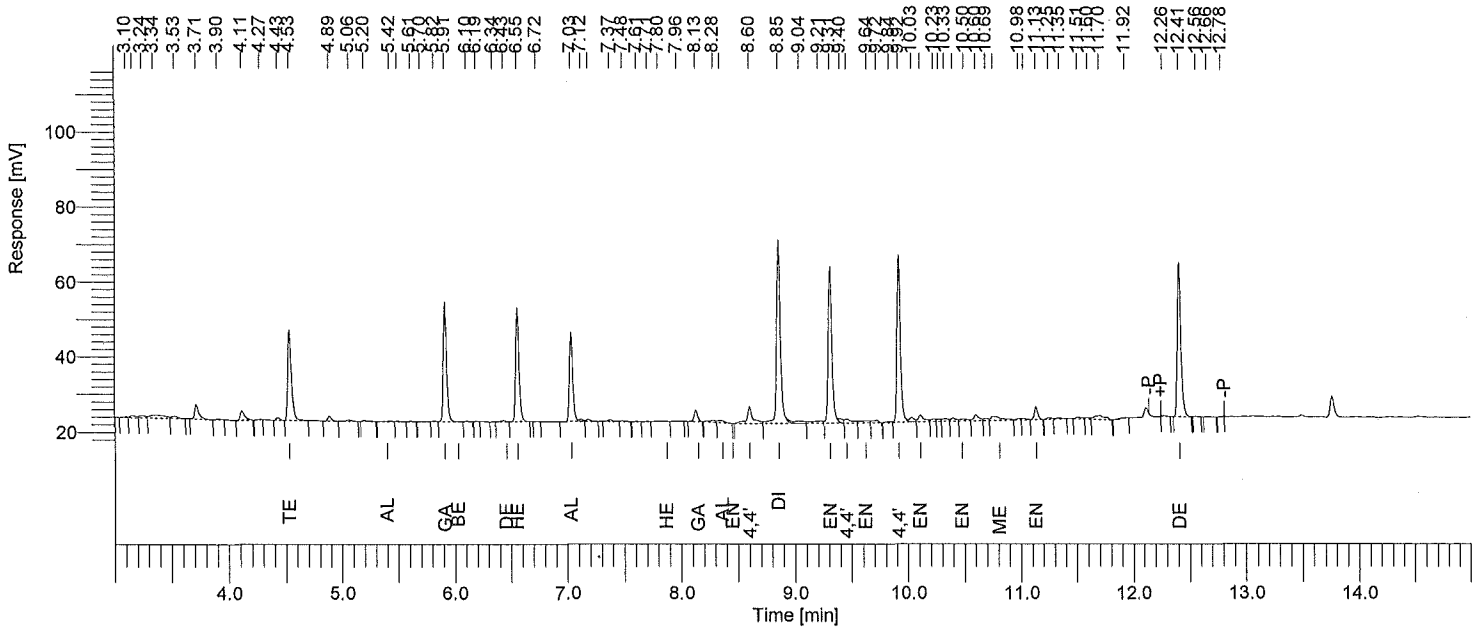

Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.53	Tetrachloro-m-xylene	55015	0.03175167	1	10	0.03017	0.994	1.6573	10.52425	19.89	52.9
5.42	alpha-BHC	917	4.3451e-04	1	10	0.03017	0.994	1.6573	0.14402	0.00	------
5.91	gamma-BHC	65151	0.03347543	1	10	0.03017	0.994	1.6573	11.09560	0.00	------
6.03	beta-BHC	0	0.00000000	1	10	0.03017	0.994	---------	0.00000	--------	------
6.43	delta-BHC	1260	7.4050e-04	1	10	0.03017	0.994	1.6573	0.24544	0.00	------
6.55	Heptachlor	63322	0.03147449	1	10	0.03017	0.994	1.6573	10.43238	0.00	------
7.03	Aldrin	48462	0.02817208	1	10	0.03017	0.994	1.6573	9.33778	0.00	------
7.87	Heptachlor epoxide	0	0.00000000	1	10	0.03017	0.994	---------	0.00000	--------	------
8.13	gamma-Chlordane	6354	3.7709e-03	1	10	0.03017	0.994	1.6573	1.24989	0.00	------
8.34	alpha-Chlordane	2518	1.5055e-03	1	10	0.03017	0.994	1.6573	0.49899	0.00	------
8.45	Endosulfan I	0	0.00000000	1	10	0.03017	0.994	---------	0.00000	--------	------
8.60	4,4'-DDE	15348	0.01055770	1	10	0.03017	0.994	3.3146	3.49940	0.00	------
8.85	Dieldrin	115011	0.07595576	1	10	0.03017	0.994	3.3146	25.17592	0.00	------
9.31	Endrin	96037	0.07253176	1	10	0.03017	0.994	3.3146	24.04102	0.00	------
9.46	4,4'-DDD	5115	4.4440e-03	1	10	0.03017	0.994	3.3146	1.47300	0.00	------
9.64	Endosulfan II	3804	2.9984e-03	1	10	0.03017	0.994	3.3146	0.99383	0.00	------
9.92	4,4'-DDT	95231	0.07424401	1	10	0.03017	0.994	3.3146	24.60855	0.00	------
10.11	Endrin aldehyde	5885	5.6150e-03	1	10	0.03017	0.994	3.3146	1.86111	0.00	------
10.50	Endosulfan sulfate	2515	2.2592e-03	1	10	0.03017	0.994	3.3146	0.74881	0.00	------
10.75	Methoxychlor	7087	0.01119770	1	10	0.03017	0.994	16.5728	3.71154	0.00	------
11.13	Endrin ketone	7335	5.1513e-03	1	10	0.03017	0.994	3.3146	1.70741	0.00	------
12.41	Decachlorobiphenyl	85939	0.06966873	1	10	0.03017	0.994	3.3146	23.09206	39.77	58.1

One surrogate 30-150% for field samples, both for method blank.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSS1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 448475

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21150604A019

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/04/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	0.057	JB
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.3	J
76-44-8	Heptachlor	0.078	JB
309-00-2	Aldrin	0.098	J
1024-57-3	Heptachlor epoxide	1.6	J
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.1	JB
72-55-9	4,4'-DDE	3.1	J
72-20-8	Endrin	3.4	P
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	2.8	J
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	0.020	JBP
7421-93-4	Endrin aldehyde	0.24	JBP
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	JB
8001-35-2	Toxaphene	170	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:55:09
Operator	: sagers	Sample Name	: 448475
Sample Number	: 019	Study	: PLCSS1
AutoSampler	: HP7673A	Rack/Vial	: 0/19
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/04/2015 23:31:08	Cycle	: 3

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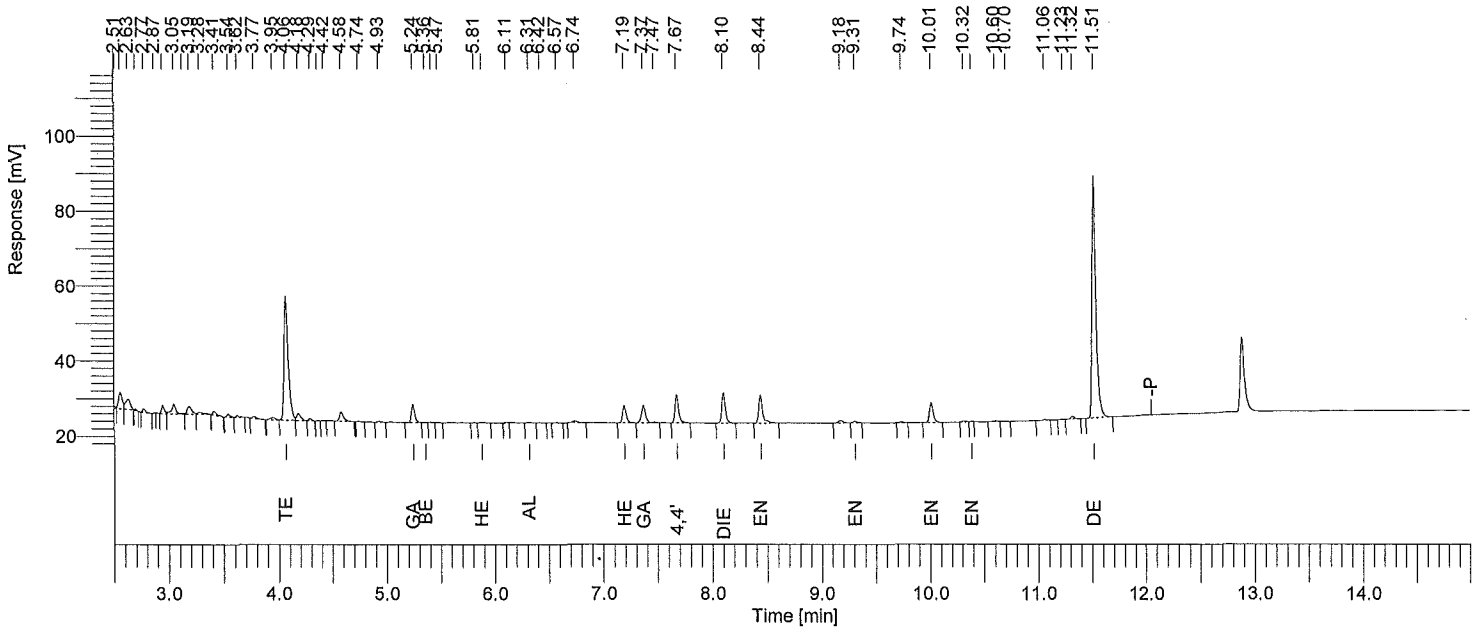

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL LCS REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Spike Targ ug/kg	Rec %
4.06	Tetrachloro-m-xylene	88102	0.03778057	1	10	0.03000	1.000	1.6667	12.59352	20.00	63.0
4.81	alpha-BHC	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
5.24	gamma-BHC	10032	3.8520e-03	1	10	0.03000	1.000	1.6667	1.28399	1.67	77.0
5.36	beta-BHC	232	1.7117e-04	1	10	0.03000	1.000	1.6667	0.05706	0.00	-----
5.61	delta-BHC	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
5.88	Heptachlor	624	2.3386e-04	1	10	0.03000	1.000	1.6667	0.07795	0.00	-----
6.31	Aldrin	684	2.9422e-04	1	10	0.03000	1.000	1.6667	0.09807	0.00	-----
7.19	Heptachlor epoxide	10419	4.7900e-03	1	10	0.03000	1.000	1.6667	1.59668	1.67	95.8
7.37	gamma-Chlordane	11821	5.0727e-03	1	10	0.03000	1.000	1.6667	1.69089	1.67	101.5
7.56	alpha-Chlordane	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
7.67	4,4'-DDE	16761	9.2641e-03	1	10	0.03000	1.000	3.3333	3.08802	3.33	92.6
7.76	Endosulfan I	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
8.10	Dieldrin	18303	9.4104e-03	1	10	0.03000	1.000	3.3333	3.13679	3.33	94.1
8.44	Endrin	18288	0.01015187	1	10	0.03000	1.000	3.3333	3.38396	3.33	101.5
8.53	4,4'-DDD	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
8.76	Endosulfan II	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
8.94	4,4'-DDT	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
9.31	Endrin aldehyde	1005	7.2859e-04	1	10	0.03000	1.000	3.3333	0.24286	0.00	-----
9.64	Methoxychlor	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
10.01	Endosulfan sulfate	12037	8.2953e-03	1	10	0.03000	1.000	3.3333	2.76509	3.33	83.0
10.38	Endrin ketone	107	5.8916e-05	1	10	0.03000	1.000	3.3333	0.01964	0.00	-----
11.51	Decachlorobiphenyl	156529	0.10134480	1	10	0.03000	1.000	3.3333	33.78160	40.00	84.5

Surrogates 30 to 150%. g-BHC, Endrin, Endosulfan sulfate 50-120%. Dieldren, g-Chlordane 30-130%. Heptachlor Epoxide, DDE 50-150%. Aroclors 50-150%.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSS1(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 448475

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21150604B019

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/04/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	0.022	JB
58-89-9	gamma-BHC (Lindane)	1.3	J
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.4	J
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.0	JB
72-55-9	4,4'-DDE	2.7	J
72-20-8	Endrin	2.7	JP
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	2.5	J
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	0.25	J
53494-70-5	Endrin ketone	0.11	JBP
7421-93-4	Endrin aldehyde	0.50	JBP
5103-71-9	alpha-Chlordane	0.092	J
5103-74-2	gamma-Chlordane	1.4	JB
8001-35-2	Toxaphene	170	U

Software Version	: 6.3.1.0504	Date	: 06/05/2015 13:56:19
Operator	: sagers	Sample Name	: 448475
Sample Number	: 019	Study	: PLCSS1
AutoSampler	: HP7673A	Rack/Vial	: 0/19
Instrument Name	: GCE21	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/04/2015 23:51:28	Dilution Factor	: 1.00
		Cycle	: 4

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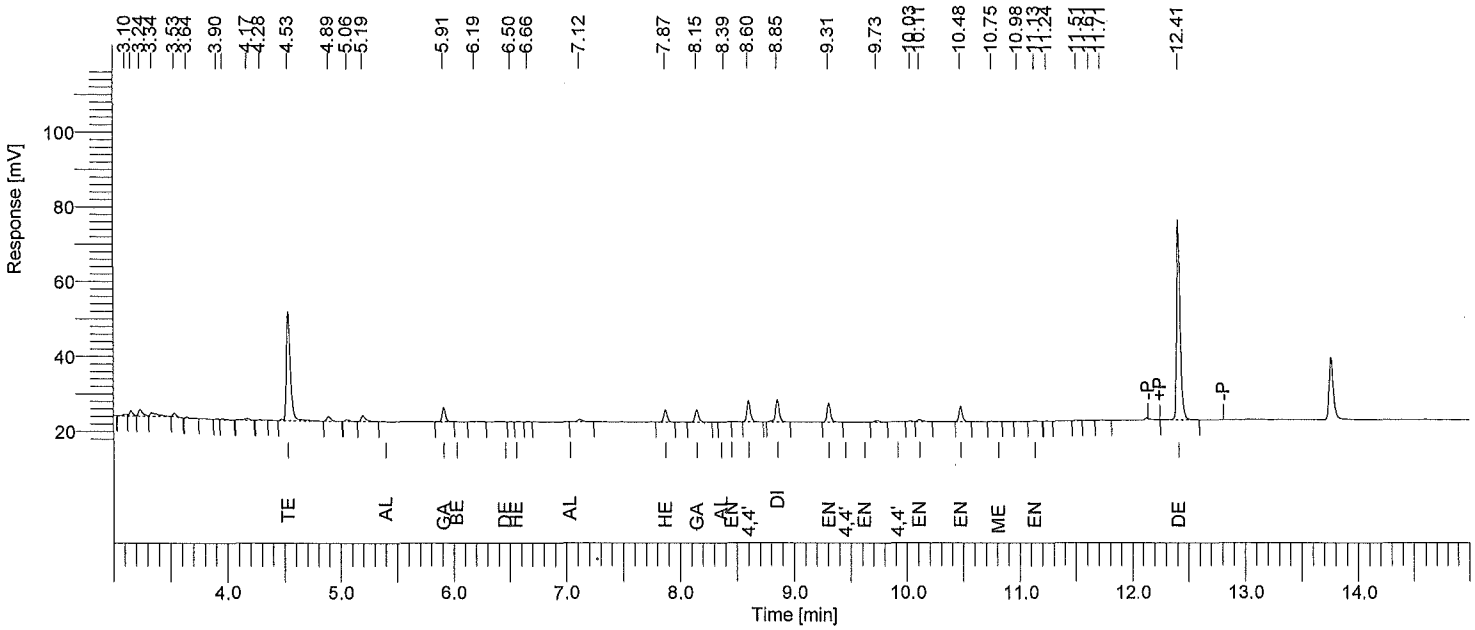


Instrument ID: GC21B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL LCS REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Spike Targ ug/kg	Rec %
4.53	Tetrachloro-m-xylene	71866	0.04147702	1	10	0.03000	1.000	1.6667	13.82567	20.00	69.1
5.40	alpha-BHC	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
5.91	gamma-BHC	7668	3.9399e-03	1	10	0.03000	1.000	1.6667	1.31329	1.67	78.8
6.03	beta-BHC	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
6.50	delta-BHC	113	6.6256e-05	1	10	0.03000	1.000	1.6667	0.02209	0.00	-----
6.55	Heptachlor	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
7.03	Aldrin	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
7.87	Heptachlor epoxide	6772	4.2276e-03	1	10	0.03000	1.000	1.6667	1.40921	1.67	84.6
8.15	gamma-Chlordane	7230	4.2909e-03	1	10	0.03000	1.000	1.6667	1.43029	1.67	85.8
8.39	alpha-Chlordane	461	2.7544e-04	1	10	0.03000	1.000	1.6667	0.09181	0.00	-----
8.45	Endosulfan I	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
8.60	4,4'-DDE	11778	8.1017e-03	1	10	0.03000	1.000	3.3333	2.70058	3.33	81.0
8.85	Dieldrin	13560	8.9554e-03	1	10	0.03000	1.000	3.3333	2.98513	3.33	89.6
9.31	Endrin	10709	8.0882e-03	1	10	0.03000	1.000	3.3333	2.69607	3.33	80.9
9.45	4,4'-DDD	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
9.62	Endosulfan II	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
9.92	4,4'-DDT	0	0.00000000	1	10	0.03000	1.000	--------	0.00000	--------	-----
10.11	Endrin aldehyde	1587	1.5144e-03	1	10	0.03000	1.000	3.3333	0.50479	0.00	-----
10.48	Endosulfan sulfate	8279	7.4370e-03	1	10	0.03000	1.000	3.3333	2.47899	3.33	74.4
10.75	Methoxychlor	481	7.6029e-04	1	10	0.03000	1.000	16.6667	0.25343	0.00	-----
11.13	Endrin ketone	463	3.2544e-04	1	10	0.03000	1.000	3.3333	0.10848	0.00	-----
12.41	Decachlorobiphenyl	114342	0.09269406	1	10	0.03000	1.000	3.3333	30.89802	40.00	77.2

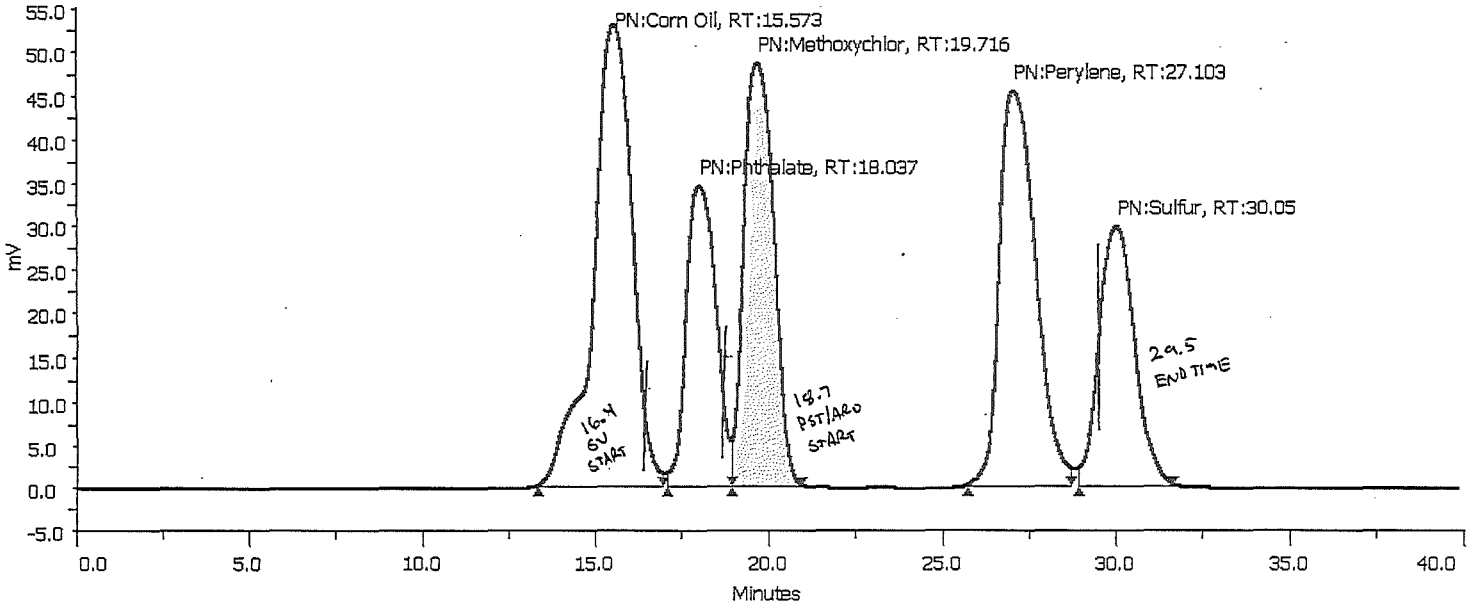
Surrogates 30 to 150%. g-BHC, Endrin, Endosulfan sulfate 50-120%. Dieldren, g-Chlordane 30-130%. Heptachlor Epoxide, DDE 50-150%. Aroclors 50-150%.

Graph

Sample Name	GPC 6 Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	7
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 6 TRACE
SOMO 1.2/2.2
5/19/15
Lyle Edwards
STD # 195WS38823

App: ALS GPC Methods Small FC, Run: 05192015-072841 @ 5/19/2015 7:28:45 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC 6 Weekly	Sample Zone->1	Corn Oil	13.347	15.573	6918660.8333	52.86	0	90.744
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.107	18.037	3413118.75	34.35	90.744	87.116
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	18.962	19.716	4843820	48.35	87.116	296.836
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.777	27.103	5473534.5833	45.19	296.836	103.771
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.947	30.05	3544075	29.64	103.771	0

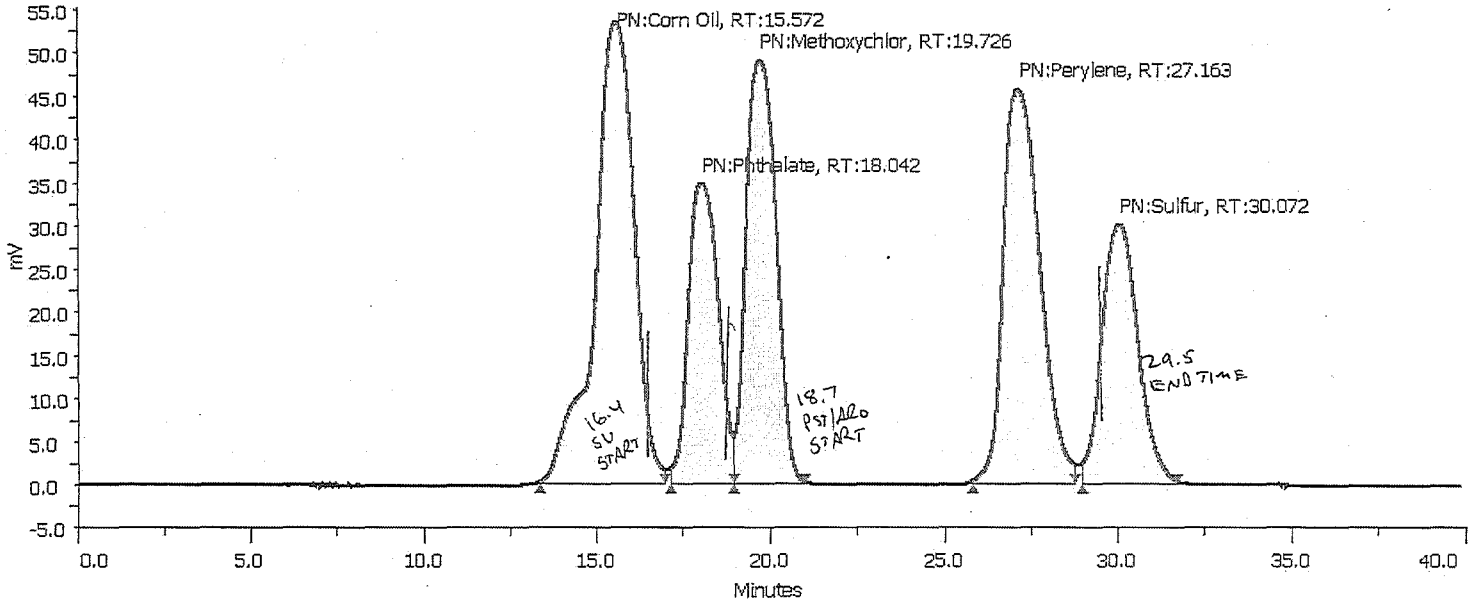
Run Variables

Graph

Sample Name	GPC 6 Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	7
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 6 TRACE
Somo 1.2/2.2
5/25/15
Lyle Edmonds
STD# 195WS38823

App: ALS GPC Methods Small FC, Run: 05252015-065257 @ 5/25/2015 6:53:02 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC 6 Weekly	Sample Zone->1	Corn Oil	13.345	15.572	6981755.4167	53.19	0	90.823
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.114	18.042	3453661.6667	34.59	90.823	87.338
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	18.968	19.726	4909087.5	48.69	87.338	298.745
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.829	27.163	5531085.8333	45.32	298.745	102.496
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.983	30.072	3584026.25	29.85	102.496	0

Run Variables

Software Version	: 6.3.1.0504	Date	: 06/10/2015 09:10:19
Operator	: sagers	Sample Name	: GPC6PST0525
Sample Number	: 018	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 0/18
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 05/28/2015 16:45:28	Dilution Factor	: 1.00
		Cycle	: 2

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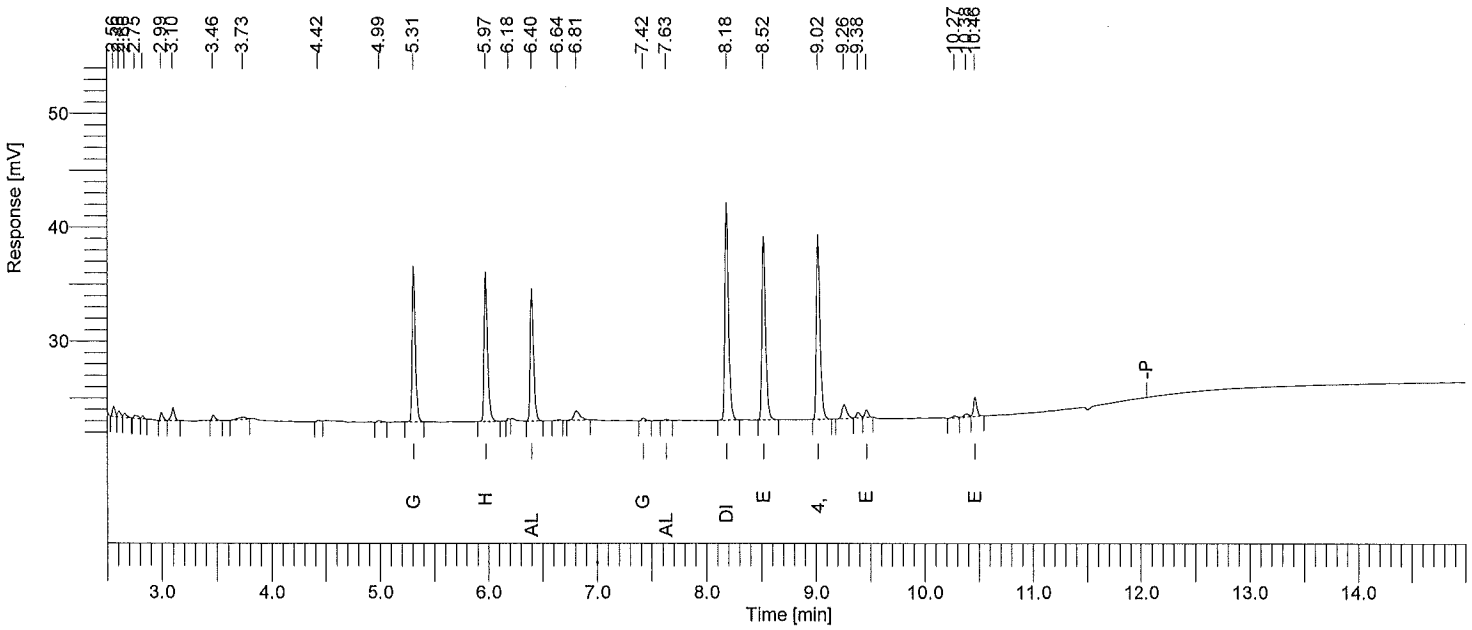

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO GPC CV REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/L	Target Amt ug/L	Recovery %
4.12	Tetrachloro-m-xylene	0	0.0000000	0.0000000	----------	------
4.87	alpha-BHC	0	0.0000000	0.0000000	----------	------
5.31	gamma-BHC	27627	0.0098051	0.0980506	0.1000000	98.1
5.43	beta-BHC	0	0.0000000	0.0000000	----------	------
5.67	delta-BHC	0	0.0000000	0.0000000	----------	------
5.97	Heptachlor	29036	0.0098188	0.0981883	0.1000000	98.2
6.40	Aldrin	24891	0.0097816	0.0978161	0.1000000	97.8
7.27	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
7.42	gamma-Chlordane	612	0.0002476	0.0024755	0.1000000	2.5
7.63	alpha-Chlordane	283	0.0001104	0.0011036	0.1000000	1.1
7.75	4,4'-DDE	0	0.0000000	0.0000000	----------	------
7.83	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.18	Dieldrin	44481	0.0196439	0.1964386	0.2000000	98.2
8.52	Endrin	37491	0.0180145	0.1801445	0.2000000	90.1
8.61	4,4'-DDD	0	0.0000000	0.0000000	----------	------
8.84	Endosulfan II	0	0.0000000	0.0000000	----------	------
9.02	4,4'-DDT	38138	0.0188160	0.1881602	0.2000000	94.1
9.46	Endrin aldehyde	1382	0.0007552	0.0075523	0.2000000	3.8
9.72	Methoxychlor	0	0.0000000	0.0000000	----------	------
10.09	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.46	Endrin ketone	3703	0.0016089	0.0160887	0.2000000	8.0
11.57	Decachlorobiphenyl	0	0.0000000	0.0000000	----------	------

Recoveries 80-110%.

Software Version	: 6.3.1.0504	Date	: 06/10/2015 09:10:22
Operator	: sagers	Sample Name	: GPC6BLK0525
Sample Number	: 019	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 0/19
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 05/28/2015 17:06:02	Cycle	: 3

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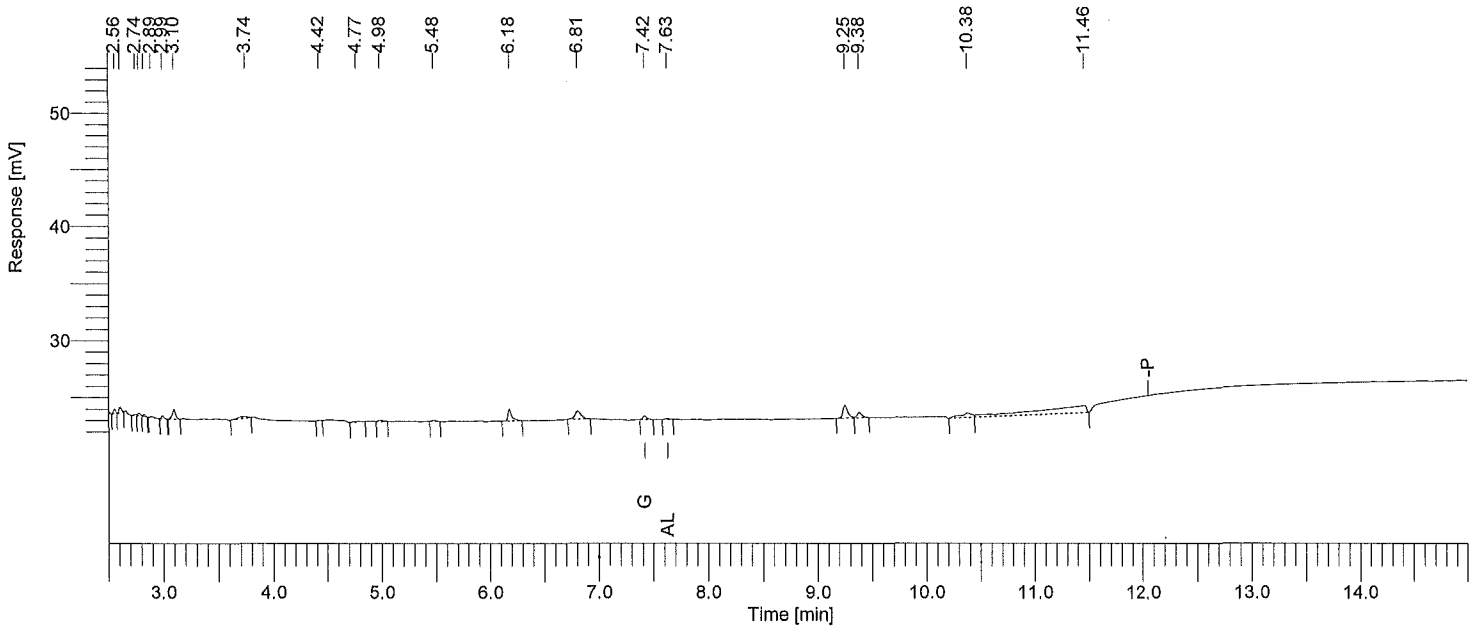

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO GPC BLK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L
4.12	Tetrachloro-m-xylene	0	0.000000000	1	10	1.000	1.000	--------	0.000000
4.87	alpha-BHC	0	0.000000000	1	10	1.000	1.000	--------	0.000000
5.31	gamma-BHC	0	0.000000000	1	10	1.000	1.000	--------	0.000000
5.43	beta-BHC	0	0.000000000	1	10	1.000	1.000	--------	0.000000
5.67	delta-BHC	0	0.000000000	1	10	1.000	1.000	--------	0.000000
5.97	Heptachlor	0	0.000000000	1	10	1.000	1.000	--------	0.000000
6.40	Aldrin	0	0.000000000	1	10	1.000	1.000	--------	0.000000
7.27	Heptachlor epoxide	0	0.000000000	1	10	1.000	1.000	--------	0.000000
7.42	gamma-Chlordane	809	3.27067e-04	1	10	1.000	1.000	0.050000	0.003271
7.63	alpha-Chlordane	265	1.03526e-04	1	10	1.000	1.000	0.050000	0.001035
7.75	4,4'-DDE	0	0.000000000	1	10	1.000	1.000	--------	0.000000
7.83	Endosulfan I	0	0.000000000	1	10	1.000	1.000	--------	0.000000
8.18	Dieldrin	0	0.000000000	1	10	1.000	1.000	--------	0.000000
8.52	Endrin	0	0.000000000	1	10	1.000	1.000	--------	0.000000
8.61	4,4'-DDD	0	0.000000000	1	10	1.000	1.000	--------	0.000000
8.84	Endosulfan II	0	0.000000000	1	10	1.000	1.000	--------	0.000000
9.02	4,4'-DDT	0	0.000000000	1	10	1.000	1.000	--------	0.000000
9.46	Endrin aldehyde	0	0.000000000	1	10	1.000	1.000	--------	0.000000
9.72	Methoxychlor	0	0.000000000	1	10	1.000	1.000	--------	0.000000
10.09	Endosulfan sulfate	0	0.000000000	1	10	1.000	1.000	--------	0.000000
10.46	Endrin ketone	0	0.000000000	1	10	1.000	1.000	--------	0.000000
11.57	Decachlorobiphenyl	0	0.000000000	1	10	1.000	1.000	--------	0.000000

All analytes <CRQL.

Software Version	: 6.3.1.0504	Date	: 06/10/2015 09:09:46
Operator	: sagers	Sample Name	: RESC11
Sample Number	: 004	Study	: 26384
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 05/28/2015 11:59:47	Cycle	: 3

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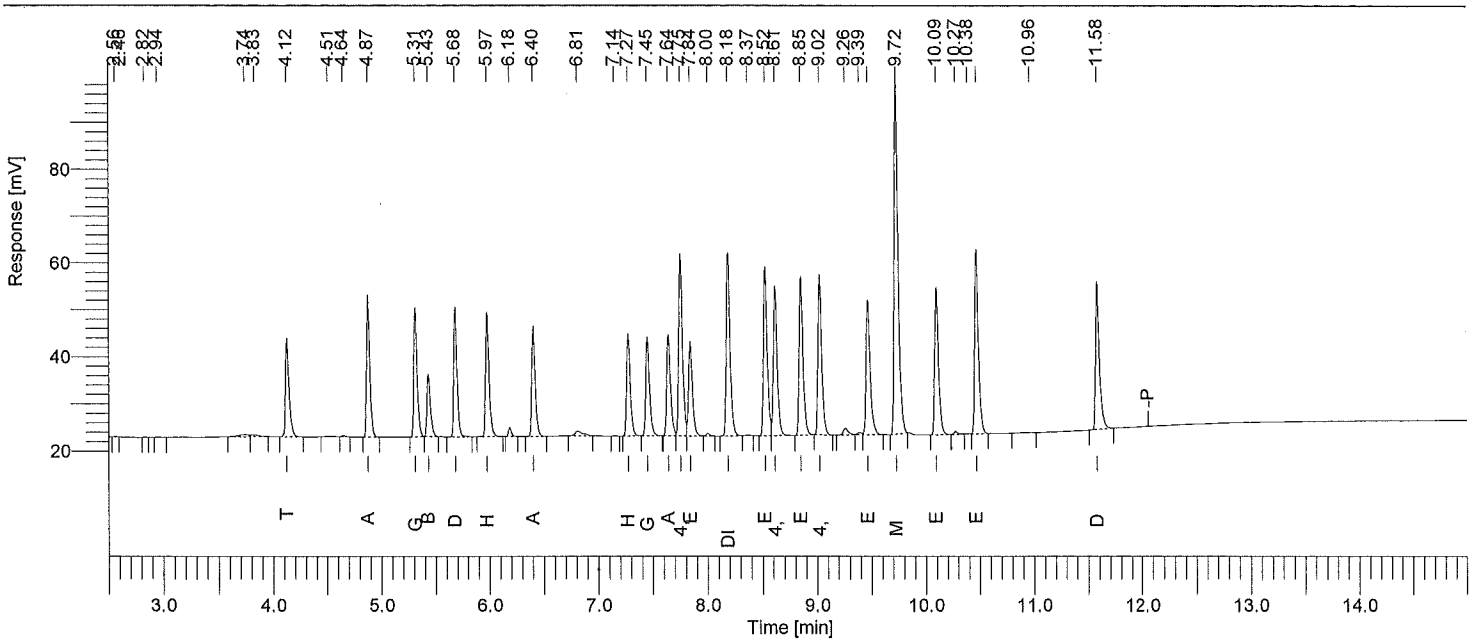

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	47271	0.0196554
4.87	alpha-BHC	61920	0.0205091
5.31	gamma-BHC	57499	0.0204067
5.43	beta-BHC	29362	0.0198807
5.68	delta-BHC	57920	0.0206797
5.97	Heptachlor	59683	0.0201825
6.40	Aldrin	51739	0.0203328
7.27	Heptachlor epoxide	50679	0.0203734
7.45	gamma-Chlordane	50141	0.0202820
7.64	alpha-Chlordane	51842	0.0202493
7.75	4,4'-DDE	90896	0.0415646
7.84	Endosulfan I	48718	0.0203023
8.18	Dieldrin	93400	0.0412478
8.52	Endrin	85486	0.0410760
8.61	4,4'-DDD	76555	0.0416860
8.85	Endosulfan II	83325	0.0408290
9.02	4,4'-DDT	82309	0.0406087
9.46	Endrin aldehyde	73965	0.0404222
9.72	Methoxychlor	189346	0.1923565
10.09	Endosulfan sulfate	75837	0.0407946
10.46	Endrin ketone	93314	0.0405400
11.58	Decachlorobiphenyl	75230	0.0394532

Software Version	: 6.3.1.0504	Date	: 06/10/2015 09:09:49
Operator	: sagers	Sample Name	: PEM11
Sample Number	: 005	Study	: 26388
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 05/28/2015 12:20:07	Dilution Factor	: 1.00
		Cycle	: 4

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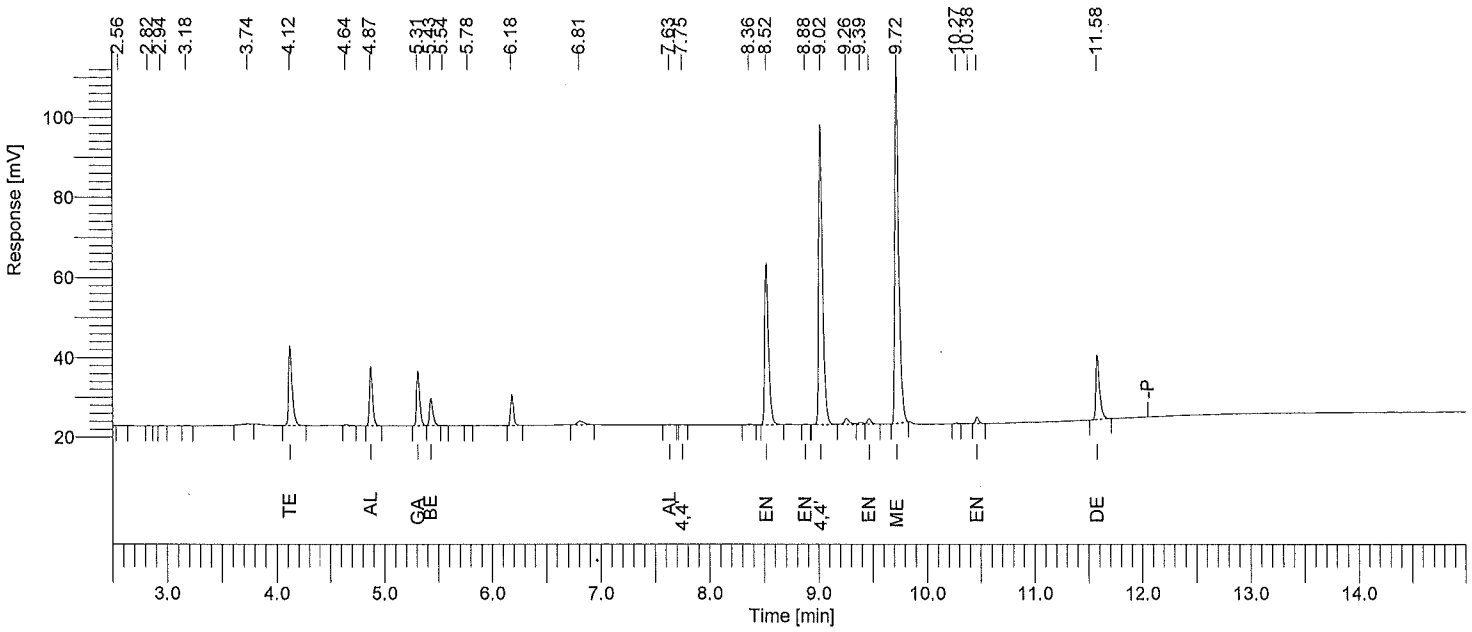

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.12	Tetrachloro-m-xylene	45362	0.0188618	0.0188618	0.02000	94.3
4.87	alpha-BHC	28949	0.0095884	0.0095884	0.01000	95.9
5.31	gamma-BHC	27732	0.0098422	0.0098422	0.01000	98.4
5.43	beta-BHC	15054	0.0101932	0.0101932	0.01000	101.9
5.67	delta-BHC	0	0.0000000	0.0000000	----------	------
5.97	Heptachlor	0	0.0000000	0.0000000	----------	------
6.40	Aldrin	0	0.0000000	0.0000000	----------	------
7.27	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
7.44	gamma-Chlordane	0	0.0000000	0.0000000	----------	------
7.63	alpha-Chlordane	391	0.0001526	0.0001526	0.00000	------
7.75	4,4'-DDE	196	0.0000898	0.0000898	0.10000	0.1
7.83	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.18	Dieldrin	0	0.0000000	0.0000000	----------	------
8.52	Endrin	99188	0.0476594	0.0476594	0.05000	95.3
8.61	4,4'-DDD	0	0.0000000	0.0000000	----------	------
8.88	Endosulfan II	261	0.0001281	0.0001281	0.00000	------
9.02	4,4'-DDT	187681	0.0925964	0.0925964	0.10000	92.6
9.46	Endrin aldehyde	3550	0.0019400	0.0019400	0.05000	3.9
9.72	Methoxychlor	221819	0.2253464	0.2253464	0.25000	90.1
10.09	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.46	Endrin ketone	3456	0.0015014	0.0015014	0.05000	3.0
11.58	Decachlorobiphenyl	38680	0.0202848	0.0202848	0.02000	101.4
			0.4381845			777.0

06/10/2015 09:09:49 Result: \\Alsltws012\TCCS\sagers\GCE21\21150528\21150528A_005.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
7.75	4,4'-DDE	196	0.0000898	0.0000898	0.10000	0.1
8.61	4,4'-DDD	0	0.0000000	0.0000000	----------	------
			0.0000898			0.1

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
9.46	Endrin aldehyde	3550	0.0019400	0.0019400	0.05000	3.9
10.46	Endrin ketone	3456	0.0015014	0.0015014	0.05000	3.0
			0.0034414			6.9

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/10/2015 09:09:51
Operator	: sagers	Sample Name	: TOXAPH111
Sample Number	: 006	Study	: 26377
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 05/28/2015 12:40:29	Dilution Factor	: 1.00
		Cycle	: 5

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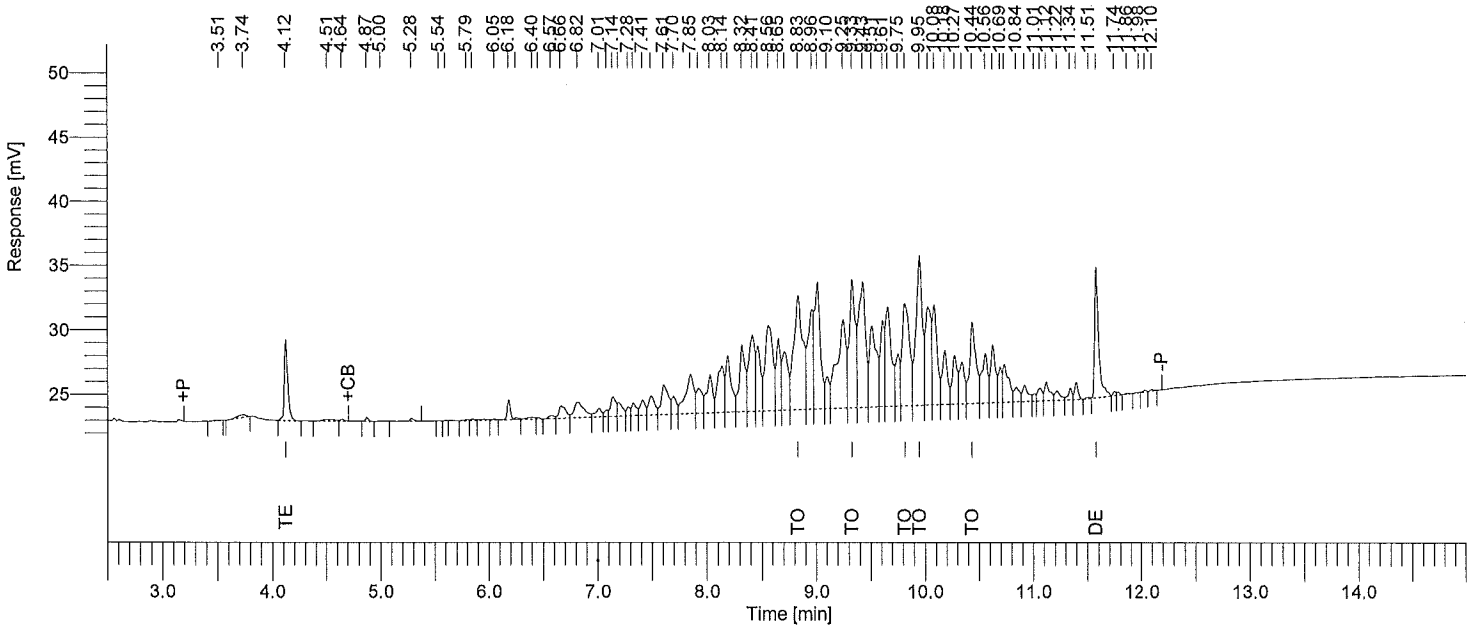

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	13949	0.0057041
8.83	Toxaphene-1	51176	0.5262068
9.33	Toxaphene-2	37209	0.5111992
9.82	Toxaphene-3	38779	0.4991125
9.95	Toxaphene-4	46075	0.5269195
10.44	Toxaphene-5	25835	0.4761201
11.58	Decachlorobiphenyl	26163	0.0114932

Software Version	: 6.3.1.0504	Date	: 06/10/2015 09:09:53
Operator	: sagers	Sample Name	: TOXAPH211
Sample Number	: 007	Study	: 26378
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 05/28/2015 13:01:03	Cycle	: 6

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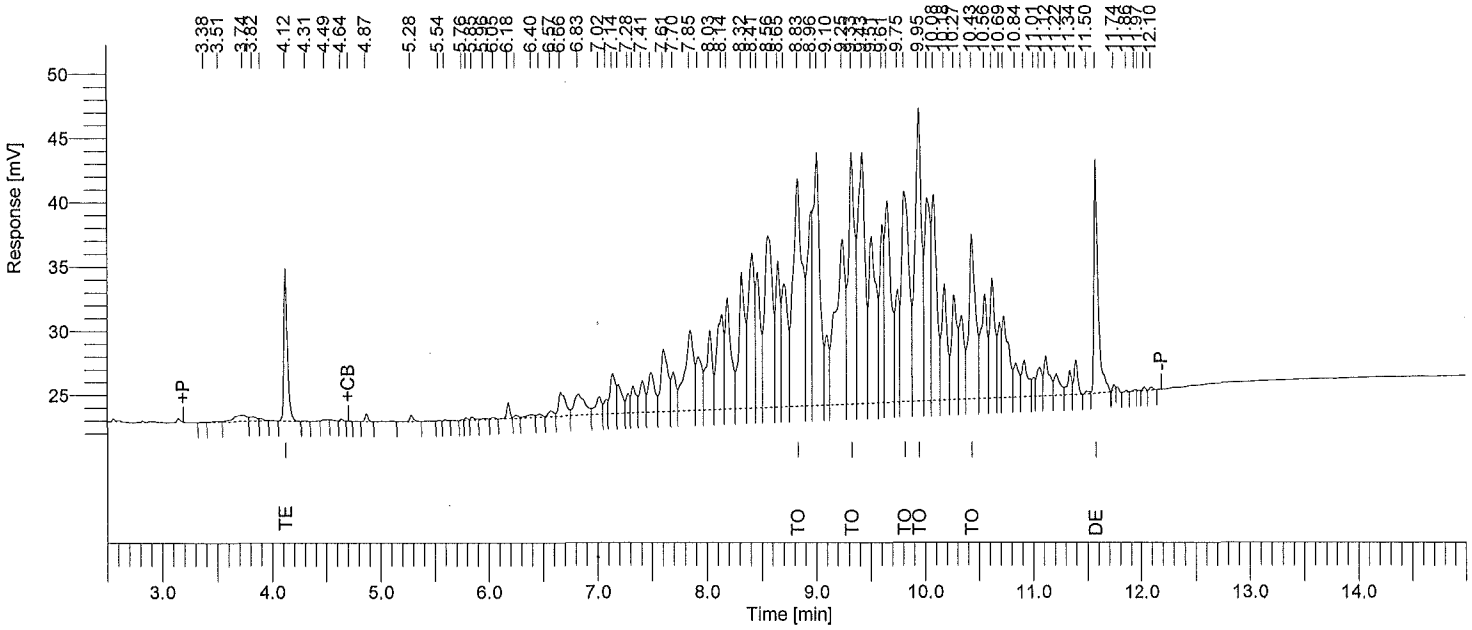

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	26558	0.0108600
8.83	Toxaphene-1	104780	1.0773892
9.33	Toxaphene-2	77774	1.0684969
9.81	Toxaphene-3	82408	1.0606354
9.95	Toxaphene-4	93794	1.0726423
10.43	Toxaphene-5	55538	1.0235182
11.58	Decachlorobiphenyl	47595	0.0209079

Software Version	: 6.3.1.0504	Date	: 06/10/2015 09:09:56
Operator	: sagers	Sample Name	: TOXAPH311
Sample Number	: 008	Study	: 26379
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 05/28/2015 13:21:23	Dilution Factor	: 1.00
		Cycle	: 7

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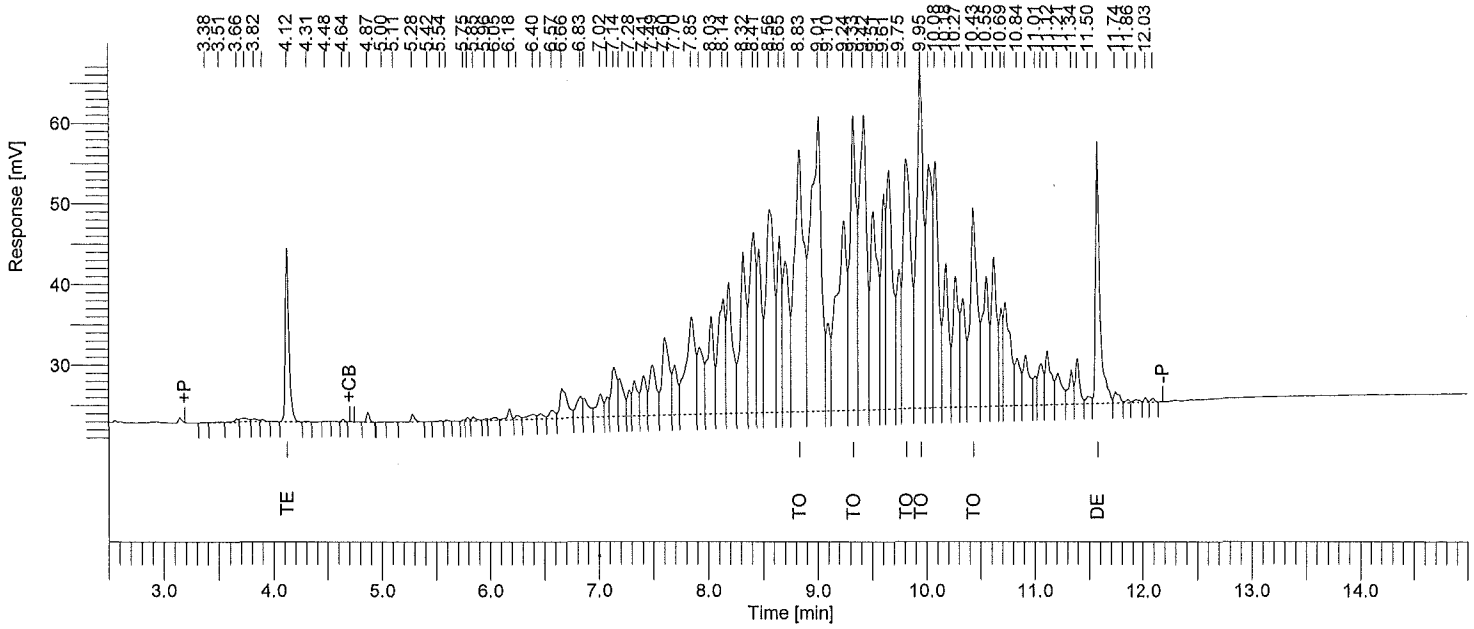

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.12	Tetrachloro-m-xylene	48980	0.0200288	0.0200288	0.0200000	100.1
8.83	Toxaphene-1	196808	2.0236608	2.0236608	2.0000000	101.2
9.33	Toxaphene-2	147548	2.0270892	2.0270892	2.0000000	101.4
9.81	Toxaphene-3	158561	2.0407693	2.0407693	2.0000000	102.0
9.95	Toxaphene-4	176676	2.0204920	2.0204920	2.0000000	101.0
10.43	Toxaphene-5	111448	2.0538855	2.0538855	2.0000000	102.7
11.58	Decachlorobiphenyl	89073	0.0391287	0.0391287	0.0400000	97.8

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/10/2015 09:09:58
Operator	: sagers	Sample Name	: TOXAPH411
Sample Number	: 009	Study	: 26380
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 05/28/2015 13:41:43	Cycle	: 8

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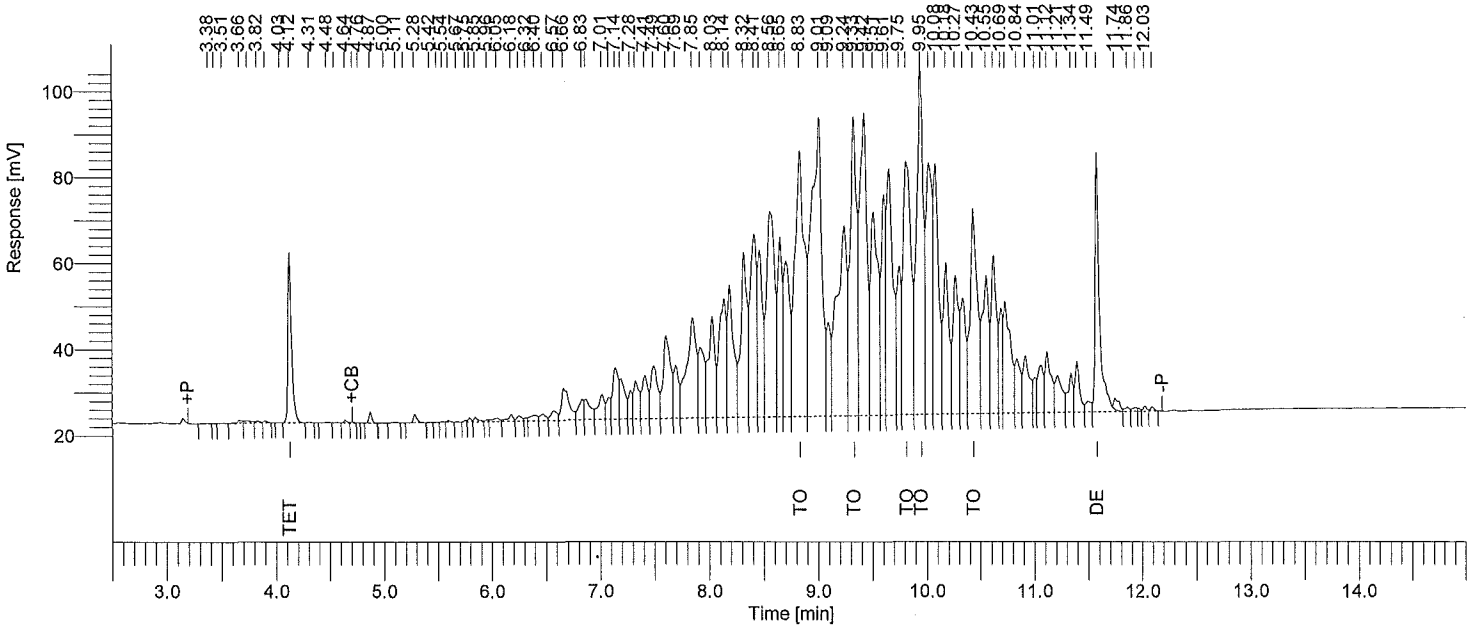

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	91318	0.0373413
8.83	Toxaphene-1	376971	3.8761629
9.33	Toxaphene-2	287970	3.9562678
9.81	Toxaphene-3	308780	3.9741702
9.95	Toxaphene-4	338555	3.8717657
10.43	Toxaphene-5	222540	4.1012069
11.57	Decachlorobiphenyl	172842	0.0759276

Software Version	: 6.3.1.0504	Date	: 06/10/2015 09:10:00
Operator	: sagers	Sample Name	: TOXAPH511
Sample Number	: 010	Study	: 26381
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 05/28/2015 14:02:04	Cycle	: 9

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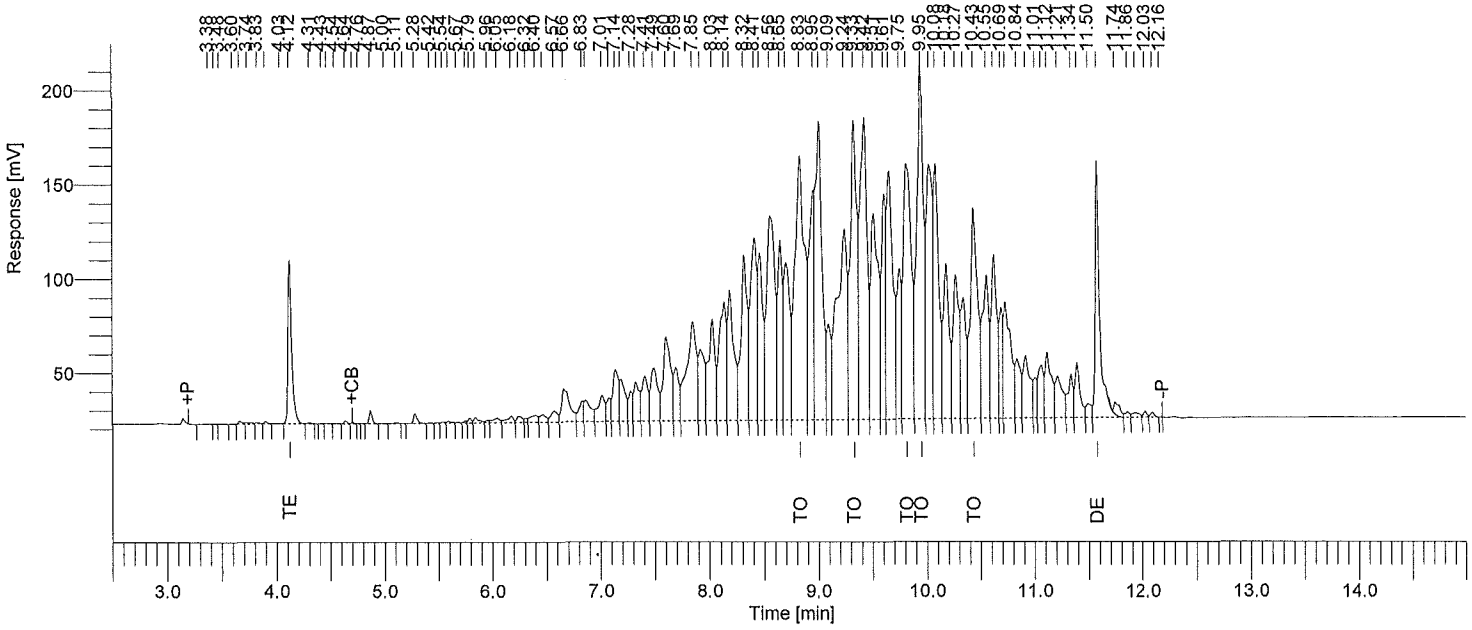

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	204982	0.0838201
8.83	Toxaphene-1	864902	8.8932617
9.33	Toxaphene-2	659820	9.0649313
9.81	Toxaphene-3	720414	9.2721227
9.95	Toxaphene-4	782895	8.9533118
10.43	Toxaphene-5	527427	9.7199711
11.57	Decachlorobiphenyl	399725	0.1755948

Software Version	: 6.3.1.0504	Date	: 06/10/2015 09:10:03
Operator	: sagers	Sample Name	: INDC111
Sample Number	: 011	Study	: 26382
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 05/28/2015 14:22:24	Dilution Factor	: 1.00
		Cycle	: 10

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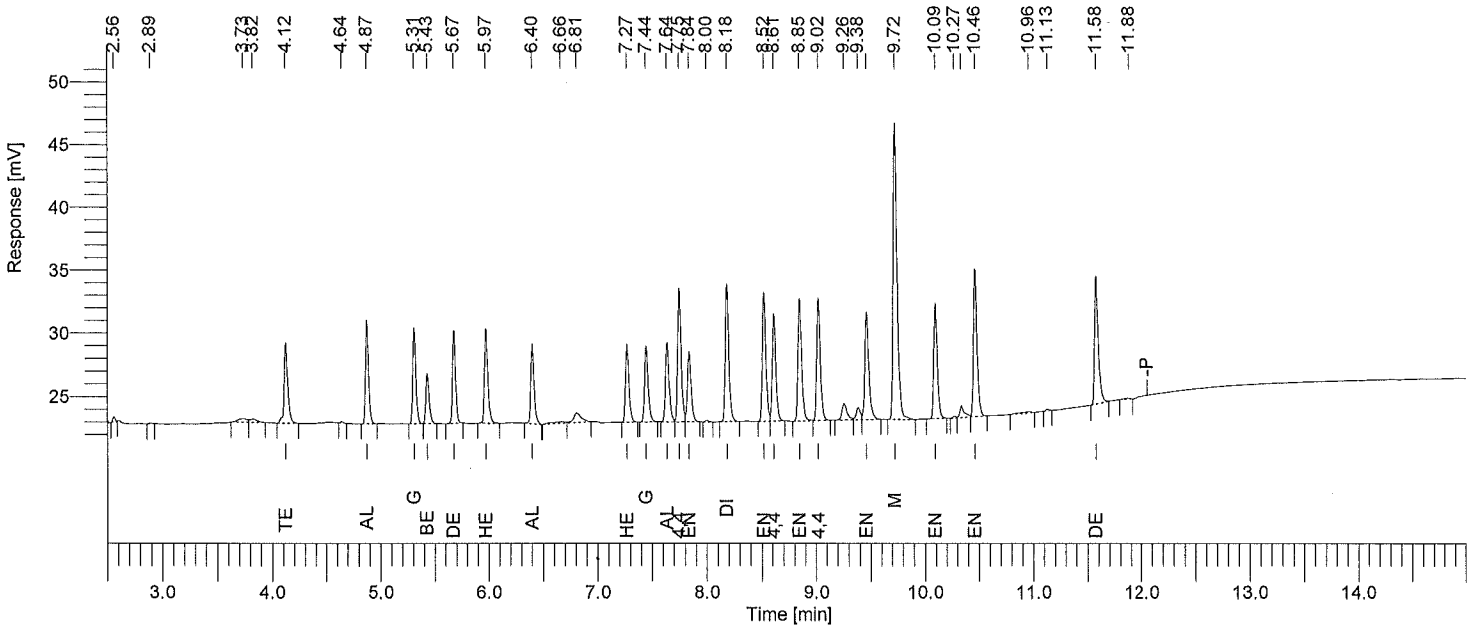

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	14625	0.0060811
4.87	alpha-BHC	15408	0.0051033
5.31	gamma-BHC	14754	0.0052362
5.43	beta-BHC	8399	0.0056867
5.67	delta-BHC	14173	0.0050604
5.97	Heptachlor	16471	0.0055700
6.40	Aldrin	13508	0.0053085
7.27	Heptachlor epoxide	13580	0.0054593
7.44	gamma-Chlordane	13634	0.0055148
7.64	alpha-Chlordane	14538	0.0056786
7.75	4,4'-DDE	22969	0.0105034
7.84	Endosulfan I	12889	0.0053712
8.18	Dieldrin	24445	0.0107958
8.52	Endrin	22808	0.0109591
8.61	4,4'-DDD	19039	0.0103669
8.85	Endosulfan II	23262	0.0113984
9.02	4,4'-DDT	22378	0.0110407
9.46	Endrin aldehyde	21477	0.0117370
9.72	Methoxychlor	60439	0.0614001
10.09	Endosulfan sulfate	20914	0.0112504
10.46	Endrin ketone	26469	0.0114996
11.58	Decachlorobiphenyl	23856	0.0125107

Software Version	: 6.3.1.0504	Date	: 06/10/2015 09:10:05
Operator	: sagers	Sample Name	: INDC211
Sample Number	: 012	Study	: 26383
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 05/28/2015 14:42:44	Dilution Factor	: 1.00
		Cycle	: 11

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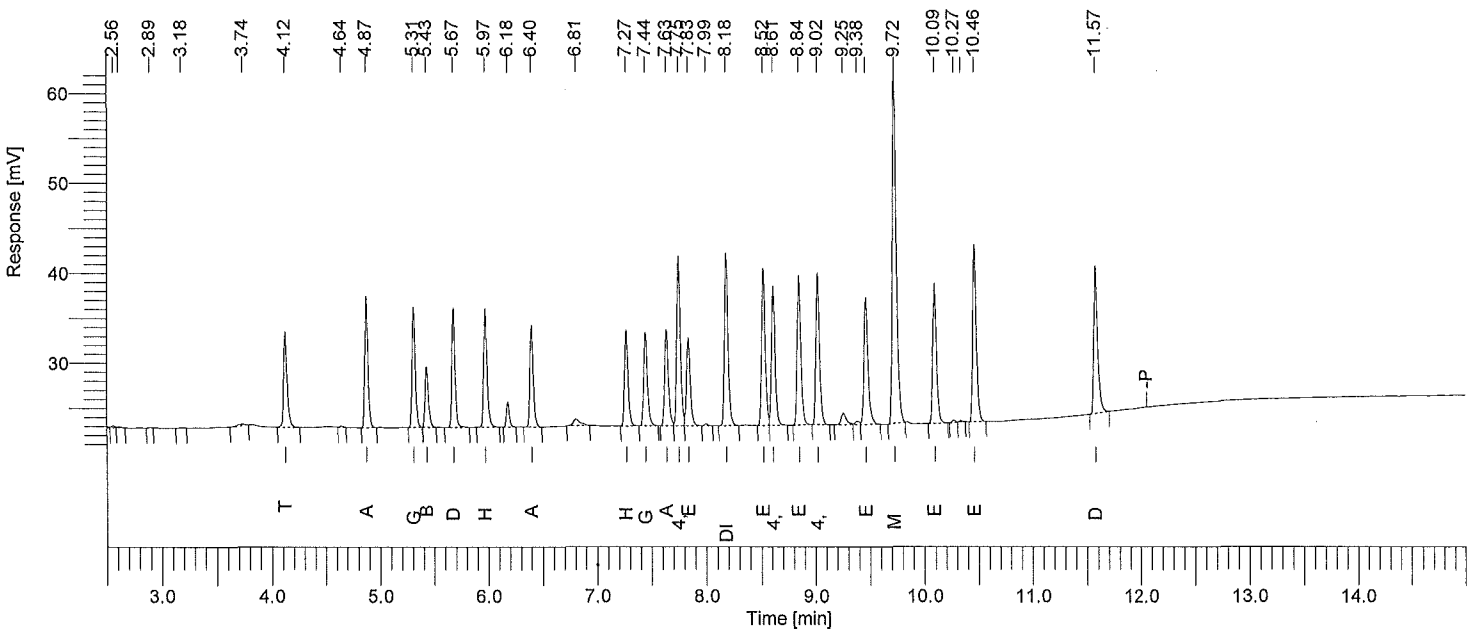

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	23732	0.0098681
4.87	alpha-BHC	28508	0.0094423
5.31	gamma-BHC	26989	0.0095786
5.43	beta-BHC	14567	0.0098632
5.67	delta-BHC	26801	0.0095693
5.97	Heptachlor	29094	0.0098382
6.40	Aldrin	24009	0.0094353
7.27	Heptachlor epoxide	24279	0.0097605
7.44	gamma-Chlordane	24164	0.0097742
7.63	alpha-Chlordane	25373	0.0099107
7.75	4,4'-DDE	42589	0.0194750
7.83	Endosulfan I	23196	0.0096666
8.18	Dieldrin	44073	0.0194636
8.52	Endrin	40529	0.0194743
8.61	4,4'-DDD	35547	0.0193559
8.84	Endosulfan II	39540	0.0193745
9.02	4,4'-DDT	39452	0.0194644
9.46	Endrin aldehyde	36460	0.0199258
9.72	Methoxychlor	98295	0.0998581
10.09	Endosulfan sulfate	36538	0.0196549
10.46	Endrin ketone	45598	0.0198098
11.57	Decachlorobiphenyl	39176	0.0205451

Software Version	: 6.3.1.0504	Date	: 06/10/2015 09:10:07
Operator	: sagers	Sample Name	: INDC311
Sample Number	: 013	Study	: 26384
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 05/28/2015 15:03:20	Dilution Factor	: 1.00
		Cycle	: 12

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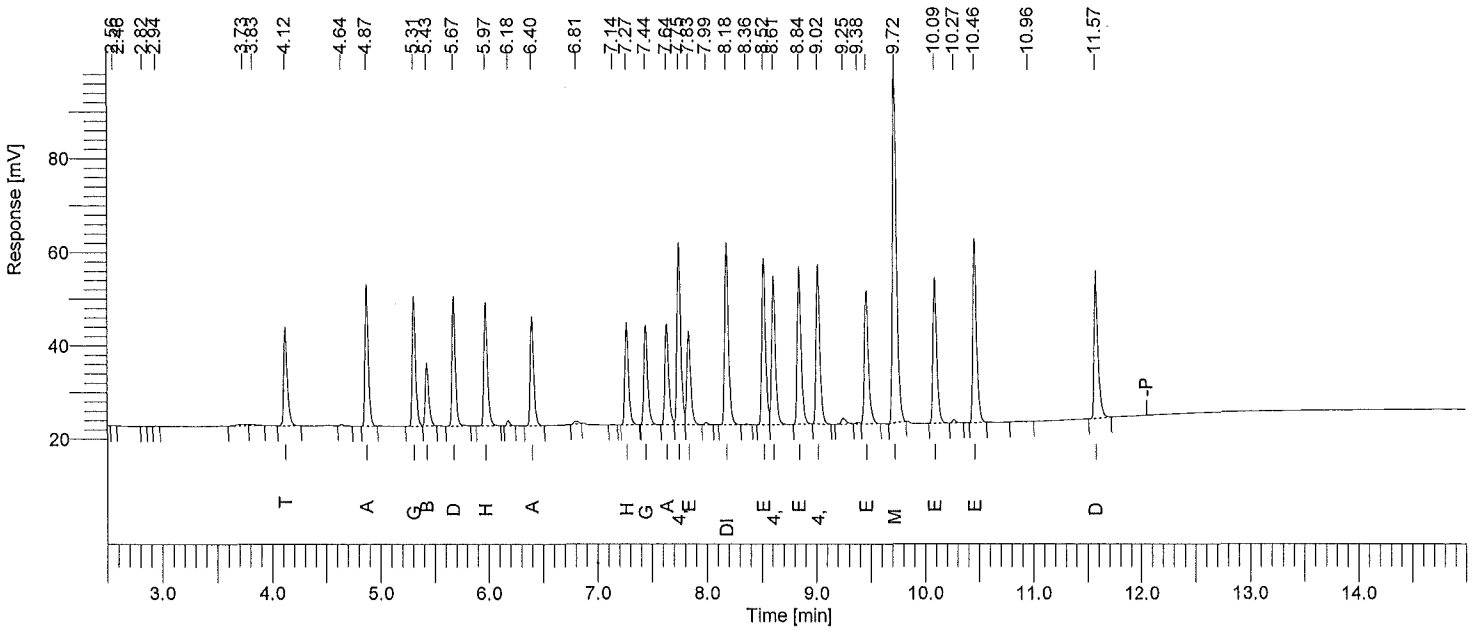

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.12	Tetrachloro-m-xylene	47921	0.0199256	0.0199256	0.0200000	99.6
4.87	alpha-BHC	62692	0.0207647	0.0207647	0.0200000	103.8
5.31	gamma-BHC	58367	0.0207146	0.0207146	0.0200000	103.6
5.43	beta-BHC	30054	0.0203495	0.0203495	0.0200000	101.7
5.67	delta-BHC	58491	0.0208836	0.0208836	0.0200000	104.4
5.97	Heptachlor	60612	0.0204964	0.0204964	0.0200000	102.5
6.40	Aldrin	52202	0.0205145	0.0205145	0.0200000	102.6
7.27	Heptachlor epoxide	51112	0.0205476	0.0205476	0.0200000	102.7
7.44	gamma-Chlordane	50536	0.0204417	0.0204417	0.0200000	102.2
7.64	alpha-Chlordane	52328	0.0204392	0.0204392	0.0200000	102.2
7.75	4,4'-DDE	91051	0.0416359	0.0416359	0.0400000	104.1
7.83	Endosulfan I	48926	0.0203888	0.0203888	0.0200000	101.9
8.18	Dieldrin	93454	0.0412718	0.0412718	0.0400000	103.2
8.52	Endrin	85055	0.0408689	0.0408689	0.0400000	102.2
8.61	4,4'-DDD	76679	0.0417532	0.0417532	0.0400000	104.4
8.84	Endosulfan II	83185	0.0407604	0.0407604	0.0400000	101.9
9.02	4,4'-DDT	82570	0.0407377	0.0407377	0.0400000	101.8
9.46	Endrin aldehyde	73682	0.0402678	0.0402678	0.0400000	100.7
9.72	Methoxychlor	192636	0.1956993	0.1956993	0.2000000	97.8
10.09	Endosulfan sulfate	75404	0.0405616	0.0405616	0.0400000	101.4
10.46	Endrin ketone	93197	0.0404894	0.0404894	0.0400000	101.2
11.57	Decachlorobiphenyl	75658	0.0396777	0.0396777	0.0400000	99.2

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 06/10/2015 09:10:10
Operator	: sagers	Sample Name	: INDC411
Sample Number	: 014	Study	: 26385
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 05/28/2015 15:23:40	Dilution Factor	: 1.00
		Cycle	: 13

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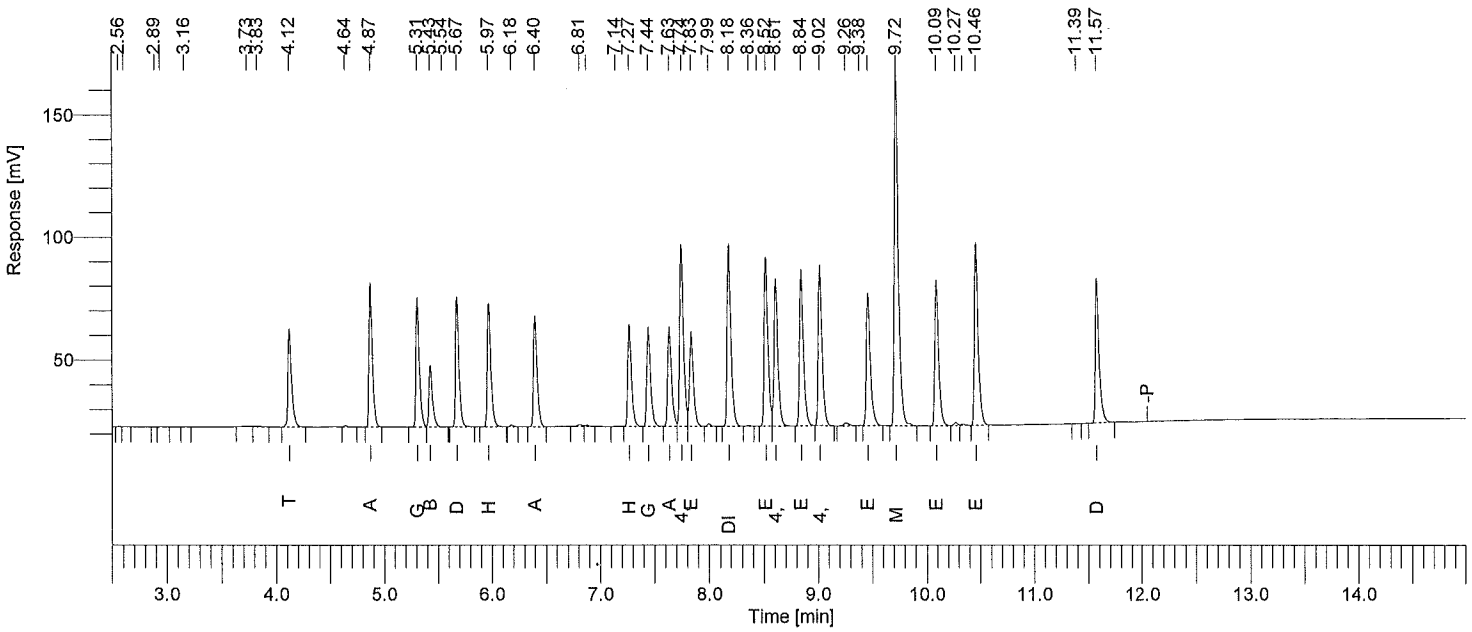

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	92101	0.0382960
4.87	alpha-BHC	125050	0.0414187
5.31	gamma-BHC	115266	0.0409085
5.43	beta-BHC	58020	0.0392848
5.67	delta-BHC	115811	0.0413494
5.97	Heptachlor	116405	0.0393635
6.40	Aldrin	103937	0.0408455
7.27	Heptachlor epoxide	99057	0.0398223
7.44	gamma-Chlordane	98047	0.0396599
7.63	alpha-Chlordane	99740	0.0389586
7.74	4,4'-DDE	176308	0.0806220
7.83	Endosulfan I	96195	0.0400871
8.18	Dieldrin	181670	0.0802302
8.52	Endrin	167383	0.0804271
8.61	4,4'-DDD	148577	0.0809032
8.84	Endosulfan II	160157	0.0784761
9.02	4,4'-DDT	160819	0.0793435
9.46	Endrin aldehyde	140201	0.0766208
9.72	Methoxychlor	371052	0.3769521
10.09	Endosulfan sulfate	146359	0.0787305
10.46	Endrin ketone	178548	0.0775700
11.57	Decachlorobiphenyl	140730	0.0738035

Software Version	: 6.3.1.0504	Date	: 06/10/2015 09:10:12
Operator	: sagers	Sample Name	: INDC511
Sample Number	: 015	Study	: 26386
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 05/28/2015 15:43:58	Dilution Factor	: 1.00
		Cycle	: 14

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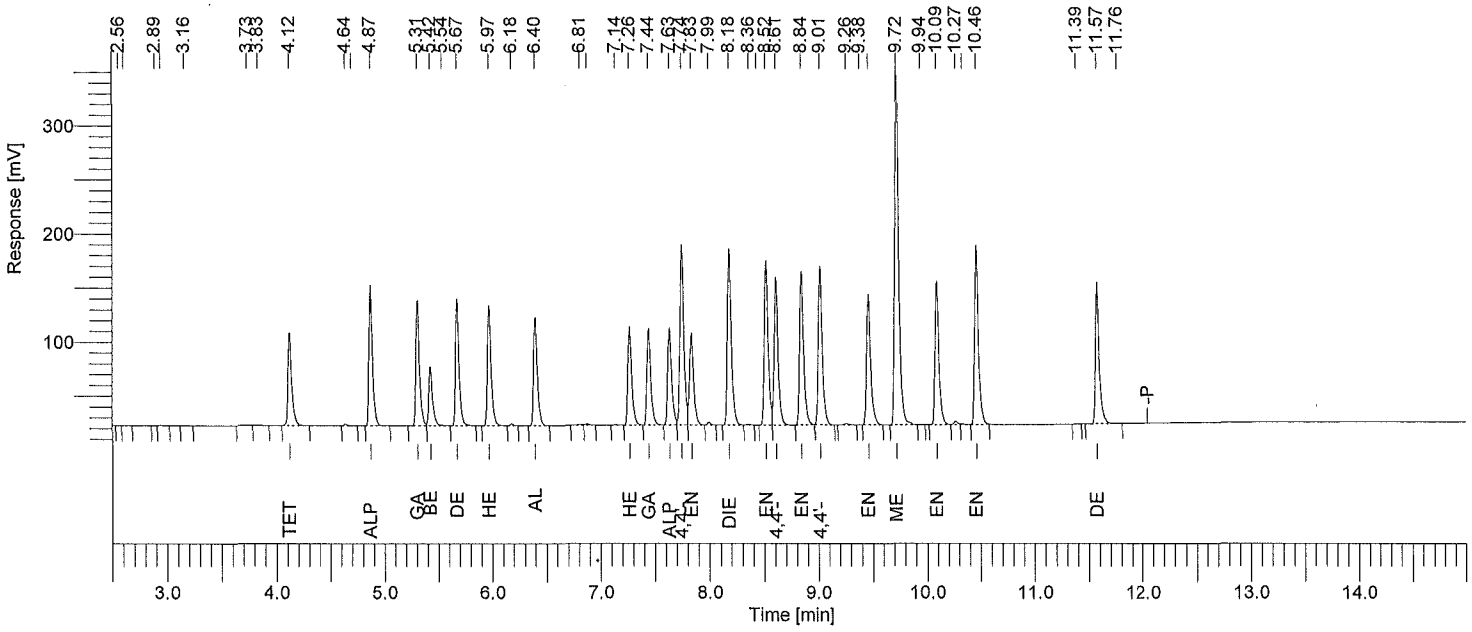
Sequence File : \\Alsltws012\TCCS\sagers\GCE21\21150528\21150528_SOM012_PEST_F9K24_A.seq



Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.12	Tetrachloro-m-xylene	202810	0.0843294
4.87	alpha-BHC	290268	0.0961418
5.31	gamma-BHC	263862	0.0936457
5.42	beta-BHC	129487	0.0876745
5.67	delta-BHC	266936	0.0953076
5.97	Heptachlor	264158	0.0893274
6.40	Aldrin	241210	0.0947916
7.26	Heptachlor epoxide	226152	0.0909160
7.44	gamma-Chlordane	223990	0.0906039
7.63	alpha-Chlordane	224596	0.0877273
7.74	4,4'-DDE	405547	0.1854481
7.83	Endosulfan I	224962	0.0937480
8.18	Dieldrin	413276	0.1825139
8.52	Endrin	375991	0.1806627
8.61	4,4'-DDD	345402	0.1880782
8.84	Endosulfan II	363870	0.1782942
9.01	4,4'-DDT	369894	0.1824945
9.46	Endrin aldehyde	316758	0.1731099
9.72	Methoxychlor	839196	0.8525404
10.09	Endosulfan sulfate	332403	0.1788081
10.46	Endrin ketone	404048	0.1755384
11.57	Decachlorobiphenyl	307831	0.1614367

Software Version	: 6.3.1.0504	Date	: 06/10/2015 09:10:15
Operator	: sagers	Sample Name	: PIBLK21
Sample Number	: 016	Study	: 26387
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 05/28/2015 16:04:32	Dilution Factor	: 1.00
		Cycle	: 15

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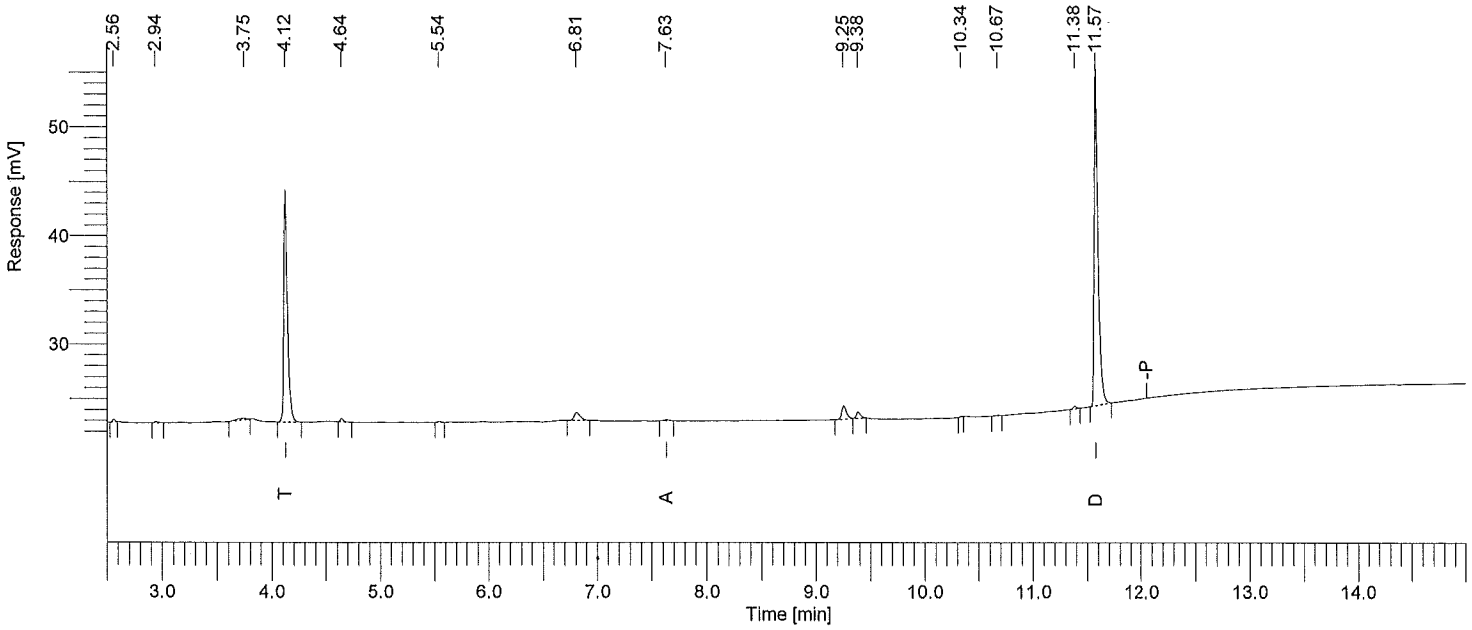

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.12	Tetrachloro-m-xylene	48674	0.020239	1	10	1.000	1.000	0.050000	0.202390	0.2000	101.2
4.87	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.31	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.43	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.67	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.97	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.40	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.27	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.44	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.63	alpha-Chlordane	359	1.40e-04	1	10	1.000	1.000	0.050000	0.001404	0.0000	-----
7.75	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.83	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.18	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.52	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.61	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.84	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.02	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.46	Endrin aldehyde	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.72	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.09	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.46	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.57	Decachlorobiphenyl	75066	0.039367	1	10	1.000	1.000	0.100000	0.393670	0.4000	98.4

All analytes <CRQL.

Software Version	: 6.3.1.0504	Date	: 06/10/2015 09:10:17
Operator	: sagers	Sample Name	: PEM21
Sample Number	: 017	Study	: 26388
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.40 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 05/28/2015 16:24:52	Dilution Factor	: 1.00
		Cycle	: 16

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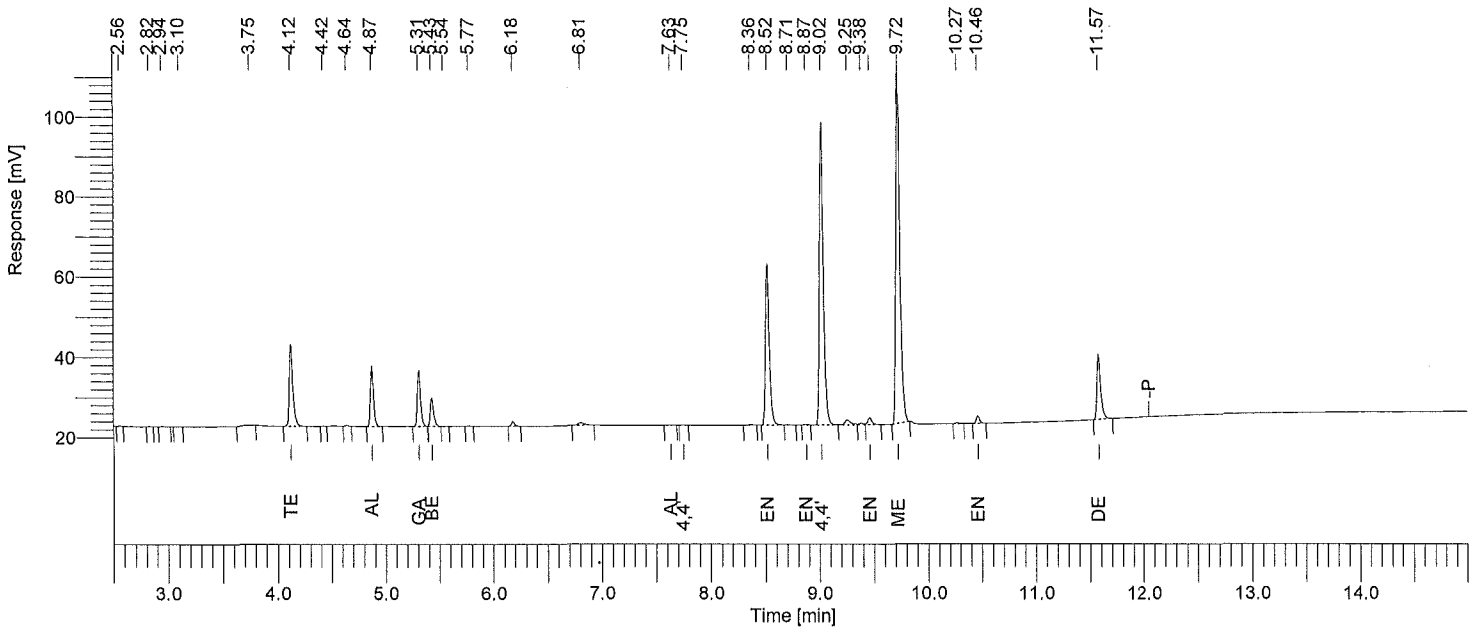

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.12	Tetrachloro-m-xylene	46188	0.0192053	0.0192053	0.02000	96.0
4.87	alpha-BHC	29451	0.0097545	0.0097545	0.01000	97.5
5.31	gamma-BHC	28197	0.0100072	0.0100072	0.01000	100.1
5.43	beta-BHC	15307	0.0103642	0.0103642	0.01000	103.6
5.67	delta-BHC	0	0.0000000	0.0000000	----------	------
5.97	Heptachlor	0	0.0000000	0.0000000	----------	------
6.40	Aldrin	0	0.0000000	0.0000000	----------	------
7.27	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
7.44	gamma-Chlordane	0	0.0000000	0.0000000	----------	------
7.63	alpha-Chlordane	262	0.0001023	0.0001023	0.00000	------
7.75	4,4'-DDE	206	0.0000944	0.0000944	0.10000	0.1
7.83	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.18	Dieldrin	0	0.0000000	0.0000000	----------	------
8.52	Endrin	98394	0.0472781	0.0472781	0.05000	94.6
8.61	4,4'-DDD	0	0.0000000	0.0000000	----------	------
8.87	Endosulfan II	409	0.0002003	0.0002003	0.00000	------
9.02	4,4'-DDT	188499	0.0929999	0.0929999	0.10000	93.0
9.46	Endrin aldehyde	4457	0.0024360	0.0024360	0.05000	4.9
9.72	Methoxychlor	225932	0.2295249	0.2295249	0.25000	91.8
10.09	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.46	Endrin ketone	3896	0.0016927	0.0016927	0.05000	3.4
11.57	Decachlorobiphenyl	38910	0.0204055	0.0204055	0.02000	102.0
			0.4440653			787.0

06/10/2015 09:10:17 Result: \\Alsltws012\TCCS\sagers\GCE21\21150528\21150528A_017.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
7.75	4,4'-DDE	206	0.0000944	0.0000944	0.10000	0.1
8.61	4,4'-DDD	0	0.0000000	0.0000000	----------	------
			0.0000944			0.1

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
9.46	Endrin aldehyde	4457	0.0024360	0.0024360	0.05000	4.9
10.46	Endrin ketone	3896	0.0016927	0.0016927	0.05000	3.4
			0.0041287			8.3

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:27:05
Operator	: sagers	Sample Name	: FLO24680
Sample Number	: 020	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 0/20
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 04:09:58	Dilution Factor	: 1.00
		Cycle	: 4

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Proc Method : \\Alsltws012\TCCS\sagers\gce21\21150309\21_som12_flo_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150309\21150309A_020.rst
Calib Method : \\Alsltws012\TCCS\sagers\gce21\21150309\21_som12_flo_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150309\21150309A_020.rst
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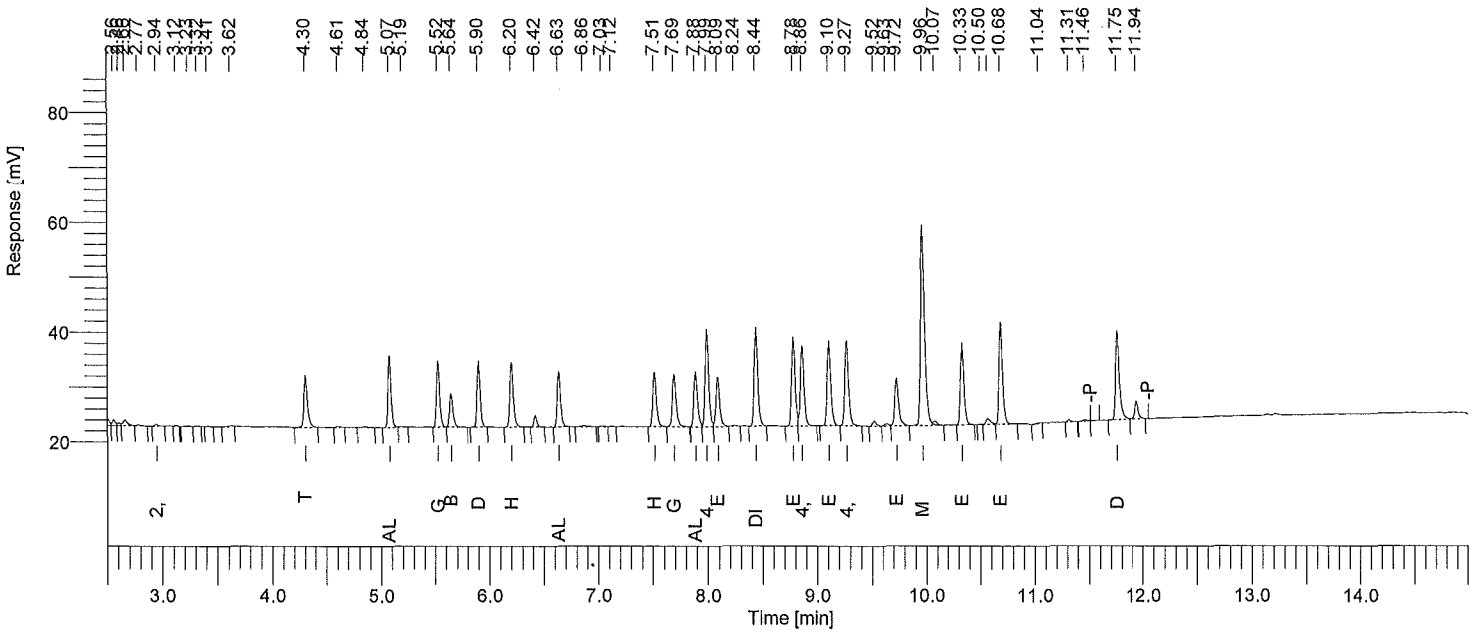

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST FLORISIL VALIDATION REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
2.94	2,4,5-Trichlorophenol	622	0.0003291	0.0003291	0.0500000	0.7
4.30	Tetrachloro-m-xylene	21737	0.0103748	0.0103748	0.0100000	103.7
5.07	alpha-BHC	25920	0.0098960	0.0098960	0.0100000	99.0
5.52	gamma-BHC	24547	0.0101501	0.0101501	0.0100000	101.5
5.64	beta-BHC	13372	0.0105385	0.0105385	0.0100000	105.4
5.90	delta-BHC	24268	0.0104283	0.0104283	0.0100000	104.3
6.20	Heptachlor	25992	0.0106074	0.0106074	0.0100000	106.1
6.63	Aldrin	21705	0.0097923	0.0097923	0.0100000	97.9
7.51	Heptachlor epoxide	22655	0.0106522	0.0106522	0.0100000	106.5
7.69	gamma-Chlordane	23032	0.0105937	0.0105937	0.0100000	105.9
7.88	alpha-Chlordane	23598	0.0105608	0.0105608	0.0100000	105.6
7.99	4,4'-DDE	40486	0.0209171	0.0209171	0.0200000	104.6
8.09	Endosulfan I	21418	0.0105319	0.0105319	0.0100000	105.3
8.44	Dieldrin	41840	0.0212793	0.0212793	0.0200000	106.4
8.78	Endrin	37075	0.0226288	0.0226288	0.0200000	113.1
8.86	4,4'-DDD	34348	0.0211190	0.0211190	0.0200000	105.6
9.10	Endosulfan II	37049	0.0209999	0.0209999	0.0200000	105.0
9.27	4,4'-DDT	36597	0.0214857	0.0214857	0.0200000	107.4
9.72	Endrin aldehyde	22173	0.0155352	0.0155352	0.0200000	77.7
9.96	Methoxychlor	93054	0.1129458	0.1129458	0.1000000	112.9
10.33	Endosulfan sulfate	34274	0.0215057	0.0215057	0.0200000	107.5
10.68	Endrin ketone	42957	0.0219026	0.0219026	0.0200000	109.5
11.75	Decachlorobiphenyl	39065	0.0233192	0.0233192	0.0200000	116.6

All Mix A analytes <= to +/-20%.

Software Version	: 6.3.1.0504	Date	: 06/09/2015 14:27:10
Operator	: sagers	Sample Name	: 245TCP 0.10 UG/ML
Sample Number	: 018	Study	:
AutoSampler	: HP7673A	Rack/Vial	: 0/18
Instrument Name	: GCE21	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 0.00 min	End Time	: 16.70 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 03:27:04	Dilution Factor	: 1.00
		Cycle	: 2

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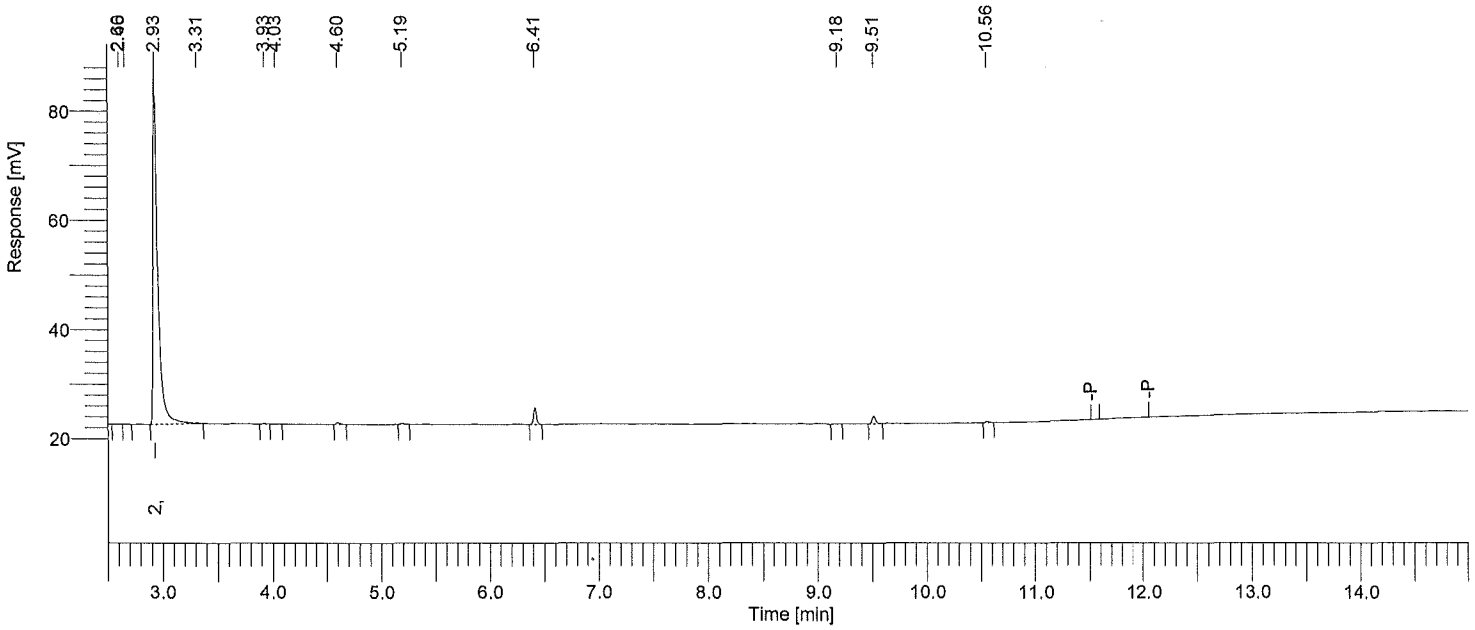

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
2.93	2,4,5-Trichlorophenol	192181	0.1016834
4.29	Tetrachloro-m-xylene	0	0.0000000
5.07	alpha-BHC	0	0.0000000
5.52	gamma-BHC	0	0.0000000
5.64	beta-BHC	0	0.0000000
5.89	delta-BHC	0	0.0000000
6.19	Heptachlor	0	0.0000000
6.63	Aldrin	0	0.0000000
7.50	Heptachlor epoxide	0	0.0000000
7.68	gamma-Chlordane	0	0.0000000
7.88	alpha-Chlordane	0	0.0000000
7.98	4,4'-DDE	0	0.0000000
8.08	Endosulfan I	0	0.0000000
8.43	Dieldrin	0	0.0000000
8.77	Endrin	0	0.0000000
8.85	4,4'-DDD	0	0.0000000
9.10	Endosulfan II	0	0.0000000
9.26	4,4'-DDT	0	0.0000000
9.72	Endrin aldehyde	0	0.0000000
9.95	Methoxychlor	0	0.0000000
10.32	Endosulfan sulfate	0	0.0000000
10.68	Endrin ketone	0	0.0000000
11.75	Decachlorobiphenyl	0	0.0000000

Software Version	: 6.3.1.0504	Date	: 03/10/2015 11:39:38
Reprocess Number	: nasltw7057: 2143673		
Operator	: sagers		
Sample Number	: 004	Sample Name	: RESC11
AutoSampler	: HP7673A	Study	: 21564
Instrument Name	: GCE21	Rack/Vial	: 0/4
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.70 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/09/2015 22:25:44	Dilution Factor	: 1.00
		Cycle	: 3

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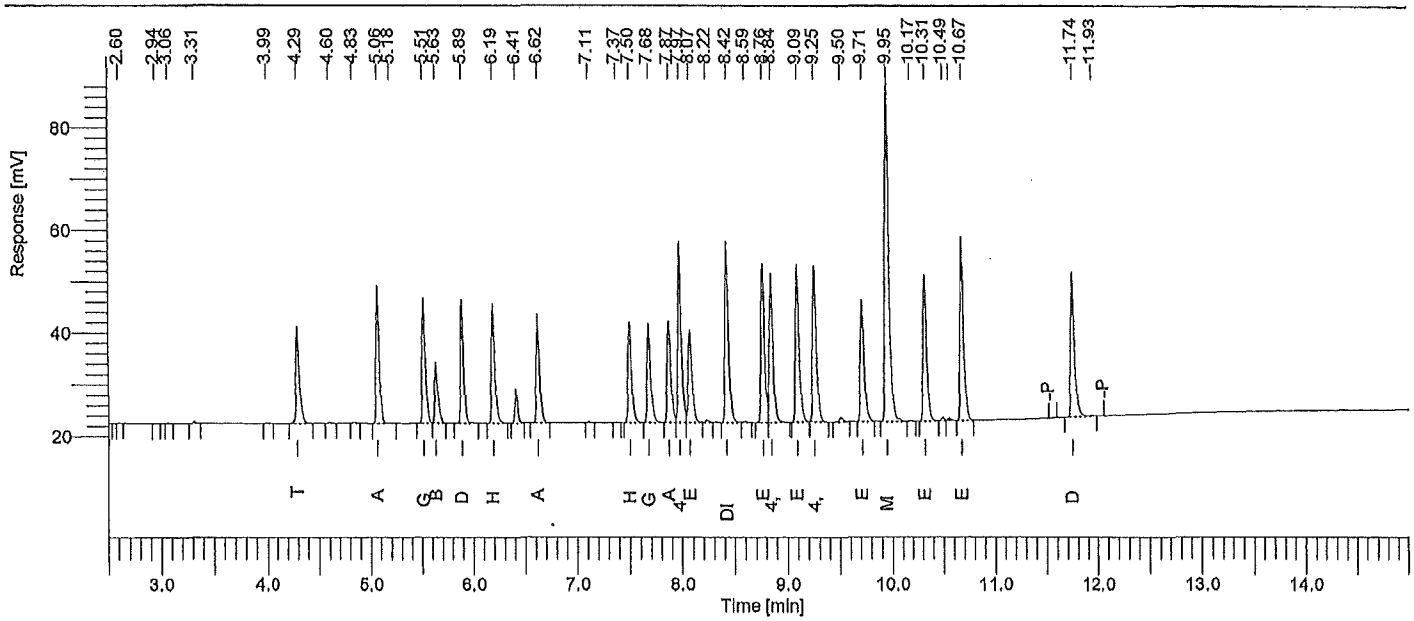

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	43532	0.0207771
5.06	alpha-BHC	56465	0.0215581
5.51	gamma-BHC	51775	0.0214091
5.63	beta-BHC	26544	0.0209191
5.89	delta-BHC	50900	0.0218724
6.19	Heptachlor	52506	0.0214278
6.62	Aldrin	47526	0.0214414
7.50	Heptachlor epoxide	45742	0.0215075
7.68	gamma-Chlordane	46316	0.0213034
7.87	alpha-Chlordane	47532	0.0212724
7.97	4,4'-DDE	83606	0.0431953
8.07	Endosulfan I	43389	0.0213360
8.42	Dieldrin	85010	0.0432348
8.76	Endrin	73658	0.0449576
8.84	4,4'-DDD	70640	0.0434328
9.09	Endosulfan II	75730	0.0429251
9.25	4,4'-DDT	73964	0.0434236
9.71	Endrin aldehyde	60951	0.0427042
9.95	Methoxychlor	169496	0.2057268
10.31	Endosulfan sulfate	67868	0.0425848
10.67	Endrin ketone	83383	0.0425147
11.74	Decachlorobiphenyl	68265	0.0407494

Software Version	: 6.3.1.0504	Date	: 03/10/2015 11:39:44
Reprocess Number	: nasltw7057: 2143874		
Operator	: sagers		
Sample Number	: 005	Sample Name	: PEM11
AutoSampler	: HP7673A	Study	: 21568
Instrument Name	: GCE21	Rack/Vial	: 0/5
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.70 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/09/2015 22:47:22	Dilution Factor	: 1.00
		Cycle	: 4

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Calib Method : \\Alsltws012\TCCS\sagers\gce21\21150309\21_som12_pest_a.mth from \\Alsltws012\TCCS\sagers\GCE21\21150309\21150309A_005.rst
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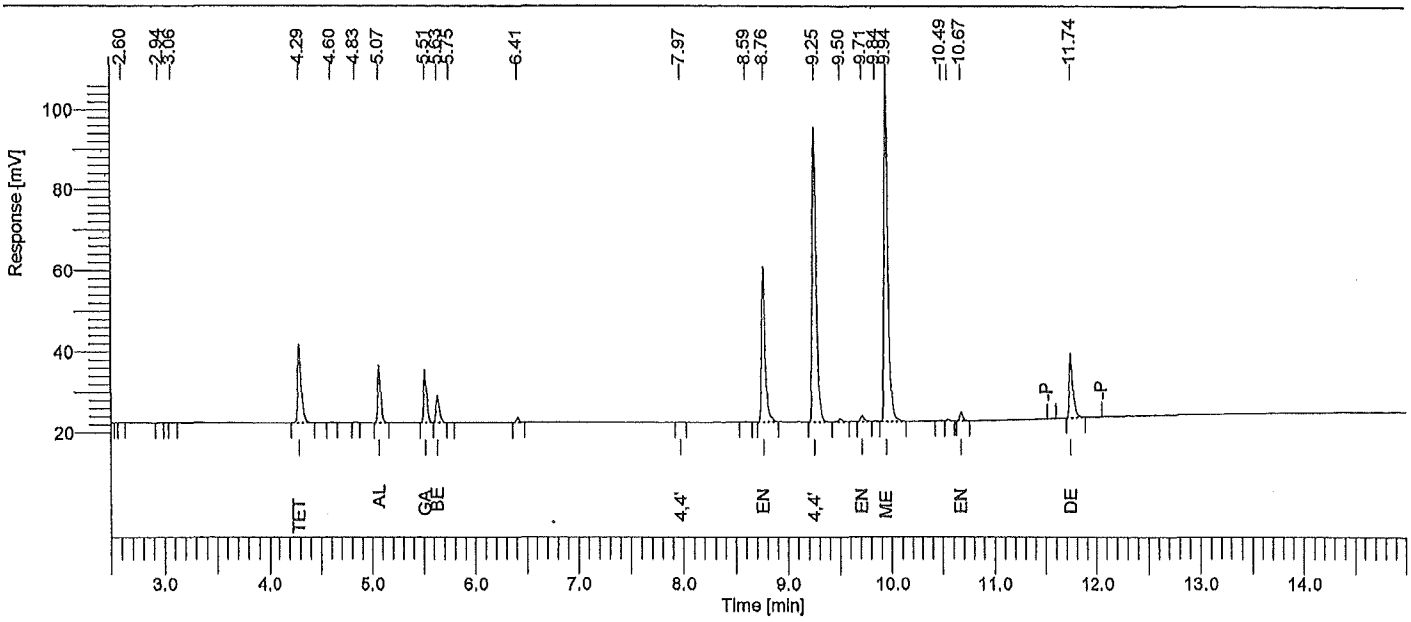

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.29	Tetrachloro-m-xylene	44505	0.0212417	0.0212417	0.02000	106.2
5.07	alpha-BHC	27961	0.0106756	0.0106756	0.01000	106.8
5.51	gamma-BHC	26623	0.0110088	0.0110088	0.01000	110.1
5.63	beta-BHC	14476	0.0114080	0.0114080	0.01000	114.1
5.89	delta-BHC	0	0.0000000	0.0000000	----------	------
6.19	Heptachlor	0	0.0000000	0.0000000	----------	------
6.63	Aldrin	0	0.0000000	0.0000000	----------	------
7.50	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
7.68	gamma-Chlordane	0	0.0000000	0.0000000	----------	------
7.88	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
7.97	4,4'-DDE	280	0.0001446	0.0001446	0.10000	0.1
8.08	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.43	Dieldrin	0	0.0000000	0.0000000	----------	------
8.76	Endrin	95162	0.0580827	0.0580827	0.05000	116.2
8.85	4,4'-DDD	0	0.0000000	0.0000000	----------	------
9.10	Endosulfan II	0	0.0000000	0.0000000	----------	------
9.25	4,4'-DDT	185344	0.1088132	0.1088132	0.10000	108.8
9.71	Endrin aldehyde	3170	0.0022207	0.0022207	0.05000	4.4
9.94	Methoxychlor	216390	0.2626459	0.2626459	0.25000	105.1
10.32	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.67	Endrin ketone	4385	0.0022358	0.0022358	0.05000	4.5
11.74	Decachlorobiphenyl	37609	0.0225693	0.0225693	0.02000	112.8
			0.5110464			889.1

03/10/2015 11:39:44 Result: \\Alsltws012\TCCS\sagers\GCE21\21150309\21150309A_005.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
7.97	4,4'-DDE	280	0.0001446	0.0001446	0.10000	0.1
8.85	4,4'-DDD	0	0.0000000	0.0000000	----------	------
			0.0001446			0.1

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
9.71	Endrin aldehyde	3170	0.0022207	0.0022207	0.05000	4.4
10.67	Endrin ketone	4385	0.0022358	0.0022358	0.05000	4.5
			0.0044566			8.9

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

Software Version	: 6.3.1.0504	Date	: 03/10/2015 11:39:56
Reprocess Number	: nasltw7057: 2143675		
Operator	: sagers		
Sample Number	: 006	Sample Name	: TOXAPH111
AutoSampler	: HP7673A	Study	: 21557
Instrument Name	: GCE21	Rack/Vial	: 0/6
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.70 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/09/2015 23:09:00	Dilution Factor	: 1.00
		Cycle	: 5

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Report Format File: \\Alsltws012\TCCS\sagers\GCE21\21150309\21_RPT_2UL\21_som_std_a.rpt
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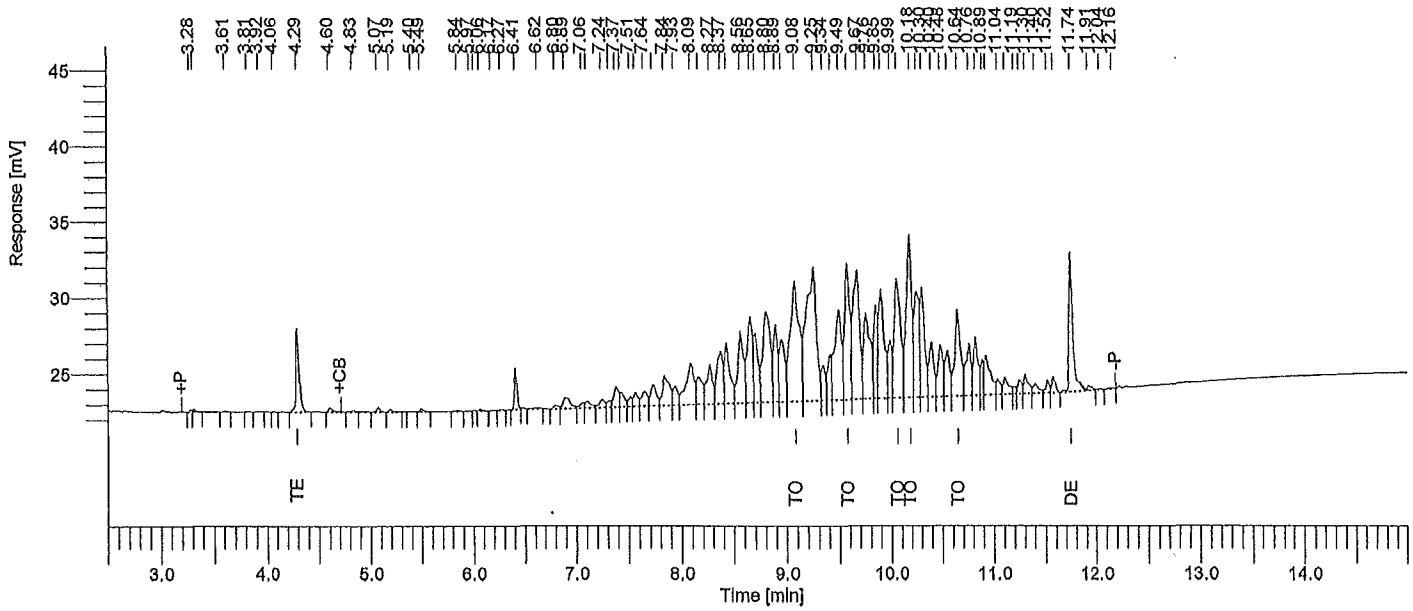

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	12194	0.0056291
9.08	Toxaphene-1	46576	0.5288355
9.57	Toxaphene-2	32836	0.5135229
10.05	Toxaphene-3	33935	0.5044942
10.18	Toxaphene-4	41692	0.5303843
10.64	Toxaphene-5	22372	0.4808734
11.74	Decachlorobiphenyl	23935	0.0120142

Software Version	: 6.3.1.0504	Date	: 03/10/2015 11:40:04
Reprocess Number	: nasltw7057: 2143676		
Operator	: sagers		
Sample Number	: 007	Sample Name	: TOXAPH211
AutoSampler	: HP7673A	Study	: 21558
Instrument Name	: GCE21	Rack/Vial	: 0/7
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.70 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/09/2015 23:30:38	Dilution Factor	: 1.00
		Cycle	: 6

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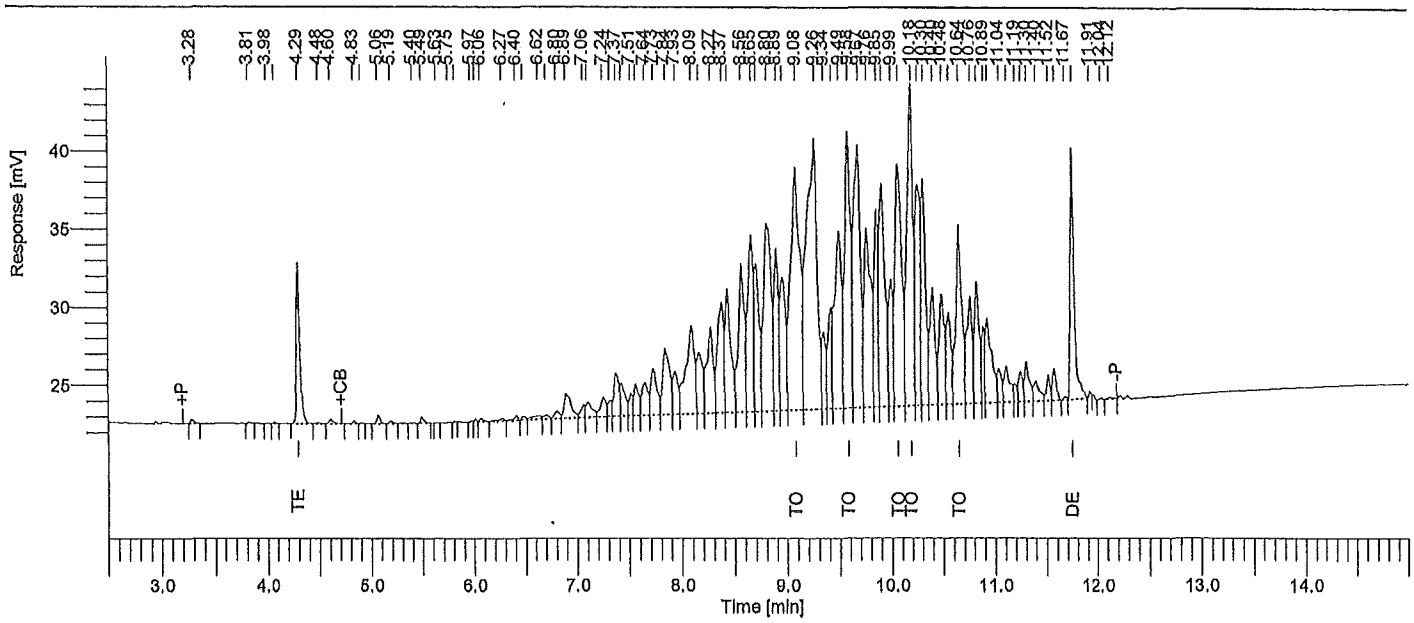

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	23366	0.0107863
9.08	Toxaphene-1	94849	1.0769371
9.58	Toxaphene-2	67898	1.0618387
10.05	Toxaphene-3	71072	1.0565817
10.18	Toxaphene-4	83867	1.0669208
10.64	Toxaphene-5	47203	1.0146190
11.74	Decachlorobiphenyl	41773	0.0209678

Software Version	: 6.3.1.0504	Date	: 03/10/2015 11:40:11
Reprocess Number	: nasltw7057: 2143677		
Operator	: sagers		
Sample Number	: 008	Sample Name	: TOXAPH311
AutoSampler	: HP7673A	Study	: 21559
Instrument Name	: GCE21	Rack/Vial	: 0/8
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.70 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/09/2015 23:52:10	Dilution Factor	: 1.00
		Cycle	: 7

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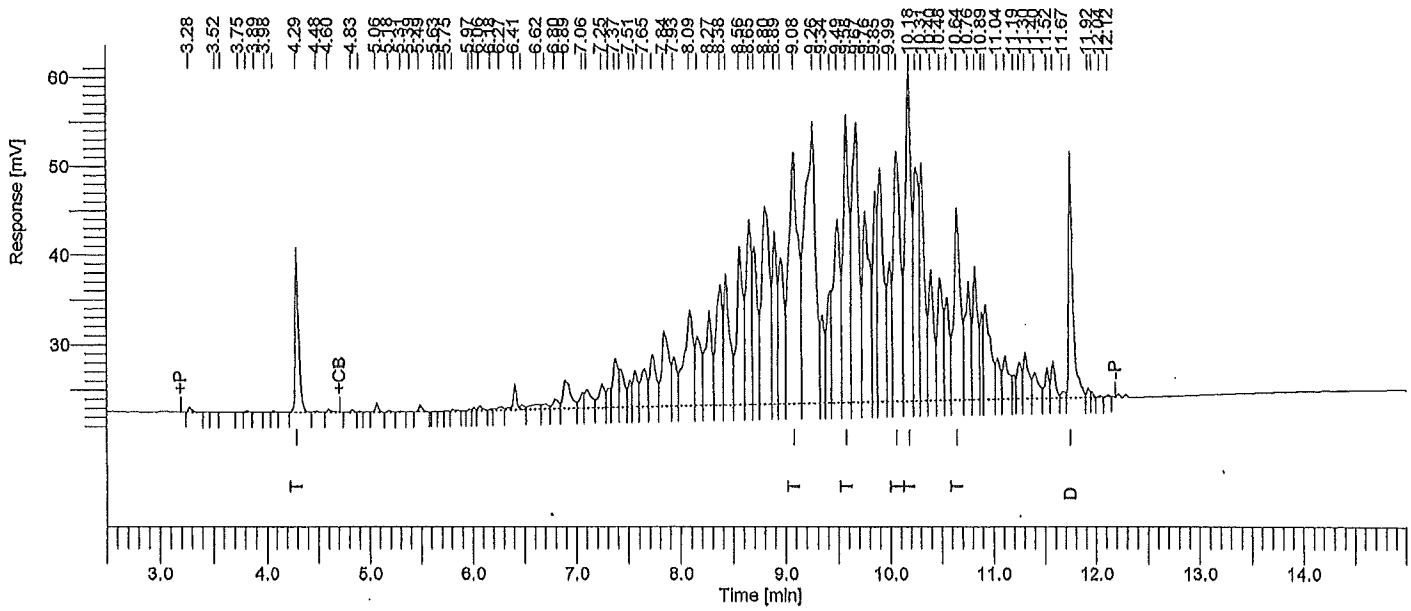

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.29	Tetrachloro-m-xylene	42909	0.0198082	0.0198082	0.0200000	99.0
9.08	Toxaphene-1	174390	1.9800661	1.9800661	2.0000000	99.0
9.58	Toxaphene-2	127428	1.9928202	1.9928202	2.0000000	99.6
10.06	Toxaphene-3	132989	1.9770560	1.9770560	2.0000000	98.9
10.18	Toxaphene-4	153922	1.9581365	1.9581365	2.0000000	97.9
10.64	Toxaphene-5	91569	1.9862627	1.9862627	2.0000000	98.4
11.74	Decachlorobiphenyl	74908	0.0375994	0.0375994	0.0400000	94.0

All analytes <= to +/-20%. Resolution >=80% primary, 50% confirmation. No resolution critreria for toxaphene.

Software Version	: 6.3.1.0504	Date	: 03/10/2015 11:40:18
Reprocess Number	: nasltw7057: 2143678		
Operator	: sagers		
Sample Number	: 009	Sample Name	: TOXAPH411
AutoSampler	: HP7673A	Study	: 21560
Instrument Name	: GCE21	Rack/Vial	: 0/9
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.70 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 00:13:45	Dilution Factor	: 1.00
		Cycle	: 8

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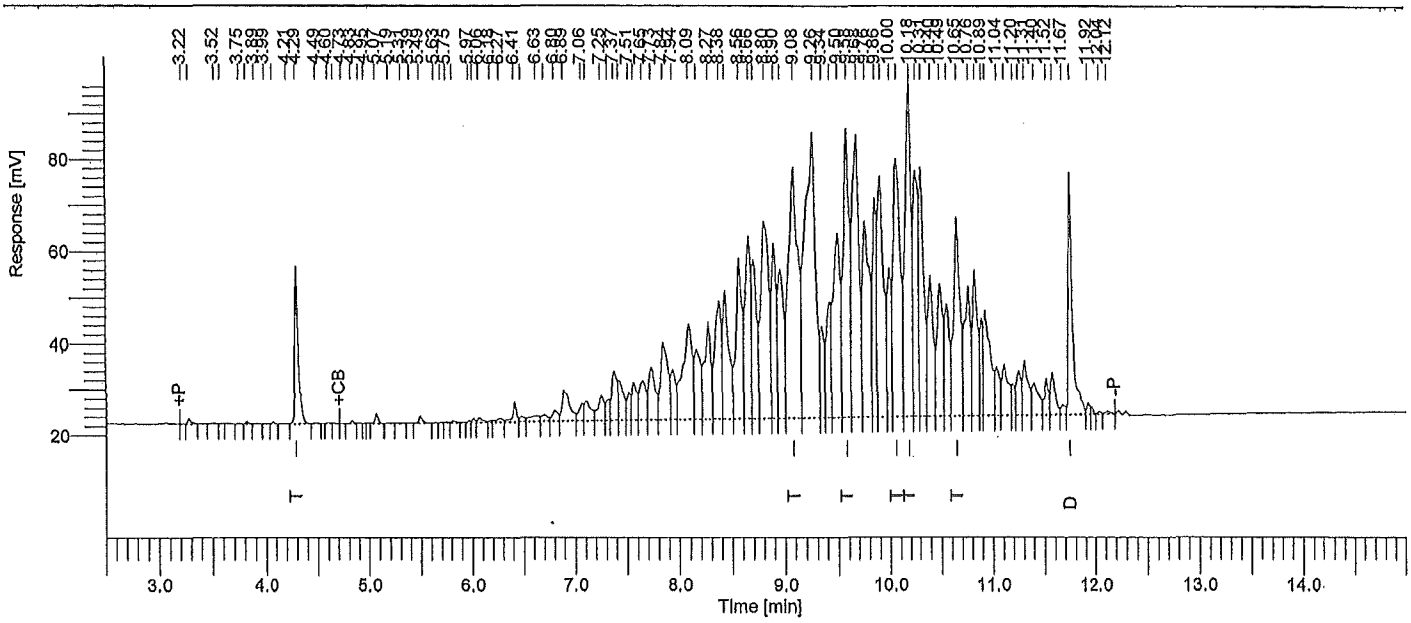

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	81189	0.0374797
9.08	Toxaphene-1	341768	3.8805101
9.58	Toxaphene-2	252805	3.9535732
10.08	Toxaphene-3	267921	3.9829841
10.18	Toxaphene-4	306552	3.8998251
10.65	Toxaphene-5	190811	4.1014645
11.75	Decachlorobiphenyl	148234	0.0744049

Software Version	: 6.3.1.0504	Date	: 03/10/2015 11:40:25
Reprocess Number	: nasltw7057: 2143679		
Operator	: sagers		
Sample Number	: 010	Sample Name	: TOXAPH511
AutoSampler	: HP7673A	Study	: 21561
Instrument Name	: GCE21	Rack/Vial	: 0/10
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.70 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 00:35:15	Dilution Factor	: 1.00
		Cycle	: 9

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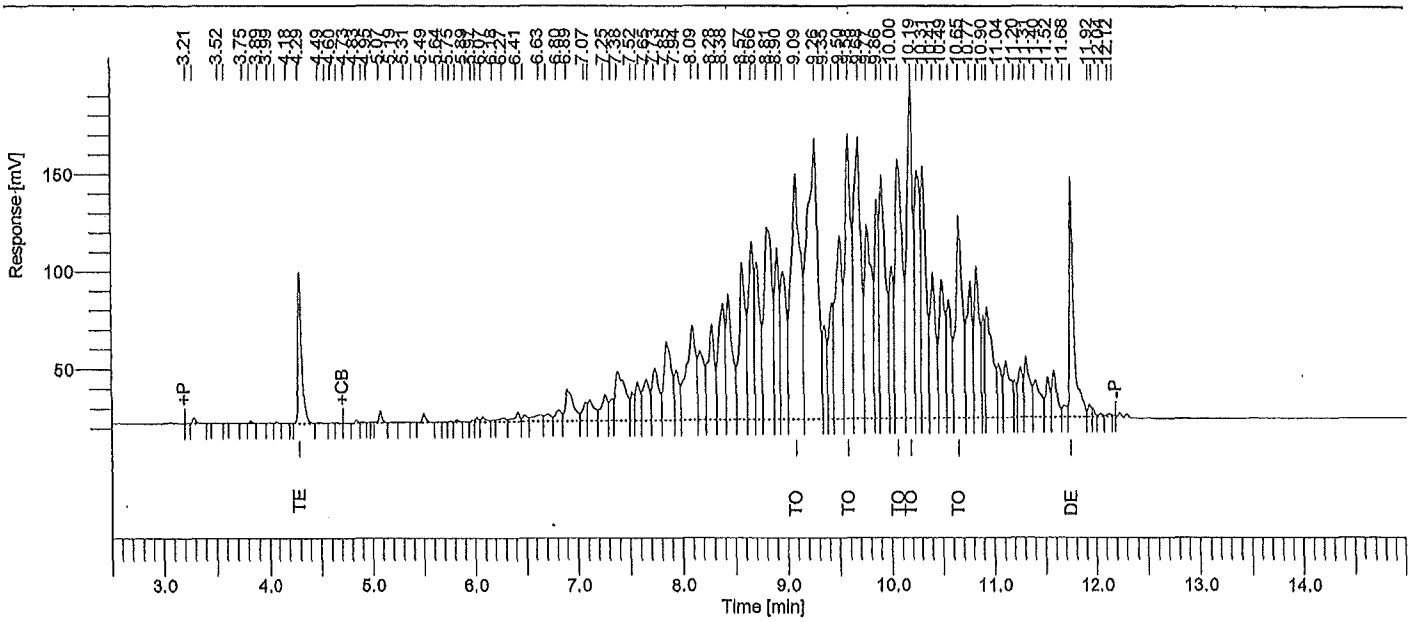

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	188062	0.0868167
9.09	Toxaphene-1	797264	9.0523124
9.58	Toxaphene-2	592317	9.2631201
10.06	Toxaphene-3	639135	9.5015584
10.19	Toxaphene-4	721833	9.1828599
10.65	Toxaphene-5	471803	10.1413671
11.75	Decachlorobiphenyl	350695	0.1760281

Software Version	: 6.3.1.0504	Date	: 03/10/2015 11:40:33
Reprocess Number	: nasltw7057: 2143680		
Operator	: sagers		
Sample Number	: 011	Sample Name	: INDC111
AutoSampler	: HP7673A	Study	: 21562
Instrument Name	: GCE21	Rack/Vial	: 0/11
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.70 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 00:56:45	Dilution Factor	: 1.00
		Cycle	: 10

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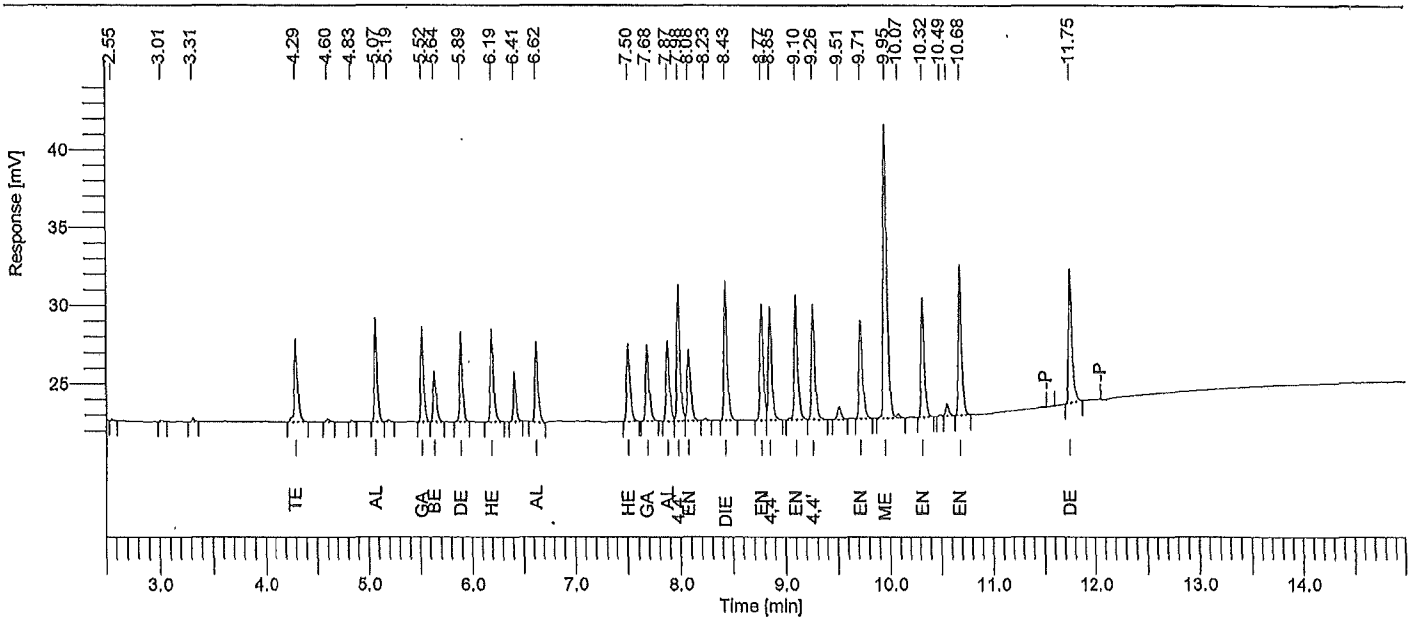

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	12047	0.0057497
5.07	alpha-BHC	12449	0.0047529
5.52	gamma-BHC	11844	0.0048974
5.64	beta-BHC	6845	0.0053944
5.89	delta-BHC	10877	0.0046740
6.19	Heptachlor	12811	0.0052283
6.62	Aldrin	10952	0.0049411
7.50	Heptachlor epoxide	11075	0.0052076
7.68	gamma-Chlordane	11273	0.0051851
7.87	alpha-Chlordane	11827	0.0052930
7.98	4,4'-DDE	19123	0.0098797
8.08	Endosulfan I	10469	0.0051482
8.43	Dieldrin	19971	0.0101569
8.77	Endrin	16624	0.0101466
8.85	4,4'-DDD	16122	0.0099127
9.10	Endosulfan II	18886	0.0107047
9.26	4,4'-DDT	16884	0.0099123
9.71	Endrin aldehyde	15586	0.0109202
9.95	Methoxychlor	46653	0.0566259
10.32	Endosulfan sulfate	16824	0.0105566
10.68	Endrin ketone	21156	0.0107869
11.75	Decachlorobiphenyl	19928	0.0118959

Software Version	: 6.3.1.0504	Date	: 03/10/2015 11:40:42
Reprocess Number	: nasltw7057: 2143681		
Operator	: sagers		
Sample Number	: 012	Sample Name	: INDC211
AutoSampler	: HP7673A	Study	: 21563
Instrument Name	: GCE21	Rack/Vial	: 0/12
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.70 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 01:18:17	Dilution Factor	: 1.00
		Cycle	: 11

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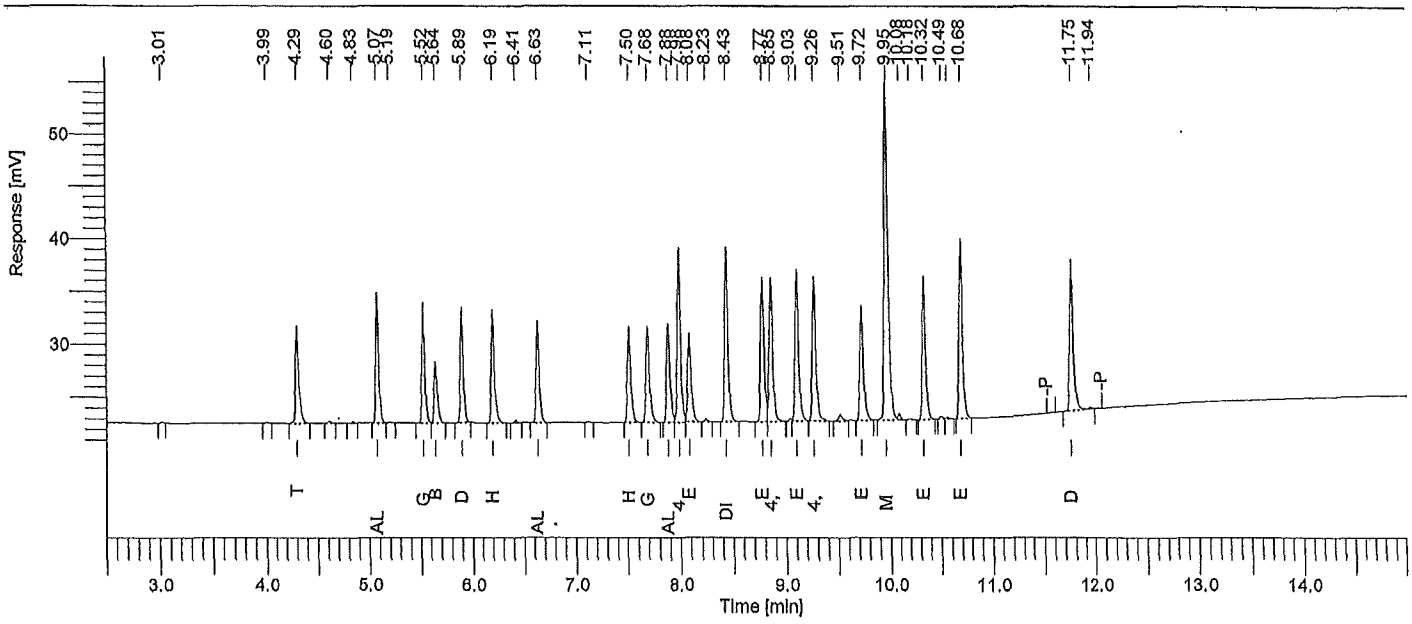

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	20419	0.0097456
5.07	alpha-BHC	24204	0.0092410
5.52	gamma-BHC	22712	0.0093914
5.64	beta-BHC	12422	0.0097892
5.89	delta-BHC	21402	0.0091966
6.19	Heptachlor	23590	0.0096273
6.63	Aldrin	20623	0.0093040
7.50	Heptachlor epoxide	20551	0.0096631
7.68	gamma-Chlordane	20937	0.0096300
7.88	alpha-Chlordane	21870	0.0097874
7.98	4,4'-DDE	37255	0.0192479
8.08	Endosulfan I	19486	0.0095819
8.43	Dieldrin	38031	0.0193419
8.77	Endrin	31068	0.0189625
8.85	4,4'-DDD	31289	0.0192380
9.10	Endosulfan II	34311	0.0194480
9.26	4,4'-DDT	32444	0.0190477
9.72	Endrin aldehyde	27329	0.0191478
9.95	Methoxychlor	82055	0.0995953
10.32	Endosulfan sulfate	30956	0.0194242
10.68	Endrin ketone	38541	0.0196509
11.75	Decachlorobiphenyl	34282	0.0204640

Software Version	: 6.3.1.0504	Date	: 03/10/2015 11:40:51
Reprocess Number	: nasltw7057: 2143682		
Operator	: sagers		
Sample Number	: 013	Sample Name	: INDC311
AutoSampler	: HP7673A	Study	: 21564
Instrument Name	: GCE21	Rack/Vial	: 0/13
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.70 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 01:39:45	Dilution Factor	: 1.00
		Cycle	: 12

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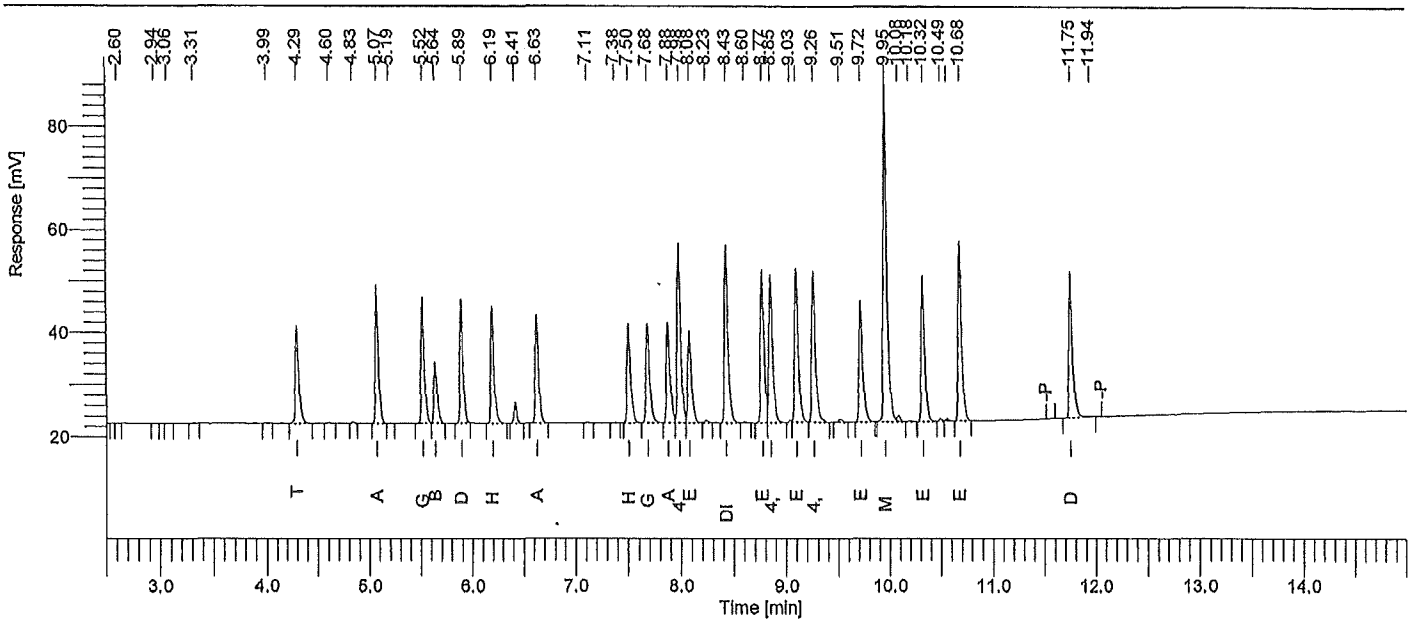

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.29	Tetrachloro-m-xylene	43327	0.0206793	0.0206793	0.0200000	103.4
5.07	alpha-BHC	56084	0.0214127	0.0214127	0.0200000	107.1
5.52	gamma-BHC	51402	0.0212550	0.0212550	0.0200000	106.3
5.64	beta-BHC	26323	0.0207450	0.0207450	0.0200000	103.7
5.89	delta-BHC	49622	0.0213233	0.0213233	0.0200000	106.6
6.19	Heptachlor	51483	0.0210106	0.0210106	0.0200000	105.1
6.63	Aldrin	46964	0.0211881	0.0211881	0.0200000	105.9
7.50	Heptachlor epoxide	44729	0.0210313	0.0210313	0.0200000	105.2
7.68	gamma-Chlordane	45753	0.0210444	0.0210444	0.0200000	105.2
7.88	alpha-Chlordane	46979	0.0210249	0.0210249	0.0200000	105.1
7.98	4,4'-DDE	82378	0.0425612	0.0425612	0.0400000	106.4
8.08	Endosulfan I	42587	0.0209415	0.0209415	0.0200000	104.7
8.43	Dieldrin	83604	0.0425195	0.0425195	0.0400000	106.3
8.77	Endrin	70295	0.0429049	0.0429049	0.0400000	107.3
8.85	4,4'-DDD	69040	0.0424493	0.0424493	0.0400000	106.1
9.10	Endosulfan II	74200	0.0420575	0.0420575	0.0400000	105.1
9.26	4,4'-DDT	71868	0.0421929	0.0421929	0.0400000	105.5
9.72	Endrin aldehyde	60166	0.0421539	0.0421539	0.0400000	105.4
9.95	Methoxychlor	168270	0.2042389	0.2042389	0.2000000	102.1
10.32	Endosulfan sulfate	66670	0.0418335	0.0418335	0.0400000	104.6
10.68	Endrin ketone	81440	0.0415240	0.0415240	0.0400000	103.8
11.75	Decachlorobiphenyl	68440	0.0408540	0.0408540	0.0400000	102.1

All analytes <= to +/-20%. Resolution >=80% primary, 60% confirmation. No resolution critrerla for toxaphene.

Software Version	: 6.3.1.0504	Date	: 03/10/2015 11:41:00
Reprocess Number	: nasltw7057; 2143683		
Operator	: sagers		
Sample Number	: 014	Sample Name	: INDC411
AutoSampler	: HP7673A	Study	: 21565
Instrument Name	: GCE21	Rack/Vial	: 0/14
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.70 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 02:01:11	Dilution Factor	: 1.00
		Cycle	: 13

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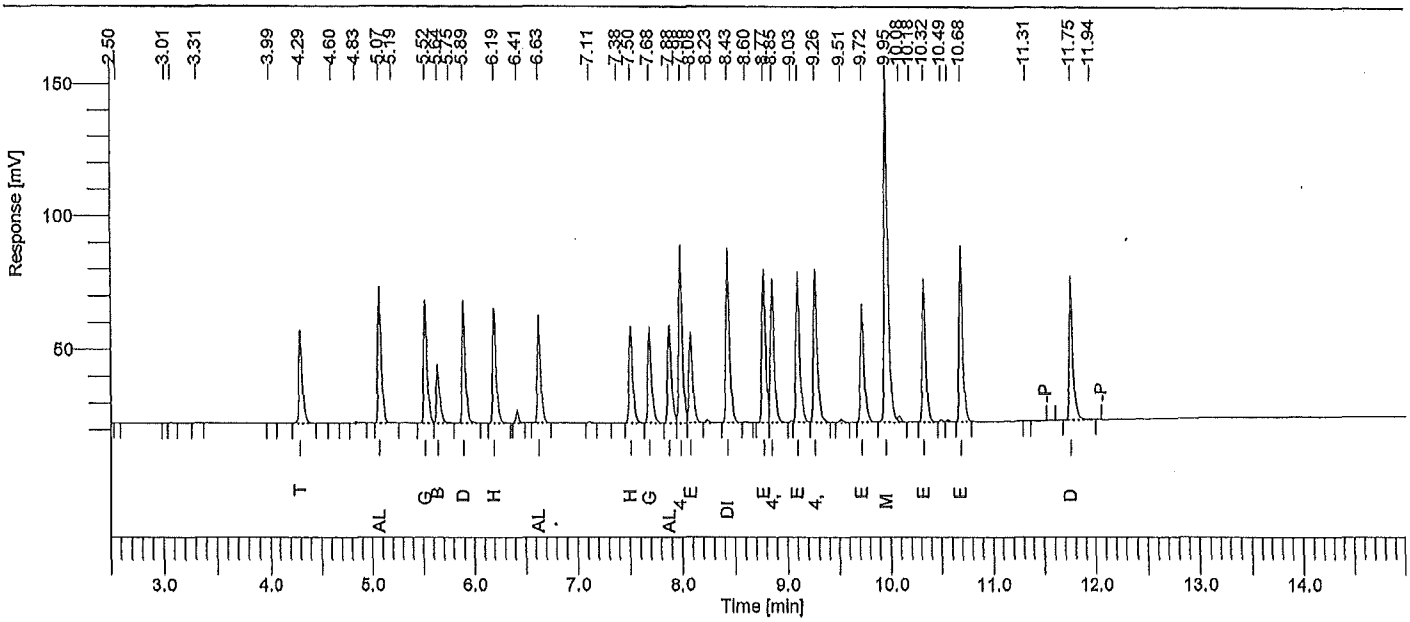

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	82556	0.0394026
5.07	alpha-BHC	112512	0.0429567
5.52	gamma-BHC	102493	0.0423812
5.64	beta-BHC	51437	0.0405363
5.89	delta-BHC	101496	0.0436145
6.19	Heptachlor	100629	0.0410673
6.63	Aldrin	93707	0.0422763
7.50	Heptachlor epoxide	87184	0.0409936
7.68	gamma-Chlordane	89113	0.0409880
7.88	alpha-Chlordane	90376	0.0404462
7.98	4,4'-DDE	161302	0.0833373
8.08	Endosulfan I	83971	0.0412919
8.43	Dieldrin	162717	0.0827552
8.77	Endrin	138799	0.0847162
8.85	4,4'-DDD	135204	0.0831303
9.10	Endosulfan II	142649	0.0808558
9.26	4,4'-DDT	143098	0.0840111
9.72	Endrin aldehyde	115899	0.0812022
9.95	Methoxychlor	325137	0.3946384
10.32	Endosulfan sulfate	130343	0.0817863
10.68	Endrin ketone	157765	0.0804402
11.75	Decachlorobiphenyl	128961	0.0769809

Software Version	: 6.3.1.0504	Date	: 03/10/2015 11:41:09
Reprocess Number	: nasltw7057: 2143684		
Operator	: sagers		
Sample Number	: 015	Sample Name	: INDC511
AutoSampler	: HP7673A	Study	: 21566
Instrument Name	: GCE21	Rack/Vial	: 0/15
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.70 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 02:22:41	Dilution Factor	: 1.00
		Cycle	: 14

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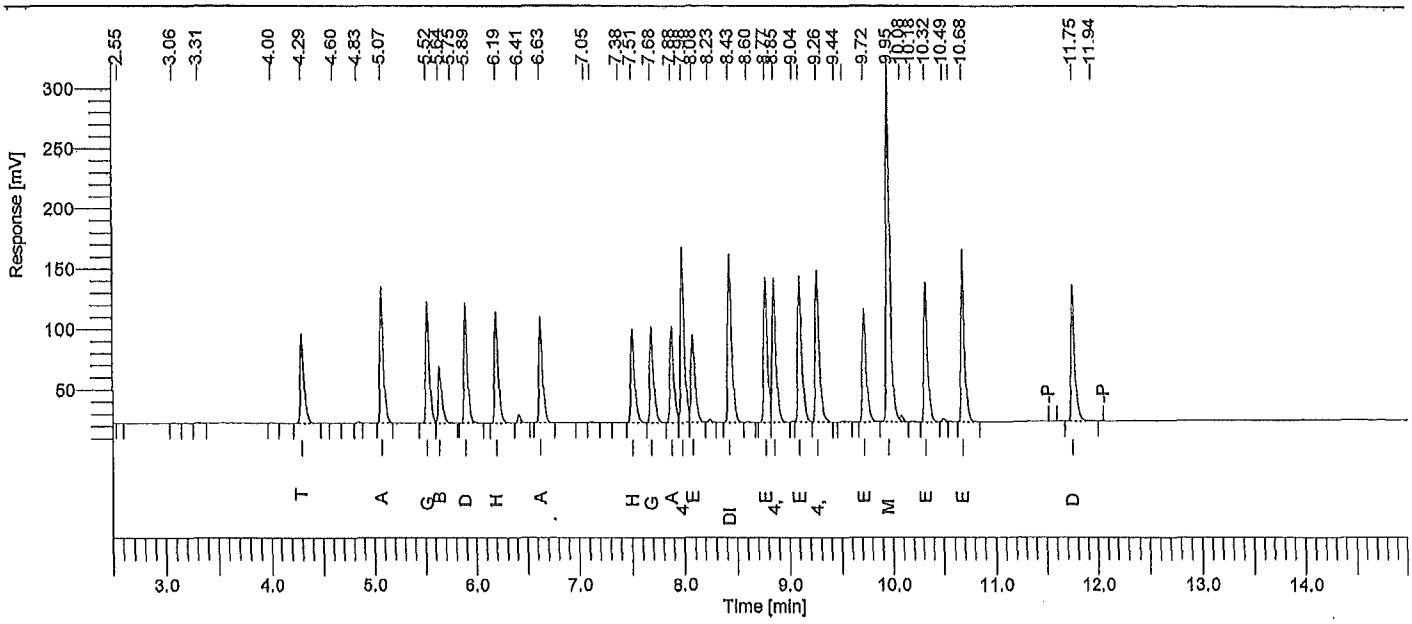

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.29	Tetrachloro-m-xylene	179447	0.0856470
5.07	alpha-BHC	256882	0.0980766
5.52	gamma-BHC	231945	0.0959099
5.64	beta-BHC	113128	0.0891537
5.89	delta-BHC	230157	0.0989022
6.19	Heptachlor	224061	0.0914403
6.63	Aldrin	213913	0.0965074
7.51	Heptachlor epoxide	194763	0.0915769
7.68	gamma-Chlordane	200662	0.0923052
7.88	alpha-Chlordane	201158	0.0900251
7.98	4,4'-DDE	365385	0.1687775
8.08	Endosulfan I	189690	0.0932782
8.43	Dieldrin	361702	0.1839563
8.77	Endrin	298761	0.1811287
8.85	4,4'-DDD	307869	0.1892937
9.10	Endosulfan II	315796	0.1789984
9.26	4,4'-DDT	324116	0.1902846
9.72	Endrin aldehyde	251694	0.1763442
9.95	Methoxychlor	711622	0.8637387
10.32	Endosulfan sulfate	288450	0.1809937
10.68	Endrin ketone	351131	0.1790330
11.75	Decachlorobiphenyl	269242	0.1607188

Software Version	: 6.3.1.0504	Date	: 03/10/2015 11:41:15
Reprocess Number	: nasltw7057; 2143685		
Operator	: sagers		
Sample Number	: 016	Sample Name	: PIBLK21
AutoSampler	: HP7673A	Study	: 21567
Instrument Name	: GCE21	Rack/Vial	: 0/16
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.70 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 02:44:07	Dilution Factor	: 1.00
		Cycle	: 15

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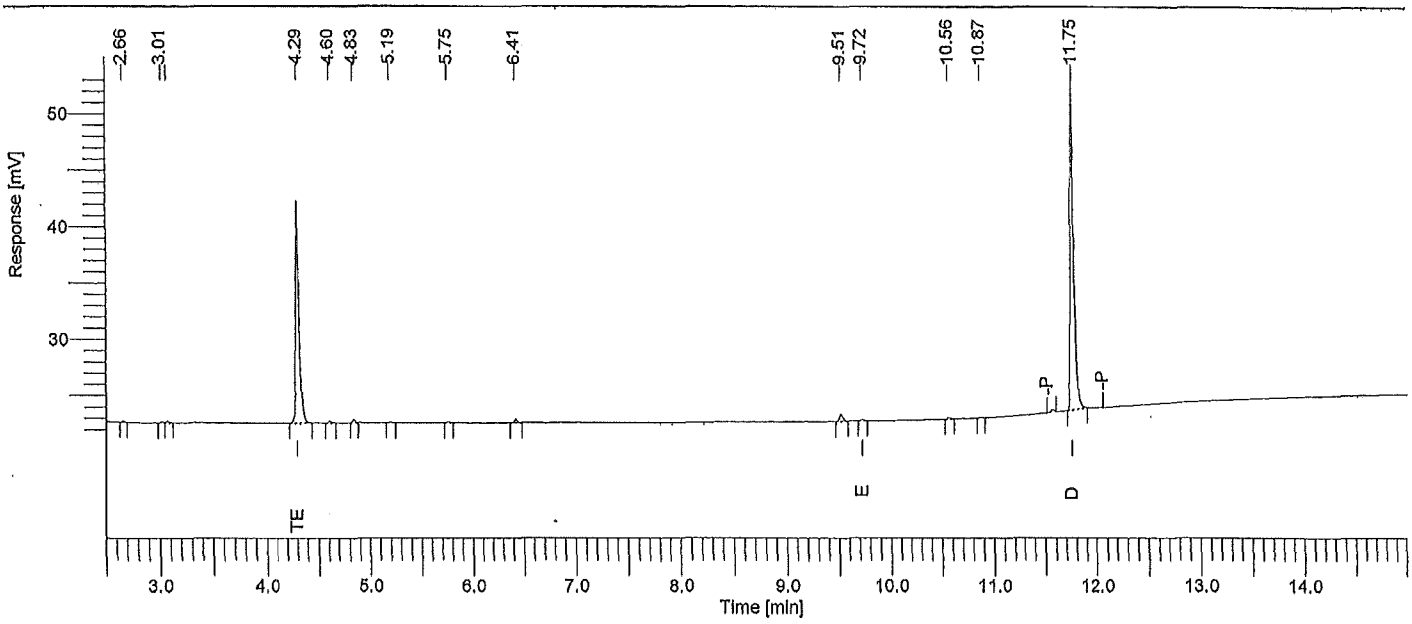

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.29	Tetrachloro-m-xylene	45218	0.021582	1	10	1.000	1.000	0.050000	0.215818	0.2000	107.9
5.07	alpha-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.52	gamma-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.64	beta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.89	delta-BHC	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.19	Heptachlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.63	Aldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.50	Heptachlor epoxide	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.68	gamma-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.88	alpha-Chlordane	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.98	4,4'-DDE	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.08	Endosulfan I	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.43	Dieldrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.77	Endrin	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.85	4,4'-DDD	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.10	Endosulfan II	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.26	4,4'-DDT	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
9.72	Endrin aldehyde	209	1.46e-04	1	10	1.000	1.000	0.100000	0.001465	0.0000	-----
9.95	Methoxychlor	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.32	Endosulfan sulfate	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
10.68	Endrin ketone	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
11.75	Decachlorobiphenyl	70495	0.042081	1	10	1.000	1.000	0.100000	0.420808	0.4000	105.2

All analytes <CRQL.

Software Version	: 6.3.1.0504	Date	: 03/10/2015 11:41:20
Reprocess Number	: nasltw7057; 2143686		
Operator	: sagers		
Sample Number	: 017	Sample Name	: PEM21
AutoSampler	: HP7673A	Study	: 21568
Instrument Name	: GCE21	Rack/Vial	: 0/17
Instrument Serial #	: None	Channel	: A
Delay Time	: 0.00 min	A/D mV Range	: 1000
Sampling Rate	: 5.0000 pts/s	End Time	: 16.70 min
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 03/10/2015 03:05:38	Dilution Factor	: 1.00
		Cycle	: 16

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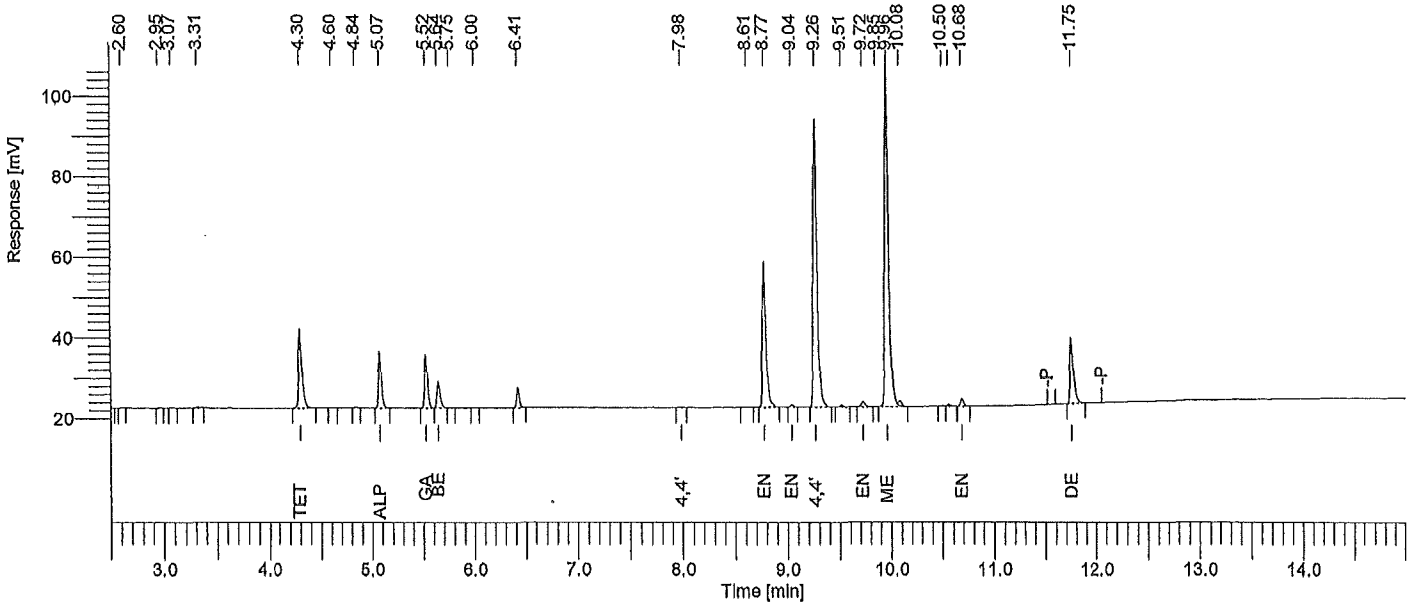

Instrument ID: GC21A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST PEM REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.30	Tetrachloro-m-xylene	44834	0.0213987	0.0213987	0.02000	107.0
5.07	alpha-BHC	27916	0.0106582	0.0106582	0.01000	106.6
5.52	gamma-BHC	26557	0.0109813	0.0109813	0.01000	109.8
5.64	beta-BHC	14447	0.0113852	0.0113852	0.01000	113.9
5.89	delta-BHC	0	0.0000000	0.0000000	----------	------
6.19	Heptachlor	0	0.0000000	0.0000000	----------	------
6.63	Aldrin	0	0.0000000	0.0000000	----------	------
7.50	Heptachlor epoxide	0	0.0000000	0.0000000	----------	------
7.68	gamma-Chlordane	0	0.0000000	0.0000000	----------	------
7.88	alpha-Chlordane	0	0.0000000	0.0000000	----------	------
7.98	4,4'-DDE	236	0.0001218	0.0001218	0.10000	0.1
8.08	Endosulfan I	0	0.0000000	0.0000000	----------	------
8.43	Dieldrin	0	0.0000000	0.0000000	----------	------
8.77	Endrin	90290	0.0551090	0.0551090	0.05000	110.2
8.85	4,4'-DDD	0	0.0000000	0.0000000	----------	------
9.04	Endosulfan II	1159	0.0006568	0.0006568	0.00000	------
9.26	4,4'-DDT	181747	0.1067014	0.1067014	0.10000	106.7
9.72	Endrin aldehyde	2980	0.0020879	0.0020879	0.05000	4.2
9.96	Methoxychlor	216738	0.2630684	0.2630684	0.25000	105.2
10.32	Endosulfan sulfate	0	0.0000000	0.0000000	----------	------
10.68	Endrin ketone	3719	0.0018963	0.0018963	0.05000	3.8
11.75	Decachlorobiphenyl	38352	0.0228935	0.0228935	0.02000	114.5
			0.5089585			881.9

01263

03/10/2015 11:41:20 Result: \\Alsltws012\TCCS\sagers\GCE21\21150309\21150309A_017.rst

Group Report For : 4,4'-DDT breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
7.98	4,4'-DDE	236	0.0001218	0.0001218	0.10000	0.1
8.85	4,4'-DDD	0	0.0000000	0.0000000	----------	------
			0.0001218			0.1

Group Report For : Endrin breakdown

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
9.72	Endrin aldehyde	2980	0.0020879	0.0020879	0.05000	4.2
10.68	Endrin ketone	3719	0.0018963	0.0018963	0.05000	3.8
			0.0039842			8.0

All analytes <= to +/-25%. Breakdown <=20%, 30% total. Res >=80% primary, 50% confirmation.

2R - FORM II ARO-2
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	ABLKS1	64	73	113	107			0
02	ALCSS1	54	61	88	85			0
03	F9L58	72	86	98	102			0
04	F9L59	73	79	99	97			0
05	F9L60	77	84	108	99			0
06	F9L61	64	77	93	92			0
07	F9L62	75	87	107	101			0
08	F9L63	74	98	94	104			0
09	F9L64	76	96	109	109			0
10	F9L65	80	106	112	113			0
11	F9L66	70	86	99	95			0
12	F9L67	83	99	111	90			0
13	F9L68	78	102	118	110			0
14	F9L69	74	98	107	100			0
15	F9L70	91	109	120	101			0
16	F9L71	49	65	73	63			0
17	F9L72	82	104	111	94			0
18	F9L73	76	94	101	99			0
19	F9L75	83	105	109	101			0
20	F9L77	63	83	85	80			0
21	F9L78	73	93	102	90			0
22	F9L79	69	80	97	87			0
23	F9L66MS	69	85	101	94			0
24	F9L66MSD	78	85	116	100			0
25								
26								
27								
28								
29								
30								

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3K - FORM III ARO-2

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix Spike - EPA Sample No.: F9L66

Instrument ID: GCE20 GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
AR1016	160	0	150	97	29-135
AR1260	160	0	160	102	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	160	170	113	15	0-15	29-135
AR1260	160	170	111	8	0-20	29-135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

3K - FORM III ARO-2

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix Spike - EPA Sample No.: F9L66

Instrument ID: GCE20 GC Column: RTXCLP2 ID: 0.32 (mm)

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS %REC #	QC LIMITS REC.
AR1016	160	0	180	118	29-135
AR1260	160	0	180	114	29-135

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
AR1016	160	190	120	2	0-15	29-135
AR1260	160	200	128	11	0-20	29-135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

3P - FORM III ARO-4

SOIL AROCLOR LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

ALCSS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 448476 LCS Lot No.:

Date Extracted: 05/27/2015 Date Analyzed (1): 06/05/2015

Instrument ID (1): GCE20 GC Column (1): RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
AR1016	33.	31.	92	50-150
AR1260	33.	39.	116	50-150

Instrument ID (2): GCE20 GC Column (2): RTXCLP2 ID: 0.32 (mm)

Date Analyzed (2): 06/05/2015

COMPOUND	AMOUNT ADDED (ug/kg)	AMOUNT RECOVERED (ug/kg)	%REC #	QC LIMITS
AR1016	33.	32.	96	50-150
AR1260	33.	37.	112	50-150

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

COMMENTS:

4F - FORM IV ARO

AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab File ID: 20150604A019,20150604B019 Lab Sample ID: 448474

Matrix: (SOIL/SED/WATER) SOIL Extraction: (Type) SONC Date Extracted: 05/27/2015

Sulfur Cleanup: (Y/N) Y GPC Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

Date Analyzed (1): 06/05/2015 Date Analyzed (2): 06/05/2015

Time Analyzed (1): 04:08 Time Analyzed (2): 04:24

Instrument ID (1): GCE20 Instrument ID (2): GCE20

GC Column(1): RTXCLP ID: 0.32 (mm) GC Column(2): RTXCLP2 ID: 0.32 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	ALCSS1	448476	06/05/2015	06/05/2015
02	F9L58	1514293001	06/05/2015	06/05/2015
03	F9L59	1514293002	06/05/2015	06/05/2015
04	F9L60	1514293003	06/05/2015	06/05/2015
05	F9L61	1514293004	06/05/2015	06/05/2015
06	F9L62	1514293005	06/05/2015	06/05/2015
07	F9L63	1514293006	06/05/2015	06/05/2015
08	F9L64	1514293007	06/05/2015	06/05/2015
09	F9L65	1514293008	06/05/2015	06/05/2015
10	F9L66	1514293009	06/05/2015	06/05/2015
11	F9L67	1514293012	06/05/2015	06/05/2015
12	F9L68	1514293013	06/05/2015	06/05/2015
13	F9L69	1514293014	06/05/2015	06/05/2015
14	F9L70	1514293015	06/05/2015	06/05/2015
15	F9L71	1514293016	06/05/2015	06/05/2015
16	F9L72	1514293017	06/05/2015	06/05/2015
17	F9L73	1514293018	06/05/2015	06/05/2015
18	F9L75	1514293019	06/05/2015	06/05/2015
19	F9L77	1514293020	06/05/2015	06/05/2015
20	F9L78	1514293021	06/05/2015	06/05/2015
21	F9L79	1514293022	06/05/2015	06/05/2015
22	F9L66MS	1514293010	06/05/2015	06/05/2015
23	F9L66MSD	1514293011	06/05/2015	06/05/2015
24				
25				
26				

COMMENTS:

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L58

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293001

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150604A021,20150604B021

% Moisture: 17. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	40.	U
11104-28-2	Aroclor-1221	40.	U
11141-16-5	Aroclor-1232	40.	U
53469-21-9	Aroclor-1242	40.	U
12672-29-6	Aroclor-1248	40.	U
11097-69-1	Aroclor-1254	40.	U
11096-82-5	Aroclor-1260	40.	U
37324-23-5	Aroclor-1262	40.	U
11100-14-4	Aroclor-1268	40.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:37:35
Operator	: borges	Sample Name	: 1514293001
Sample Number	: 21	Study	: F9L58
AutoSampler	: HP7673A	Rack/Vial	: 0/21
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 04:40:47	Dilution Factor	: 1.00
		Cycle	: 20

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_021.raw
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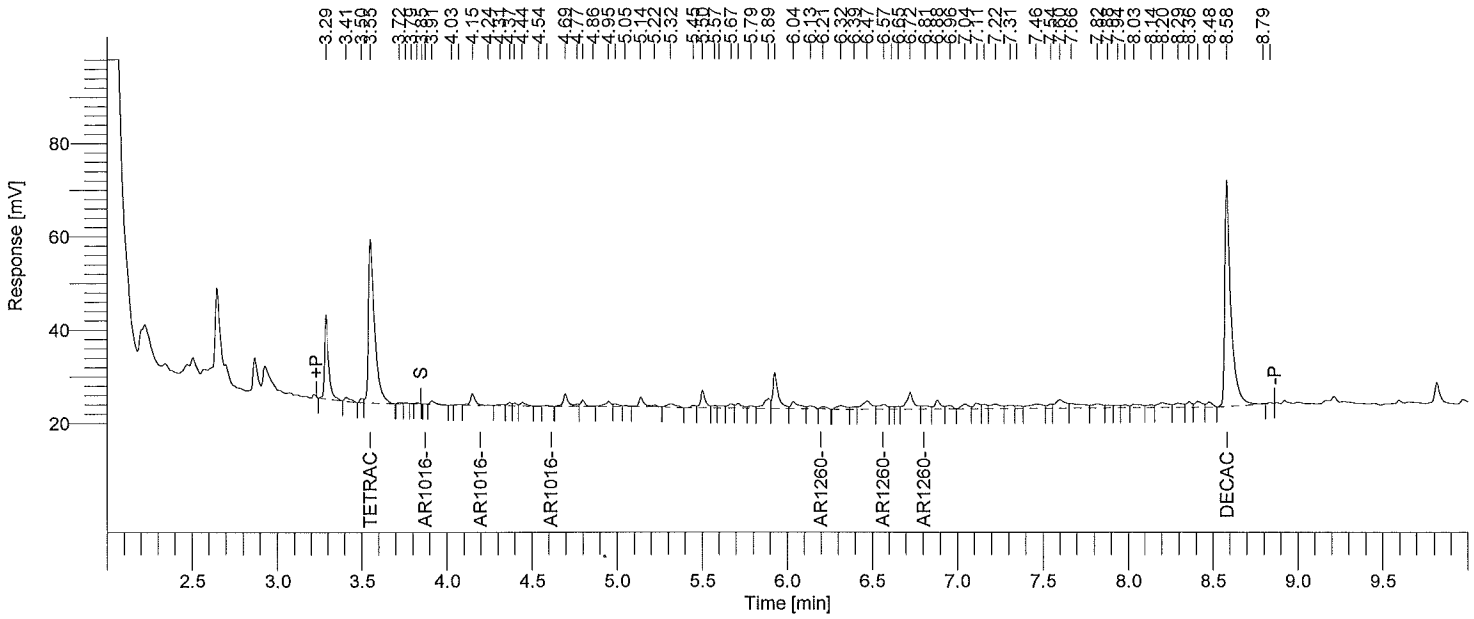

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	87882	0.04311936	1	10	0.03015	0.995	1.6584	14.30161	19.90	71.9
3.88	AR1016-1	126	2.9824e-03	1	10	0.03015	0.995	33.1675	0.98918	0.00	------
4.24	AR1016-2	322	3.9541e-03	1	10	0.03015	0.995	33.1675	1.31148	0.00	------
4.59	AR1016-3	500	3.4774e-03	1	10	0.03015	0.995	33.1675	1.15338	0.00	------
6.21	AR1260-1	1231	0.01392337	1	10	0.03015	0.995	33.1675	4.61803	0.00	------
6.57	AR1260-2	3668	0.07225705	1	10	0.03015	0.995	33.1675	23.96585	0.00	------
6.81	AR1260-3	2445	0.04130928	1	10	0.03015	0.995	33.1675	13.70126	0.00	------
8.58	Decachlorobiphenyl	120005	0.11765953	1	10	0.03015	0.995	3.3167	39.02472	39.80	98.0

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:21
Operator	: borges	Sample Name	: 1514293001
Sample Number	: 21	Study	: F9L58
AutoSampler	: HP7673A	Rack/Vial	: 0/21
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 04:56:56	Dilution Factor	: 1.00
		Cycle	: 21

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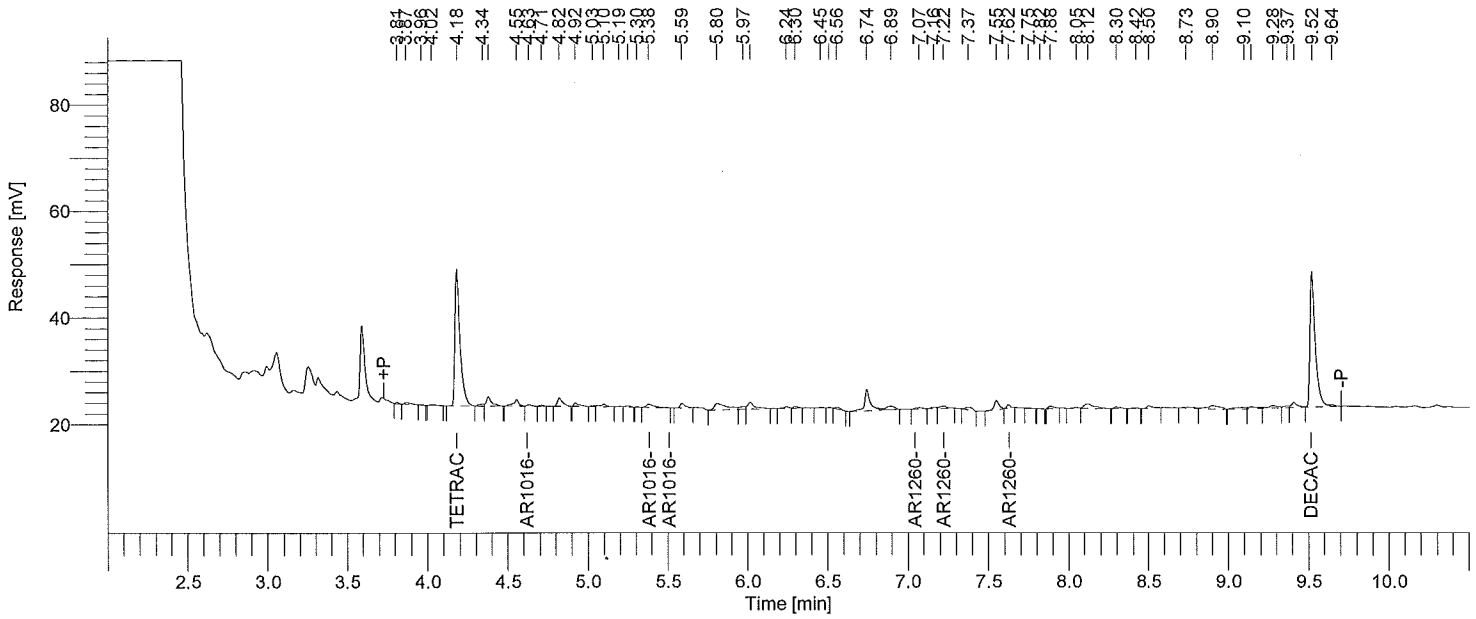

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	56056	0.05142291	1	10	0.03015	0.995	1.6584	17.05569	19.90	85.7
4.63	AR1016-1	613	0.02731059	1	10	0.03015	0.995	33.1675	9.05824	0.00	------
5.38	AR1016-2	2220	0.03076208	1	10	0.03015	0.995	33.1675	10.20301	0.00	------
5.51	AR1016-3	0	0.00000000	1	10	0.03015	0.995	---------	0.00000	--------	------
7.07	AR1260-1	1070	0.02266845	1	10	0.03015	0.995	33.1675	7.51856	0.00	------
7.22	AR1260-2	1411	0.02863521	1	10	0.03015	0.995	33.1675	9.49758	0.00	------
7.62	AR1260-3	936	0.02654755	1	10	0.03015	0.995	33.1675	8.80516	0.00	------
9.52	Decachlorobiphenyl	57678	0.12210162	1	10	0.03015	0.995	3.3167	40.49805	39.80	101.8

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L59

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293002

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150604A022,20150604B022

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	39.	U
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	39.	U
11096-82-5	Aroclor-1260	39.	U
37324-23-5	Aroclor-1262	39.	U
11100-14-4	Aroclor-1268	39.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:37:37
Operator	: borges	Sample Name	: 1514293002
Sample Number	: 22	Study	: F9L59
AutoSampler	: HP7673A	Rack/Vial	: 0/22
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 04:56:56	Dilution Factor	: 1.00
		Cycle	: 21

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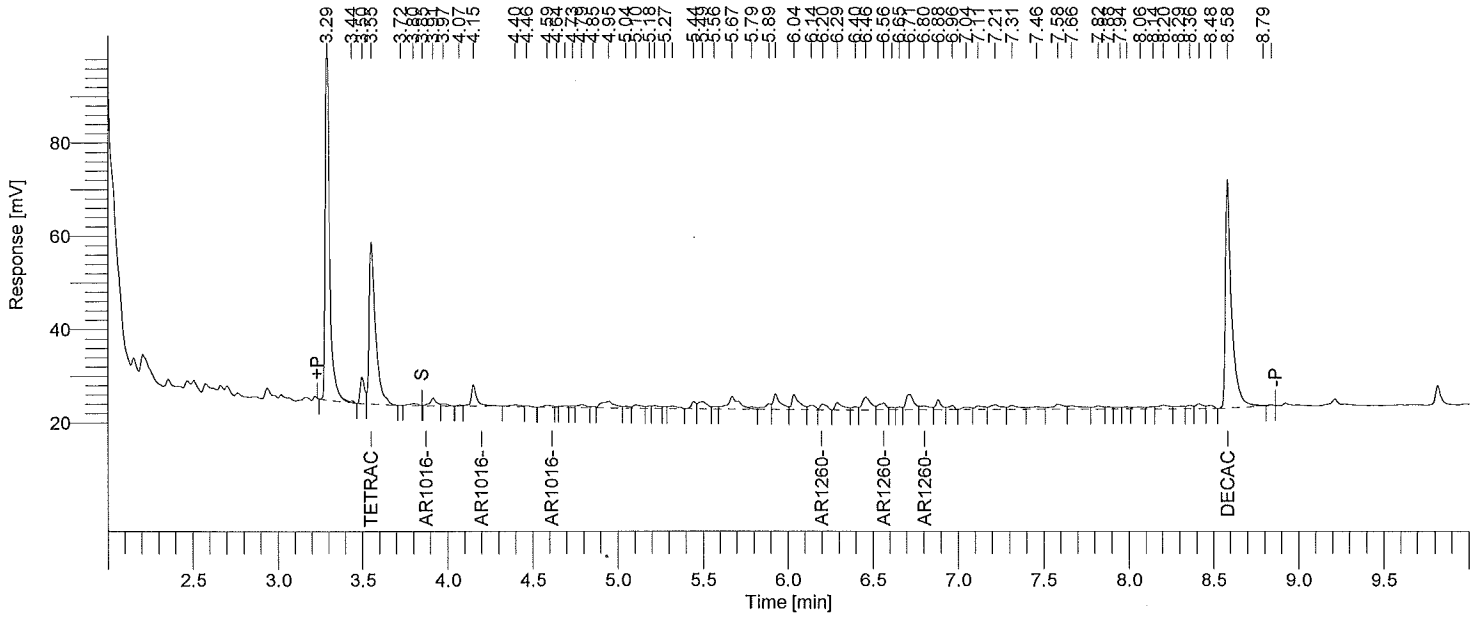

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	89308	0.04381895	1	10	0.03020	0.993	1.6556	14.50958	19.87	73.0
3.85	AR1016-1	54	1.2817e-03	1	10	0.03020	0.993	33.1126	0.42439	0.00	------
4.15	AR1016-2	10505	0.12880053	1	10	0.03020	0.993	33.1126	42.64918	0.00	------
4.59	AR1016-3	1616	0.01122688	1	10	0.03020	0.993	33.1126	3.71751	0.00	------
6.20	AR1260-1	3226	0.03649237	1	10	0.03020	0.993	33.1126	12.08357	0.00	------
6.56	AR1260-2	4662	0.09185581	1	10	0.03020	0.993	33.1126	30.41583	0.00	------
6.80	AR1260-3	3331	0.05628907	1	10	0.03020	0.993	33.1126	18.63876	0.00	------
8.58	Decachlorobiphenyl	121616	0.11923854	1	10	0.03020	0.993	3.3113	39.48296	39.74	99.4

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:22
Operator	: borges	Sample Name	: 1514293002
Sample Number	: 22	Study	: F9L59
AutoSampler	: HP7673A	Rack/Vial	: 0/22
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 05:13:04	Dilution Factor	: 1.00
		Cycle	: 22

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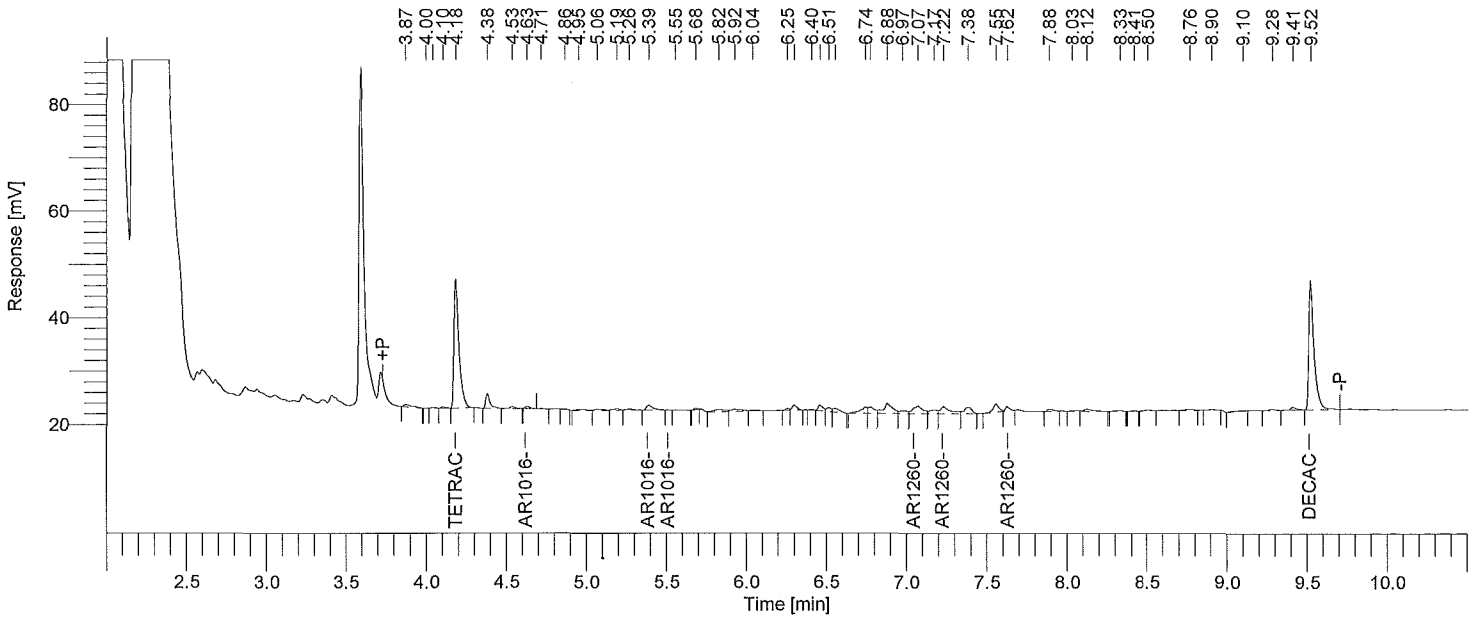
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_022.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_022.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	51656	0.04738661	1	10	0.03020	0.993	1.6556	15.69093	19.87	79.0
4.63	AR1016-1	950	0.04233493	1	10	0.03020	0.993	33.1126	14.01819	0.00	------
5.39	AR1016-2	2504	0.03469589	1	10	0.03020	0.993	33.1126	11.48871	0.00	------
5.55	AR1016-3	176	5.4261e-03	1	10	0.03020	0.993	33.1126	1.79672	0.00	------
7.07	AR1260-1	6117	0.12955063	1	10	0.03020	0.993	33.1126	42.89756	0.00	------
7.22	AR1260-2	5595	0.11355152	1	10	0.03020	0.993	33.1126	37.59984	0.00	------
7.62	AR1260-3	1473	0.04178908	1	10	0.03020	0.993	33.1126	13.83744	0.00	------
9.52	Decachlorobiphenyl	54967	0.11636200	1	10	0.03020	0.993	3.3113	38.53046	39.74	97.0

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L60

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293003

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 20150604A023,20150604B023

% Moisture: 19. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	40.	U
11104-28-2	Aroclor-1221	40.	U
11141-16-5	Aroclor-1232	40.	U
53469-21-9	Aroclor-1242	40.	U
12672-29-6	Aroclor-1248	40.	U
11097-69-1	Aroclor-1254	40.	U
11096-82-5	Aroclor-1260	40.	U
37324-23-5	Aroclor-1262	40.	U
11100-14-4	Aroclor-1268	40.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:37:38
Operator	: borges	Sample Name	: 1514293003
Sample Number	: 23	Study	: F9L60
AutoSampler	: HP7673A	Rack/Vial	: 0/23
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 05:13:04	Dilution Factor	: 1.00
		Cycle	: 22

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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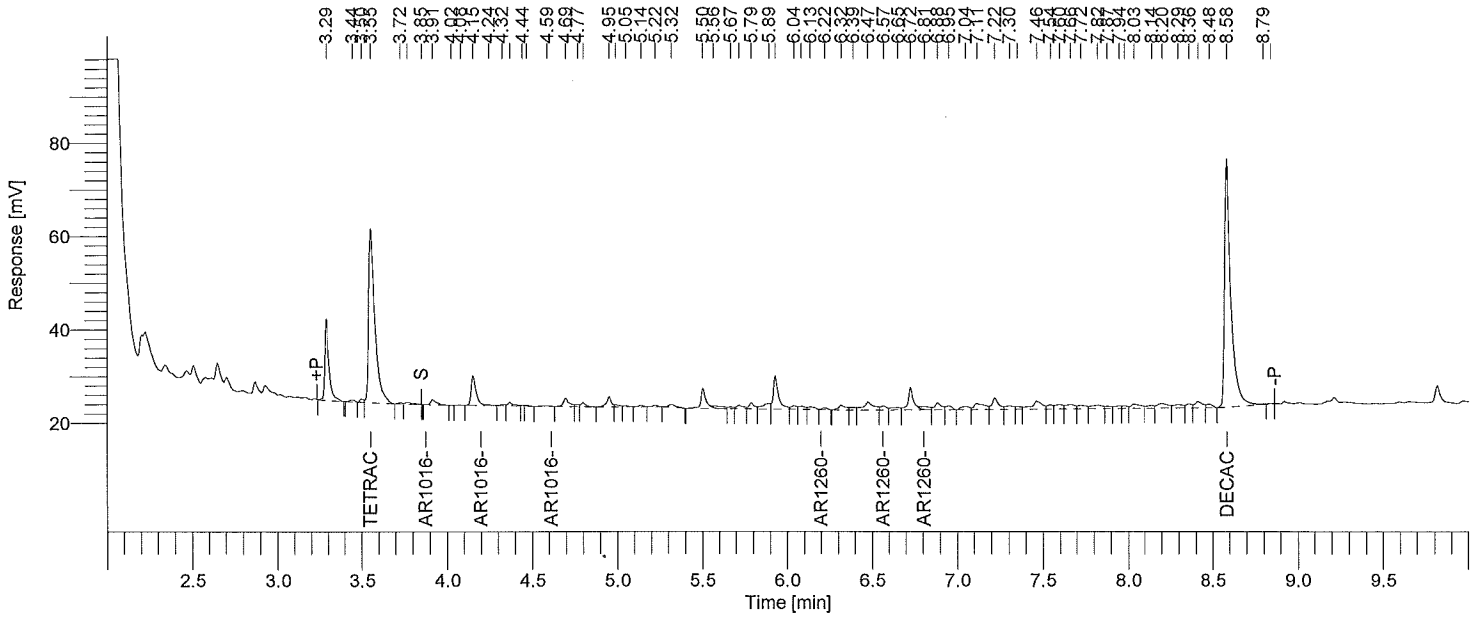

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	93550	0.04590042	1	10	0.03030	0.990	1.6502	15.14865	19.80	76.5
3.85	AR1016-1	4	8.9212e-05	1	10	0.03030	0.990	33.0033	0.02944	0.00	------
4.24	AR1016-2	402	4.9314e-03	1	10	0.03030	0.990	33.0033	1.62752	0.00	------
4.59	AR1016-3	597	4.1508e-03	1	10	0.03030	0.990	33.0033	1.36991	0.00	------
6.22	AR1260-1	906	0.01024652	1	10	0.03030	0.990	33.0033	3.38169	0.00	------
6.57	AR1260-2	2124	0.04185398	1	10	0.03030	0.990	33.0033	13.81320	0.00	------
6.81	AR1260-3	2513	0.04245989	1	10	0.03030	0.990	33.0033	14.01317	0.00	------
8.58	Decachlorobiphenyl	132539	0.12994814	1	10	0.03030	0.990	3.3003	42.88718	39.60	108.3

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:24
Operator	: borges	Sample Name	: 1514293003
Sample Number	: 23	Study	: F9L60
AutoSampler	: HP7673A	Rack/Vial	: 0/23
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 05:29:14	Dilution Factor	: 1.00
		Cycle	: 23

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_023.raw
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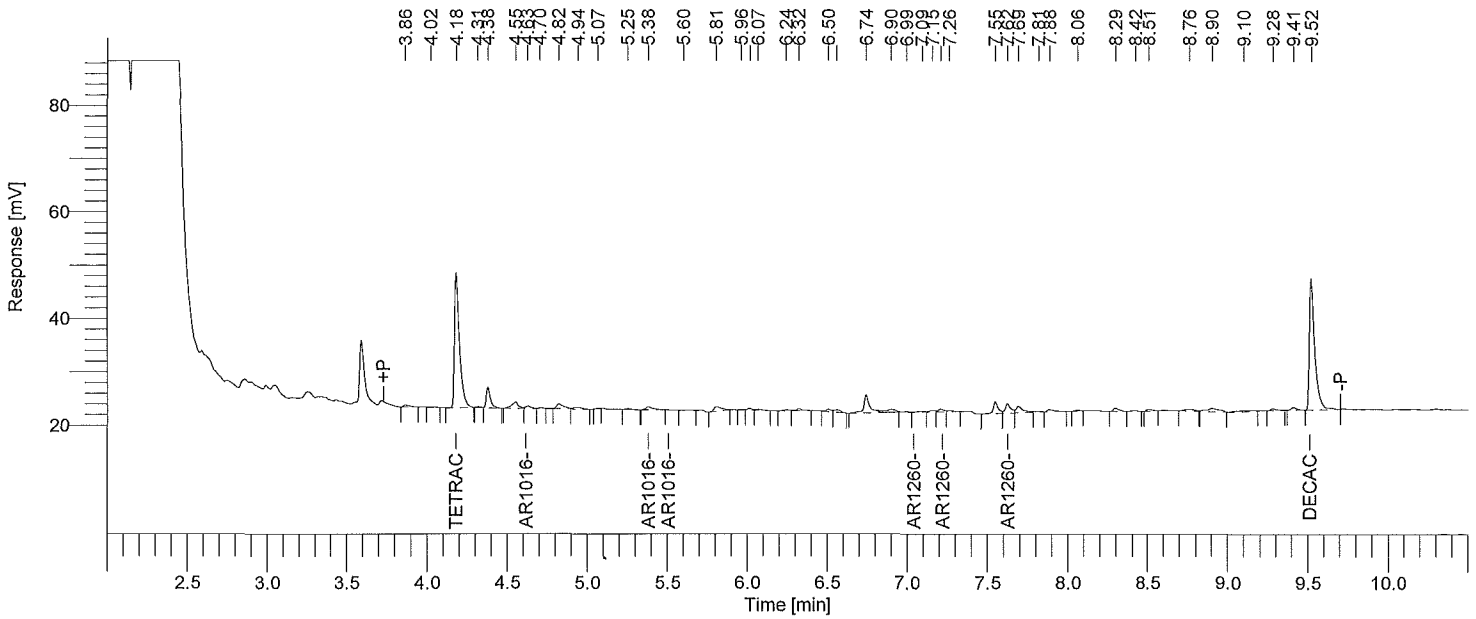

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	55053	0.05050328	1	10	0.03030	0.990	1.6502	16.66775	19.80	84.2
4.63	AR1016-1	1033	0.04606465	1	10	0.03030	0.990	33.0033	15.20286	0.00	------
5.38	AR1016-2	2004	0.02776666	1	10	0.03030	0.990	33.0033	9.16392	0.00	------
5.51	AR1016-3	0	0.00000000	1	10	0.03030	0.990	---------	0.00000	--------	------
6.99	AR1260-1	753	0.01594427	1	10	0.03030	0.990	33.0033	5.26214	0.00	------
7.21	AR1260-2	1294	0.02625762	1	10	0.03030	0.990	33.0033	8.66588	0.00	------
7.62	AR1260-3	4180	0.11855755	1	10	0.03030	0.990	33.0033	39.12790	0.00	------
9.52	Decachlorobiphenyl	56076	0.11870904	1	10	0.03030	0.990	3.3003	39.17790	39.60	98.9

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L61

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293004

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150604A024,20150604B024

% Moisture: 16. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	39.	U
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	39.	U
11096-82-5	Aroclor-1260	39.	U
37324-23-5	Aroclor-1262	39.	U
11100-14-4	Aroclor-1268	39.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:37:40
Operator	: borges	Sample Name	: 1514293004
Sample Number	: 24	Study	: F9L61
AutoSampler	: HP7673A	Rack/Vial	: 0/24
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 05:29:14	Dilution Factor	: 1.00
		Cycle	: 23

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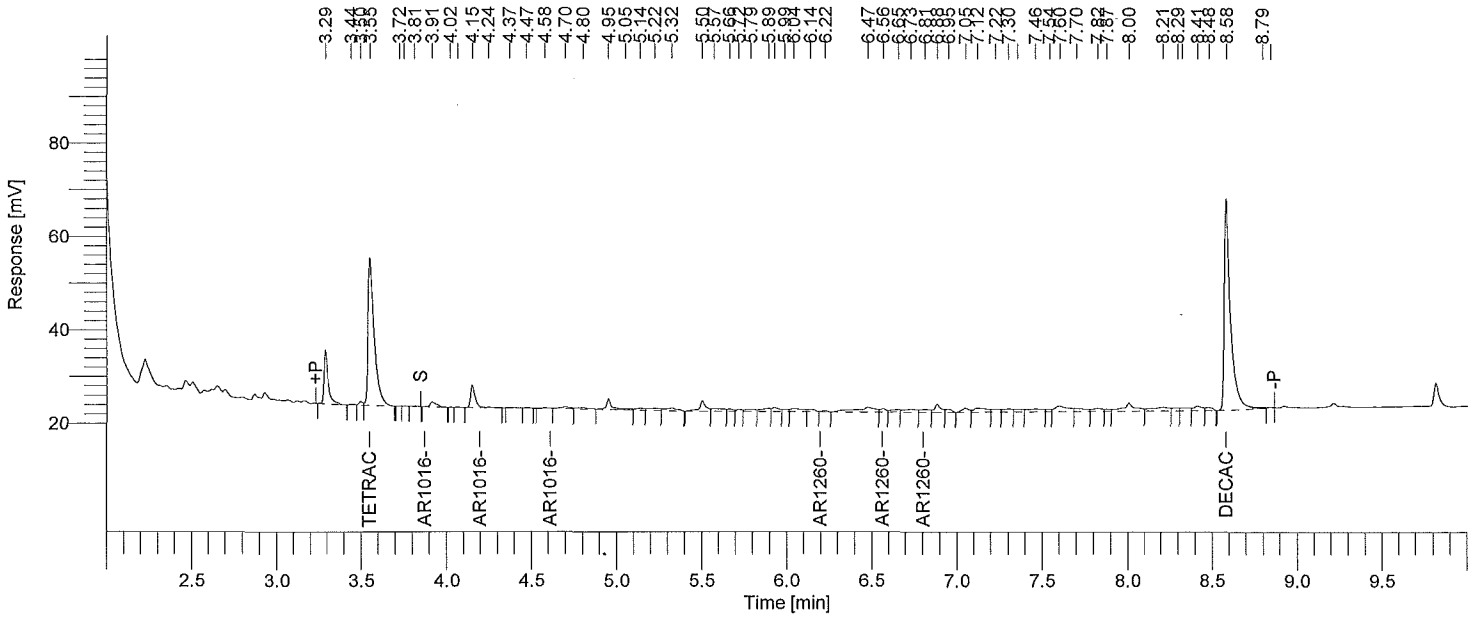

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	78294	0.03841503	1	10	0.03016	0.995	1.6578	12.73708	19.89	64.0
3.91	AR1016-1	2810	0.06664591	1	10	0.03016	0.995	33.1565	22.09745	0.00	------
4.24	AR1016-2	440	5.3970e-03	1	10	0.03016	0.995	33.1565	1.78944	0.00	------
4.58	AR1016-3	436	3.0307e-03	1	10	0.03016	0.995	33.1565	1.00486	0.00	------
6.22	AR1260-1	660	7.4619e-03	1	10	0.03016	0.995	33.1565	2.47410	0.00	------
6.56	AR1260-2	1809	0.03563129	1	10	0.03016	0.995	33.1565	11.81409	0.00	------
6.81	AR1260-3	2762	0.04667031	1	10	0.03016	0.995	33.1565	15.47424	0.00	------
8.58	Decachlorobiphenyl	113978	0.11175007	1	10	0.03016	0.995	3.3156	37.05241	39.79	93.1

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:25
Operator	: borges	Sample Name	: 1514293004
Sample Number	: 24	Study	: F9L61
AutoSampler	: HP7673A	Rack/Vial	: 0/24
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 05:45:18	Dilution Factor	: 1.00
		Cycle	: 24

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_024.raw
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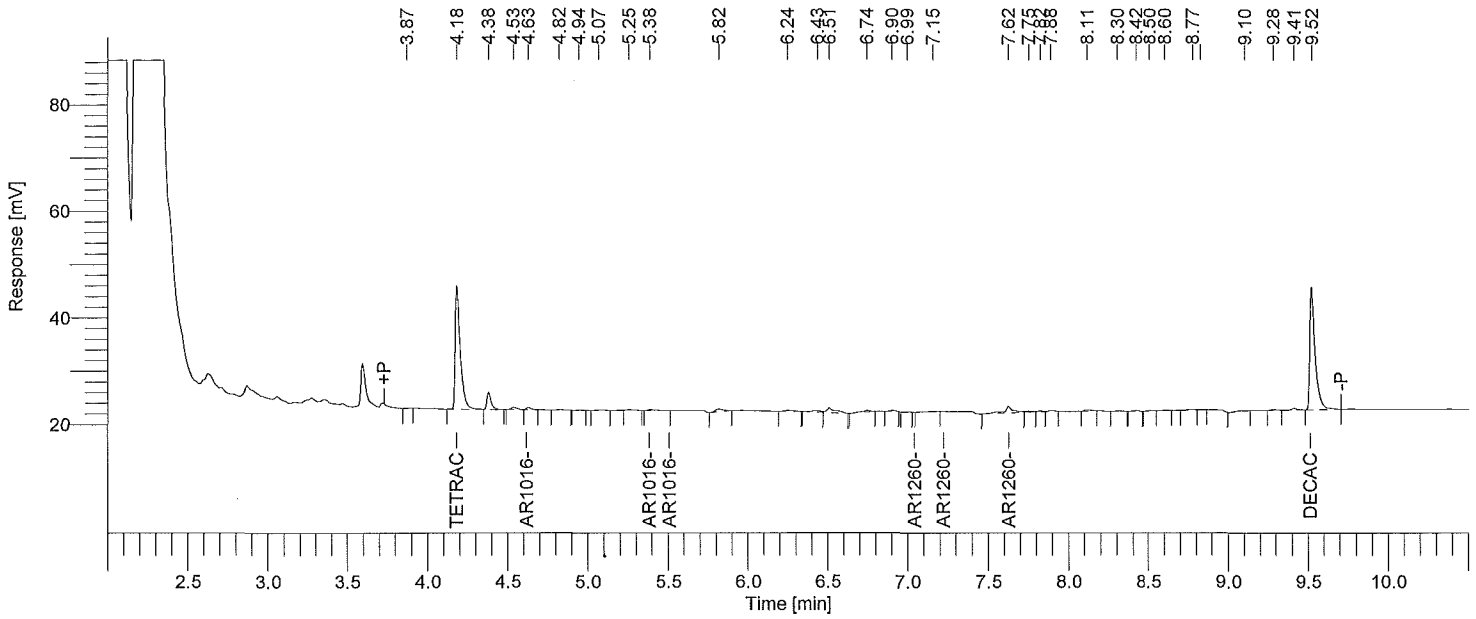
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_024.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_024.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	50581	0.04640055	1	10	0.03016	0.995	1.6578	15.38480	19.89	77.3
4.63	AR1016-1	864	0.03853663	1	10	0.03016	0.995	33.1565	12.77740	0.00	------
5.38	AR1016-2	735	0.01017972	1	10	0.03016	0.995	33.1565	3.37524	0.00	------
5.51	AR1016-3	0	0.00000000	1	10	0.03016	0.995	--------	0.00000	--------	------
6.99	AR1260-1	287	6.0782e-03	1	10	0.03016	0.995	33.1565	2.01531	0.00	------
7.22	AR1260-2	0	0.00000000	1	10	0.03016	0.995	--------	0.00000	--------	------
7.62	AR1260-3	5016	0.14226713	1	10	0.03016	0.995	33.1565	47.17080	0.00	------
9.52	Decachlorobiphenyl	52294	0.11070277	1	10	0.03016	0.995	3.3156	36.70516	39.79	92.3

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L62

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293005

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150604A025,20150604B025

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	39.	U
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	39.	U
11096-82-5	Aroclor-1260	39.	U
37324-23-5	Aroclor-1262	39.	U
11100-14-4	Aroclor-1268	39.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:37:59
Operator	: borges	Sample Name	: 1514293005
Sample Number	: 25	Study	: F9L62
AutoSampler	: HP7673A	Rack/Vial	: 0/25
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 05:45:18	Dilution Factor	: 1.00
		Cycle	: 24

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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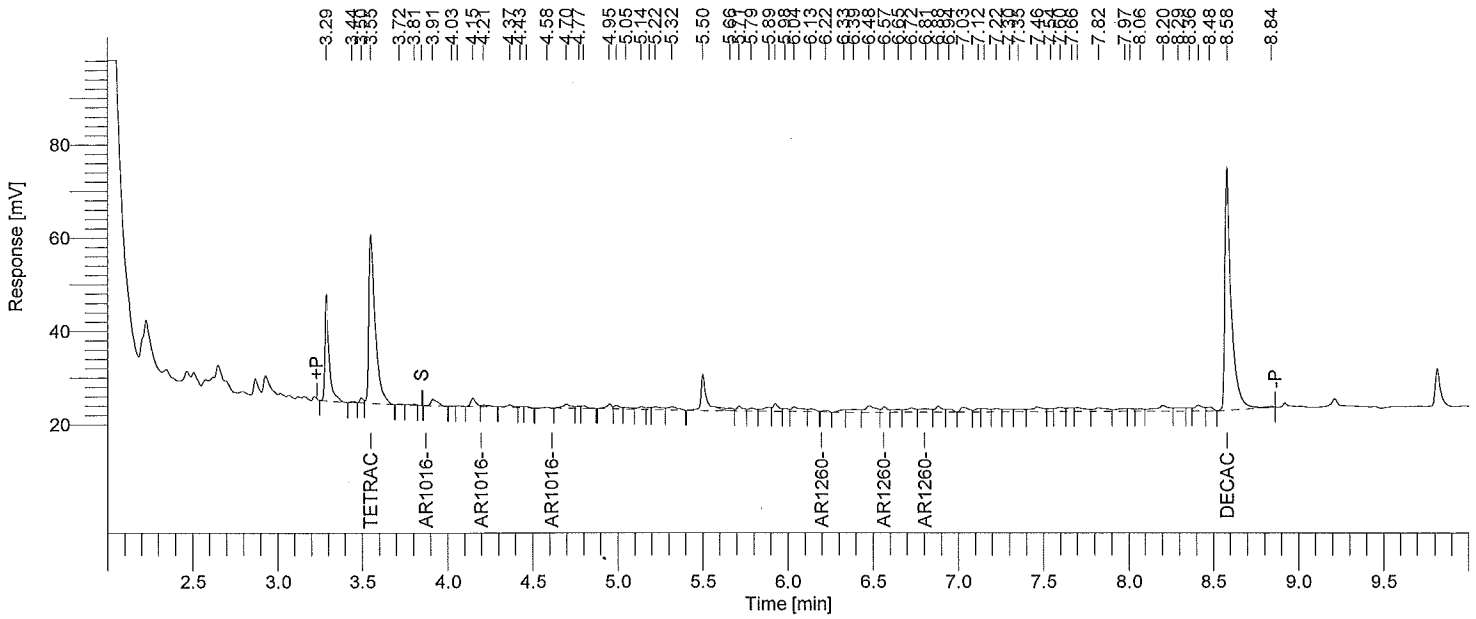

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	91452	0.04487095	1	10	0.03016	0.995	1.6578	14.87764	19.89	74.8
3.85	AR1016-1	12	2.8193e-04	1	10	0.03016	0.995	33.1565	0.09348	0.00	------
4.21	AR1016-2	1102	0.01350696	1	10	0.03016	0.995	33.1565	4.47844	0.00	------
4.58	AR1016-3	679	4.7172e-03	1	10	0.03016	0.995	33.1565	1.56406	0.00	------
6.22	AR1260-1	732	8.2852e-03	1	10	0.03016	0.995	33.1565	2.74709	0.00	------
6.57	AR1260-2	2800	0.05516884	1	10	0.03016	0.995	33.1565	18.29205	0.00	------
6.81	AR1260-3	3528	0.05960973	1	10	0.03016	0.995	33.1565	19.76450	0.00	------
8.58	Decachlorobiphenyl	130772	0.12821573	1	10	0.03016	0.995	3.3156	42.51185	39.79	106.8

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:27
Operator	: borges	Sample Name	: 1514293005
Sample Number	: 25	Study	: F9L62
AutoSampler	: HP7673A	Rack/Vial	: 0/25
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 06:01:26	Cycle	: 25

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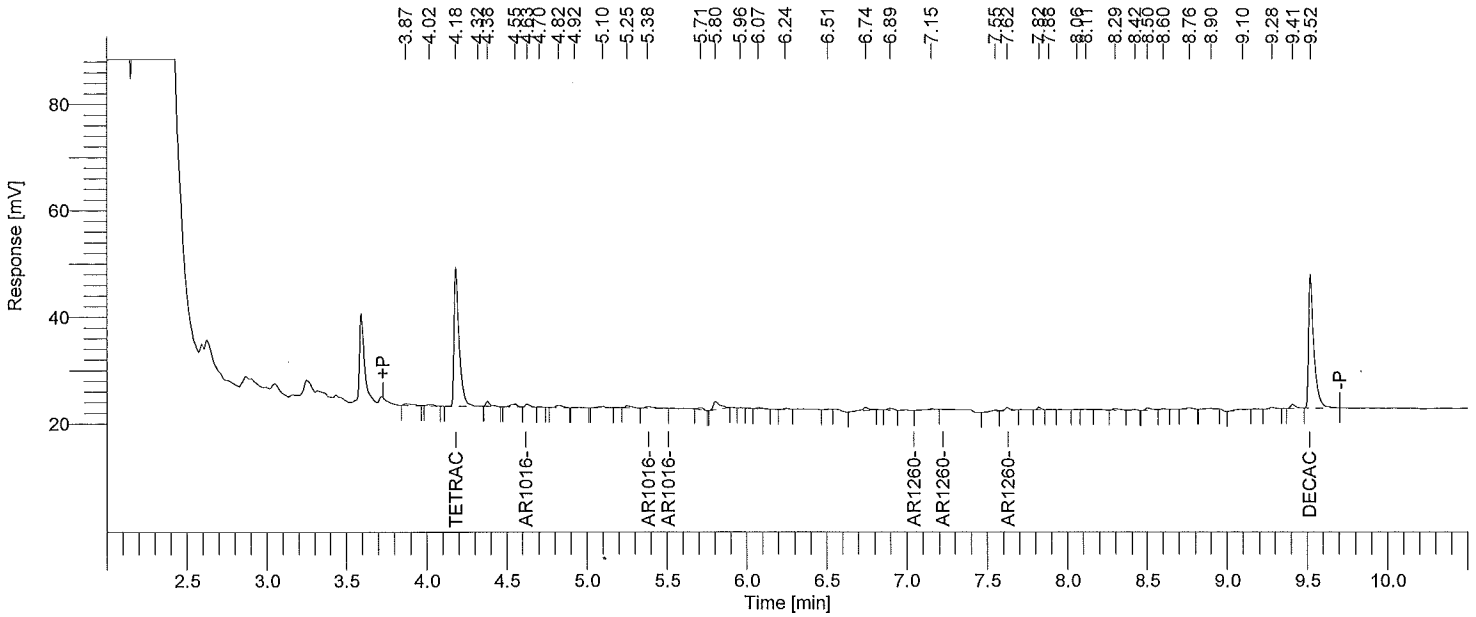

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	56929	0.05222362	1	10	0.03016	0.995	1.6578	17.31552	19.89	87.0
4.63	AR1016-1	1115	0.04971550	1	10	0.03016	0.995	33.1565	16.48392	0.00	------
5.38	AR1016-2	1260	0.01745770	1	10	0.03016	0.995	33.1565	5.78836	0.00	------
5.51	AR1016-3	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
7.04	AR1260-1	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
7.22	AR1260-2	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
7.62	AR1260-3	1464	0.04152944	1	10	0.03016	0.995	33.1565	13.76971	0.00	------
9.52	Decachlorobiphenyl	57468	0.12165677	1	10	0.03016	0.995	3.3156	40.33713	39.79	101.4

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L63

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293006

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 20150604A026,20150604B026

% Moisture: 22. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	42.	U
11104-28-2	Aroclor-1221	42.	U
11141-16-5	Aroclor-1232	42.	U
53469-21-9	Aroclor-1242	42.	U
12672-29-6	Aroclor-1248	42.	U
11097-69-1	Aroclor-1254	42.	U
11096-82-5	Aroclor-1260	42.	U
37324-23-5	Aroclor-1262	42.	U
11100-14-4	Aroclor-1268	42.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:38:03
Operator	: borges	Sample Name	: 1514293006
Sample Number	: 26	Study	: F9L63
AutoSampler	: HP7673A	Rack/Vial	: 0/26
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 06:01:26	Dilution Factor	: 1.00
		Cycle	: 25

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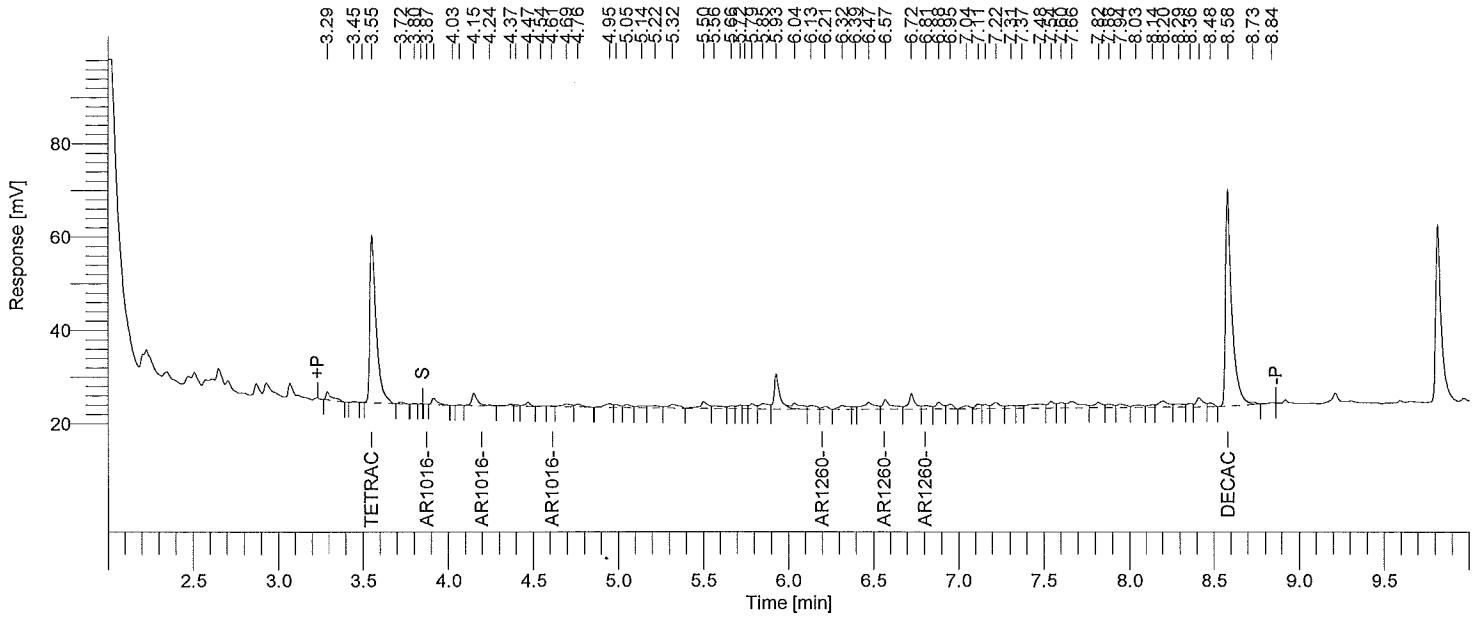

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	90644	0.04447469	1	10	0.03032	0.989	1.6491	14.66843	19.79	74.1
3.87	AR1016-1	58	1.3794e-03	1	10	0.03032	0.989	32.9815	0.45493	0.00	------
4.24	AR1016-2	419	5.1370e-03	1	10	0.03032	0.989	32.9815	1.69426	0.00	------
4.61	AR1016-3	488	3.3906e-03	1	10	0.03032	0.989	32.9815	1.11829	0.00	------
6.21	AR1260-1	1452	0.01642284	1	10	0.03032	0.989	32.9815	5.41650	0.00	------
6.57	AR1260-2	7322	0.14425729	1	10	0.03032	0.989	32.9815	47.57826	0.00	------
6.81	AR1260-3	2635	0.04451979	1	10	0.03032	0.989	32.9815	14.68331	0.00	------
8.58	Decachlorobiphenyl	115181	0.11292963	1	10	0.03032	0.989	3.2982	37.24592	39.58	94.1

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:29
Operator	: borges	Sample Name	: 1514293006
Sample Number	: 26	Study	: F9L63
AutoSampler	: HP7673A	Rack/Vial	: 0/26
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 06:17:33	Dilution Factor	: 1.00
		Cycle	: 26

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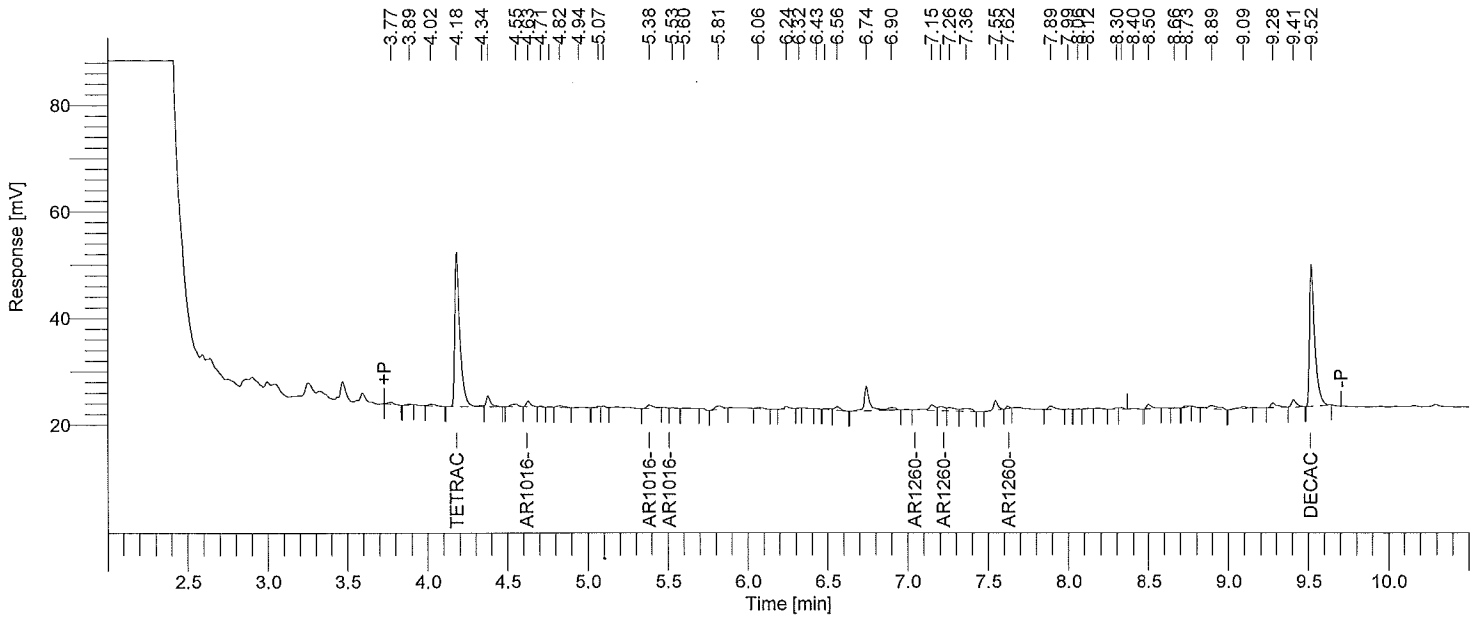
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_026.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_026.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	63823	0.05854812	1	10	0.03032	0.989	1.6491	19.31007	19.79	97.6
4.63	AR1016-1	2012	0.08970181	1	10	0.03032	0.989	32.9815	29.58503	0.00	------
5.38	AR1016-2	1598	0.02214502	1	10	0.03032	0.989	32.9815	7.30377	0.00	------
5.53	AR1016-3	335	0.01034441	1	10	0.03032	0.989	32.9815	3.41174	0.00	------
7.04	AR1260-1	0	0.00000000	1	10	0.03032	0.989	---------	0.00000	--------	------
7.20	AR1260-2	2333	0.04734400	1	10	0.03032	0.989	32.9815	15.61477	0.00	------
7.62	AR1260-3	627	0.01779196	1	10	0.03032	0.989	32.9815	5.86806	0.00	------
9.52	Decachlorobiphenyl	58754	0.12437752	1	10	0.03032	0.989	3.2982	41.02161	39.58	103.6

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L64

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293007

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150604A027,20150604B027

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	38.	U
11096-82-5	Aroclor-1260	38.	U
37324-23-5	Aroclor-1262	38.	U
11100-14-4	Aroclor-1268	38.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:38:05
Operator	: borges	Sample Name	: 1514293007
Sample Number	: 27	Study	: F9L64
AutoSampler	: HP7673A	Rack/Vial	: 0/27
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 06:17:33	Dilution Factor	: 1.00
		Cycle	: 26

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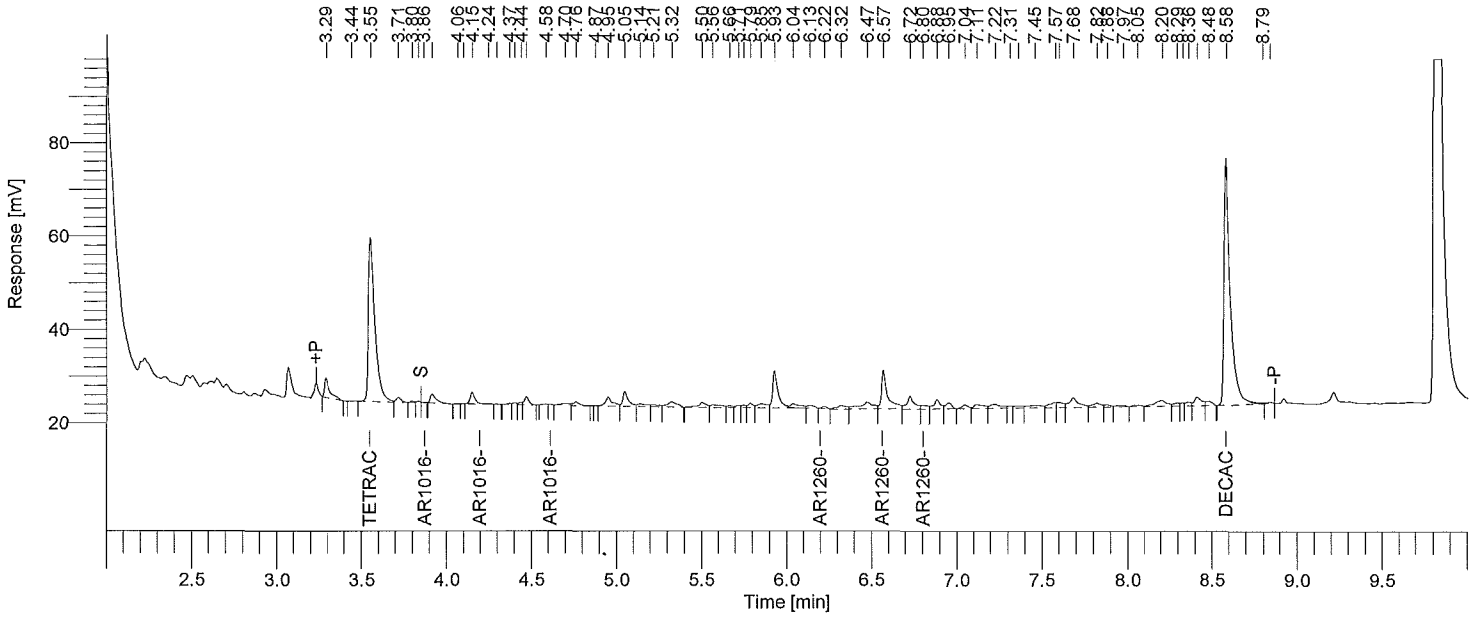
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_027.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_027.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	92675	0.04547123	1	10	0.03011	0.996	1.6606	15.10170	19.93	75.8
3.86	AR1016-1	76	1.7926e-03	1	10	0.03011	0.996	33.2116	0.59535	0.00	------
4.24	AR1016-2	352	4.3102e-03	1	10	0.03011	0.996	33.2116	1.43149	0.00	------
4.58	AR1016-3	209	1.4494e-03	1	10	0.03011	0.996	33.2116	0.48136	0.00	------
6.22	AR1260-1	920	0.01040683	1	10	0.03011	0.996	33.2116	3.45627	0.00	------
6.57	AR1260-2	20278	0.39949562	1	10	0.03011	0.996	33.2116	132.67872	0.00	------
6.80	AR1260-3	2287	0.03864355	1	10	0.03011	0.996	33.2116	12.83412	0.00	------
8.58	Decachlorobiphenyl	133302	0.13069623	1	10	0.03011	0.996	3.3212	43.40625	39.85	108.9

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:30
Operator	: borges	Sample Name	: 1514293007
Sample Number	: 27	Study	: F9L64
AutoSampler	: HP7673A	Rack/Vial	: 0/27
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 06:33:44	Dilution Factor	: 1.00
		Cycle	: 27

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_027.raw
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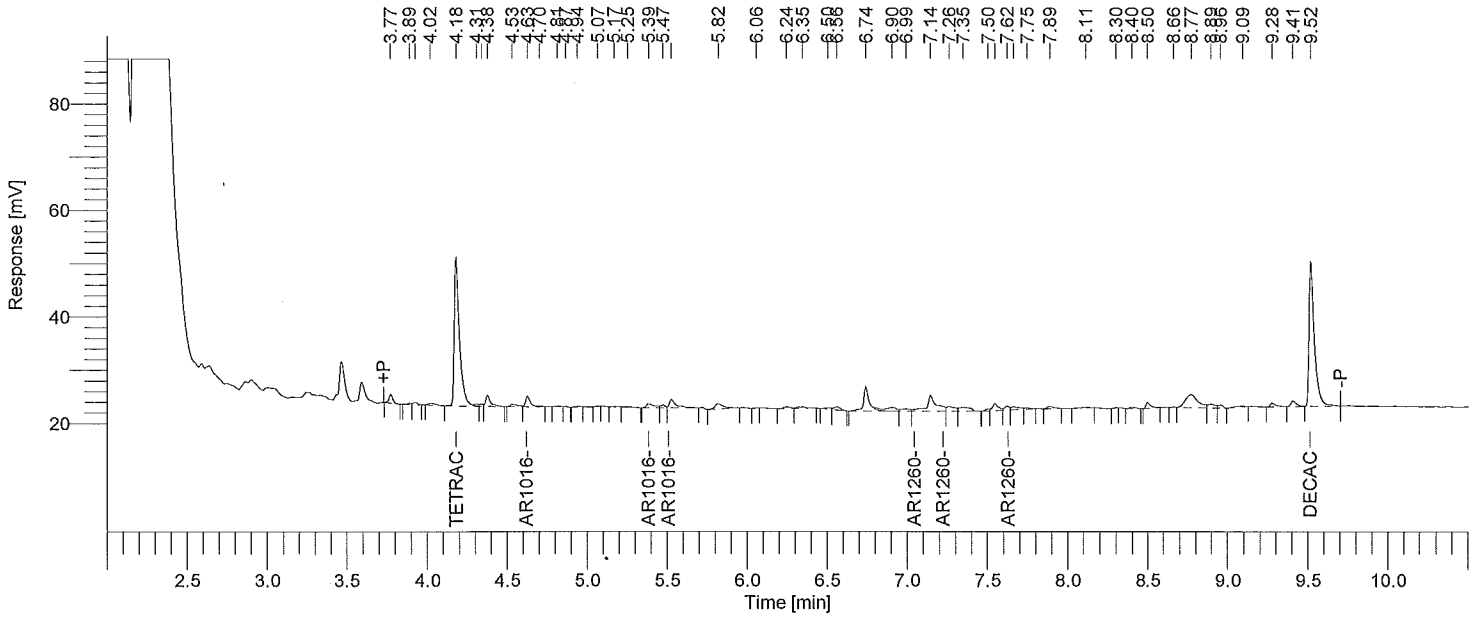
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_027.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	62483	0.05731874	1	10	0.03011	0.996	1.6606	19.03645	19.93	95.5
4.63	AR1016-1	3834	0.17091469	1	10	0.03011	0.996	33.2116	56.76343	0.00	------
5.39	AR1016-2	2509	0.03477888	1	10	0.03011	0.996	33.2116	11.55061	0.00	------
5.53	AR1016-3	4519	0.13947531	1	10	0.03011	0.996	33.2116	46.32192	0.00	------
7.04	AR1260-1	0	0.00000000	1	10	0.03011	0.996	---------	0.00000	--------	------
7.26	AR1260-2	3201	0.06497034	1	10	0.03011	0.996	33.2116	21.57766	0.00	------
7.62	AR1260-3	1521	0.04315327	1	10	0.03011	0.996	33.2116	14.33187	0.00	------
9.52	Decachlorobiphenyl	61814	0.13085631	1	10	0.03011	0.996	3.3212	43.45942	39.85	109.0

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293008

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150604A028,20150604B028

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:38:08
Operator	: borges	Sample Name	: 1514293008
Sample Number	: 28	Study	: F9L65
AutoSampler	: HP7673A	Rack/Vial	: 0/28
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 06:33:44	Dilution Factor	: 1.00
		Cycle	: 27

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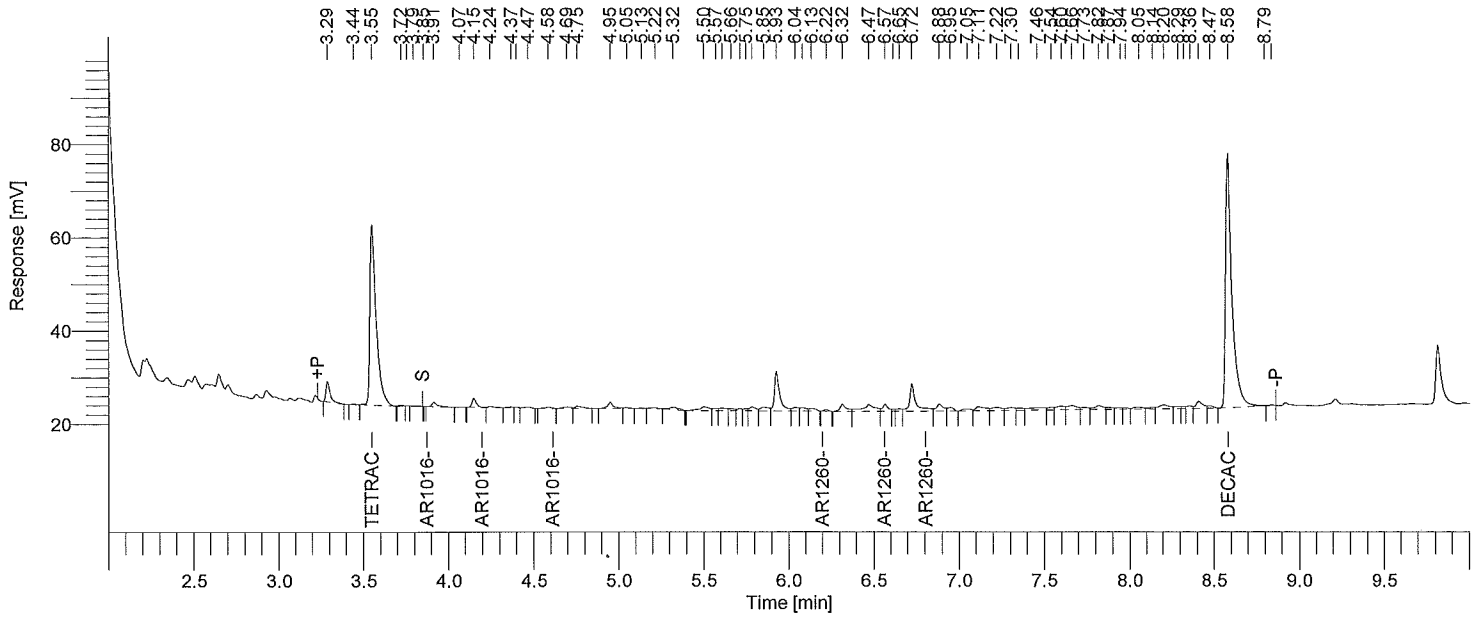
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_028.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	97543	0.04785971	1	10	0.03014	0.995	1.6589	15.87914	19.91	79.8
4.24	AR1016-2	619	7.5834e-03	1	10	0.03014	0.995	33.1785	2.51606	0.00	------
4.58	AR1016-3	903	6.2760e-03	1	10	0.03014	0.995	33.1785	2.08229	0.00	------
6.22	AR1260-1	695	7.8575e-03	1	10	0.03014	0.995	33.1785	2.60700	0.00	------
6.57	AR1260-2	3391	0.06679980	1	10	0.03014	0.995	33.1785	22.16317	0.00	------
6.80	AR1260-3	0	0.00000000	1	10	0.03014	0.995	--------	0.00000	--------	------
8.58	Decachlorobiphenyl	137258	0.13457533	1	10	0.03014	0.995	3.3179	44.65008	39.81	112.1

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:32
Operator	: borges	Sample Name	: 1514293008
Sample Number	: 28	Study	: F9L65
AutoSampler	: HP7673A	Rack/Vial	: 0/28
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 06:49:52	Dilution Factor	: 1.00
		Cycle	: 28

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_028.raw
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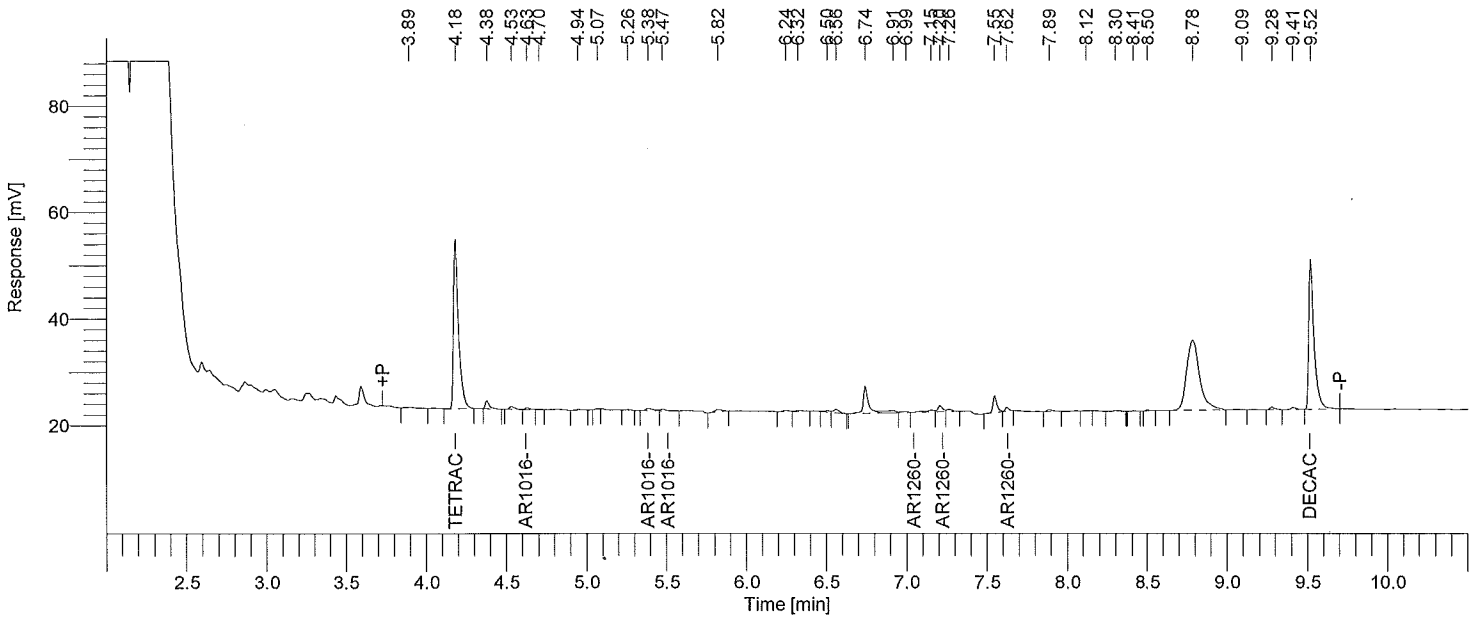
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_028.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_028.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	69036	0.06333023	1	10	0.03014	0.995	1.6589	21.01202	19.91	105.6
4.63	AR1016-1	676	0.03015505	1	10	0.03014	0.995	33.1785	10.00499	0.00	------
5.38	AR1016-2	1387	0.01922416	1	10	0.03014	0.995	33.1785	6.37829	0.00	------
5.47	AR1016-3	829	0.02559068	1	10	0.03014	0.995	33.1785	8.49060	0.00	------
6.99	AR1260-1	618	0.01309122	1	10	0.03014	0.995	33.1785	4.34347	0.00	------
7.20	AR1260-2	2299	0.04665549	1	10	0.03014	0.995	33.1785	15.47959	0.00	------
7.62	AR1260-3	1080	0.03064453	1	10	0.03014	0.995	33.1785	10.16739	0.00	------
9.52	Decachlorobiphenyl	64231	0.13597282	1	10	0.03014	0.995	3.3179	45.11374	39.81	113.3

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L66

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293009

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 20150604A029,20150604B029

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

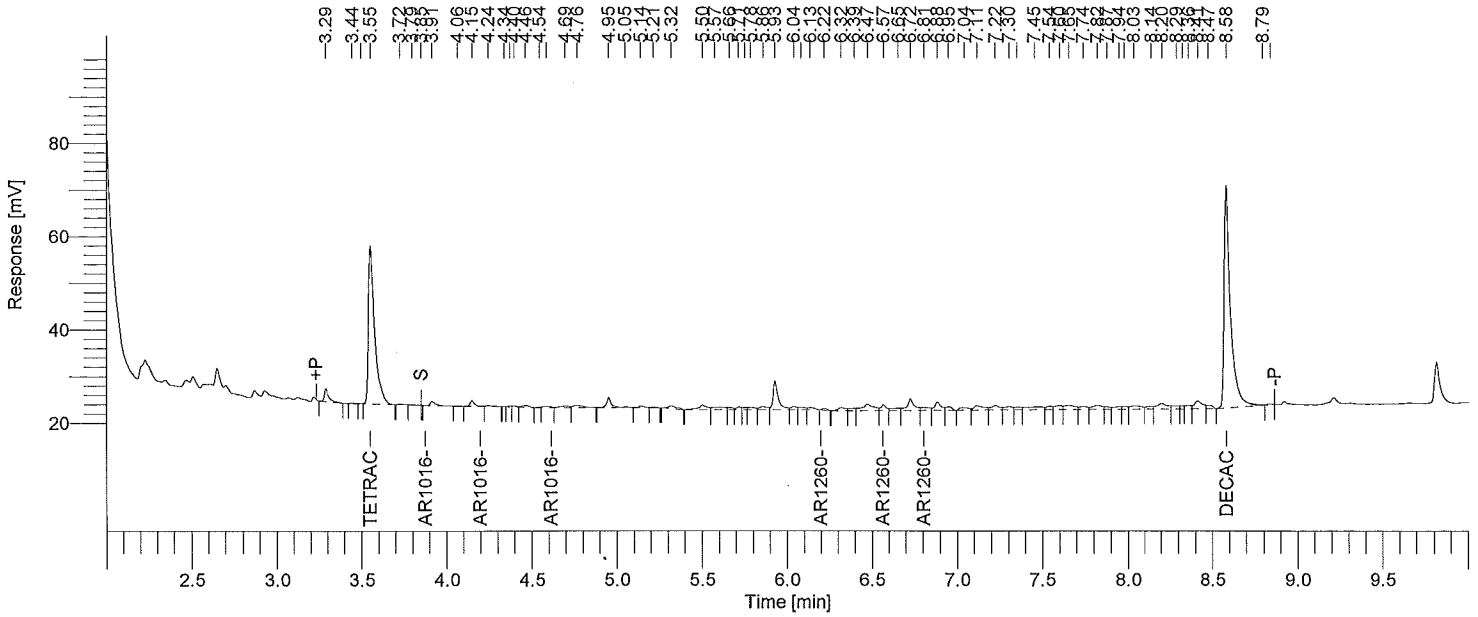
GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	39.	U
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	39.	U
11096-82-5	Aroclor-1260	39.	U
37324-23-5	Aroclor-1262	39.	U
11100-14-4	Aroclor-1268	39.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:38:10
Operator	: borges	Sample Name	: 1514293009
Sample Number	: 29	Study	: F9L66
AutoSampler	: HP7673A	Rack/Vial	: 0/29
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 06:49:52	Cycle	: 28

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_029.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_029.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150604\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_029.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_029.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_029.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



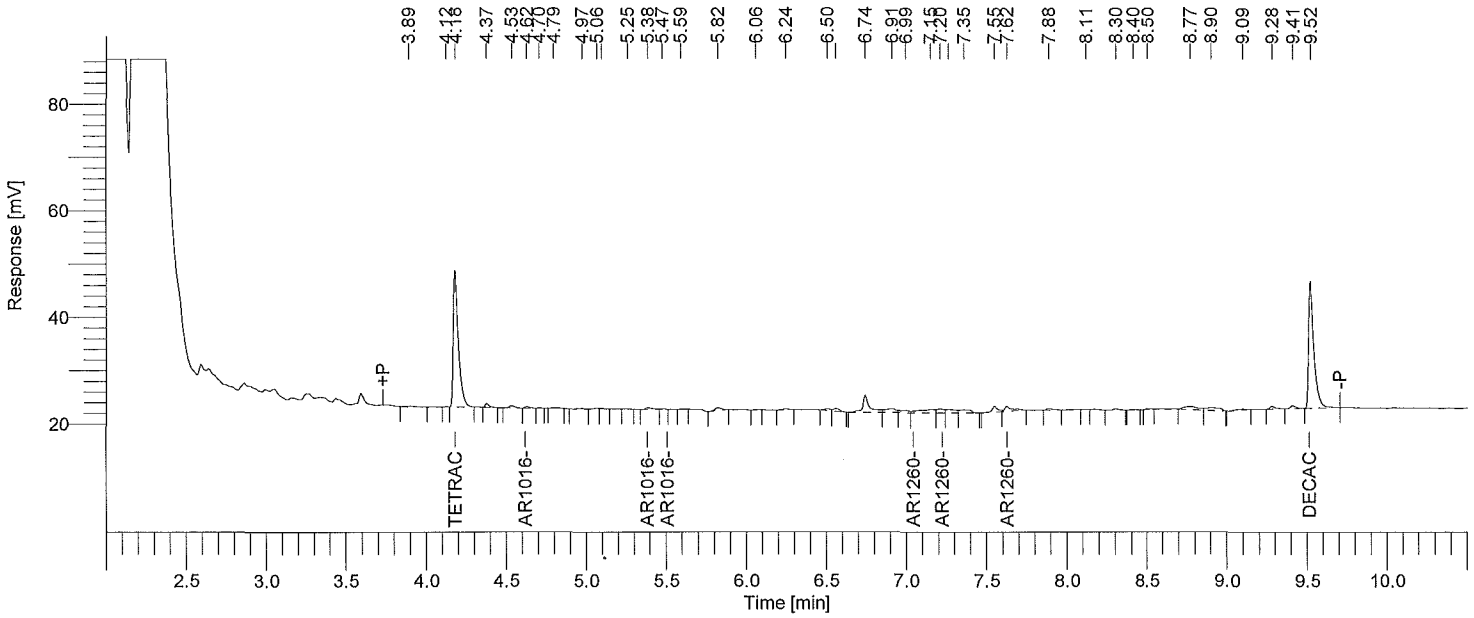
Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	85574	0.04198668	1	10	0.03007	0.998	1.6628	13.96298	19.95	70.0
3.85	AR1016-1	4	9.9147e-05	1	10	0.03007	0.998	33.2557	0.03297	0.00	------
4.24	AR1016-2	547	6.7044e-03	1	10	0.03007	0.998	33.2557	2.22961	0.00	------
4.58	AR1016-3	655	4.5489e-03	1	10	0.03007	0.998	33.2557	1.51277	0.00	------
6.22	AR1260-1	773	8.7447e-03	1	10	0.03007	0.998	33.2557	2.90810	0.00	------
6.57	AR1260-2	2663	0.05245934	1	10	0.03007	0.998	33.2557	17.44574	0.00	------
6.81	AR1260-3	2371	0.04006579	1	10	0.03007	0.998	33.2557	13.32418	0.00	------
8.58	Decachlorobiphenyl	121590	0.11921351	1	10	0.03007	0.998	3.3256	39.64533	39.91	99.3

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:33
Operator	: borges	Sample Name	: 1514293009
Sample Number	: 29	Study	: F9L66
AutoSampler	: HP7673A	Rack/Vial	: 0/29
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 07:06:02	Cycle	: 29

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_029.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_029.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150604\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_029.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_029.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_029.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	55933	0.05130976	1	10	0.03007	0.998	1.6628	17.06344	19.95	85.5
4.62	AR1016-1	531	0.02366147	1	10	0.03007	0.998	33.2557	7.86880	0.00	------
5.38	AR1016-2	1084	0.01502783	1	10	0.03007	0.998	33.2557	4.99761	0.00	------
5.47	AR1016-3	311	9.5873e-03	1	10	0.03007	0.998	33.2557	3.18832	0.00	------
7.04	AR1260-1	0	0.00000000	1	10	0.03007	0.998	---------	0.00000	-------	------
7.20	AR1260-2	2405	0.04881444	1	10	0.03007	0.998	33.2557	16.23360	0.00	------
7.62	AR1260-3	3033	0.08603151	1	10	0.03007	0.998	33.2557	28.61041	0.00	------
9.52	Decachlorobiphenyl	53938	0.11418283	1	10	0.03007	0.998	3.3256	37.97234	39.91	95.2

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L67

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293012

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150604A032,20150604B032

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	39.	U
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	39.	U
11096-82-5	Aroclor-1260	100	
37324-23-5	Aroclor-1262	39.	U
11100-14-4	Aroclor-1268	39.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:38:17
Operator	: borges	Sample Name	: 1514293012
Sample Number	: 32	Study	: F9L67
AutoSampler	: HP7673A	Rack/Vial	: 0/32
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 07:38:32	Dilution Factor	: 1.00
		Cycle	: 31

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_032.raw
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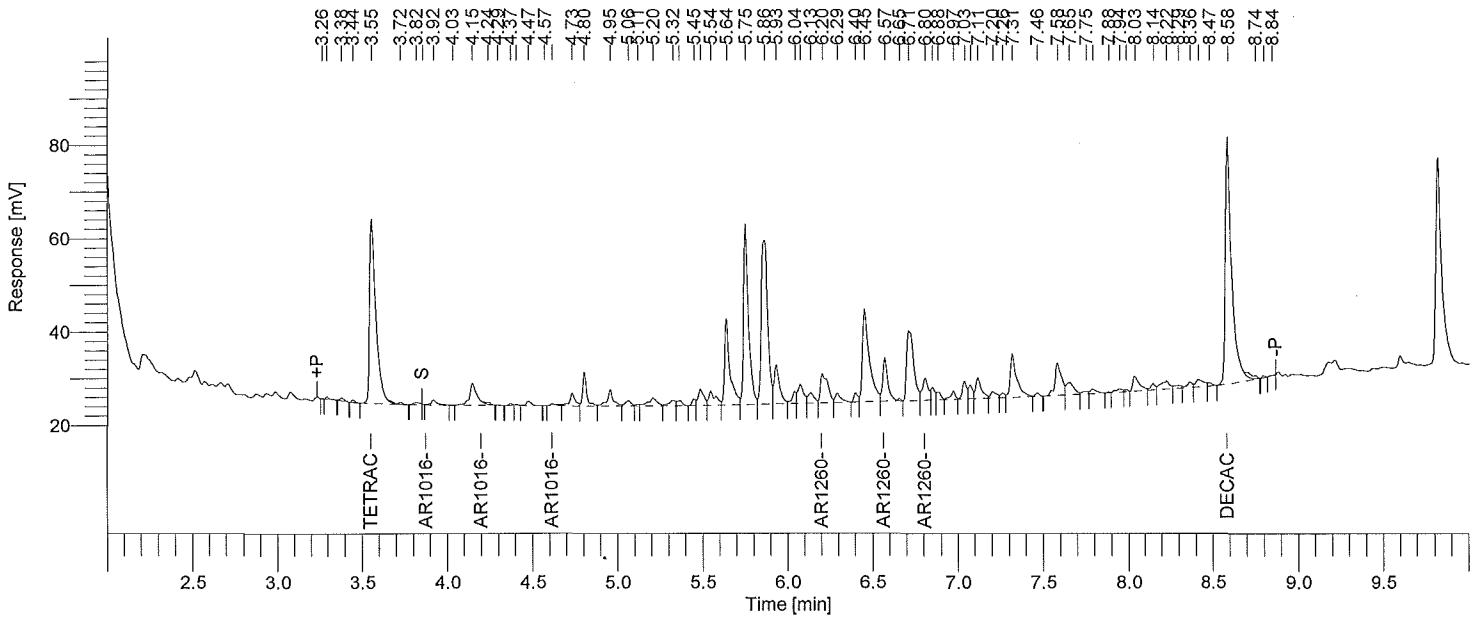
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150604\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_032.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_032.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_032.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	101035	0.04957270	1	10	0.03000	1.000	1.6667	16.52423	20.00	82.6
3.85	AR1016-1	108	2.5581e-03	1	10	0.03000	1.000	33.3333	0.85270	0.00	------
4.24	AR1016-2	1098	0.01346818	1	10	0.03000	1.000	33.3333	4.48939	0.00	------
4.61	AR1016-3	1154	8.0220e-03	1	10	0.03000	1.000	33.3333	2.67399	0.00	------
6.20	AR1260-1	19029	0.21523407	1	10	0.03000	1.000	33.3333	71.74469	0.00	------
6.57	AR1260-2	19333	0.38087337	1	10	0.03000	1.000	33.3333	126.95779	0.00	------
6.80	AR1260-3	11051	0.18673937	1	10	0.03000	1.000	33.3333	62.24646	0.00	------
8.58	Decachlorobiphenyl	135640	0.13298859	1	10	0.03000	1.000	3.3333	44.32953	40.00	110.8

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:38
Operator	: borges	Sample Name	: 1514293012
Sample Number	: 32	Study	: F9L67
AutoSampler	: HP7673A	Rack/Vial	: 0/32
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 07:54:52	Dilution Factor	: 1.00
		Cycle	: 32

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_032.raw
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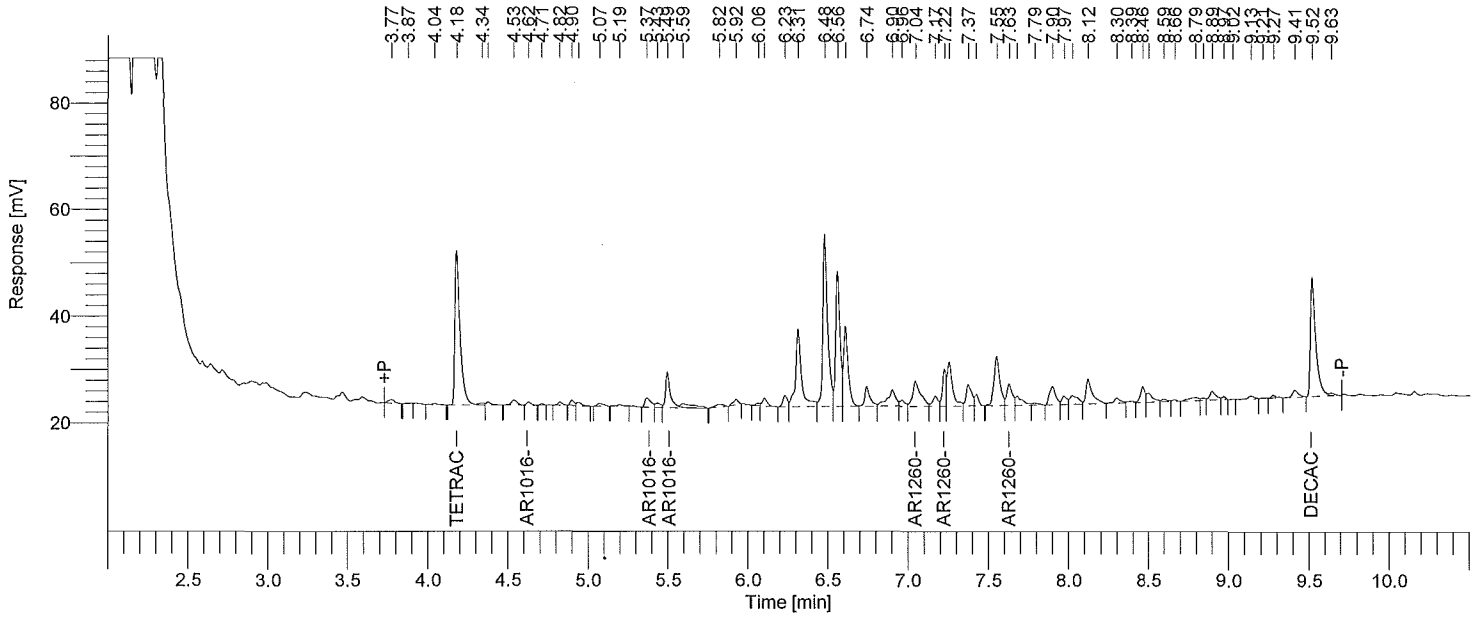
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150604\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_032.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_032.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_032.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	64972	0.05960215	1	10	0.03000	1.000	1.6667	19.86738	20.00	99.3
4.62	AR1016-1	1079	0.04808968	1	10	0.03000	1.000	33.3333	16.02989	0.00	------
5.37	AR1016-2	4716	0.06536293	1	10	0.03000	1.000	33.3333	21.78764	0.00	------
5.49	AR1016-3	13233	0.40843043	1	10	0.03000	1.000	33.3333	136.14348	0.00	------
7.04	AR1260-1	16414	0.34759560	1	10	0.03000	1.000	33.3333	115.86520	0.00	------
7.22	AR1260-2	10519	0.21348837	1	10	0.03000	1.000	33.3333	71.16279	0.00	------
7.63	AR1260-3	9671	0.27428494	1	10	0.03000	1.000	33.3333	91.42831	0.00	------
9.52	Decachlorobiphenyl	51050	0.10806981	1	10	0.03000	1.000	3.3333	36.02327	40.00	90.1

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L68

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293013

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 20150604A033,20150604B033

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

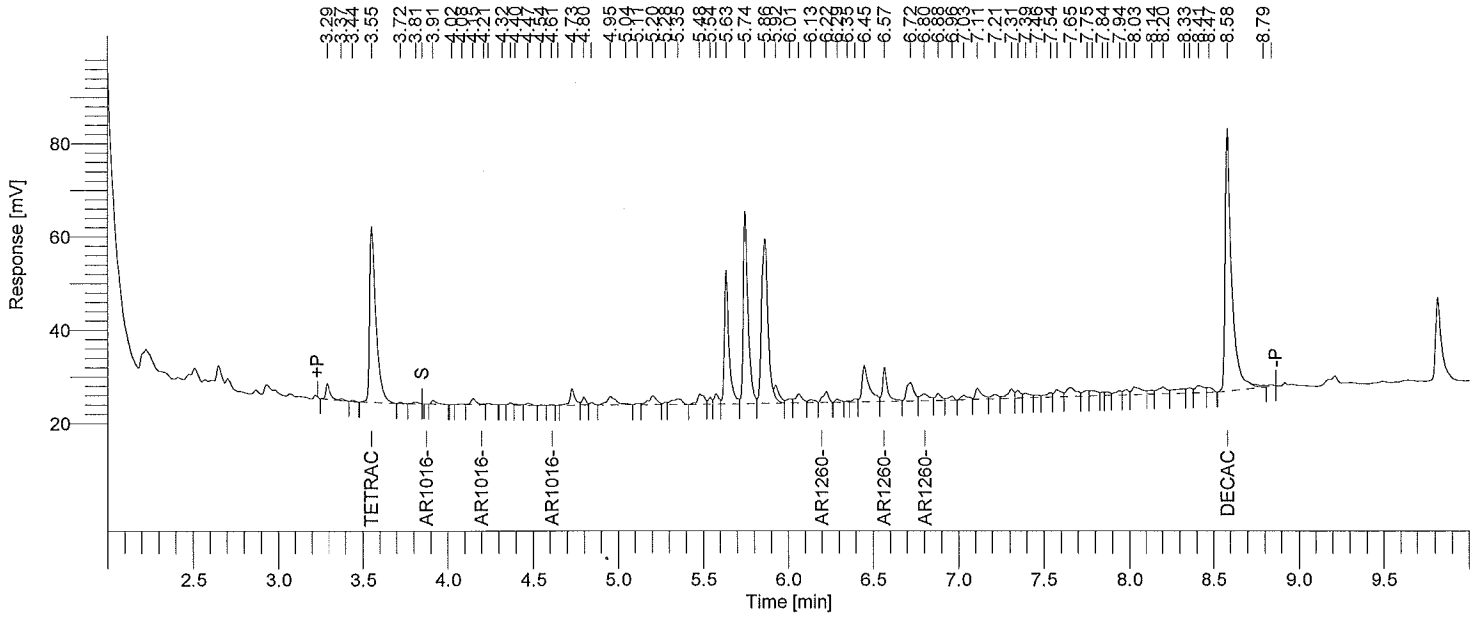
GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:38:20
Operator	: borges	Sample Name	: 1514293013
Sample Number	: 33	Study	: F9L68
AutoSampler	: HP7673A	Rack/Vial	: 0/33
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 07:54:52	Cycle	: 32

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_033.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_033.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150604\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_033.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_033.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_033.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	95612	0.04691199	1	10	0.03041	0.987	1.6442	15.42650	19.73	78.2
3.85	AR1016-1	14	3.4178e-04	1	10	0.03041	0.987	32.8839	0.11239	0.00	------
4.21	AR1016-2	327	4.0131e-03	1	10	0.03041	0.987	32.8839	1.31967	0.00	------
4.61	AR1016-3	196	1.3590e-03	1	10	0.03041	0.987	32.8839	0.44688	0.00	------
6.22	AR1260-1	5436	0.06148346	1	10	0.03041	0.987	32.8839	20.21817	0.00	------
6.57	AR1260-2	14470	0.28508066	1	10	0.03041	0.987	32.8839	93.74570	0.00	------
6.80	AR1260-3	5405	0.09132371	1	10	0.03041	0.987	32.8839	30.03081	0.00	------
8.58	Decachlorobiphenyl	144257	0.14143738	1	10	0.03041	0.987	3.2884	46.51015	39.46	117.9

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:40
Operator	: borges	Sample Name	: 1514293013
Sample Number	: 33	Study	: F9L68
AutoSampler	: HP7673A	Rack/Vial	: 0/33
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 08:11:02	Cycle	: 33

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_033.raw
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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_033.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_033.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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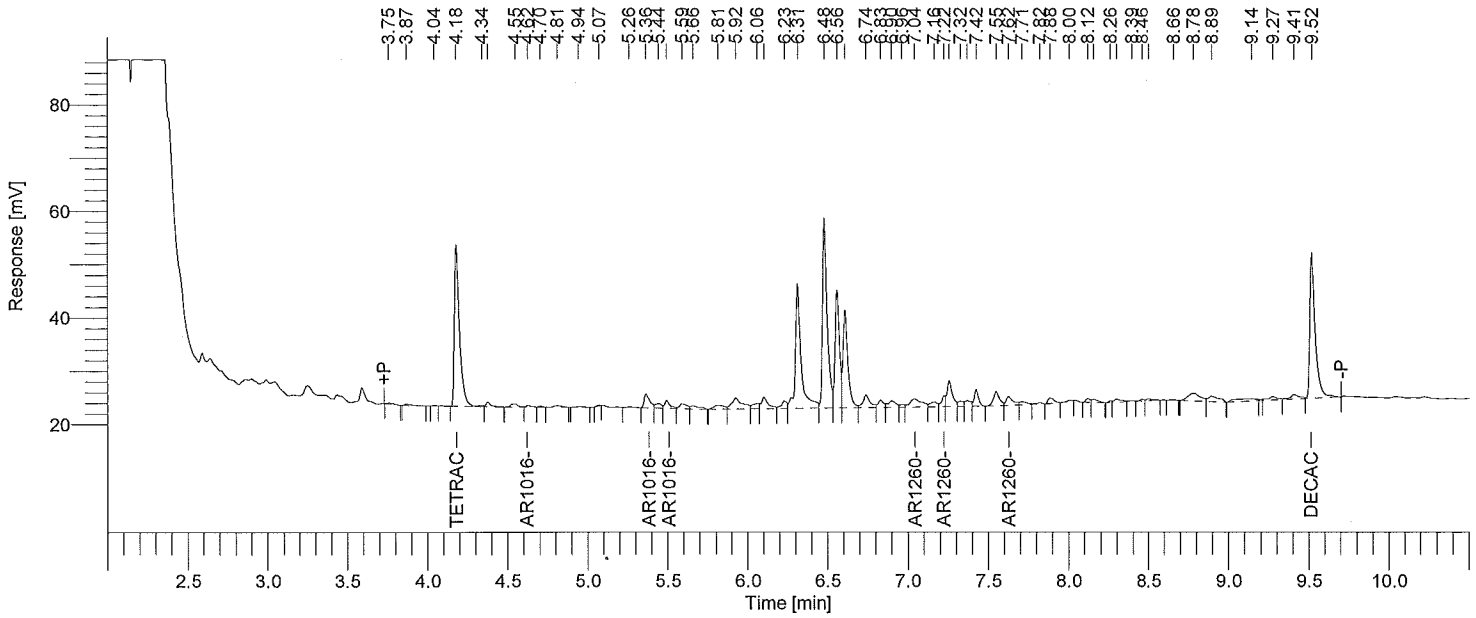


Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	66761	0.06124344	1	10	0.03041	0.987	1.6442	20.13924	19.73	102.1
4.62	AR1016-1	644	0.02869270	1	10	0.03041	0.987	32.8839	9.43529	0.00	------
5.36	AR1016-2	6392	0.08857973	1	10	0.03041	0.987	32.8839	29.12849	0.00	------
5.49	AR1016-3	3259	0.10058833	1	10	0.03041	0.987	32.8839	33.07739	0.00	------
7.04	AR1260-1	7932	0.16797331	1	10	0.03041	0.987	32.8839	55.23621	0.00	------
7.22	AR1260-2	3166	0.06424972	1	10	0.03041	0.987	32.8839	21.12783	0.00	------
7.62	AR1260-3	5078	0.14403719	1	10	0.03041	0.987	32.8839	47.36508	0.00	------
9.52	Decachlorobiphenyl	62419	0.13213748	1	10	0.03041	0.987	3.2884	43.45198	39.46	110.1

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L69

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293014

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150604A034,20150604B034

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

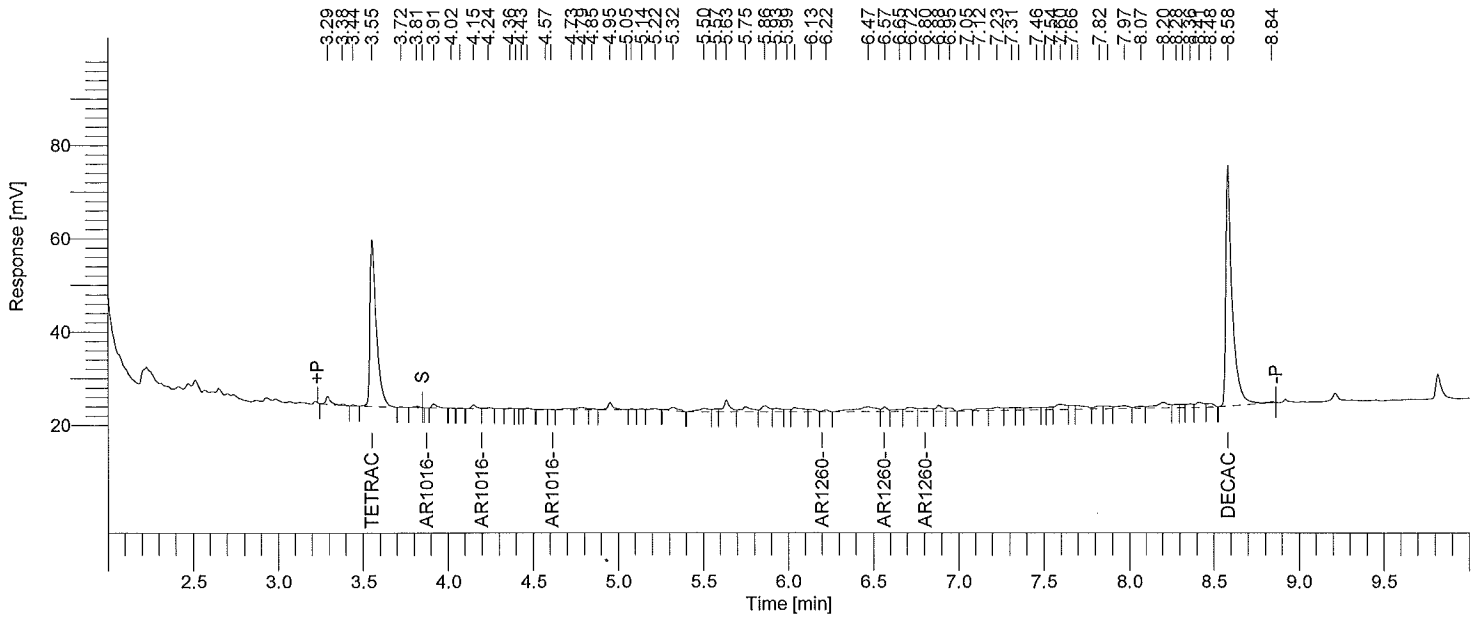
GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:38:22
Operator	: borges	Sample Name	: 1514293014
Sample Number	: 34	Study	: F9L69
AutoSampler	: HP7673A	Rack/Vial	: 0/34
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 08:11:02	Cycle	: 33

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_034.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_034.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150604\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_034.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_034.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_034.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	90726	0.04451459	1	10	0.03021	0.993	1.6551	14.73505	19.86	74.2
3.85	AR1016-1	11	2.5460e-04	1	10	0.03021	0.993	33.1016	0.08428	0.00	------
4.24	AR1016-2	472	5.7845e-03	1	10	0.03021	0.993	33.1016	1.91476	0.00	------
4.60	AR1016-3	287	1.9977e-03	1	10	0.03021	0.993	33.1016	0.66127	0.00	------
6.22	AR1260-1	1132	0.01280551	1	10	0.03021	0.993	33.1016	4.23883	0.00	------
6.57	AR1260-2	2268	0.04468824	1	10	0.03021	0.993	33.1016	14.79253	0.00	------
6.80	AR1260-3	3439	0.05810488	1	10	0.03021	0.993	33.1016	19.23366	0.00	------
8.58	Decachlorobiphenyl	131336	0.12876904	1	10	0.03021	0.993	3.3102	42.62464	39.72	107.3

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:41
Operator	: borges	Sample Name	: 1514293014
Sample Number	: 34	Study	: F9L69
AutoSampler	: HP7673A	Rack/Vial	: 0/34
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 08:27:12	Cycle	: 34

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_034.raw
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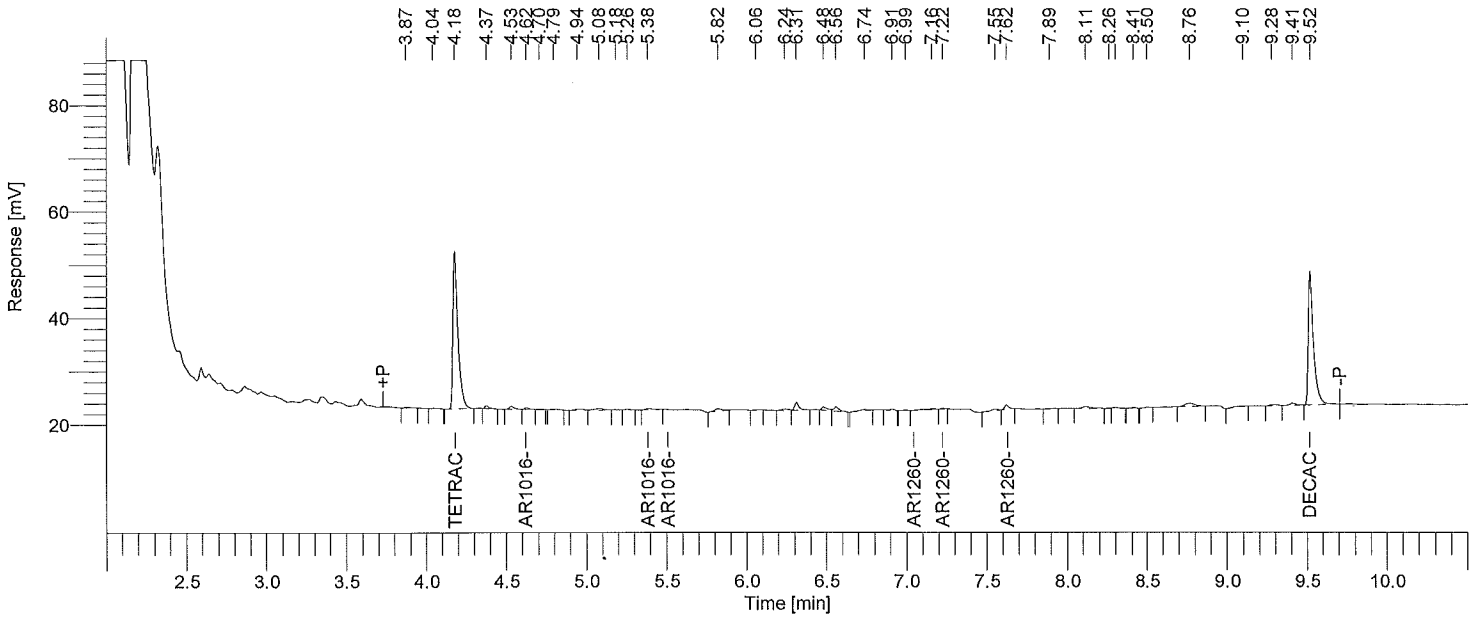
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150604\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_034.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_034.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_034.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	64341	0.05902306	1	10	0.03021	0.993	1.6551	19.53759	19.86	98.4
4.62	AR1016-1	661	0.02947583	1	10	0.03021	0.993	33.1016	9.75698	0.00	------
5.38	AR1016-2	876	0.01214116	1	10	0.03021	0.993	33.1016	4.01892	0.00	------
5.51	AR1016-3	0	0.00000000	1	10	0.03021	0.993	---------	0.00000	--------	------
7.04	AR1260-1	0	0.00000000	1	10	0.03021	0.993	---------	0.00000	--------	------
7.22	AR1260-2	165	3.3477e-03	1	10	0.03021	0.993	33.1016	1.10815	0.00	------
7.62	AR1260-3	1559	0.04421852	1	10	0.03021	0.993	33.1016	14.63705	0.00	------
9.52	Decachlorobiphenyl	56423	0.11944457	1	10	0.03021	0.993	3.3102	39.53809	39.72	99.5

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L70

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293015

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150604A035,20150604B035

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:38:24
Operator	: borges	Sample Name	: 1514293015
Sample Number	: 35	Study	: F9L70
AutoSampler	: HP7673A	Rack/Vial	: 0/35
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 08:27:12	Dilution Factor	: 1.00
		Cycle	: 34

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_035.raw
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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_035.rst
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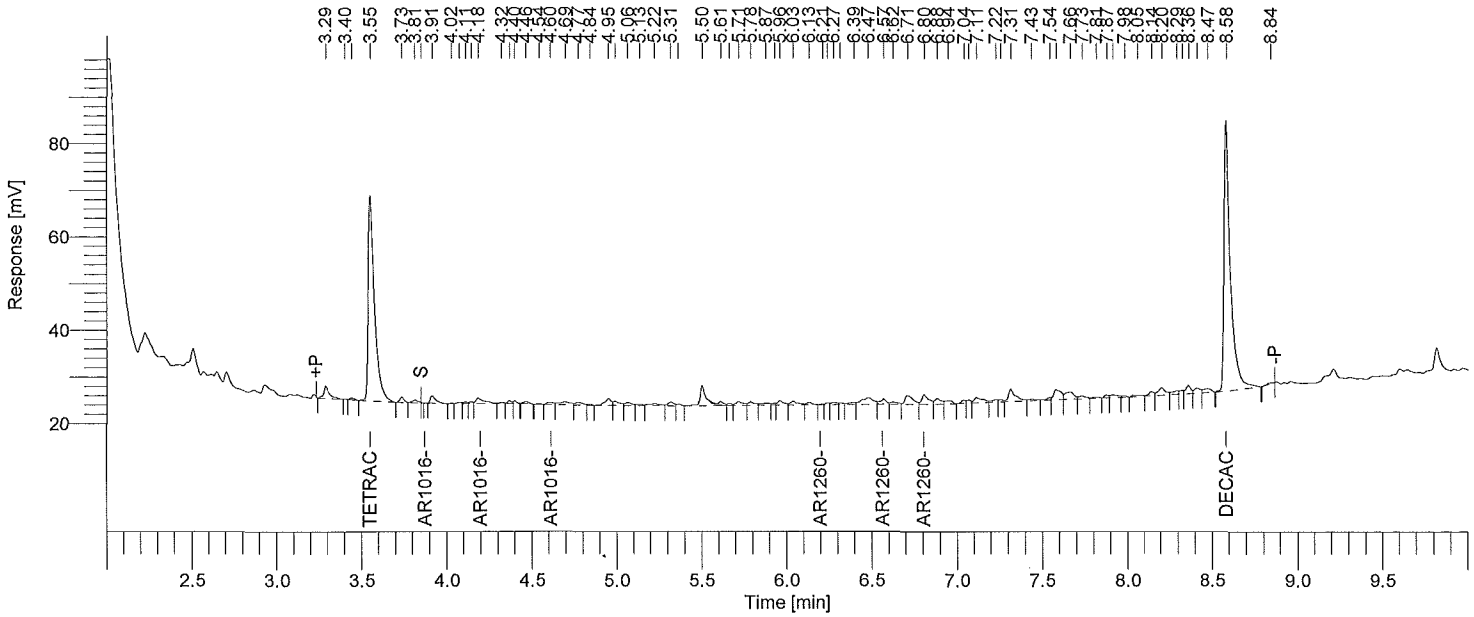
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



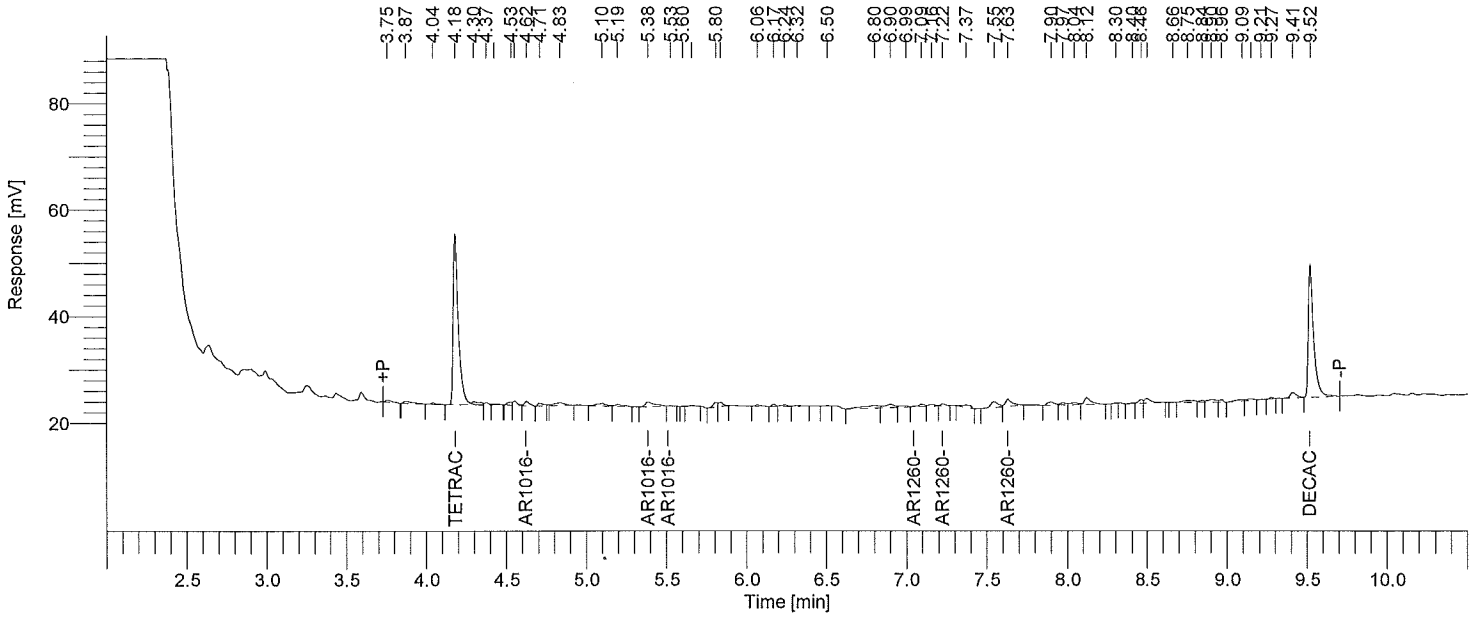
Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	111105	0.05451388	1	10	0.03024	0.992	1.6534	18.02708	19.84	90.9
3.85	AR1016-1	31	7.2886e-04	1	10	0.03024	0.992	33.0688	0.24103	0.00	------
4.18	AR1016-2	3930	0.04818796	1	10	0.03024	0.992	33.0688	15.93517	0.00	------
4.60	AR1016-3	1238	8.6002e-03	1	10	0.03024	0.992	33.0688	2.84400	0.00	------
6.21	AR1260-1	250	2.8259e-03	1	10	0.03024	0.992	33.0688	0.93448	0.00	------
6.57	AR1260-2	2708	0.05334611	1	10	0.03024	0.992	33.0688	17.64091	0.00	------
6.80	AR1260-3	5524	0.09334530	1	10	0.03024	0.992	33.0688	30.86816	0.00	------
8.58	Decachlorobiphenyl	147425	0.14454389	1	10	0.03024	0.992	3.3069	47.79891	39.68	120.5

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:43
Operator	: borges	Sample Name	: 1514293015
Sample Number	: 35	Study	: F9L70
AutoSampler	: HP7673A	Rack/Vial	: 0/35
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 08:43:32	Cycle	: 35

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_035.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_035.rst
Inst Method : \\ALSLTWS012\tccs\borges\gce20\20150604\20_som_acq_aros from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_035.raw
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_035.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_035.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	71410	0.06550791	1	10	0.03024	0.992	1.6534	21.66267	19.84	109.2
4.62	AR1016-1	1845	0.08225590	1	10	0.03024	0.992	33.0688	27.20103	0.00	------
5.38	AR1016-2	3652	0.05061435	1	10	0.03024	0.992	33.0688	16.73755	0.00	------
5.53	AR1016-3	305	9.4078e-03	1	10	0.03024	0.992	33.0688	3.11106	0.00	------
7.09	AR1260-1	1322	0.02800442	1	10	0.03024	0.992	33.0688	9.26072	0.00	------
7.22	AR1260-2	760	0.01542800	1	10	0.03024	0.992	33.0688	5.10185	0.00	------
7.63	AR1260-3	3999	0.11342056	1	10	0.03024	0.992	33.0688	37.50680	0.00	------
9.52	Decachlorobiphenyl	57372	0.12145264	1	10	0.03024	0.992	3.3069	40.16291	39.68	101.2

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L71

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293016

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 20150604A036,20150604B036

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	38.	U
11096-82-5	Aroclor-1260	38.	U
37324-23-5	Aroclor-1262	38.	U
11100-14-4	Aroclor-1268	38.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:38:27
Operator	: borges	Sample Name	: 1514293016
Sample Number	: 36	Study	: F9L71
AutoSampler	: HP7673A	Rack/Vial	: 0/36
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 08:43:32	Dilution Factor	: 1.00
		Cycle	: 35

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_036.rst
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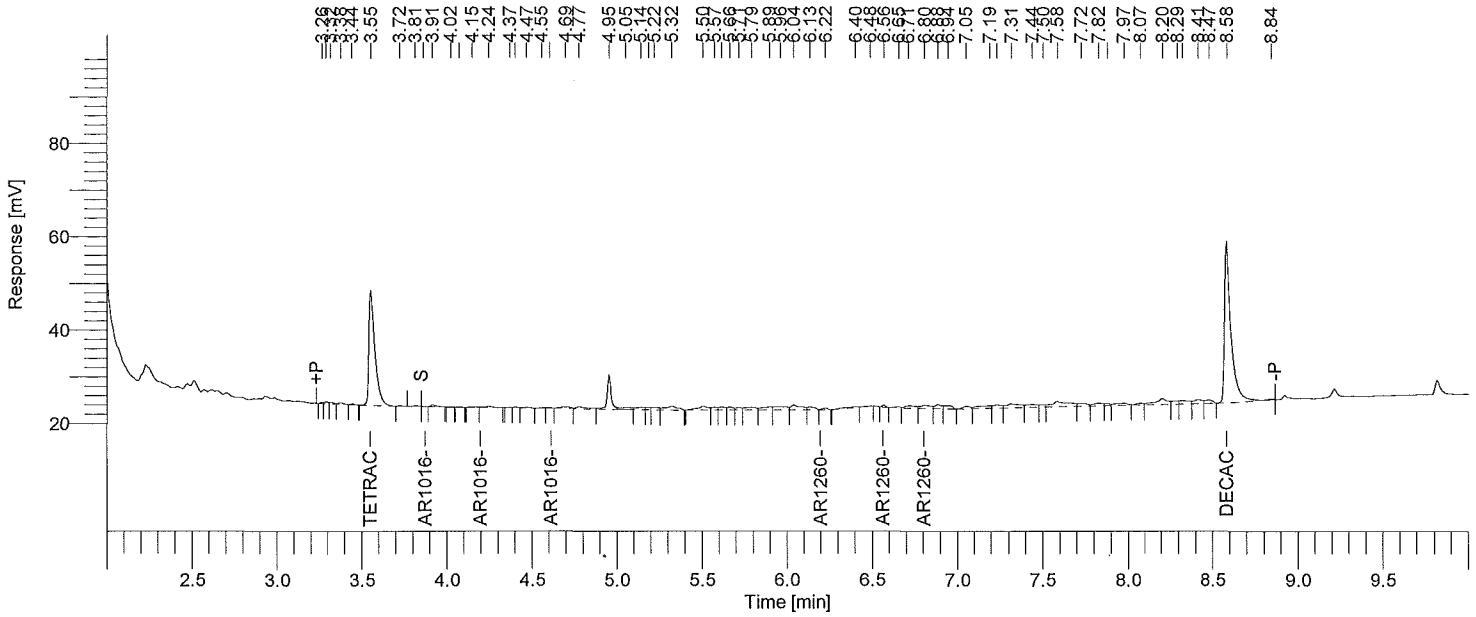
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	60506	0.02968749	1	10	0.03031	0.990	1.6496	9.79462	19.80	49.5
3.86	AR1016-1	23	5.3497e-04	1	10	0.03031	0.990	32.9924	0.17650	0.00	------
4.24	AR1016-2	794	9.7394e-03	1	10	0.03031	0.990	32.9924	3.21327	0.00	------
4.60	AR1016-3	221	1.5373e-03	1	10	0.03031	0.990	32.9924	0.50720	0.00	------
6.22	AR1260-1	853	9.6512e-03	1	10	0.03031	0.990	32.9924	3.18416	0.00	------
6.56	AR1260-2	653	0.01285504	1	10	0.03031	0.990	32.9924	4.24119	0.00	------
6.80	AR1260-3	3080	0.05204878	1	10	0.03031	0.990	32.9924	17.17215	0.00	------
8.58	Decachlorobiphenyl	89251	0.08750666	1	10	0.03031	0.990	3.2992	28.87056	39.59	72.9

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:44
Operator	: borges	Sample Name	: 1514293016
Sample Number	: 36	Study	: F9L71
AutoSampler	: HP7673A	Rack/Vial	: 0/36
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 08:59:42	Dilution Factor	: 1.00
		Cycle	: 36

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_036.raw
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Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_036.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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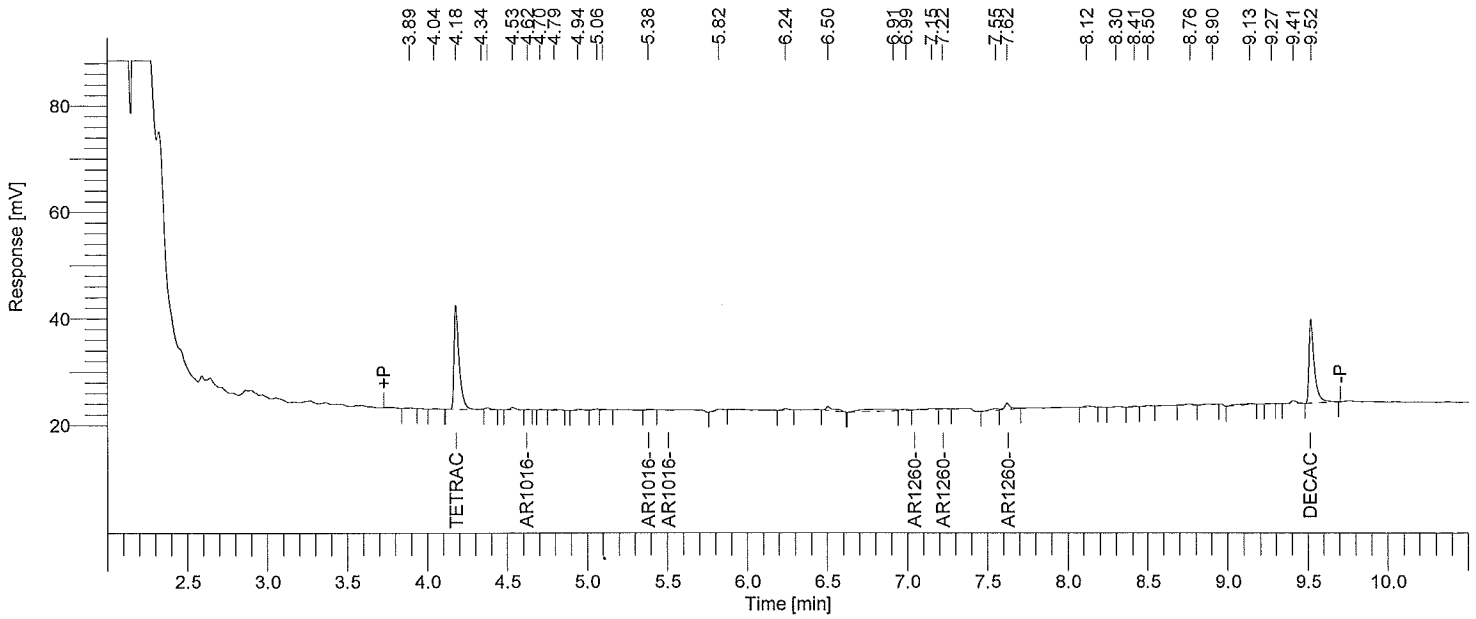

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	42369	0.03886766	1	10	0.03031	0.990	1.6496	12.82338	19.80	64.8
4.62	AR1016-1	131	5.8352e-03	1	10	0.03031	0.990	32.9924	1.92518	0.00	------
5.38	AR1016-2	361	5.0050e-03	1	10	0.03031	0.990	32.9924	1.65128	0.00	------
5.51	AR1016-3	0	0.00000000	1	10	0.03031	0.990	---------	0.00000	--------	------
7.04	AR1260-1	0	0.00000000	1	10	0.03031	0.990	---------	0.00000	--------	------
7.22	AR1260-2	339	6.8852e-03	1	10	0.03031	0.990	32.9924	2.27159	0.00	------
7.62	AR1260-3	2878	0.08163846	1	10	0.03031	0.990	32.9924	26.93450	0.00	------
9.52	Decachlorobiphenyl	35929	0.07606011	1	10	0.03031	0.990	3.2992	25.09407	39.59	63.4

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L72

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293017

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150604A037,20150604B037

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	39.	U
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	39.	U
11096-82-5	Aroclor-1260	39.	U
37324-23-5	Aroclor-1262	39.	U
11100-14-4	Aroclor-1268	39.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:38:29
Operator	: borges	Sample Name	: 1514293017
Sample Number	: 37	Study	: F9L72
AutoSampler	: HP7673A	Rack/Vial	: 0/37
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 08:59:42	Dilution Factor	: 1.00
		Cycle	: 36

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Result File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_037.rst
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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_037.rst
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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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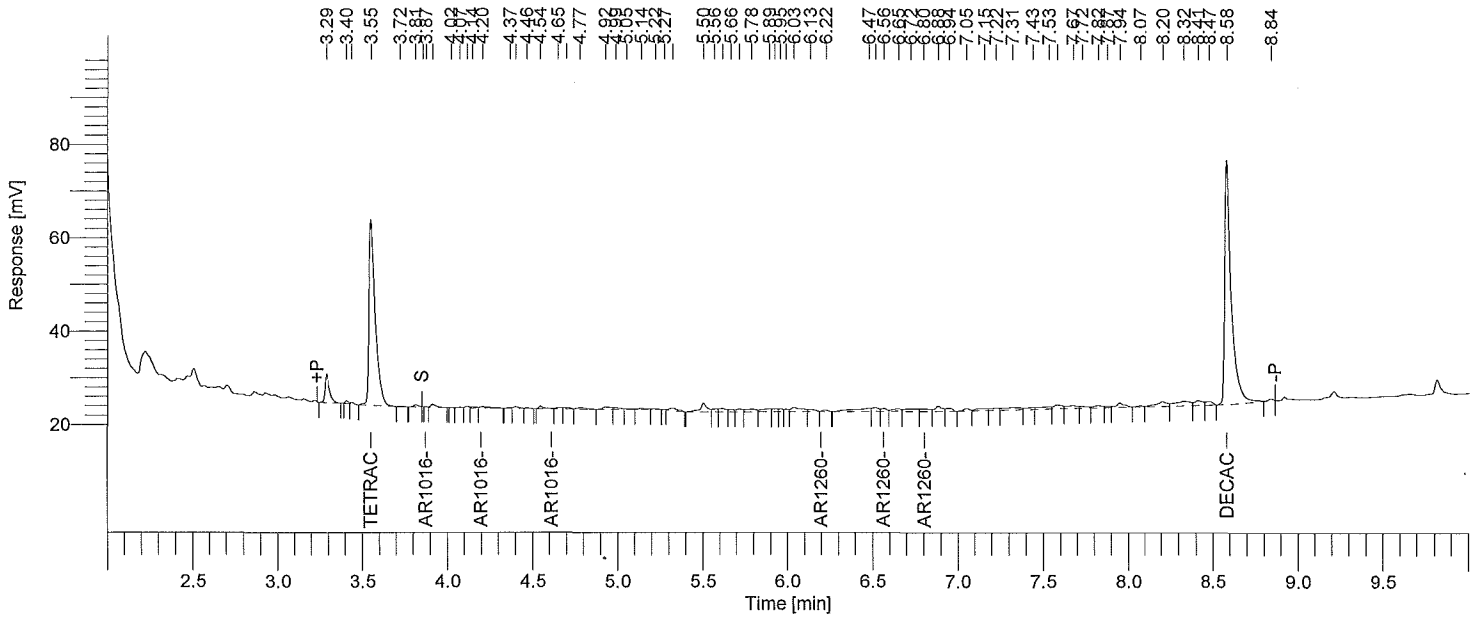

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	99996	0.04906291	1	10	0.03019	0.994	1.6562	16.25138	19.87	81.8
3.87	AR1016-1	229	5.4226e-03	1	10	0.03019	0.994	33.1236	1.79615	0.00	------
4.20	AR1016-2	1099	0.01347828	1	10	0.03019	0.994	33.1236	4.46448	0.00	------
4.65	AR1016-3	671	4.6657e-03	1	10	0.03019	0.994	33.1236	1.54543	0.00	------
6.22	AR1260-1	884	9.9956e-03	1	10	0.03019	0.994	33.1236	3.31091	0.00	------
6.56	AR1260-2	1355	0.02669911	1	10	0.03019	0.994	33.1236	8.84369	0.00	------
6.80	AR1260-3	2237	0.03780199	1	10	0.03019	0.994	33.1236	12.52136	0.00	------
8.58	Decachlorobiphenyl	135340	0.13269499	1	10	0.03019	0.994	3.3124	43.95329	39.75	110.6

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:46
Operator	: borges	Sample Name	: 1514293017
Sample Number	: 37	Study	: F9L72
AutoSampler	: HP7673A	Rack/Vial	: 0/37
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 09:15:52	Dilution Factor	: 1.00
		Cycle	: 37

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_037.raw
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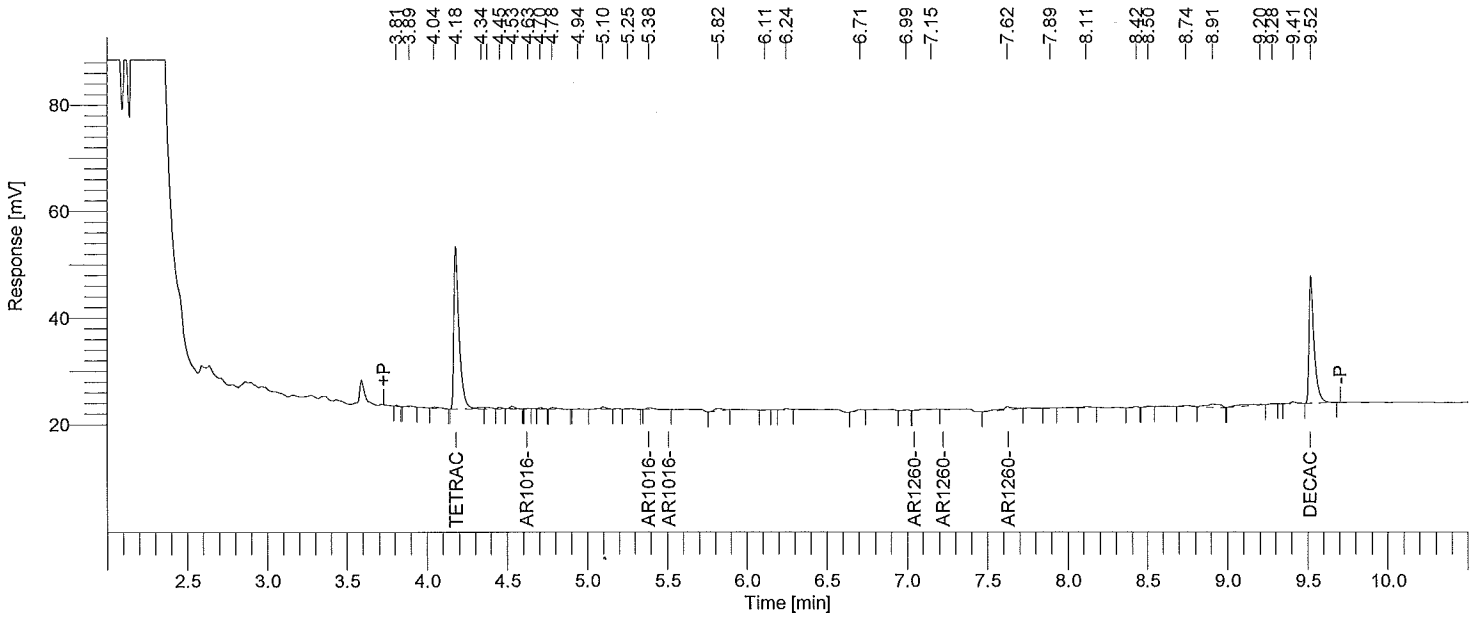
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	67794	0.06219064	1	10	0.03019	0.994	1.6562	20.59975	19.87	103.7
4.63	AR1016-1	120	5.3420e-03	1	10	0.03019	0.994	33.1236	1.76945	0.00	------
5.38	AR1016-2	1115	0.01545118	1	10	0.03019	0.994	33.1236	5.11798	0.00	------
5.51	AR1016-3	0	0.00000000	1	10	0.03019	0.994	---------	0.00000	--------	------
7.04	AR1260-1	0	0.00000000	1	10	0.03019	0.994	---------	0.00000	--------	------
7.22	AR1260-2	0	0.00000000	1	10	0.03019	0.994	---------	0.00000	--------	------
7.62	AR1260-3	2803	0.07951401	1	10	0.03019	0.994	33.1236	26.33786	0.00	------
9.52	Decachlorobiphenyl	53417	0.11307940	1	10	0.03019	0.994	3.3124	37.45591	39.75	94.2

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L73

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293018

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 20150604A038,20150604B038

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	38.	U
11096-82-5	Aroclor-1260	38.	U
37324-23-5	Aroclor-1262	38.	U
11100-14-4	Aroclor-1268	38.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:38:31
Operator	: borges	Sample Name	: 1514293018
Sample Number	: 38	Study	: F9L73
AutoSampler	: HP7673A	Rack/Vial	: 0/38
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 09:15:52	Dilution Factor	: 1.00
		Cycle	: 37

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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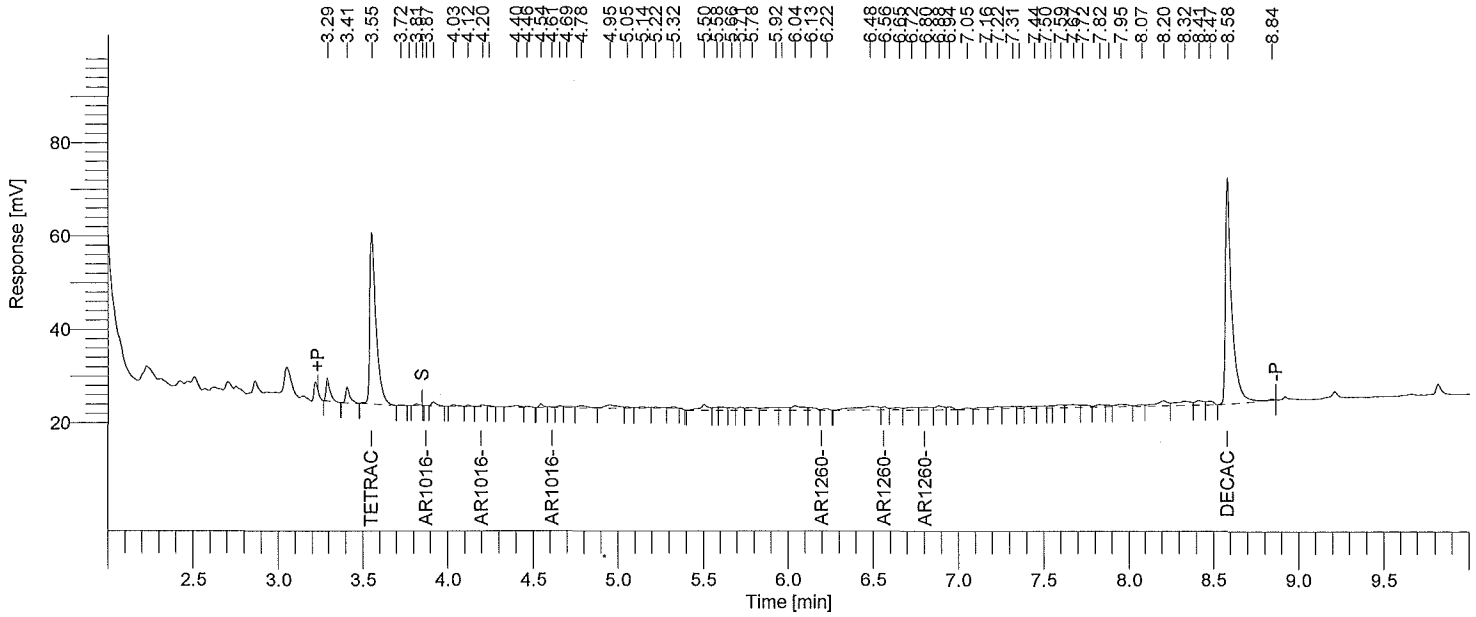

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	92877	0.04557028	1	10	0.03040	0.987	1.6447	14.99022	19.74	76.0
3.87	AR1016-1	83	1.9639e-03	1	10	0.03040	0.987	32.8947	0.64603	0.00	------
4.20	AR1016-2	769	9.4274e-03	1	10	0.03040	0.987	32.8947	3.10110	0.00	------
4.61	AR1016-3	471	3.2757e-03	1	10	0.03040	0.987	32.8947	1.07753	0.00	------
6.22	AR1260-1	911	0.01030547	1	10	0.03040	0.987	32.8947	3.38996	0.00	------
6.56	AR1260-2	1544	0.03041588	1	10	0.03040	0.987	32.8947	10.00522	0.00	------
6.80	AR1260-3	2962	0.05005582	1	10	0.03040	0.987	32.8947	16.46573	0.00	------
8.58	Decachlorobiphenyl	123805	0.12138533	1	10	0.03040	0.987	3.2895	39.92939	39.47	101.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:47
Operator	: borges	Sample Name	: 1514293018
Sample Number	: 38	Study	: F9L73
AutoSampler	: HP7673A	Rack/Vial	: 0/38
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 09:31:56	Dilution Factor	: 1.00
		Cycle	: 38

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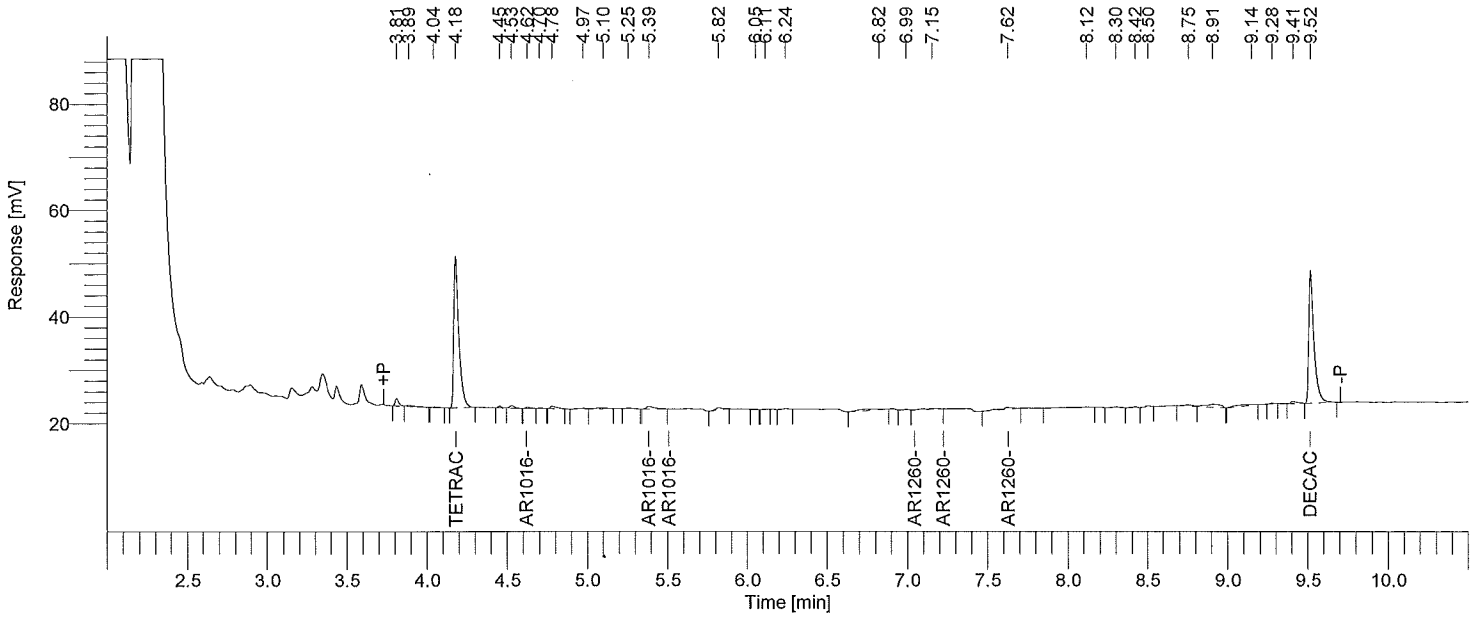

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	61608	0.05651649	1	10	0.03040	0.987	1.6447	18.59095	19.74	94.2
4.62	AR1016-1	543	0.02422793	1	10	0.03040	0.987	32.8947	7.96971	0.00	------
5.39	AR1016-2	1567	0.02171773	1	10	0.03040	0.987	32.8947	7.14399	0.00	------
5.51	AR1016-3	0	0.00000000	1	10	0.03040	0.987	---------	0.00000	--------	------
7.04	AR1260-1	0	0.00000000	1	10	0.03040	0.987	---------	0.00000	--------	------
7.22	AR1260-2	0	0.00000000	1	10	0.03040	0.987	---------	0.00000	--------	------
7.62	AR1260-3	2098	0.05951467	1	10	0.03040	0.987	32.8947	19.57719	0.00	------
9.52	Decachlorobiphenyl	55991	0.11852959	1	10	0.03040	0.987	3.2895	38.99000	39.47	98.8

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L75

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293019

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 20150604A039,20150604B039

% Moisture: 13. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:38:33
Operator	: borges	Sample Name	: 1514293019
Sample Number	: 39	Study	: F9L75
AutoSampler	: HP7673A	Rack/Vial	: 0/39
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 09:31:56	Cycle	: 38

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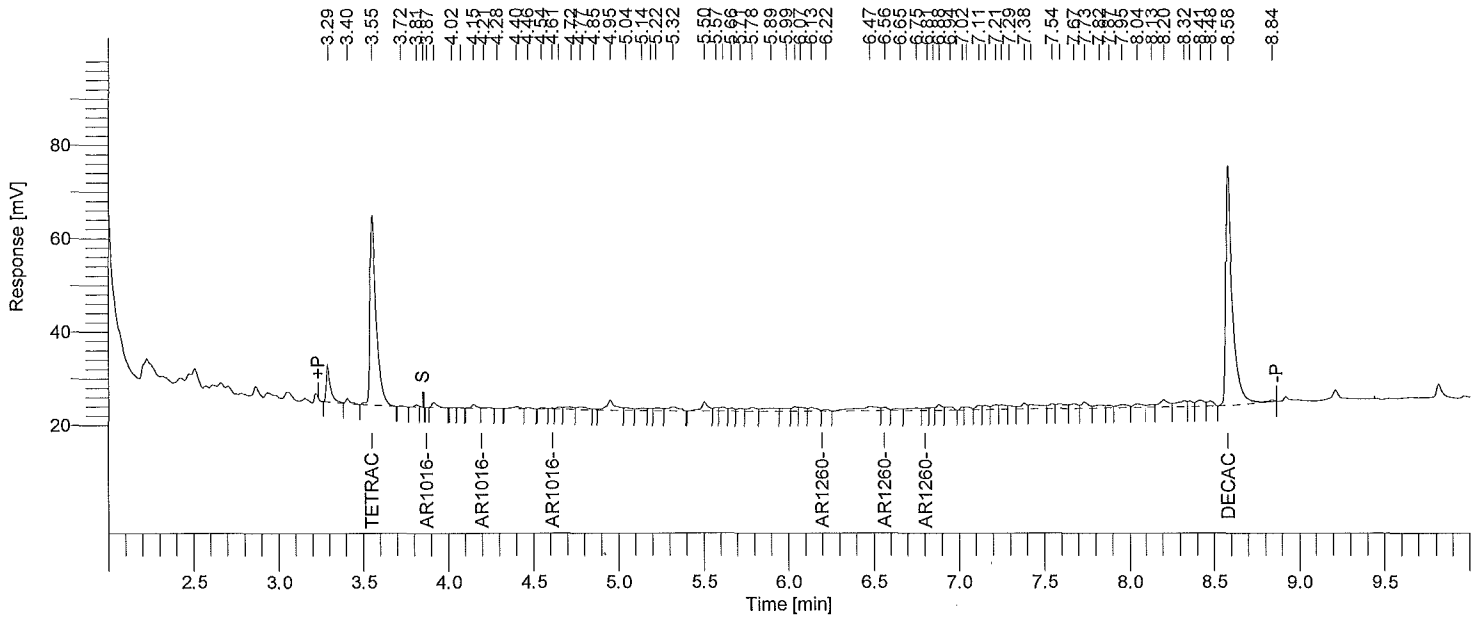

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	101311	0.04970843	1	10	0.03042	0.986	1.6437	16.34071	19.72	82.8
3.87	AR1016-1	21	5.0420e-04	1	10	0.03042	0.986	32.8731	0.16575	0.00	------
4.21	AR1016-2	532	6.5239e-03	1	10	0.03042	0.986	32.8731	2.14459	0.00	------
4.61	AR1016-3	449	3.1169e-03	1	10	0.03042	0.986	32.8731	1.02461	0.00	------
6.22	AR1260-1	843	9.5305e-03	1	10	0.03042	0.986	32.8731	3.13297	0.00	------
6.56	AR1260-2	1652	0.03255344	1	10	0.03042	0.986	32.8731	10.70133	0.00	------
6.81	AR1260-3	1459	0.02465020	1	10	0.03042	0.986	32.8731	8.10329	0.00	------
8.58	Decachlorobiphenyl	133020	0.13041972	1	10	0.03042	0.986	3.2873	42.87302	39.45	108.7

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:49
Operator	: borges	Sample Name	: 1514293019
Sample Number	: 39	Study	: F9L75
AutoSampler	: HP7673A	Rack/Vial	: 0/39
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 09:48:06	Dilution Factor	: 1.00
		Cycle	: 39

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_039.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_039.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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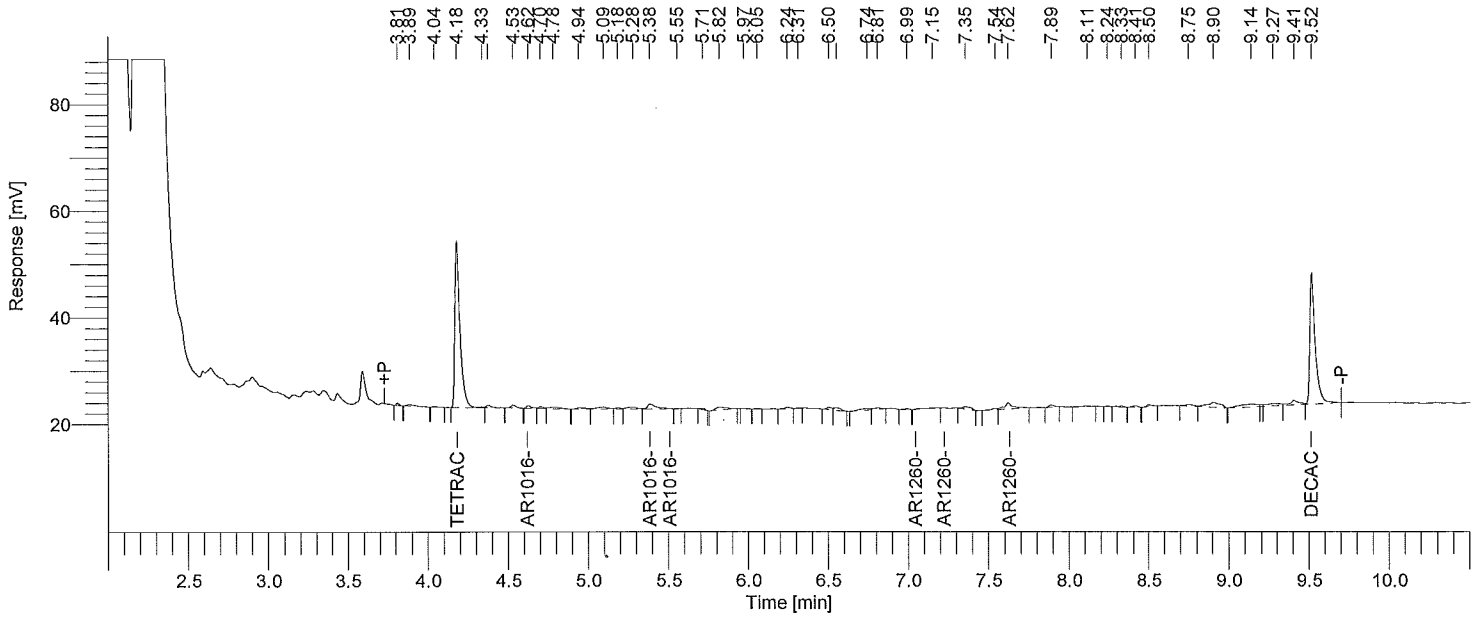

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	68514	0.06285103	1	10	0.03042	0.986	1.6437	20.66109	19.72	104.8
4.62	AR1016-1	1001	0.04464399	1	10	0.03042	0.986	32.8731	14.67587	0.00	------
5.38	AR1016-2	3476	0.04817565	1	10	0.03042	0.986	32.8731	15.83683	0.00	------
5.55	AR1016-3	74	2.2919e-03	1	10	0.03042	0.986	32.8731	0.75341	0.00	------
7.04	AR1260-1	0	0.00000000	1	10	0.03042	0.986	---------	0.00000	--------	------
7.22	AR1260-2	0	0.00000000	1	10	0.03042	0.986	---------	0.00000	--------	------
7.62	AR1260-3	3925	0.11133516	1	10	0.03042	0.986	32.8731	36.59933	0.00	------
9.52	Decachlorobiphenyl	57181	0.12104857	1	10	0.03042	0.986	3.2873	39.79243	39.45	100.9

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L77

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293020

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150604A040,20150604B040

% Moisture: 11. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:38:36
Operator	: borges	Sample Name	: 1514293020
Sample Number	: 40	Study	: F9L77
AutoSampler	: HP7673A	Rack/Vial	: 0/40
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 09:48:06	Dilution Factor	: 1.00
		Cycle	: 39

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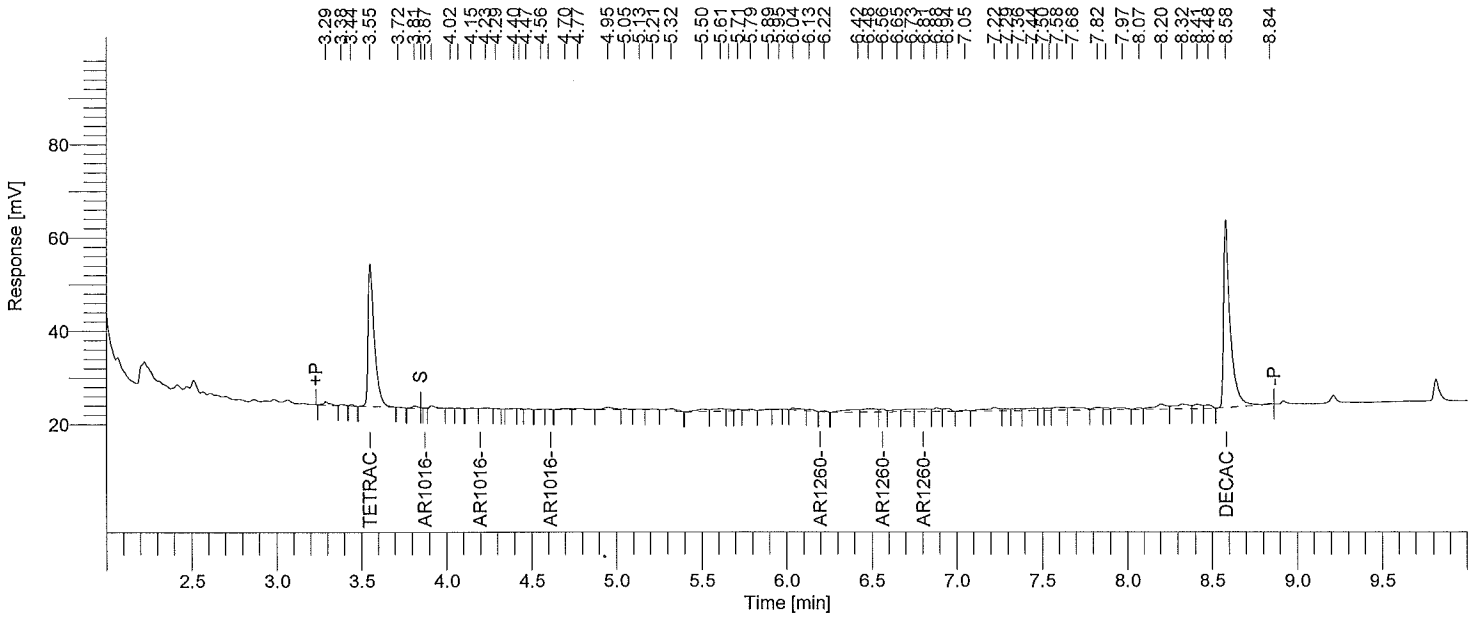

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	76902	0.03773185	1	10	0.03023	0.992	1.6540	12.48159	19.85	62.9
3.87	AR1016-1	140	3.3199e-03	1	10	0.03023	0.992	33.0797	1.09821	0.00	------
4.23	AR1016-2	534	6.5502e-03	1	10	0.03023	0.992	33.0797	2.16677	0.00	------
4.60	AR1016-3	324	2.2530e-03	1	10	0.03023	0.992	33.0797	0.74528	0.00	------
6.22	AR1260-1	544	6.1562e-03	1	10	0.03023	0.992	33.0797	2.03646	0.00	------
6.56	AR1260-2	1615	0.03181216	1	10	0.03023	0.992	33.0797	10.52337	0.00	------
6.81	AR1260-3	3407	0.05757698	1	10	0.03023	0.992	33.0797	19.04630	0.00	------
8.58	Decachlorobiphenyl	104304	0.10226556	1	10	0.03023	0.992	3.3080	33.82916	39.70	85.2

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:50
Operator	: borges	Sample Name	: 1514293020
Sample Number	: 40	Study	: F9L77
AutoSampler	: HP7673A	Rack/Vial	: 0/40
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 10:04:10	Dilution Factor	: 1.00
		Cycle	: 40

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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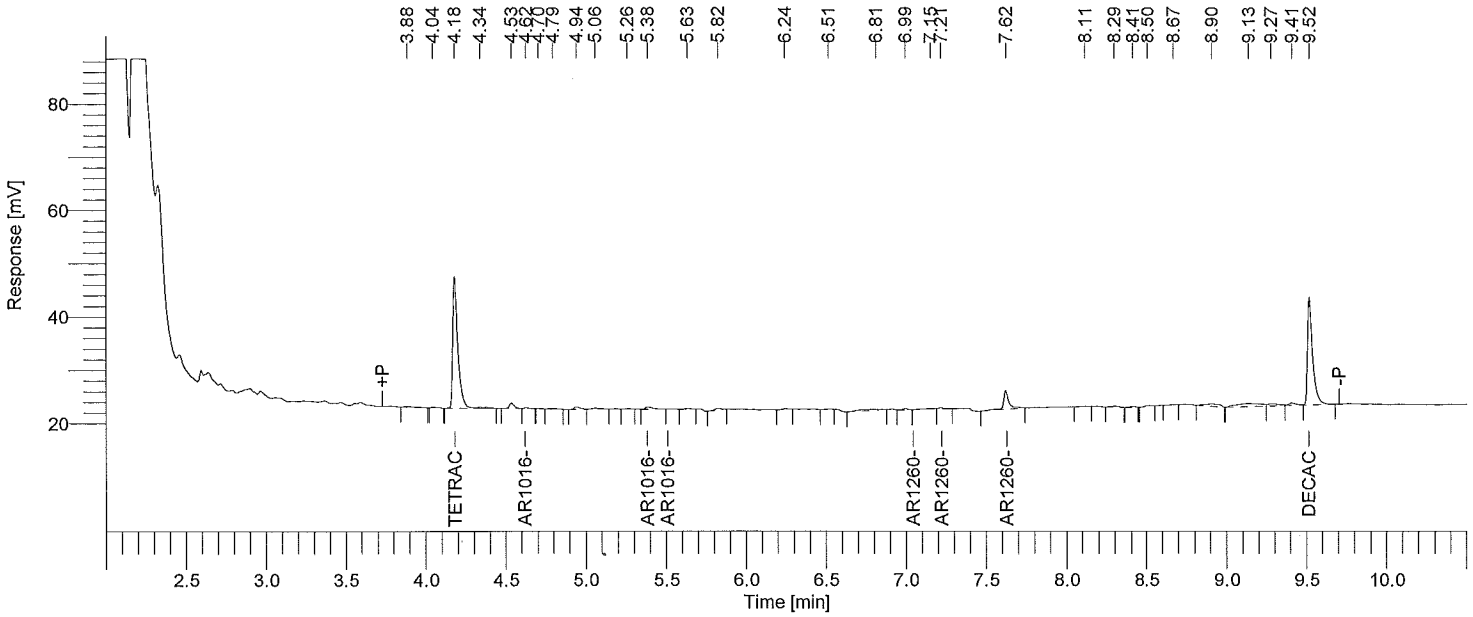

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	53986	0.04952406	1	10	0.03023	0.992	1.6540	16.38242	19.85	82.5
4.62	AR1016-1	297	0.01326218	1	10	0.03023	0.992	33.0797	4.38709	0.00	------
5.38	AR1016-2	1392	0.01929807	1	10	0.03023	0.992	33.0797	6.38375	0.00	------
5.51	AR1016-3	0	0.00000000	1	10	0.03023	0.992	--------	0.00000	-------	------
7.04	AR1260-1	0	0.00000000	1	10	0.03023	0.992	--------	0.00000	-------	------
7.21	AR1260-2	532	0.01078910	1	10	0.03023	0.992	33.0797	3.56900	0.00	------
7.62	AR1260-3	8350	0.23682657	1	10	0.03023	0.992	33.0797	78.34157	0.00	------
9.52	Decachlorobiphenyl	45549	0.09642338	1	10	0.03023	0.992	3.3080	31.89659	39.70	80.4

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L78

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293021

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150604A041,20150604B041

% Moisture: 14. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	38.	U
11096-82-5	Aroclor-1260	38.	U
37324-23-5	Aroclor-1262	38.	U
11100-14-4	Aroclor-1268	38.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:38:38
Operator	: borges	Sample Name	: 1514293021
Sample Number	: 41	Study	: F9L78
AutoSampler	: HP7673A	Rack/Vial	: 0/41
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 10:04:10	Dilution Factor	: 1.00
		Cycle	: 40

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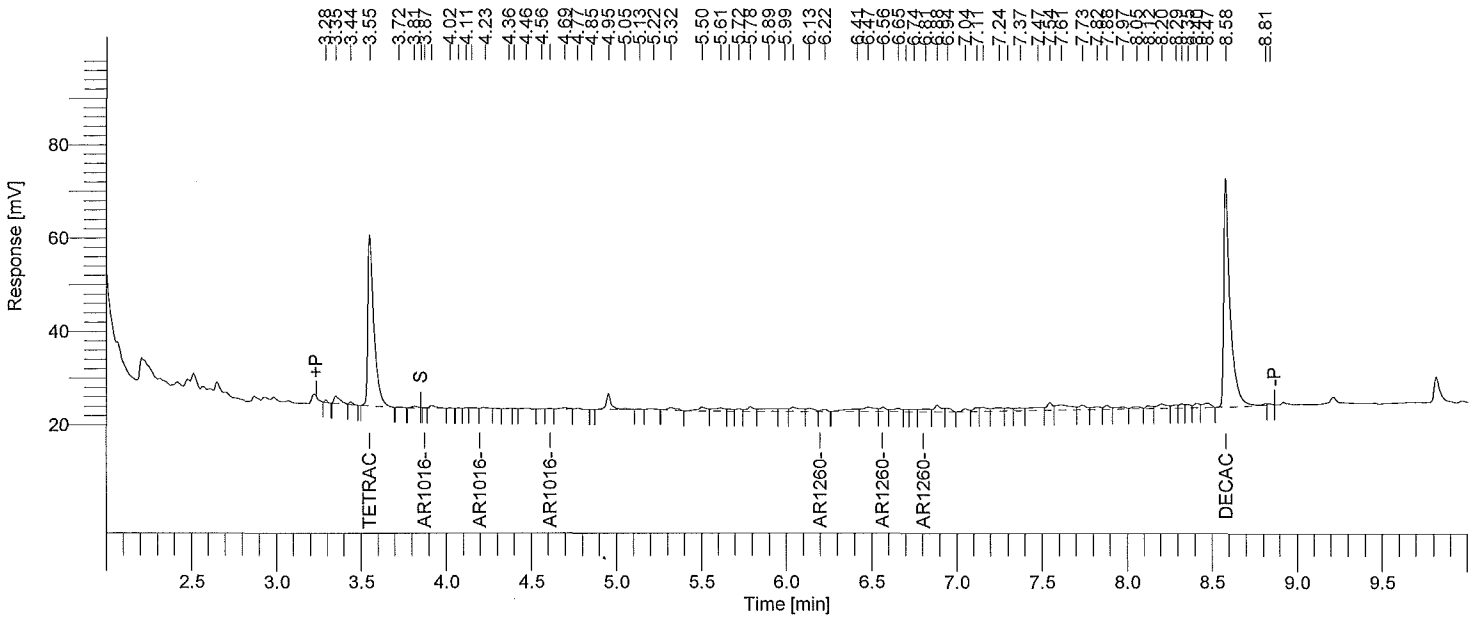

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	89525	0.04392524	1	10	0.03016	0.995	1.6578	14.56407	19.89	73.2
3.87	AR1016-1	126	2.9772e-03	1	10	0.03016	0.995	33.1565	0.98715	0.00	------
4.23	AR1016-2	569	6.9793e-03	1	10	0.03016	0.995	33.1565	2.31409	0.00	------
4.61	AR1016-3	315	2.1872e-03	1	10	0.03016	0.995	33.1565	0.72519	0.00	------
6.22	AR1260-1	1030	0.01165403	1	10	0.03016	0.995	33.1565	3.86407	0.00	------
6.56	AR1260-2	2340	0.04610912	1	10	0.03016	0.995	33.1565	15.28817	0.00	------
6.81	AR1260-3	2823	0.04770150	1	10	0.03016	0.995	33.1565	15.81615	0.00	------
8.58	Decachlorobiphenyl	124622	0.12218625	1	10	0.03016	0.995	3.3156	40.51268	39.79	101.8

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:51
Operator	: borges	Sample Name	: 1514293021
Sample Number	: 41	Study	: F9L78
AutoSampler	: HP7673A	Rack/Vial	: 0/41
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 10:20:20	Dilution Factor	: 1.00
		Cycle	: 41

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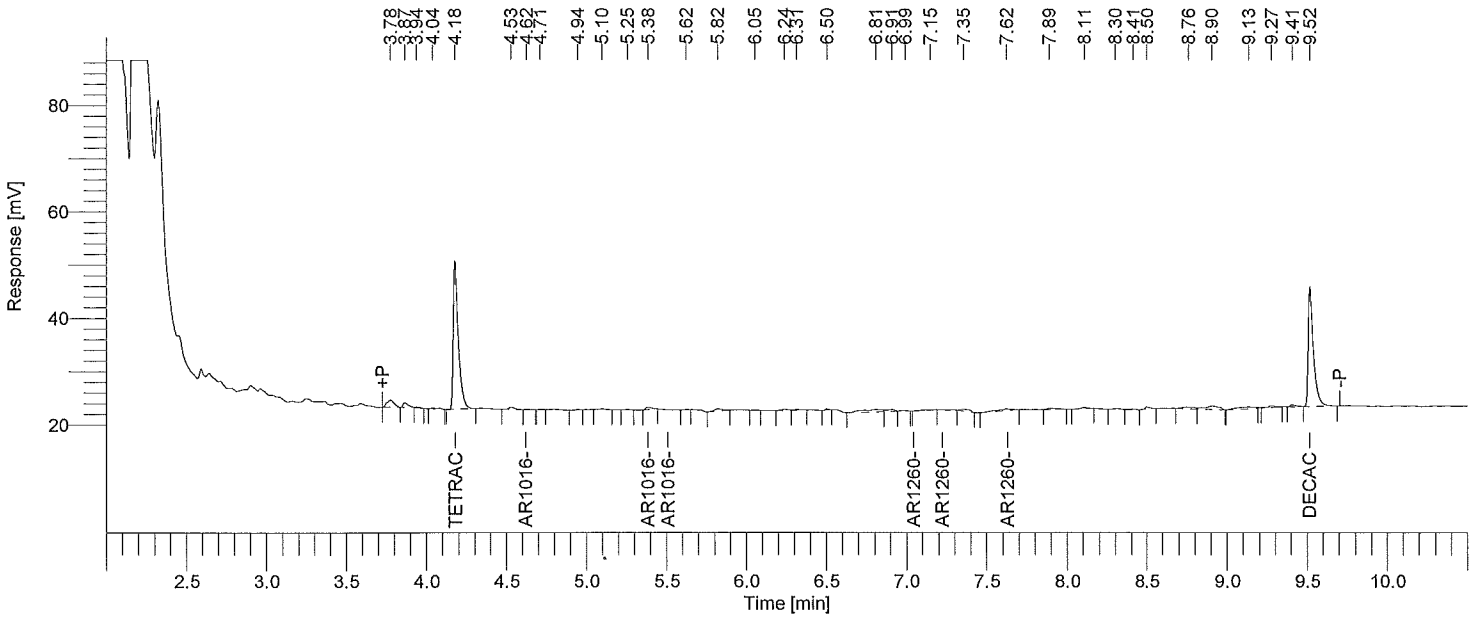

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	60570	0.05556392	1	10	0.03016	0.995	1.6578	18.42305	19.89	92.6
4.62	AR1016-1	170	7.5950e-03	1	10	0.03016	0.995	33.1565	2.51825	0.00	------
5.38	AR1016-2	1130	0.01565665	1	10	0.03016	0.995	33.1565	5.19120	0.00	------
5.51	AR1016-3	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
7.04	AR1260-1	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
7.22	AR1260-2	0	0.00000000	1	10	0.03016	0.995	---------	0.00000	--------	------
7.62	AR1260-3	2026	0.05745695	1	10	0.03016	0.995	33.1565	19.05071	0.00	------
9.52	Decachlorobiphenyl	50904	0.10775981	1	10	0.03016	0.995	3.3156	35.72938	39.79	89.8

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L79

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293022

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 20150604A042,20150604B042

% Moisture: 12. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:38:40
Operator	: borges	Sample Name	: 1514293022
Sample Number	: 42	Study	: F9L79
AutoSampler	: HP7673A	Rack/Vial	: 0/42
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 10:20:20	Dilution Factor	: 1.00
		Cycle	: 41

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_042.raw
Result File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_042.rst
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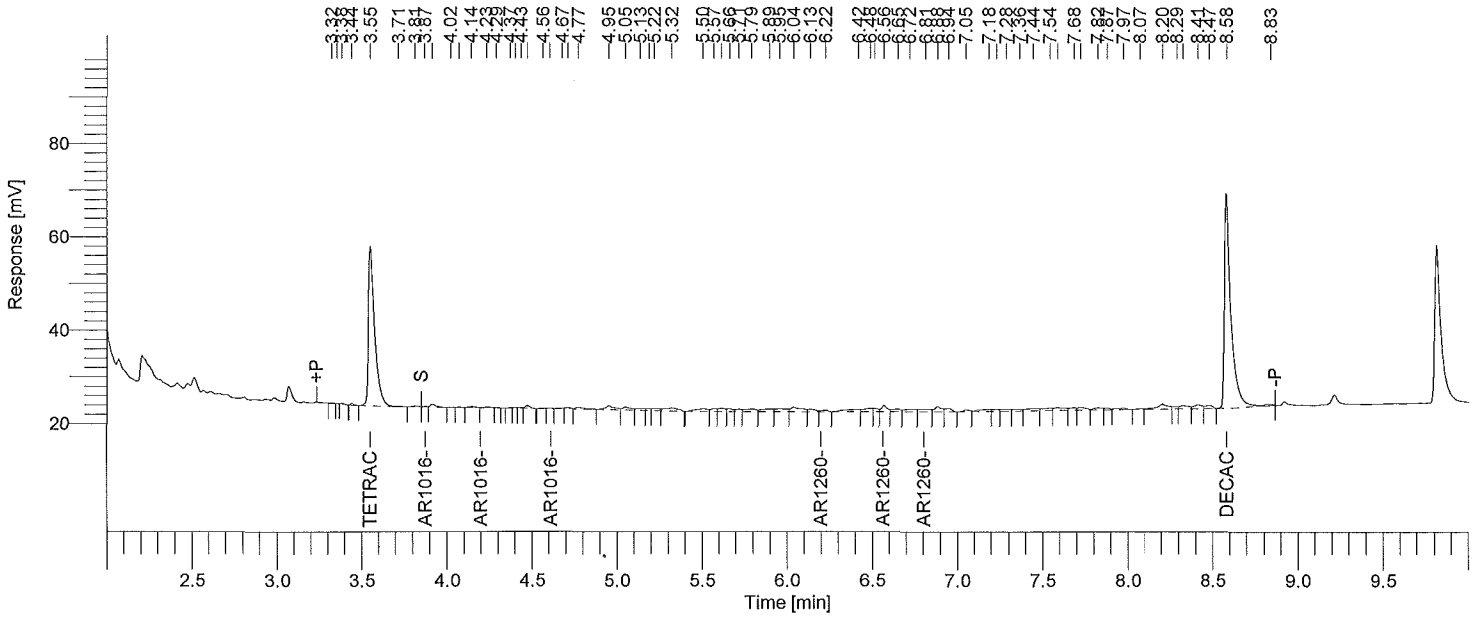
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	84961	0.04168597	1	10	0.03044	0.986	1.6426	13.69447	19.71	69.5
3.87	AR1016-1	329	7.7974e-03	1	10	0.03044	0.986	32.8515	2.56158	0.00	------
4.23	AR1016-2	440	5.3973e-03	1	10	0.03044	0.986	32.8515	1.77309	0.00	------
4.60	AR1016-3	281	1.9508e-03	1	10	0.03044	0.986	32.8515	0.64088	0.00	------
6.22	AR1260-1	909	0.01028027	1	10	0.03044	0.986	32.8515	3.37722	0.00	------
6.56	AR1260-2	3062	0.06032282	1	10	0.03044	0.986	32.8515	19.81696	0.00	------
6.81	AR1260-3	2945	0.04975642	1	10	0.03044	0.986	32.8515	16.34573	0.00	------
8.58	Decachlorobiphenyl	118656	0.11633677	1	10	0.03044	0.986	3.2852	38.21839	39.42	96.9

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:53
Operator	: borges	Sample Name	: 1514293022
Sample Number	: 42	Study	: F9L79
AutoSampler	: HP7673A	Rack/Vial	: 0/42
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 10:36:28	Dilution Factor	: 1.00
		Cycle	: 42

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_042.raw
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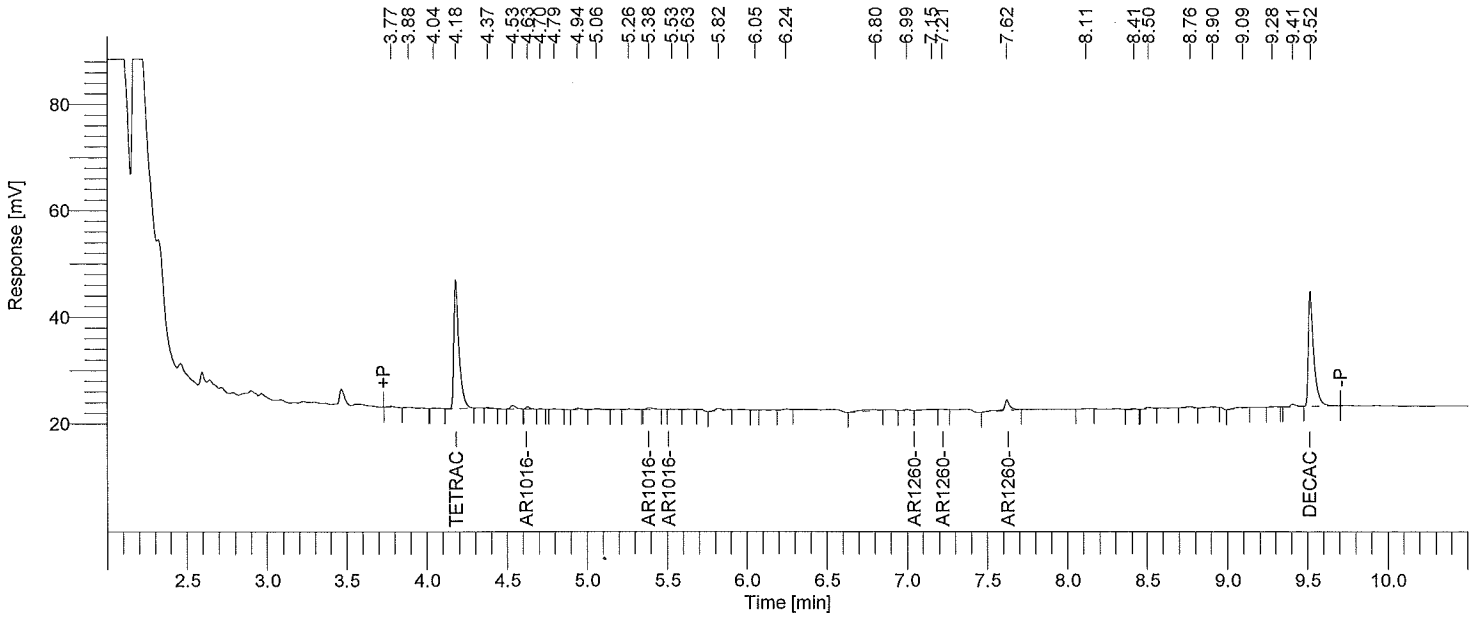
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_042.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	52120	0.04781240	1	10	0.03044	0.986	1.6426	15.70710	19.71	79.7
4.63	AR1016-1	745	0.03322884	1	10	0.03044	0.986	32.8515	10.91618	0.00	------
5.38	AR1016-2	874	0.01210846	1	10	0.03044	0.986	32.8515	3.97781	0.00	------
5.53	AR1016-3	257	7.9224e-03	1	10	0.03044	0.986	32.8515	2.60264	0.00	------
7.04	AR1260-1	0	0.00000000	1	10	0.03044	0.986	---------	0.00000	--------	------
7.21	AR1260-2	346	7.0315e-03	1	10	0.03044	0.986	32.8515	2.30994	0.00	------
7.62	AR1260-3	5231	0.14836821	1	10	0.03044	0.986	32.8515	48.74120	0.00	------
9.52	Decachlorobiphenyl	49230	0.10421696	1	10	0.03044	0.986	3.2852	34.23685	39.42	86.8

One surrogate 30-150% for field samples, both for method blank.

6N - FORM VI ARO-1
AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L58

Instrument ID: GCE20

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16

GC Column: RTXCLP ID: 0.32 (mm) Dates(s) Analyzed: 06/05/2015 06/05/2015

COMPOUND	PEAK*	RT OF STANDARDS					$\overline{RT}$	RT WINDOW**	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
AR1016	1	3.88	3.88	3.87	3.87	3.87	3.87	3.80	3.94
	2	4.20	4.20	4.20	4.20	4.20	4.20	4.13	4.27
	3	4.62	4.61	4.61	4.61	4.61	4.61	4.54	4.68
	4								
	5								
TCX		3.55	3.55	3.55	3.55	3.55	3.55	3.50	3.60
DCB		8.59	8.58	8.58	8.58	8.58	8.58	8.48	8.68
AR1260	1	6.20	6.20	6.20	6.20	6.20	6.20	6.13	6.27
	2	6.57	6.56	6.56	6.56	6.56	6.56	6.49	6.63
	3	6.81	6.81	6.80	6.80	6.80	6.81	6.74	6.88
	4								
	5								
TCX									
DCB									
AR_____	1								
	2								
	3								
	4								
	5								
TCX									
DCB									

* At least three peaks for each column are required for identification of Aroclors.

** Retention Time windows are ± 0.07 minutes for each Aroclor peak; ± 0.05 minutes for TCX; and ± 0.10 minutes for DCB.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6N - FORM VI ARO-1

AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L58

Instrument ID: GCE20

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16

GC Column: RTXCLP2 ID: 0.32 (mm) Dates(s) Analyzed: 06/05/2015 06/05/2015

COMPOUND	PEAK*	RT OF STANDARDS					$\overline{RT}$	RT WINDOW**	
		CS1	CS2	CS3	CS4	CS5		FROM	TO
AR1016	1	4.62	4.62	4.62	4.62	4.62	4.62	4.55	4.69
	2	5.39	5.39	5.39	5.38	5.39	5.39	5.32	5.46
	3	5.51	5.51	5.51	5.51	5.51	5.51	5.44	5.58
	4								
	5								
TCX		4.18	4.18	4.18	4.18	4.18	4.18	4.13	4.23
DCB		9.52	9.52	9.52	9.52	9.52	9.52	9.42	9.62
AR1260	1	7.05	7.05	7.05	7.05	7.05	7.05	6.98	7.12
	2	7.23	7.23	7.23	7.22	7.22	7.22	7.15	7.29
	3	7.63	7.63	7.63	7.63	7.63	7.63	7.56	7.70
	4								
	5								
TCX									
DCB									
AR_____	1								
	2								
	3								
	4								
	5								
TCX									
DCB									

* At least three peaks for each column are required for identification of Aroclors.

** Retention Time windows are ± 0.07 minutes for each Aroclor peak; ± 0.05 minutes for TCX; and ± 0.10 minutes for DCB.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6P - FORM VI ARO-2
AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: GCE20

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16

GC Column: RTXCLP ID: 0.32 (mm) Dates(s) Analyzed: 06/05/2015 06/05/2015

COMPOUND	PEAK[1]	CALIBRATION FACTORS (CFs)					%RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1	25300	22100	21100	19500	17400	14.1
	2	49600	42800	40900	37400	33200	15.1
	3	81100	73100	72900	68900	63800	8.8
	4						
	5						
TCX		1090000	991000	1040000	1020000	952000	5.1
DCB		599000	506000	527000	476000	442000	11.6
AR1260	1	52100	45500	44400	41100	38000	12.0
	2	27300	25000	25900	24900	23800	5.1
	3	34800	30100	29800	27500	25700	11.7
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

[1]At least three peaks for each column are required for identification of Aroclors.

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

6P - FORM VI ARO-2
AROCLORS INITIAL CALIBRATION (MULTIPOINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: GCE20

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16

GC Column: RTXCLP2 ID: 0.32 (mm) Dates(s) Analyzed: 06/05/2015 06/05/2015

COMPOUND	PEAK[1]	CALIBRATION FACTORS (CFs)					%RSD
		CS1	CS2	CS3	CS4	CS5	
AR1016	1	12100	11400	12600	10800	9270	11.4
	2	37200	35600	40400	35800	31400	9.0
	3	16900	16100	18100	16000	13900	9.4
	4						
	5						
TCX		498000	515000	629000	568000	515000	9.9
DCB		240000	235000	256000	237000	213000	6.6
AR1260	1	25300	23800	26200	22900	19900	10.4
	2	26000	25000	27300	23900	21000	9.7
	3	20200	18600	19000	16100	14200	13.7
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

[1]At least three peaks for each column are required for identification of Aroclors.

TCX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

6Q - FORM VI ARO-3
AROCLORS INITIAL CALIBRATION (SINGLE POINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: GCE20 Dates(s) Analyzed: 06/05/2015 06/05/2015

GC Column: RTXCLP ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK[1]	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor 1221	0.800	1	3.07	3.00	3.14	9700
		2	3.70	3.63	3.77	11000
		3	3.87	3.80	3.94	27600
		4				
		5				
Aroclor 1232	0.800	1	4.20	4.13	4.27	19300
		2	4.61	4.54	4.68	31100
		3	4.74	4.67	4.81	11500
		4				
		5				
Aroclor 1242	0.800	1	3.88	3.81	3.95	17900
		2	4.20	4.13	4.27	34900
		3	4.74	4.67	4.81	22000
		4				
		5				
Aroclor 1248	0.800	1	4.61	4.54	4.68	33200
		2	5.10	5.03	5.17	36100
		3	6.04	5.97	6.11	17700
		4				
		5				
Aroclor 1254	0.800	1	6.04	5.97	6.11	51000
		2	6.45	6.38	6.52	34400
		3	6.71	6.64	6.78	43700
		4				
		5				
Aroclor 1262	0.800	1	6.20	6.13	6.27	32300
		2	6.45	6.38	6.52	29200
		3	6.80	6.73	6.87	35700
		4				
		5				
Aroclor 1268	0.800	1	6.81	6.74	6.88	20900
		2	7.03	6.96	7.10	24300
		3	7.82	7.75	7.89	59200
		4				
		5				

[1]At least three peaks for each column are required for identification of multicomponent analytes.

6Q - FORM VI ARO-3
AROCLORS INITIAL CALIBRATION (SINGLE POINT)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Instrument ID: GCE20 Dates(s) Analyzed: 06/05/2015 06/05/2015

GC Column: RTXCLP2 ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK[1]	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor 1221	0.800	1	3.76	3.69	3.83	6530
		2	4.44	4.37	4.51	6640
		3	4.62	4.55	4.69	16900
		4				
		5				
Aroclor 1232	0.800	1	4.62	4.55	4.69	12300
		2	5.39	5.32	5.46	14100
		3	5.51	5.44	5.58	6520
		4				
		5				
Aroclor 1242	0.800	1	4.62	4.55	4.69	10300
		2	5.39	5.32	5.46	32100
		3	5.51	5.44	5.58	14600
		4				
		5				
Aroclor 1248	0.800	1	5.38	5.31	5.45	20500
		2	6.04	5.97	6.11	20400
		3	6.88	6.81	6.95	11000
		4				
		5				
Aroclor 1254	0.800	1	6.30	6.23	6.37	21600
		2	6.46	6.39	6.53	19600
		3	6.77	6.70	6.84	14800
		4				
		5				
Aroclor 1262	0.800	1	7.05	6.98	7.12	16900
		2	7.22	7.15	7.29	17200
		3	7.90	7.83	7.97	18500
		4				
		5				
Aroclor 1268	0.800	1	7.63	7.56	7.70	11800
		2	7.91	7.84	7.98	13400
		3	8.73	8.66	8.80	30200
		4				
		5				

[1]At least three peaks for each column are required for identification of multicomponent analytes.

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L58

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/05/2015 06/05/2015

EPA Sample No. (AR####3##): AR16603B1 Date Analyzed: 06/05/2015

Lab Sample ID: AR16603B1 Time Analyzed: 03:36

EPA Sample No. (AR####3##): _____ Date Analyzed: _____

Lab Sample ID: _____ Time Analyzed: _____

AROCLOR COMPOUND	PEAK	RETENTION	RT WINDOW		$\overline{CF}$	CF	%D
		RT	FROM	TO			
AR1016	1	3.87	3.80	3.94	21100	20300	-3.6
	2	4.20	4.13	4.27	40800	39700	-2.6
	3	4.61	4.54	4.68	72000	69000	-4.1
	4						
	5						
TCX		3.55	3.50	3.60	1020000	1020000	0.1
DCB		8.58	8.48	8.68	510000	480000	-6.0
AR1260	1	6.20	6.13	6.27	44200	42100	-4.7
	2	6.56	6.49	6.63	25400	24200	-4.7
	3	6.80	6.74	6.88	29600	28100	-5.0
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/05/2015 06/05/2015

EPA Sample No. (AR####3##): AR16603C1 Date Analyzed: 06/05/2015

Lab Sample ID: AR16603C1 Time Analyzed: 15:27

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

AROCLOR COMPOUND	PEAK	RETENTION	RT WINDOW		$\overline{CF}$	CF	%D
		RT	FROM	TO			
AR1016	1	3.87	3.80	3.94	21100	20200	-4.1
	2	4.20	4.13	4.27	40800	39700	-2.7
	3	4.61	4.54	4.68	72000	75800	5.4
	4						
	5						
TCX		3.55	3.50	3.60	1020000	968000	-5.0
DCB		8.58	8.48	8.68	510000	565000	10.7
AR1260	1	6.19	6.13	6.27	44200	44300	0.2
	2	6.56	6.49	6.63	25400	26800	5.7
	3	6.80	6.74	6.88	29600	29400	-0.8
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7N - FORM VII ARO

AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/05/2015 06/05/2015

EPA Sample No. (AR####3##): AR16603B2 Date Analyzed: 06/05/2015

Lab Sample ID: AR16603B2 Time Analyzed: 03:52

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

AROCLOR COMPOUND	PEAK	RETENTION	RT WINDOW		$\overline{CF}$	CF	%D
		RT	FROM	TO			
AR1016	1	4.62	4.55	4.69	11200	11800	5.0
	2	5.38	5.32	5.46	36100	37600	4.2
	3	5.51	5.44	5.58	16200	16900	4.3
	4						
	5						
TCX		4.18	4.13	4.23	545000	583000	6.9
DCB		9.52	9.42	9.62	236000	244000	3.3
AR1260	1	7.05	6.98	7.12	23600	24600	4.3
	2	7.22	7.15	7.29	24600	25500	3.4
	3	7.63	7.56	7.70	17600	18000	2.0
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

7N - FORM VII ARO
AROCLOR CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/05/2015 06/05/2015

EPA Sample No. (AR####3##): AR16603C2 Date Analyzed: 06/05/2015

Lab Sample ID: AR16603C2 Time Analyzed: 15:43

EPA Sample No. (AR####3##): Date Analyzed:

Lab Sample ID: Time Analyzed:

AROCLOR COMPOUND	PEAK	RETENTION	RT WINDOW		$\overline{CF}$	CF	%D
		RT	FROM	TO			
AR1016	1	4.61	4.55	4.69	11200	12800	14.0
	2	5.38	5.32	5.46	36100	42600	18.1
	3	5.50	5.44	5.58	16200	18600	14.9
	4						
	5						
TCX		4.18	4.13	4.23	545000	631000	15.8
DCB		9.52	9.42	9.62	236000	222000	-5.9
AR1260	1	7.04	6.98	7.12	23600	25600	8.5
	2	7.22	7.15	7.29	24600	27200	10.4
	3	7.63	7.56	7.70	17600	18500	4.8
	4						
	5						
TCX							
DCB							
AR_____	1						
	2						
	3						
	4						
	5						
TCX							
DCB							

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/05/2015 06/05/2015

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.55 DCB: 8.58

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
01	AR16601A1	20150604A004	06/05/2015	00:06	3.55		8.59	
02	AR16602A1	20150604A005	06/05/2015	00:22	3.55		8.58	
03	AR16603A1	20150604A006	06/05/2015	00:38	3.55		8.58	
04	AR16604A1	20150604A007	06/05/2015	00:54	3.55		8.58	
05	AR16605A1	20150604A008	06/05/2015	01:10	3.55		8.58	
06	AR12213A1	20150604A009	06/05/2015	01:26	3.55		8.58	
07	AR12323A1	20150604A010	06/05/2015	01:43	3.55		8.58	
08	AR12423A1	20150604A011	06/05/2015	01:59	3.55		8.58	
09	AR12483A1	20150604A012	06/05/2015	02:15	3.55		8.58	
10	AR12543A1	20150604A013	06/05/2015	02:31	3.55		8.58	
11	AR12623A1	20150604A014	06/05/2015	02:47	3.55		8.58	
12	AR12683A1	20150604A015	06/05/2015	03:03	3.55		8.58	
13	AIBLKB1	20150604A016	06/05/2015	03:20	3.55		8.58	
14	AR16603B1	20150604A017	06/05/2015	03:36	3.55		8.58	
15	ZZZZZ		06/05/2015	03:52				
16	ABLKS1	20150604A019	06/05/2015	04:08	3.55		8.58	
17	ALCSS1	20150604A020	06/05/2015	04:24	3.55		8.58	
18	F9L58	20150604A021	06/05/2015	04:40	3.55		8.58	
19	F9L59	20150604A022	06/05/2015	04:56	3.55		8.58	
20	F9L60	20150604A023	06/05/2015	05:13	3.55		8.58	
21	F9L61	20150604A024	06/05/2015	05:29	3.55		8.58	
22	F9L62	20150604A025	06/05/2015	05:45	3.55		8.58	
23	F9L63	20150604A026	06/05/2015	06:01	3.55		8.58	
24	F9L64	20150604A027	06/05/2015	06:17	3.55		8.58	
25	F9L65	20150604A028	06/05/2015	06:33	3.55		8.58	
26	F9L66	20150604A029	06/05/2015	06:49	3.55		8.58	
27	F9L66MS	20150604A030	06/05/2015	07:06	3.55		8.58	
28	F9L66MSD	20150604A031	06/05/2015	07:22	3.55		8.58	
29	F9L67	20150604A032	06/05/2015	07:38	3.55		8.58	
30	F9L68	20150604A033	06/05/2015	07:54	3.55		8.58	
31	F9L69	20150604A034	06/05/2015	08:11	3.55		8.58	
32	F9L70	20150604A035	06/05/2015	08:27	3.55		8.58	

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

10342

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP ID: 0.32 (mm) Init. Calib. Date(s): 06/05/2015 06/05/2015

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.55 DCB: 8.58

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	F9L71	20150604A036	06/05/2015	08:43	3.55	8.58
02	F9L72	20150604A037	06/05/2015	08:59	3.55	8.58
03	F9L73	20150604A038	06/05/2015	09:15	3.55	8.58
04	F9L75	20150604A039	06/05/2015	09:31	3.55	8.58
05	F9L77	20150604A040	06/05/2015	09:48	3.55	8.58
06	F9L78	20150604A041	06/05/2015	10:04	3.55	8.58
07	F9L79	20150604A042	06/05/2015	10:20	3.55	8.58
08	ZZZZZ		06/05/2015	10:36		
09	ZZZZZ		06/05/2015	10:52		
10	ZZZZZ		06/05/2015	11:08		
11	ZZZZZ		06/05/2015	11:25		
12	ZZZZZ		06/05/2015	11:41		
13	ZZZZZ		06/05/2015	11:57		
14	ZZZZZ		06/05/2015	12:13		
15	ZZZZZ		06/05/2015	12:29		
16	ZZZZZ		06/05/2015	12:45		
17	ZZZZZ		06/05/2015	13:02		
18	ZZZZZ		06/05/2015	13:18		
19	ZZZZZ		06/05/2015	13:34		
20	ZZZZZ		06/05/2015	13:50		
21	ZZZZZ		06/05/2015	14:06		
22	ZZZZZ		06/05/2015	14:22		
23	ZZZZZ		06/05/2015	14:39		
24	ZZZZZ		06/05/2015	14:55		
25	AIBLKC1	20150604A060	06/05/2015	15:11	3.55	8.58
26	AR16603C1	20150604A061	06/05/2015	15:27	3.55	8.58
27						
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/05/2015 06/05/2015

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.18 DCB: 9.52

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR16601A2	20150604B004	06/05/2015	00:22	4.18	9.52
02	AR16602A2	20150604B005	06/05/2015	00:38	4.18	9.52
03	AR16603A2	20150604B006	06/05/2015	00:54	4.18	9.52
04	AR16604A2	20150604B007	06/05/2015	01:10	4.18	9.52
05	AR16605A2	20150604B008	06/05/2015	01:26	4.18	9.52
06	AR12213A2	20150604B009	06/05/2015	01:43	4.18	9.52
07	AR12323A2	20150604B010	06/05/2015	01:59	4.18	9.52
08	AR12423A2	20150604B011	06/05/2015	02:15	4.18	9.52
09	AR12483A2	20150604B012	06/05/2015	02:31	4.18	9.52
10	AR12543A2	20150604B013	06/05/2015	02:47	4.18	9.52
11	AR12623A2	20150604B014	06/05/2015	03:03	4.18	9.52
12	AR12683A2	20150604B015	06/05/2015	03:20	4.18	9.52
13	AIBLKB2	20150604B016	06/05/2015	03:36	4.18	9.52
14	AR16603B2	20150604B017	06/05/2015	03:52	4.18	9.52
15	ZZZZZ		06/05/2015	04:08		
16	ABLKS1	20150604B019	06/05/2015	04:24	4.18	9.52
17	ALCSS1	20150604B020	06/05/2015	04:40	4.18	9.52
18	F9L58	20150604B021	06/05/2015	04:56	4.18	9.52
19	F9L59	20150604B022	06/05/2015	05:13	4.18	9.52
20	F9L60	20150604B023	06/05/2015	05:29	4.18	9.52
21	F9L61	20150604B024	06/05/2015	05:45	4.18	9.52
22	F9L62	20150604B025	06/05/2015	06:01	4.18	9.52
23	F9L63	20150604B026	06/05/2015	06:17	4.18	9.52
24	F9L64	20150604B027	06/05/2015	06:33	4.18	9.52
25	F9L65	20150604B028	06/05/2015	06:49	4.18	9.52
26	F9L66	20150604B029	06/05/2015	07:06	4.18	9.52
27	F9L66MS	20150604B030	06/05/2015	07:22	4.18	9.52
28	F9L66MSD	20150604B031	06/05/2015	07:38	4.18	9.52
29	F9L67	20150604B032	06/05/2015	07:54	4.18	9.52
30	F9L68	20150604B033	06/05/2015	08:11	4.18	9.52
31	F9L69	20150604B034	06/05/2015	08:27	4.18	9.52
32	F9L70	20150604B035	06/05/2015	08:43	4.18	9.52

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO
AROCLOR ANALYTICAL SEQUENCE

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

GC Column: RTXCLP2 ID: 0.32 (mm) Init. Calib. Date(s): 06/05/2015 06/05/2015

Instrument ID: GCE20

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, and LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.18 DCB: 9.52

	EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	F9L71	20150604B036	06/05/2015	08:59	4.18	9.52
02	F9L72	20150604B037	06/05/2015	09:15	4.18	9.52
03	F9L73	20150604B038	06/05/2015	09:31	4.18	9.52
04	F9L75	20150604B039	06/05/2015	09:48	4.18	9.52
05	F9L77	20150604B040	06/05/2015	10:04	4.18	9.52
06	F9L78	20150604B041	06/05/2015	10:20	4.18	9.52
07	F9L79	20150604B042	06/05/2015	10:36	4.18	9.52
08	ZZZZZ		06/05/2015	10:52		
09	ZZZZZ		06/05/2015	11:08		
10	ZZZZZ		06/05/2015	11:25		
11	ZZZZZ		06/05/2015	11:41		
12	ZZZZZ		06/05/2015	11:57		
13	ZZZZZ		06/05/2015	12:13		
14	ZZZZZ		06/05/2015	12:29		
15	ZZZZZ		06/05/2015	12:45		
16	ZZZZZ		06/05/2015	13:02		
17	ZZZZZ		06/05/2015	13:18		
18	ZZZZZ		06/05/2015	13:34		
19	ZZZZZ		06/05/2015	13:50		
20	ZZZZZ		06/05/2015	14:06		
21	ZZZZZ		06/05/2015	14:22		
22	ZZZZZ		06/05/2015	14:39		
23	ZZZZZ		06/05/2015	14:55		
24	ZZZZZ		06/05/2015	15:11		
25	AIBLKC2	20150604B060	06/05/2015	15:27	4.18	9.52
26	AR16603C2	20150604B061	06/05/2015	15:43	4.18	9.52
27						
28						
29						
30						
31						
32						

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

10C - FORM X ARO
IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.: ALCSS1

Lab Name: ALS Environmental | Contract: EPW11037

Lab Code: DATAC | Case No.: 45316 | Mod. Ref No.: | SDG No.: F9L58

Lab Sample ID: 448476 | Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE20 | Instrument ID (2): GCE20

GC Column (1): RTXCLP ID: 0.32 (mm) | GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION PEAK	CONCENTRATION MEAN	%D
AR1016	1	3.88	3.80	3.94	23.		
	2	4.19	4.13	4.27	37.		
COLUMN 1	3	4.61	4.54	4.68	32.		
	4						
	5					31.	
	1	4.62	4.55	4.69	36.		
	2	5.39	5.32	5.46	32.		
COLUMN 2	3	5.51	5.44	5.58	29.		
	4						
	5					32.	4.9
AR1260	1	6.20	6.13	6.27	38.		
	2	6.56	6.49	6.63	39.		
COLUMN 1	3	6.81	6.74	6.88	38.		
	4						
	5					39.	
	1	7.05	6.98	7.12	36.		
	2	7.23	7.15	7.29	37.		
COLUMN 2	3	7.63	7.56	7.70	38.		
	4						
	5					37.	3.9
	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

At least three peaks for each column are required for identification of multicomponent analytes.

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

F9L66MS

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293010 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE20 Instrument ID (2): GCE20

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION PEAK	CONCENTRATION MEAN	%D
AR1016	1	3.87	3.80	3.94	150		
	2	4.20	4.13	4.27	140		
COLUMN 1	3	4.61	4.54	4.68	160		
	4						
	5					150	
	1	4.62	4.55	4.69	190		
	2	5.38	5.32	5.46	170		
COLUMN 2	3	5.51	5.44	5.58	190		
	4						
	5					180	21.4
AR1260	1	6.20	6.13	6.27	120		
	2	6.56	6.49	6.63	200		
COLUMN 1	3	6.80	6.74	6.88	170		
	4						
	5					160	
	1	7.04	6.98	7.12	170		
	2	7.22	7.15	7.29	200		
COLUMN 2	3	7.63	7.56	7.70	170		
	4						
	5					180	11.7
	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

At least three peaks for each column are required for identification of multicomponent analytes.

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.: F9L66MSD

Lab Name: ALS Environmental | Contract: EPW11037

Lab Code: DATAC | Case No.: 45316 | Mod. Ref No.: | SDG No.: F9L58

Lab Sample ID: 1514293011 | Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE20 | Instrument ID (2): GCE20

GC Column (1): RTXCLP ID: 0.32 (mm) | GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE		PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION PEAK	CONCENTRATION MEAN	%D
AR1016		1	3.87	3.80	3.94	170		
		2	4.20	4.13	4.27	170		
	COLUMN 1	3	4.61	4.54	4.68	180		
		4						
		5					170	
		1	4.62	4.55	4.69	180		
		2	5.39	5.32	5.46	190		
	COLUMN 2	3	5.51	5.44	5.58	190		
		4						
		5					190	6.8
AR1260		1	6.20	6.13	6.27	140		
		2	6.56	6.49	6.63	180		
	COLUMN 1	3	6.80	6.74	6.88	200		
		4						
		5					170	
		1	7.05	6.98	7.12	190		
		2	7.22	7.15	7.29	210		
	COLUMN 2	3	7.63	7.56	7.70	200		
		4						
		5					200	14.9
		1						
		2						
	COLUMN 1	3						
		4						
		5						
		1						
		2						
	COLUMN 2	3						
		4						
		5						

At least three peaks for each column are required for identification of multicomponent analytes.

10154

10C - FORM X ARO
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

F9L67

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Lab Sample ID: 1514293012 Date(s) Analyzed: 06/05/2015 06/05/2015

Instrument ID (1): GCE20 Instrument ID (2): GCE20

GC Column (1): RTXCLP ID: 0.32 (mm) GC Column (2): RTXCLP2 ID: 0.32 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION PEAK	CONCENTRATION MEAN	%D
AR1260	1	6.20	6.13	6.27	84.		
	2	6.57	6.49	6.63	150		
COLUMN 1	3	6.81	6.74	6.88	73.		
	4						
	5					100	
	1	7.04	6.98	7.12	140		
	2	7.22	7.15	7.29	84.		
COLUMN 2	3	7.63	7.56	7.70	110		
	4						
	5					110	6.7
	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						
	1						
	2						
COLUMN 1	3						
	4						
	5						
	1						
	2						
COLUMN 2	3						
	4						
	5						

At least three peaks for each column are required for identification of multicomponent analytes.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:49:36
Operator	: borges	Sample Name	: AR16601A1
Sample Number	: 04	Study	: 26394
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 00:06:22	Dilution Factor	: 1.00
		Cycle	: 3

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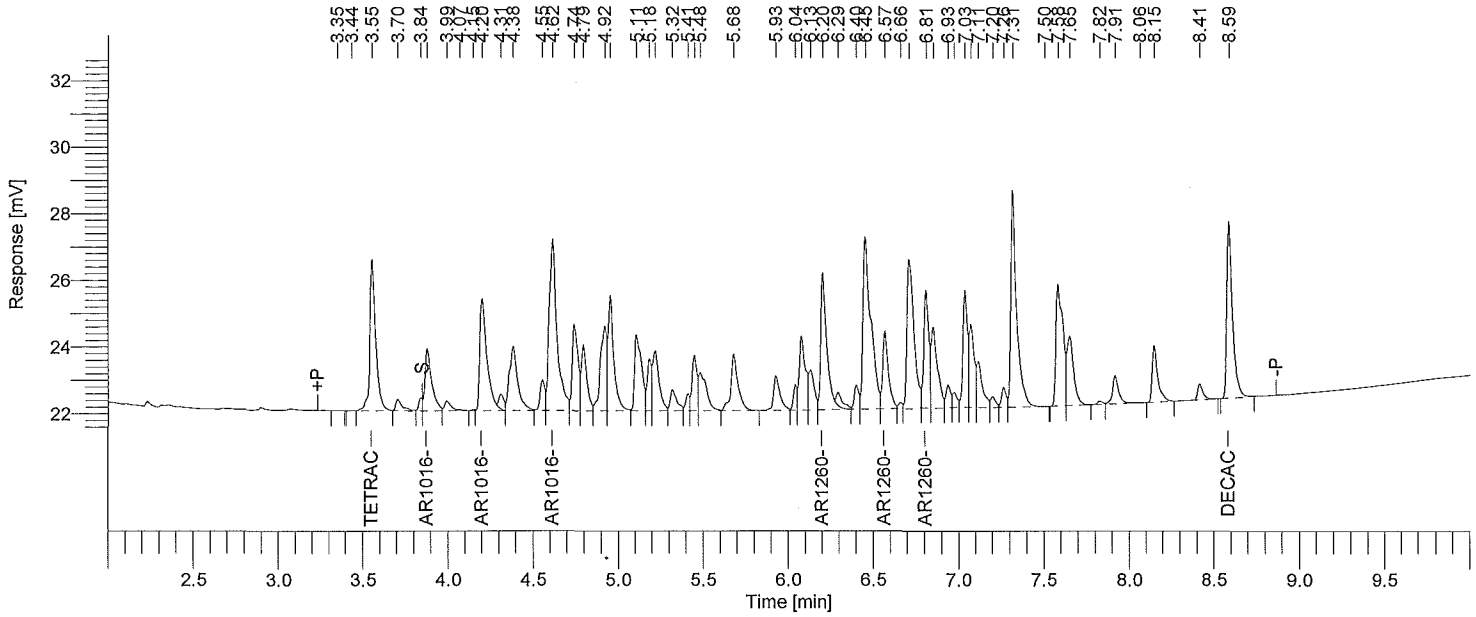

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	10896	0.0053463
3.88	AR1016-1	5064	0.1201147
4.20	AR1016-2	9925	0.1216863
4.62	AR1016-3	16212	0.1126563
6.20	AR1260-1	10421	0.1178691
6.57	AR1260-2	5452	0.1074122
6.81	AR1260-3	6969	0.1177582
8.59	Decachlorobiphenyl	11976	0.0117421

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:49:40
Operator	: borges	Sample Name	: AR16602A1
Sample Number	: 05	Study	: 26395
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
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		Cycle	: 4

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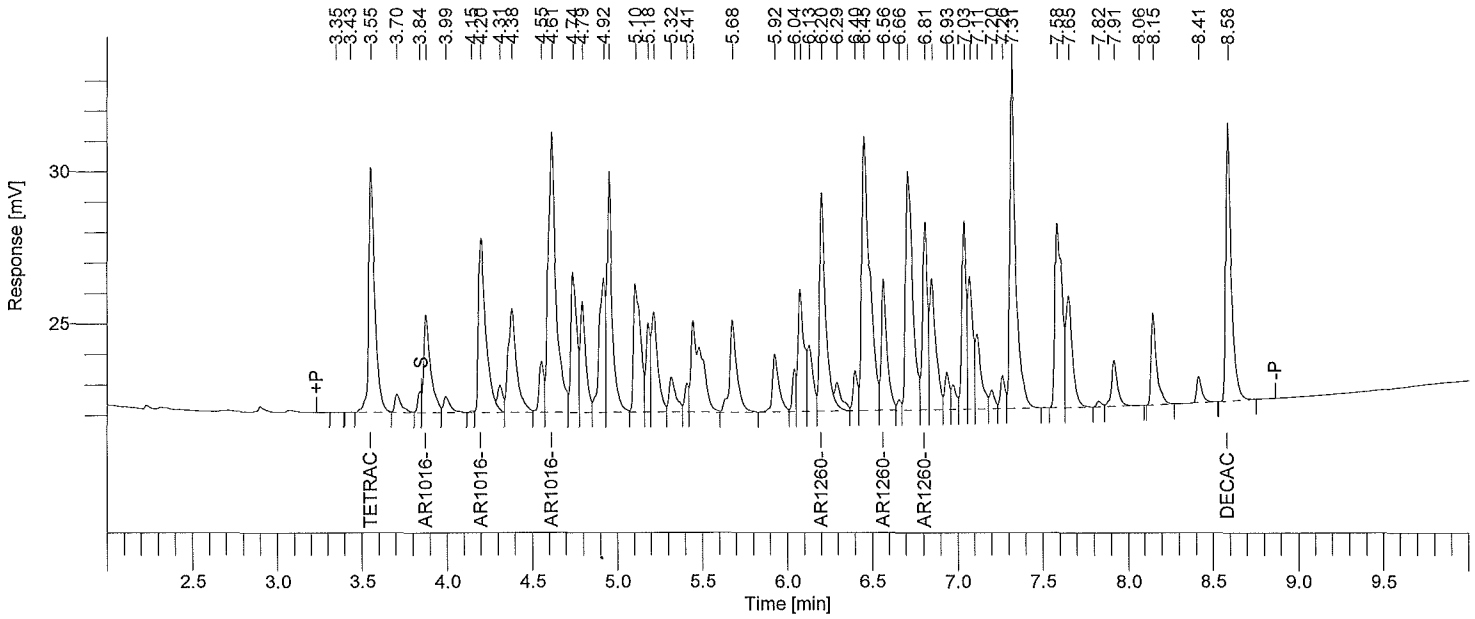

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	19823	0.0097259
3.88	AR1016-1	8846	0.2098048
4.20	AR1016-2	17131	0.2100460
4.61	AR1016-3	29241	0.2031869
6.20	AR1260-1	18181	0.2056454
6.56	AR1260-2	10002	0.1970446
6.81	AR1260-3	12058	0.2037473
8.58	Decachlorobiphenyl	20222	0.0198268

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:49:42
Operator	: borges	Sample Name	: AR16603A1
Sample Number	: 06	Study	: 26396
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
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		Cycle	: 5

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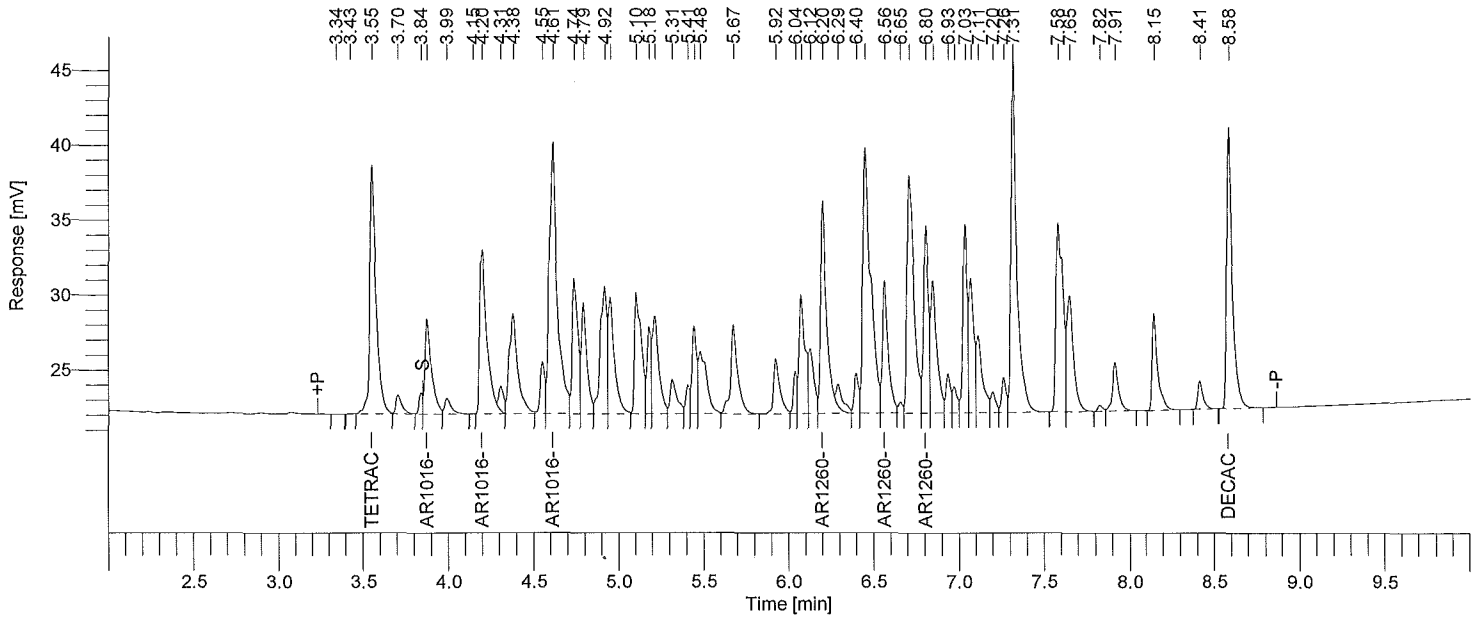

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	41792	0.0205052
3.87	AR1016-1	16876	0.4002709
4.20	AR1016-2	32695	0.4008733
4.61	AR1016-3	58299	0.4051048
6.20	AR1260-1	35493	0.4014638
6.56	AR1260-2	20711	0.4080279
6.80	AR1260-3	23863	0.4032309
8.58	Decachlorobiphenyl	42180	0.0413555

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:49:43
Operator	: borges	Sample Name	: AR16604A1
Sample Number	: 07	Study	: 26397
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
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		Cycle	: 6

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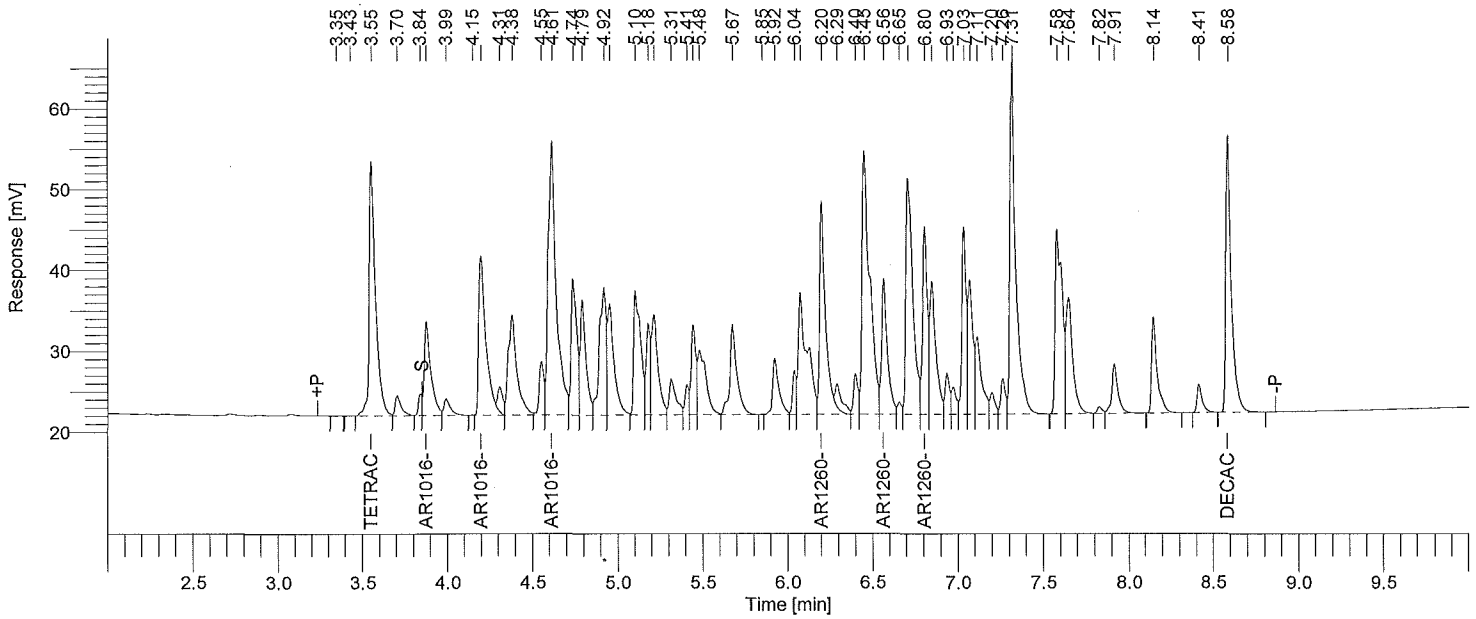

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	81422	0.0399499
3.87	AR1016-1	31177	0.7394661
4.20	AR1016-2	59872	0.7340766
4.61	AR1016-3	110317	0.7665697
6.20	AR1260-1	65722	0.7433882
6.56	AR1260-2	39896	0.7859956
6.80	AR1260-3	43928	0.7422766
8.58	Decachlorobiphenyl	76223	0.0747329

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:49:44
Operator	: borges	Sample Name	: AR16605A1
Sample Number	: 08	Study	: 26398
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
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		Cycle	: 7

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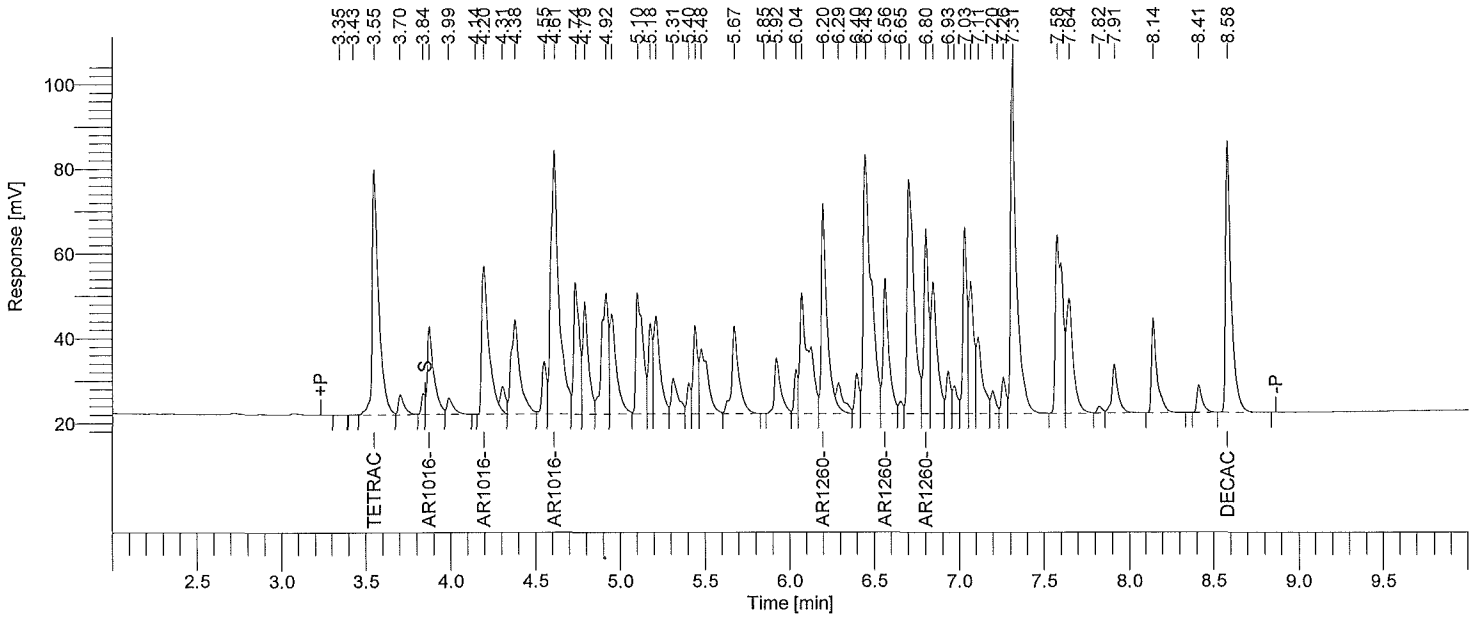

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	152311	0.0747314
3.87	AR1016-1	55640	1.3197108
4.20	AR1016-2	106110	1.3010046
4.61	AR1016-3	204129	1.4184462
6.20	AR1260-1	121677	1.3763001
6.56	AR1260-2	76186	1.5009454
6.80	AR1260-3	82166	1.3884126
8.58	Decachlorobiphenyl	141388	0.1386242

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:49:46
Operator	: borges	Sample Name	: AR12213A1
Sample Number	: 09	Study	: 26401
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 01:26:56	Cycle	: 8

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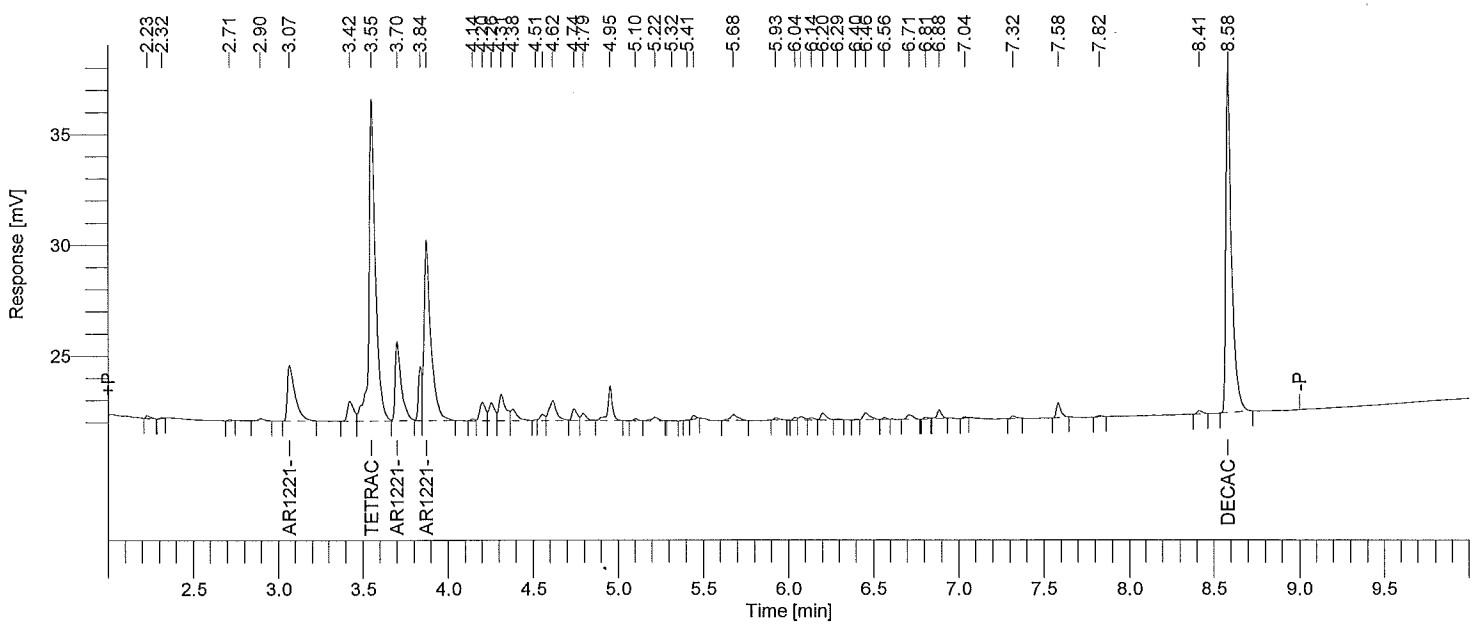

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.07	AR1221-1	7756	0.4000000
3.55	Tetrachloro-m-xylene	38185	0.0200000
3.70	AR1221-2	8814	0.4000000
3.87	AR1221-3	22104	0.4000000
8.58	Decachlorobiphenyl	34814	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:49:47
Operator	: borges	Sample Name	: AR12323A1
Sample Number	: 10	Study	: 26406
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 01:43:02	Dilution Factor	: 1.00
		Cycle	: 9

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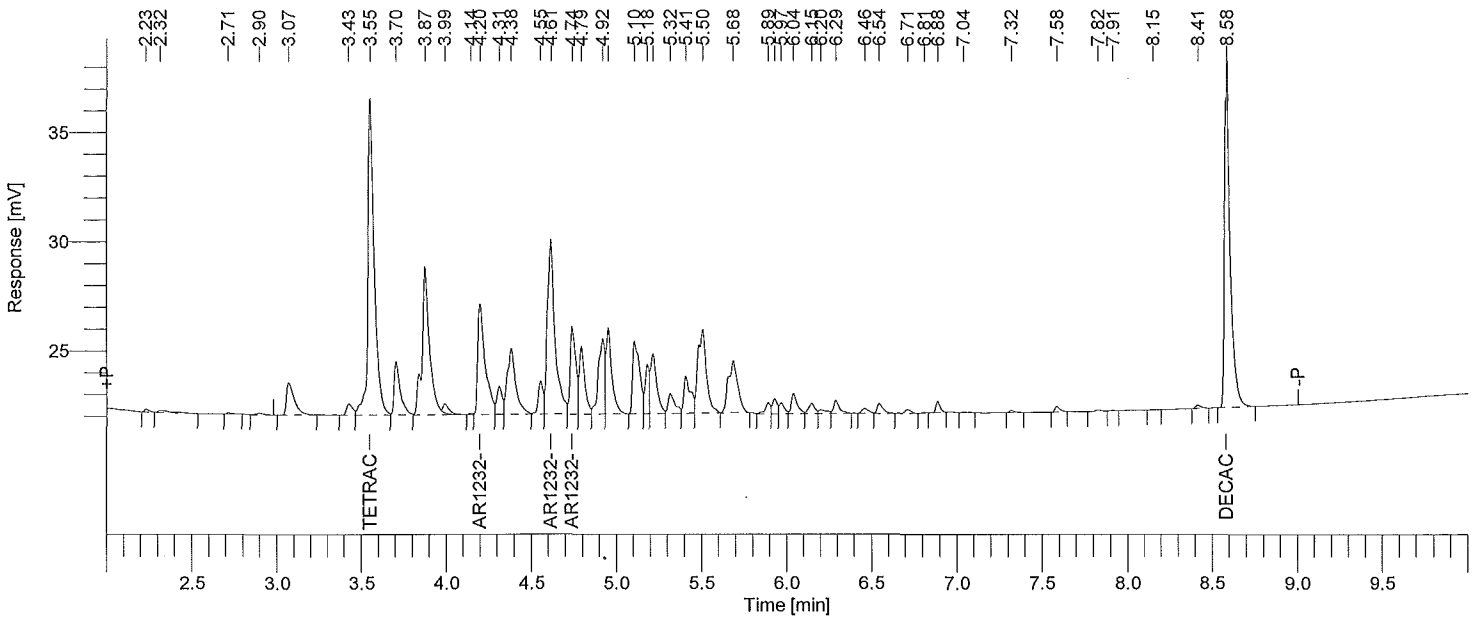

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	37597	0.0200000
4.20	AR1232-1	15466	0.4000000
4.61	AR1232-2	24889	0.4000000
4.74	AR1232-3	9219	0.4000000
8.58	Decachlorobiphenyl	35099	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:49:49
Operator	: borges	Sample Name	: AR12423A1
Sample Number	: 11	Study	: 26411
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 01:59:08	Cycle	: 10

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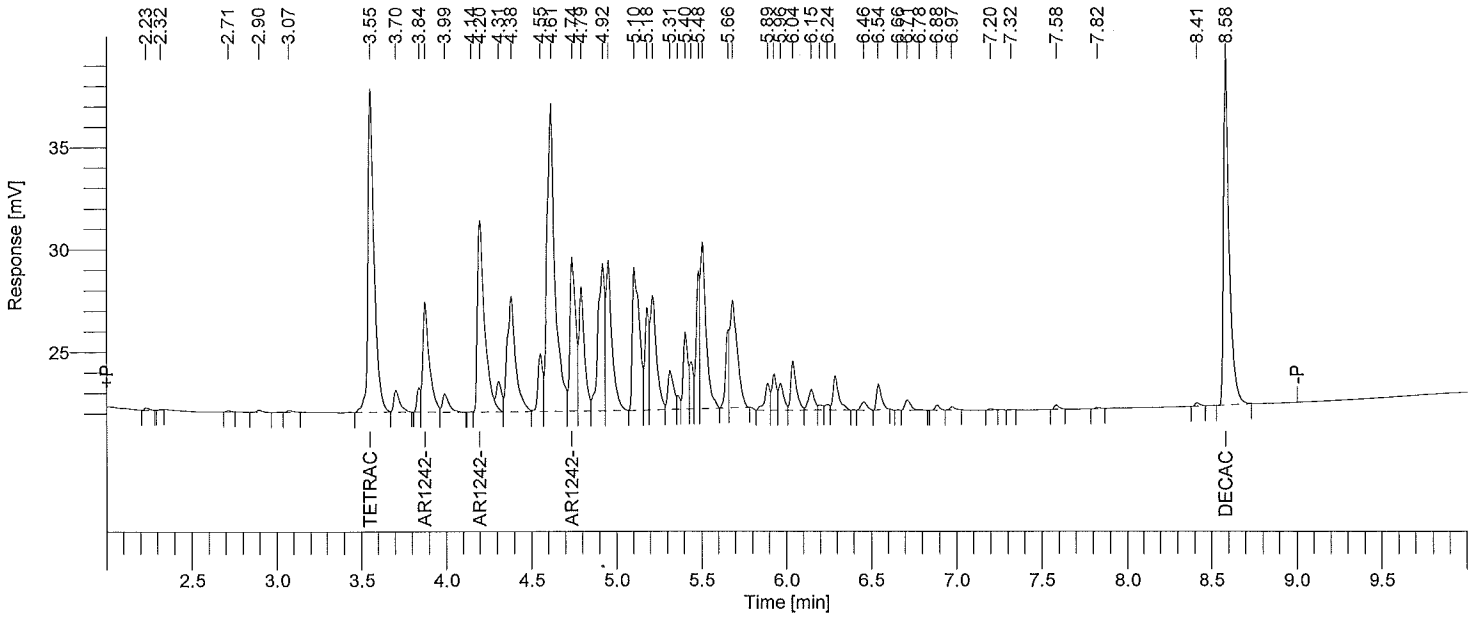

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	39693	0.0200000
3.87	AR1242-1	14306	0.4000000
4.20	AR1242-2	27914	0.4000000
4.74	AR1242-3	17598	0.4000000
8.58	Decachlorobiphenyl	37399	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:49:52
Operator	: borges	Sample Name	: AR12483A1
Sample Number	: 12	Study	: 26416
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 02:15:16	Cycle	: 11

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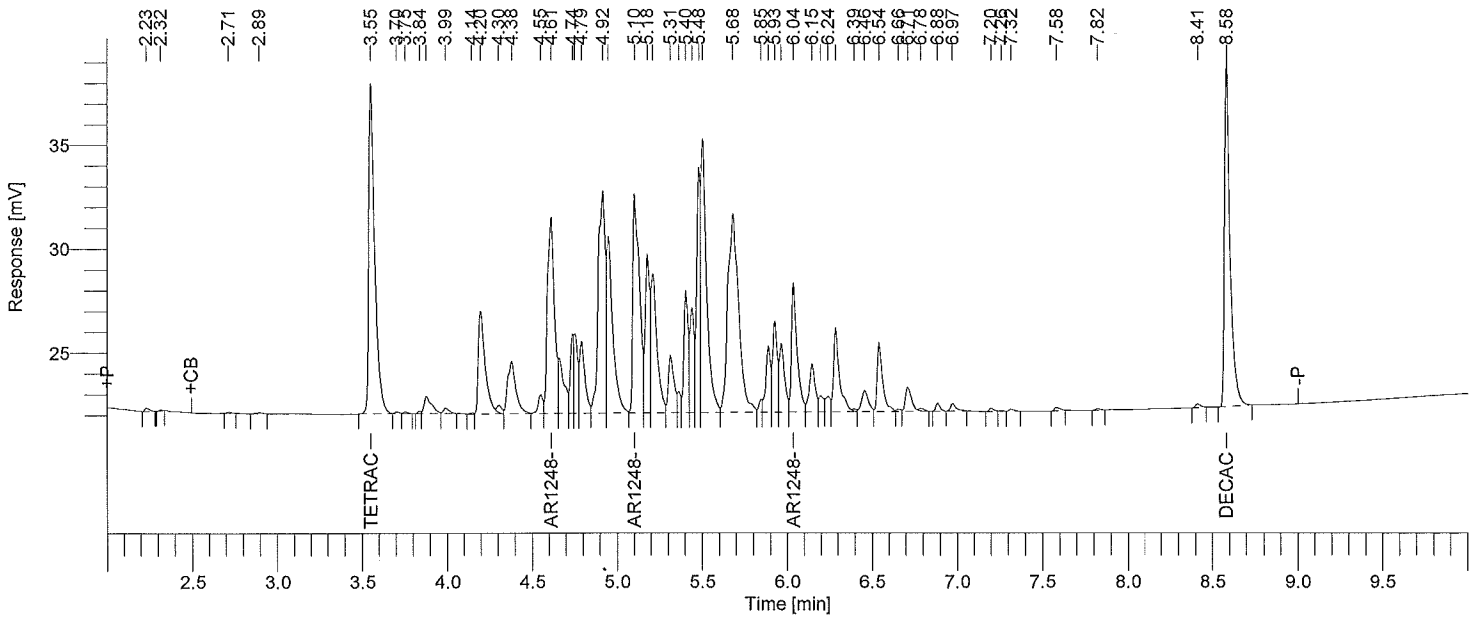

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	38163	0.0200000
4.61	AR1248-1	26564	0.4000000
5.10	AR1248-2	28844	0.4000000
6.04	AR1248-3	14199	0.4000000
8.58	Decachlorobiphenyl	36826	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:49:54
Operator	: borges	Sample Name	: AR12543A1
Sample Number	: 13	Study	: 26421
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 02:31:36	Cycle	: 12

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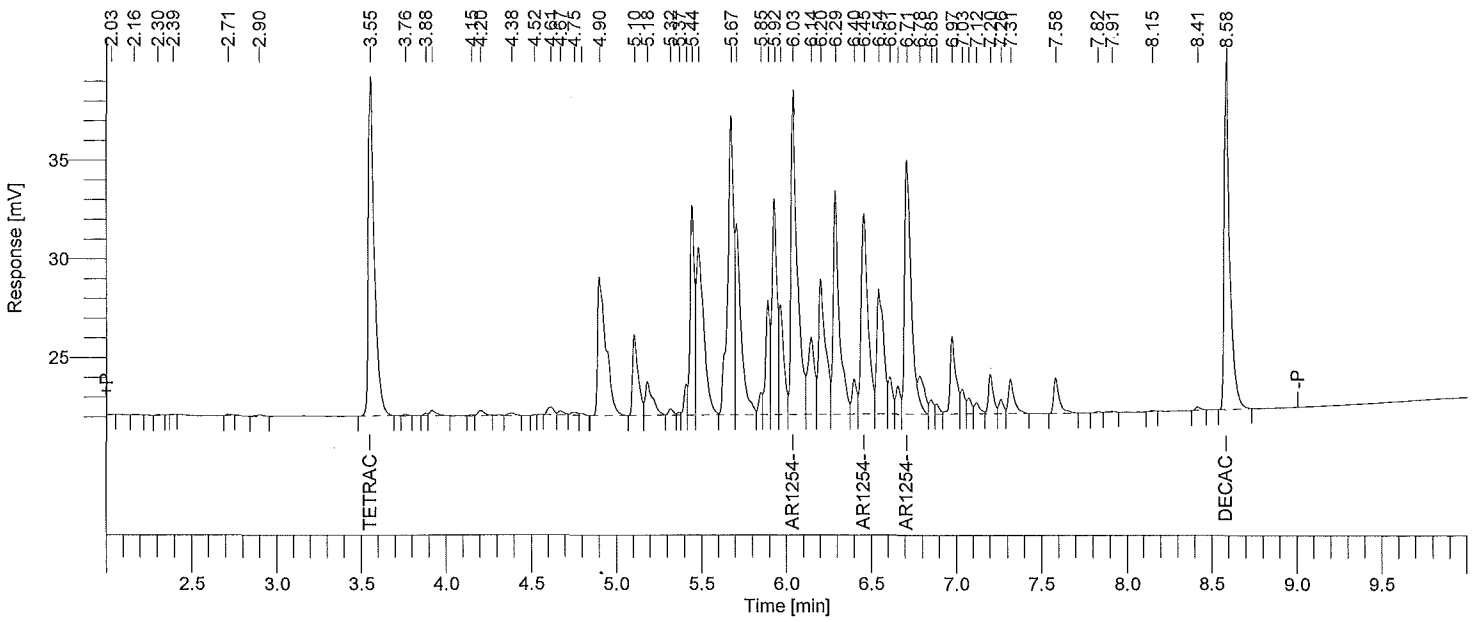

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	41230	0.0200000
6.03	AR1254-1	40765	0.4000000
6.45	AR1254-2	27522	0.4000000
6.71	AR1254-3	34992	0.4000000
8.58	Decachlorobiphenyl	39001	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:49:55
Operator	: borges	Sample Name	: AR12623A1
Sample Number	: 14	Study	: 26426
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 02:47:42	Cycle	: 13

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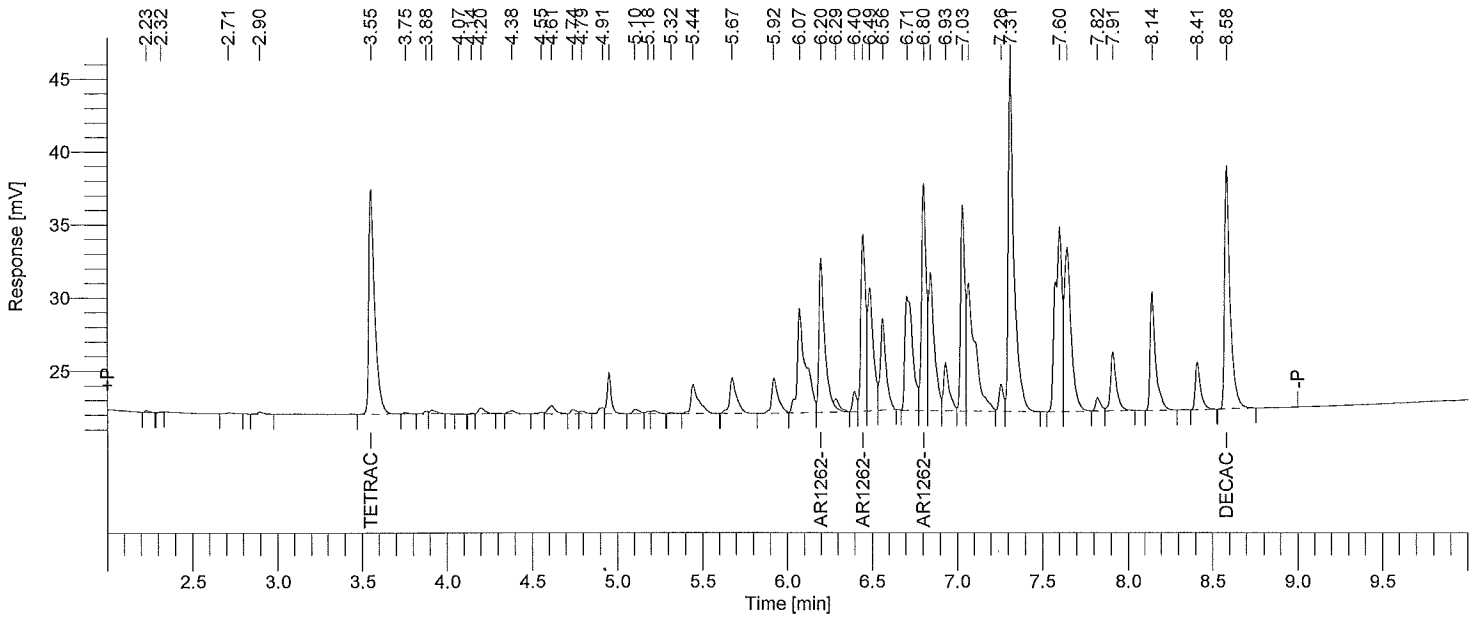

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	36698	0.0200000
6.20	AR1262-1	25872	0.4000000
6.45	AR1262-2	23338	0.4000000
6.80	AR1262-3	28570	0.4000000
8.58	Decachlorobiphenyl	37218	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:49:57
Operator	: borges	Sample Name	: AR12683A1
Sample Number	: 15	Study	: 26431
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 03:03:48	Cycle	: 14

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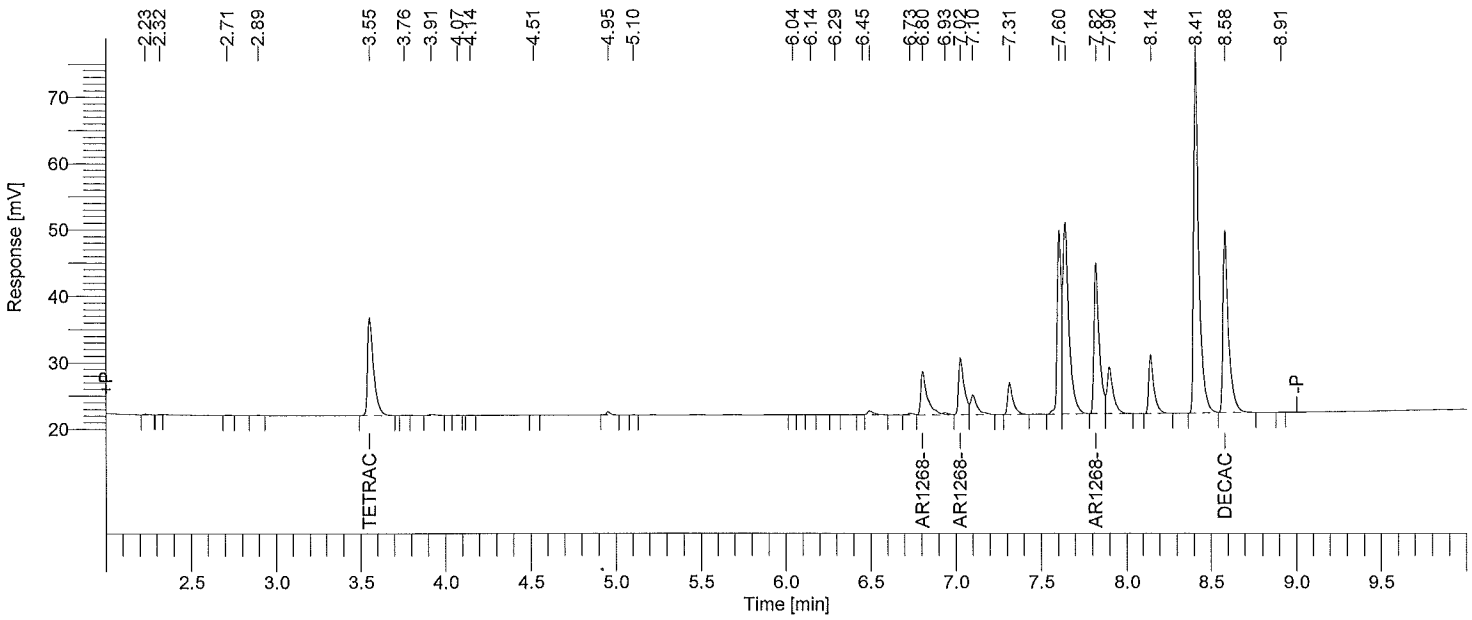

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.55	Tetrachloro-m-xylene	35857	0.0200000
6.80	AR1268-1	16680	0.4000000
7.02	AR1268-2	19409	0.4000000
7.82	AR1268-3	47347	0.4000000
8.58	Decachlorobiphenyl	59985	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:00
Operator	: borges	Sample Name	: AR16603B1
Sample Number	: 17	Study	: 26396
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 03:36:18	Cycle	: 16

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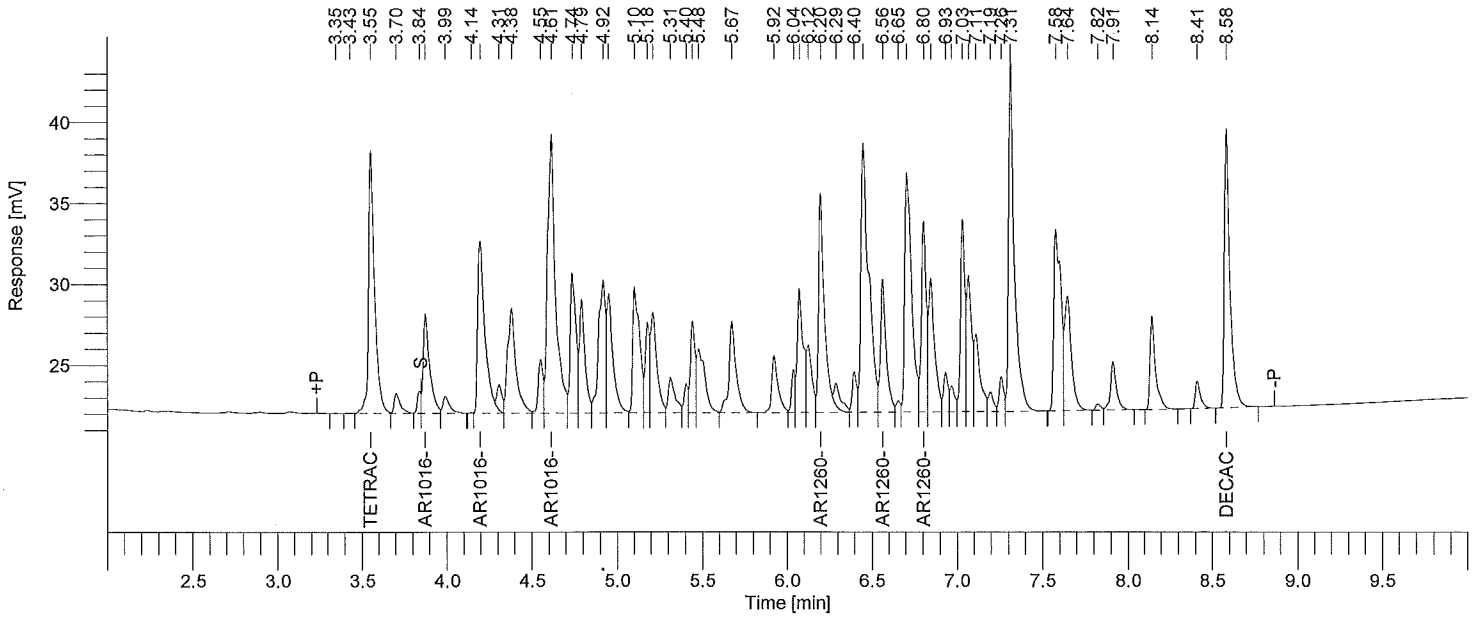

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM ARO CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
3.55	Tetrachloro-m-xylene	40816	0.0200263	0.0200263	0.0200000	100.1
3.87	AR1016-1	16250	0.3854245	0.3854245	0.4000000	96.4
4.20	AR1016-2	31789	0.3897578	0.3897578	0.4000000	97.4
4.61	AR1016-3	55181	0.3834398	0.3834398	0.4000000	95.9
6.20	AR1260-1	33716	0.3813700	0.3813700	0.4000000	95.3
6.56	AR1260-2	19348	0.3811747	0.3811747	0.4000000	95.3
6.80	AR1260-3	22481	0.3798732	0.3798732	0.4000000	95.0
8.58	Decachlorobiphenyl	38360	0.0376103	0.0376103	0.0400000	94.0

All analytes <= to +/-15% opening CCV, <=+/-50% closing CCV.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:03
Operator	: borges	Sample Name	: AR16603C1
Sample Number	: 61	Study	: 26396
AutoSampler	: HP7673A	Rack/Vial	: 0/61
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 15:27:45	Cycle	: 2

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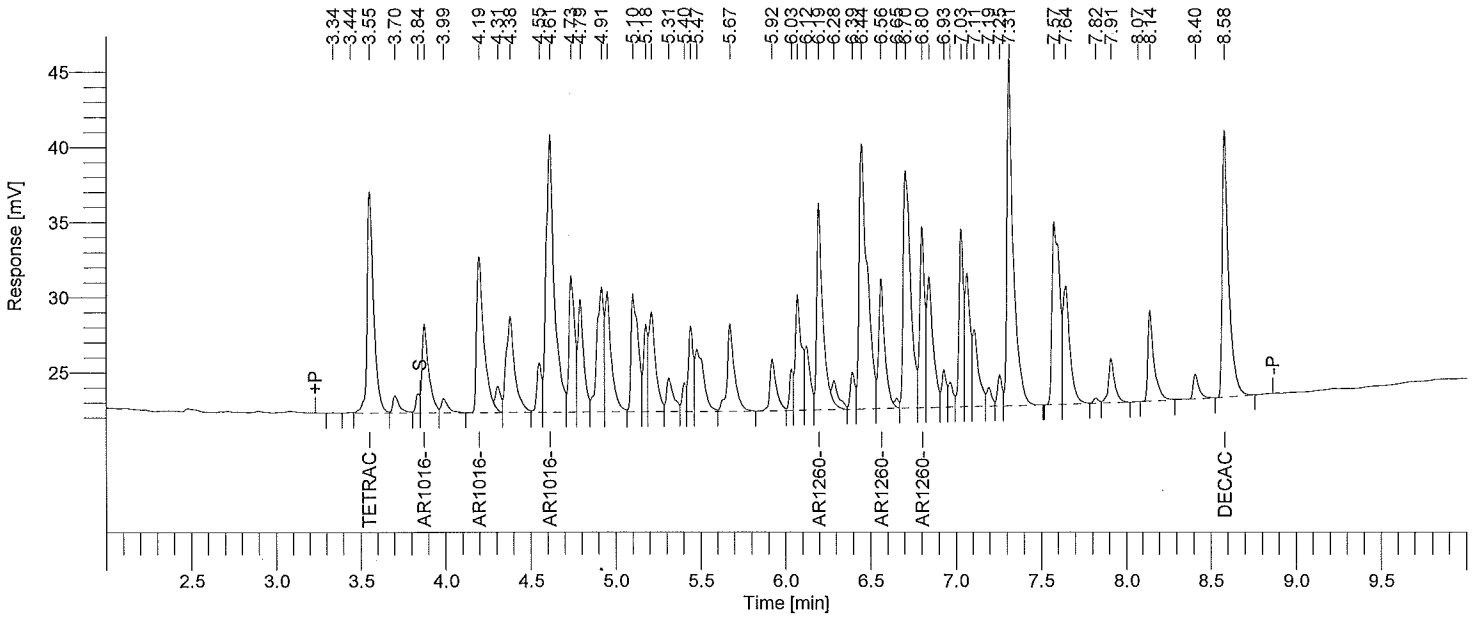

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM ARO CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
3.55	Tetrachloro-m-xylene	38739	0.0190071	0.0190071	0.0200000	95.0
3.87	AR1016-1	16177	0.3837049	0.3837049	0.4000000	95.9
4.19	AR1016-2	31756	0.3893521	0.3893521	0.4000000	97.3
4.61	AR1016-3	60669	0.4215762	0.4215762	0.4000000	105.4
6.19	AR1260-1	35433	0.4007832	0.4007832	0.4000000	100.2
6.56	AR1260-2	21458	0.4227429	0.4227429	0.4000000	105.7
6.80	AR1260-3	23494	0.3969994	0.3969994	0.4000000	99.2
8.58	Decachlorobiphenyl	45175	0.0442919	0.0442919	0.0400000	110.7

All analytes <= to +/-15% opening CCV, <=+/-50% closing CCV.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:04
Operator	: borges	Sample Name	: AR16601A2
Sample Number	: 04	Study	: 26394
AutoSampler	: HP7673A	Rack/Vial	: 0/4
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 00:22:28	Cycle	: 4

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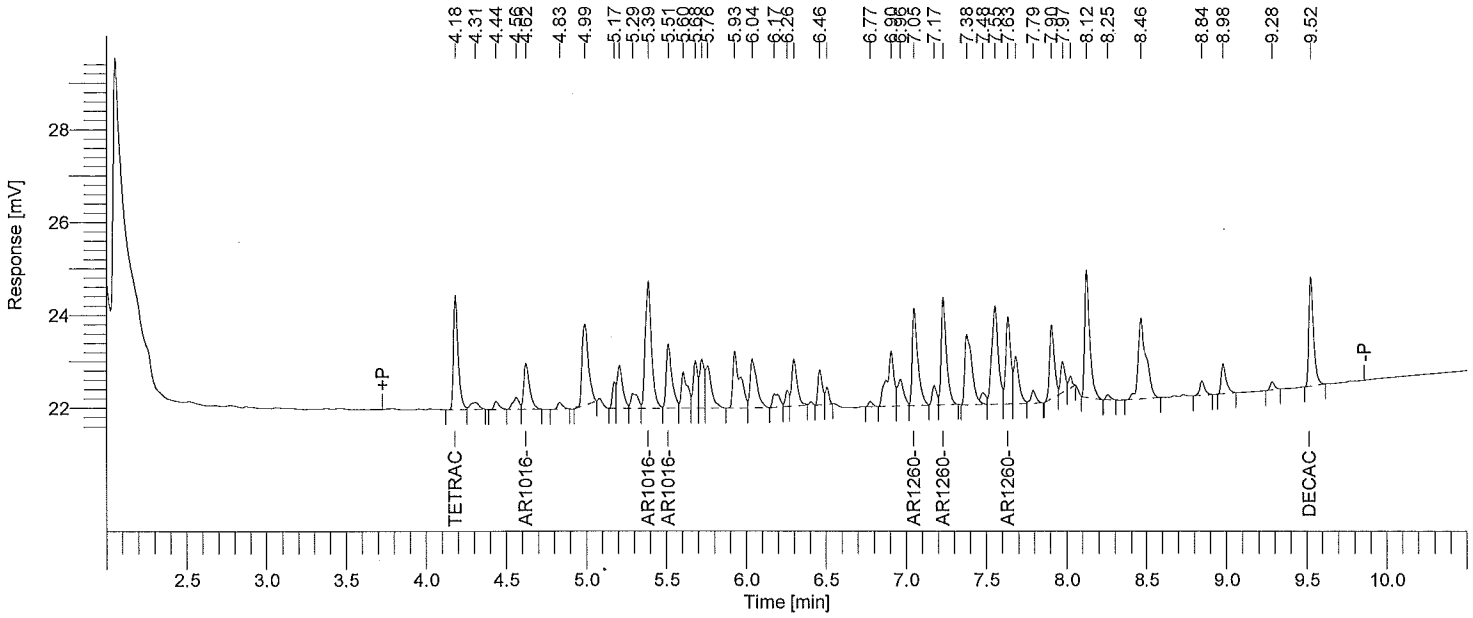

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.18	Tetrachloro-m-xylene	4984	0.0045723
4.62	AR1016-1	2413	0.1075951
5.39	AR1016-2	7430	0.1029653
5.51	AR1016-3	3378	0.1042652
7.05	AR1260-1	5053	0.1070049
7.23	AR1260-2	5204	0.1056269
7.63	AR1260-3	4042	0.1146474
9.52	Decachlorobiphenyl	4799	0.0101597

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:06
Operator	: borges	Sample Name	: AR16602A2
Sample Number	: 05	Study	: 26395
AutoSampler	: HP7673A	Rack/Vial	: 0/5
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 00:38:36	Cycle	: 5

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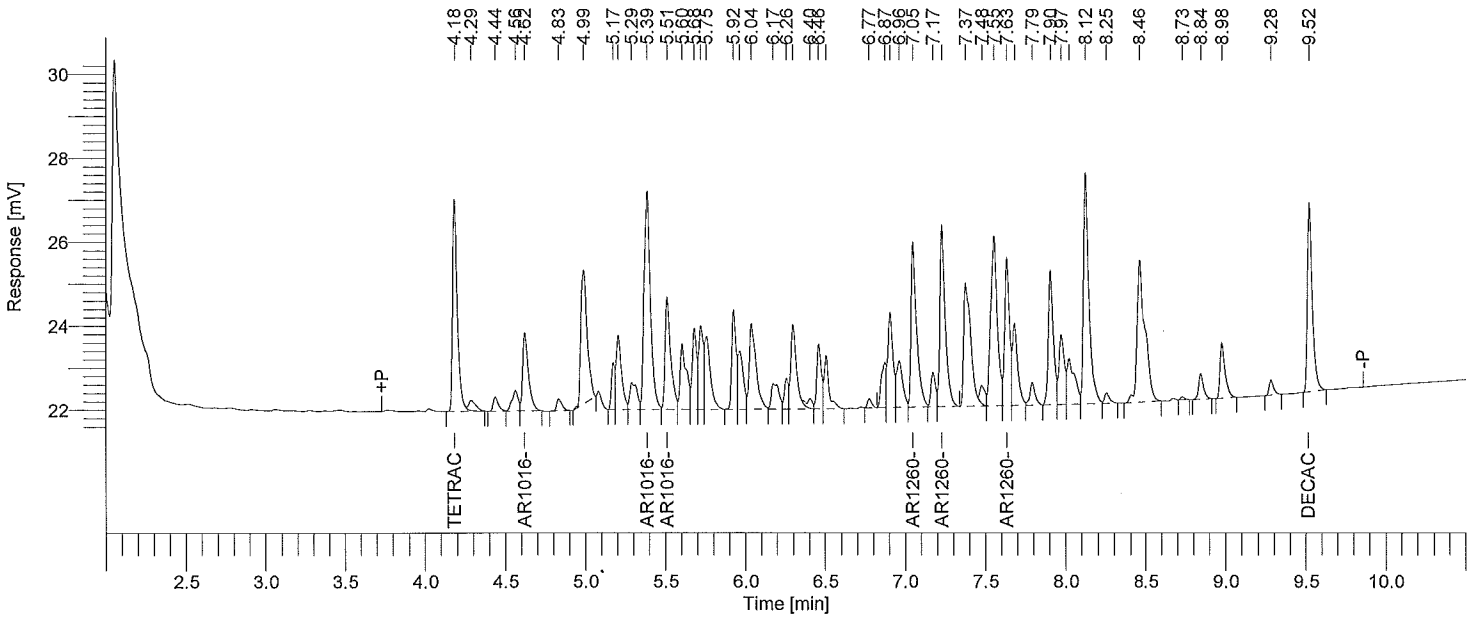

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.18	Tetrachloro-m-xylene	10309	0.0094566
4.62	AR1016-1	4561	0.2033586
5.39	AR1016-2	14235	0.1972837
5.51	AR1016-3	6447	0.1989745
7.05	AR1260-1	9522	0.2016550
7.22	AR1260-2	9998	0.2029164
7.63	AR1260-3	7444	0.2111400
9.52	Decachlorobiphenyl	9398	0.0198940

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:07
Operator	: borges	Sample Name	: AR16603A2
Sample Number	: 06	Study	: 26396
AutoSampler	: HP7673A	Rack/Vial	: 0/6
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 00:54:40	Cycle	: 6

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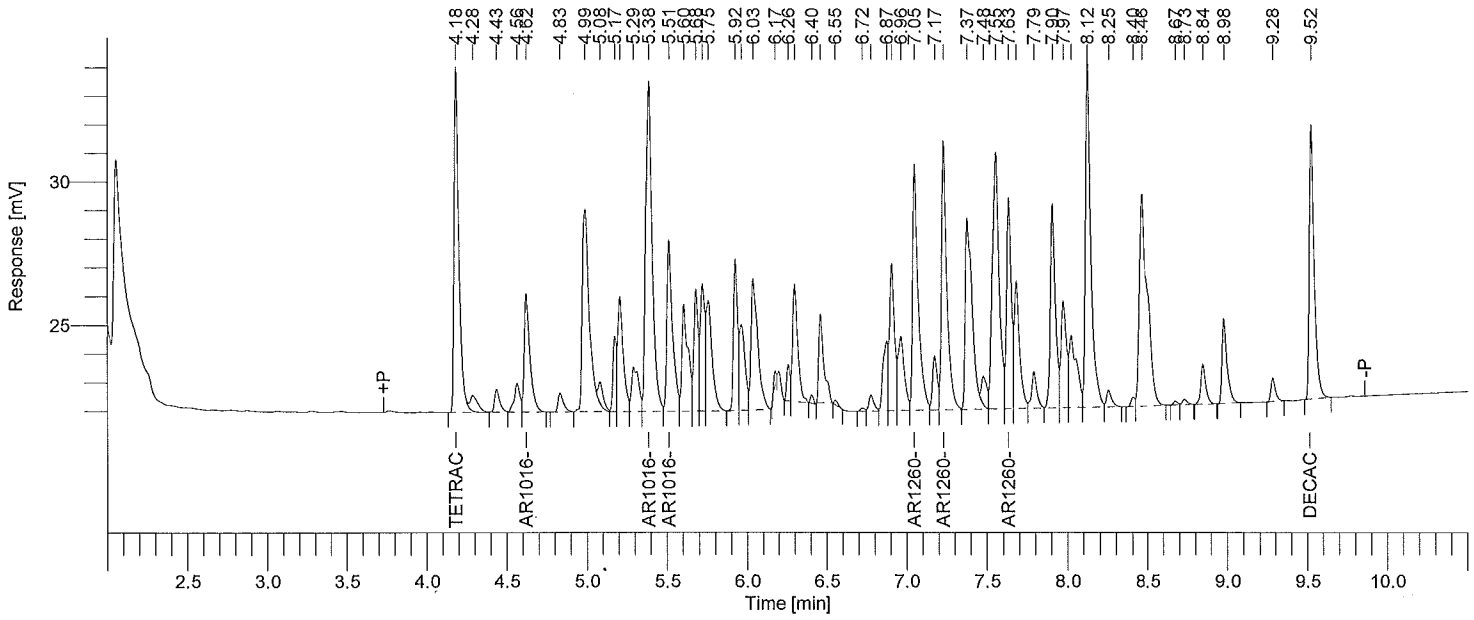

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.18	Tetrachloro-m-xylene	25158	0.0230791
4.62	AR1016-1	10056	0.4483392
5.38	AR1016-2	32348	0.4483020
5.51	AR1016-3	14474	0.4467375
7.05	AR1260-1	20970	0.4440864
7.22	AR1260-2	21807	0.4425894
7.63	AR1260-3	15202	0.4311772
9.52	Decachlorobiphenyl	20509	0.0434163

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:09
Operator	: borges	Sample Name	: AR16604A2
Sample Number	: 07	Study	: 26397
AutoSampler	: HP7673A	Rack/Vial	: 0/7
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 01:10:50	Cycle	: 7

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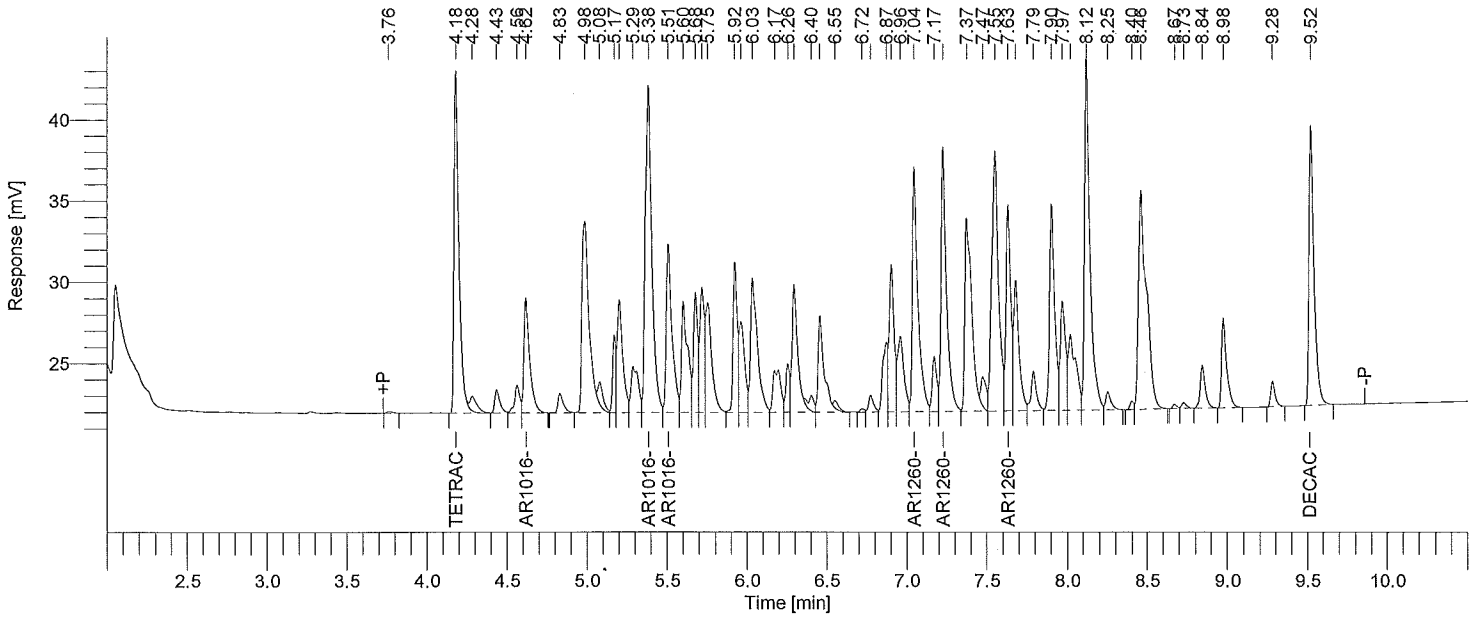

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.18	Tetrachloro-m-xylene	45433	0.0416782
4.62	AR1016-1	17219	0.7677088
5.38	AR1016-2	57236	0.7932343
5.51	AR1016-3	25548	0.7885214
7.04	AR1260-1	36603	0.7751504
7.22	AR1260-2	38258	0.7764648
7.63	AR1260-3	25768	0.7308508
9.52	Decachlorobiphenyl	37911	0.0802548

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:10
Operator	: borges	Sample Name	: AR16605A2
Sample Number	: 08	Study	: 26398
AutoSampler	: HP7673A	Rack/Vial	: 0/8
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 01:26:56	Cycle	: 8

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_standard_b.rpt
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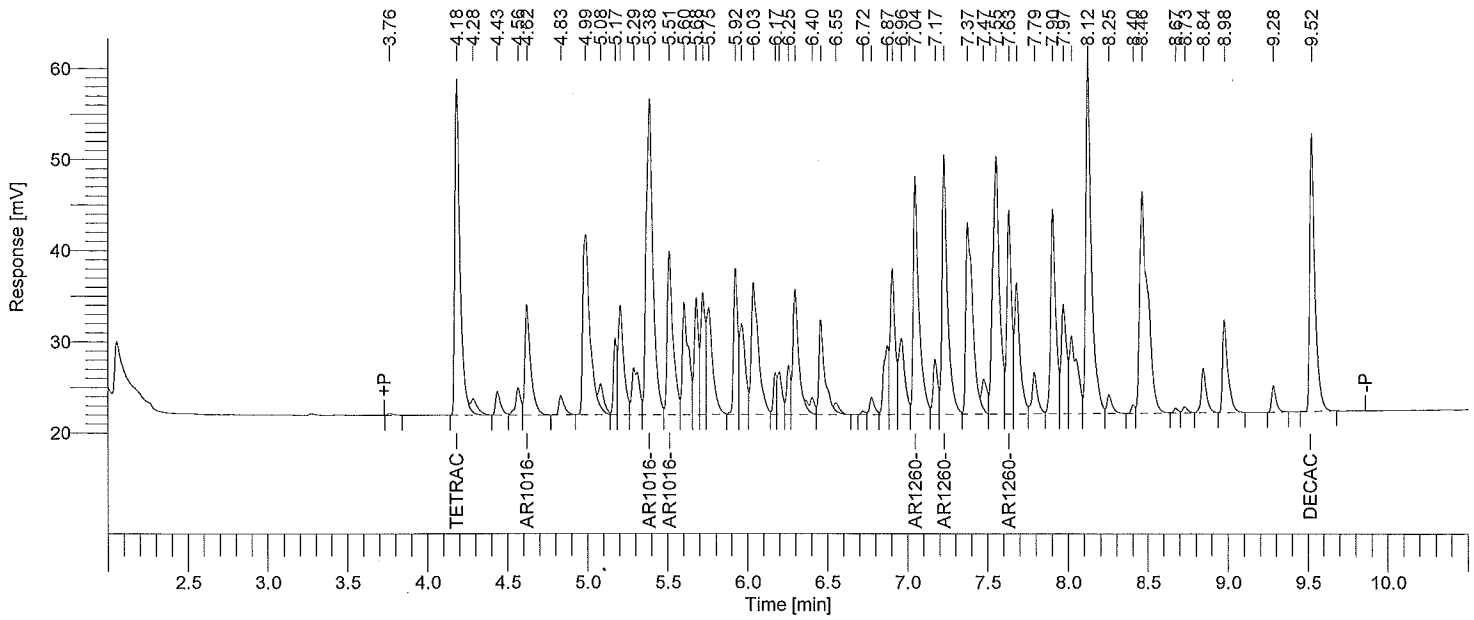

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.18	Tetrachloro-m-xylene	82321	0.0755168
4.62	AR1016-1	29670	1.3228351
5.38	AR1016-2	100629	1.3946090
5.51	AR1016-3	44581	1.3759679
7.04	AR1260-1	63654	1.3480354
7.22	AR1260-2	67175	1.3633510
7.63	AR1260-3	45486	1.2901101
9.52	Decachlorobiphenyl	68078	0.1441174

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:12
Operator	: borges	Sample Name	: AR12213A2
Sample Number	: 09	Study	: 26401
AutoSampler	: HP7673A	Rack/Vial	: 0/9
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 01:43:02	Cycle	: 9

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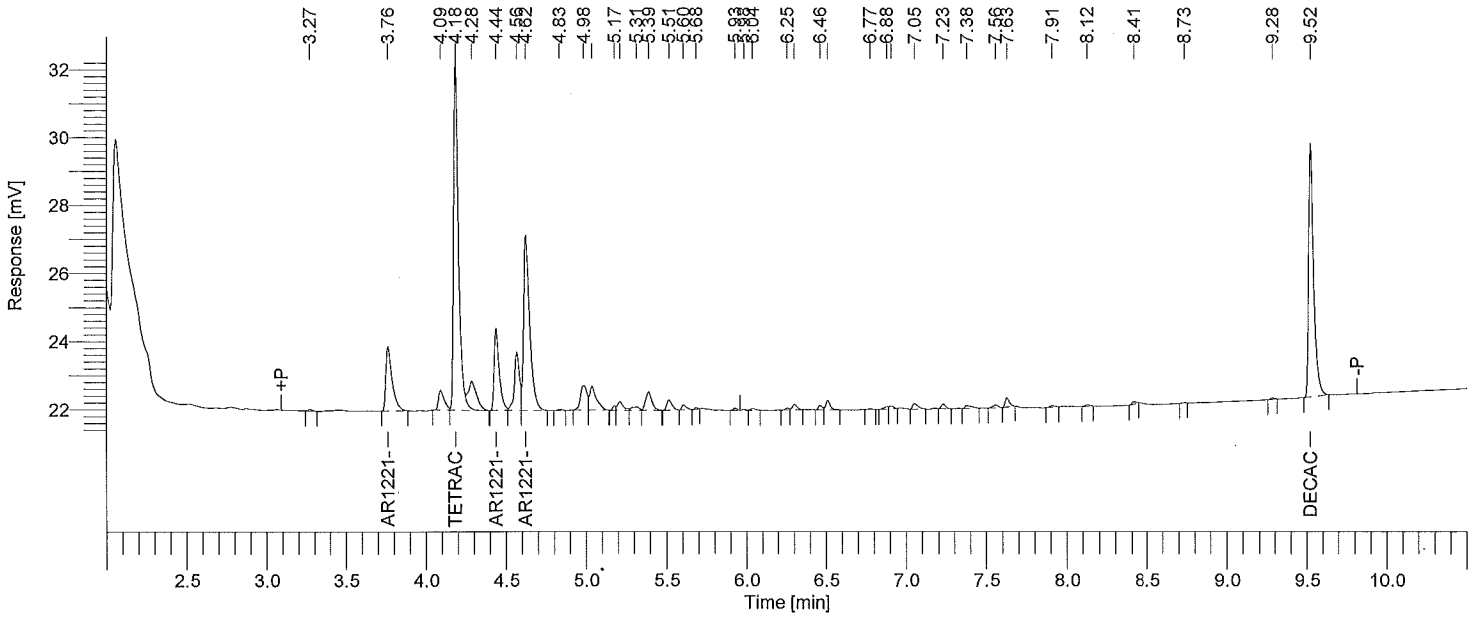

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
3.76	AR1221-1	5225	0.4000000
4.18	Tetrachloro-m-xylene	21771	0.0200000
4.44	AR1221-2	5308	0.4000000
4.62	AR1221-3	13485	0.4000000
9.52	Decachlorobiphenyl	16023	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:13
Operator	: borges	Sample Name	: AR12323A2
Sample Number	: 10	Study	: 26406
AutoSampler	: HP7673A	Rack/Vial	: 0/10
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 01:59:08	Cycle	: 10

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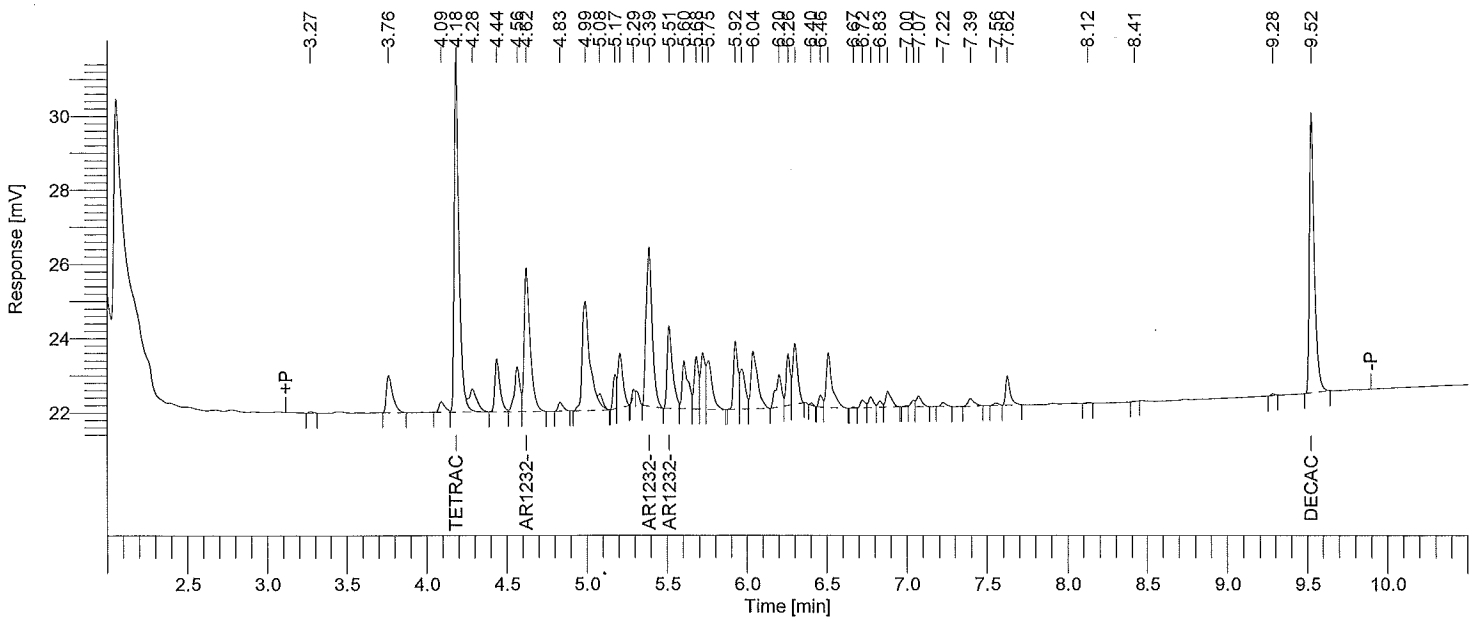

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.18	Tetrachloro-m-xylene	19621	0.0200000
4.62	AR1232-1	9851	0.4000000
5.39	AR1232-2	11277	0.4000000
5.51	AR1232-3	5214	0.4000000
9.52	Decachlorobiphenyl	16206	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:20
Operator	: borges	Sample Name	: AR12423A2
Sample Number	: 11	Study	: 26411
AutoSampler	: HP7673A	Rack/Vial	: 0/11
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 02:15:16	Cycle	: 11

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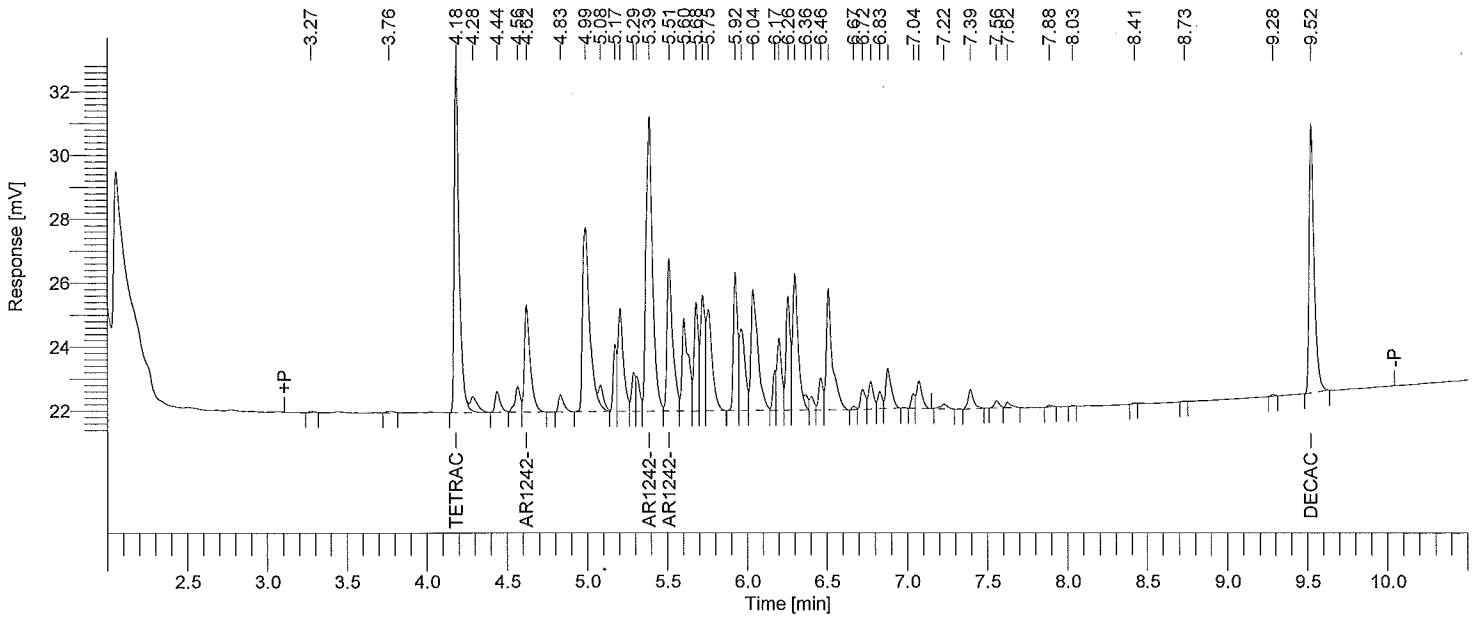

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.18	Tetrachloro-m-xylene	23044	0.0200000
4.62	AR1242-1	8248	0.4000000
5.39	AR1242-2	25699	0.4000000
5.51	AR1242-3	11655	0.4000000
9.52	Decachlorobiphenyl	18027	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:22
Operator	: borges	Sample Name	: AR12483A2
Sample Number	: 12	Study	: 26416
AutoSampler	: HP7673A	Rack/Vial	: 0/12
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 02:31:36	Cycle	: 12

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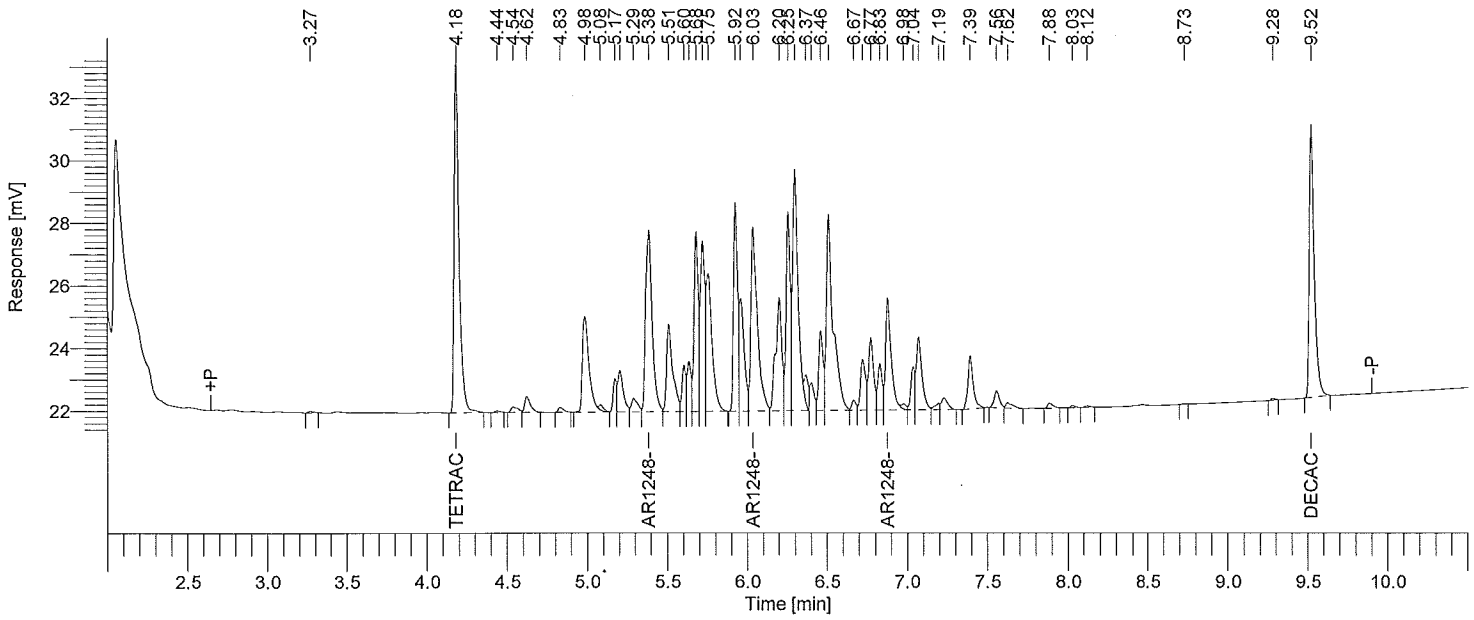

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.18	Tetrachloro-m-xylene	23559	0.0200000
5.38	AR1248-1	16389	0.4000000
6.03	AR1248-2	16308	0.4000000
6.88	AR1248-3	8824	0.4000000
9.52	Decachlorobiphenyl	18765	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:23
Operator	: borges	Sample Name	: AR12543A2
Sample Number	: 13	Study	: 26421
AutoSampler	: HP7673A	Rack/Vial	: 0/13
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 02:47:42	Cycle	: 13

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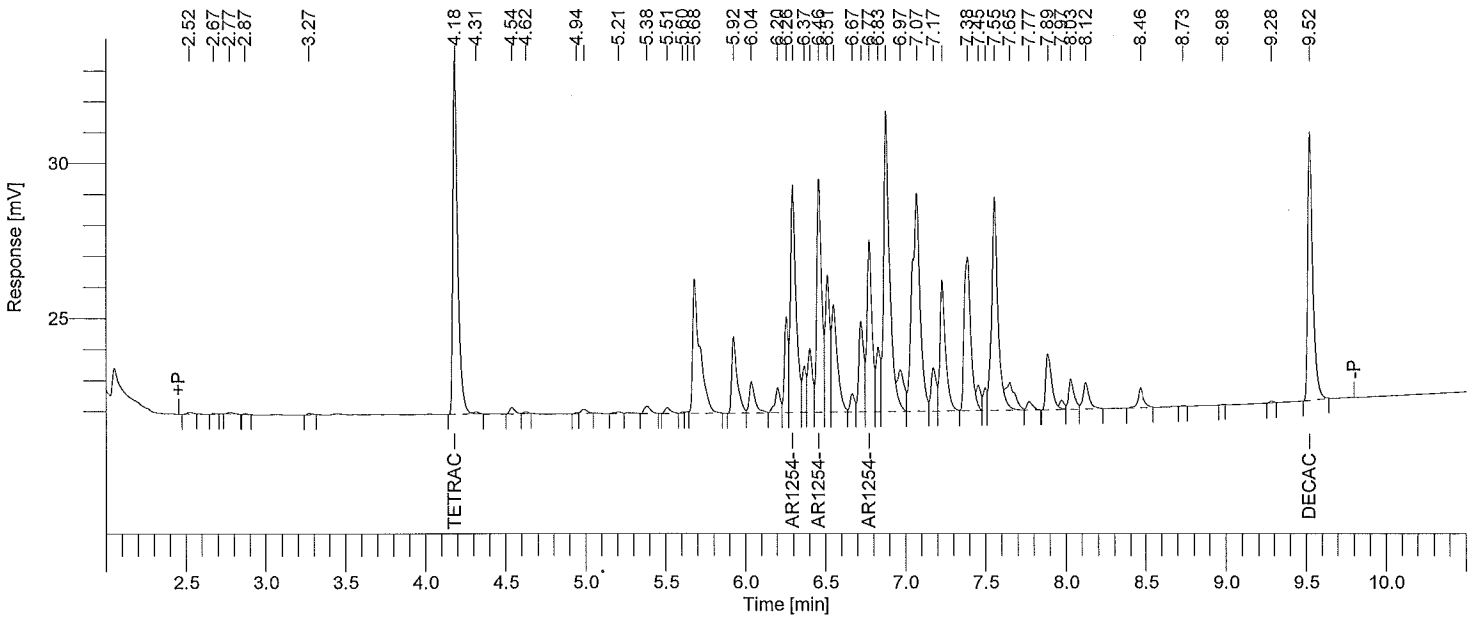

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.18	Tetrachloro-m-xylene	23714	0.0200000
6.29	AR1254-1	17271	0.4000000
6.46	AR1254-2	15710	0.4000000
6.77	AR1254-3	11868	0.4000000
9.52	Decachlorobiphenyl	18663	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:25
Operator	: borges	Sample Name	: AR12623A2
Sample Number	: 14	Study	: 26426
AutoSampler	: HP7673A	Rack/Vial	: 0/14
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 03:03:48	Cycle	: 14

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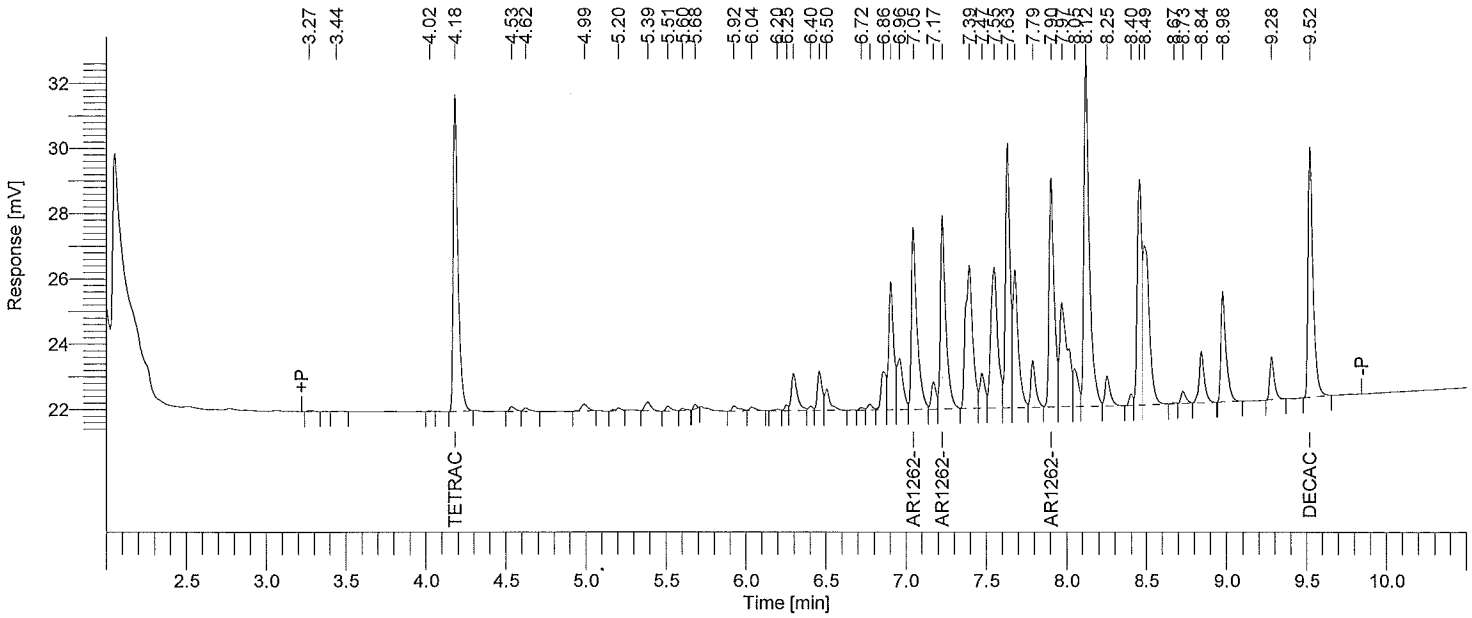

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.18	Tetrachloro-m-xylene	19946	0.0200000
7.05	AR1262-1	13531	0.4000000
7.22	AR1262-2	13740	0.4000000
7.90	AR1262-3	14779	0.4000000
9.52	Decachlorobiphenyl	16570	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:26
Operator	: borges	Sample Name	: AR12683A2
Sample Number	: 15	Study	: 26431
AutoSampler	: HP7673A	Rack/Vial	: 0/15
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000 ul	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 03:20:10	Cycle	: 15

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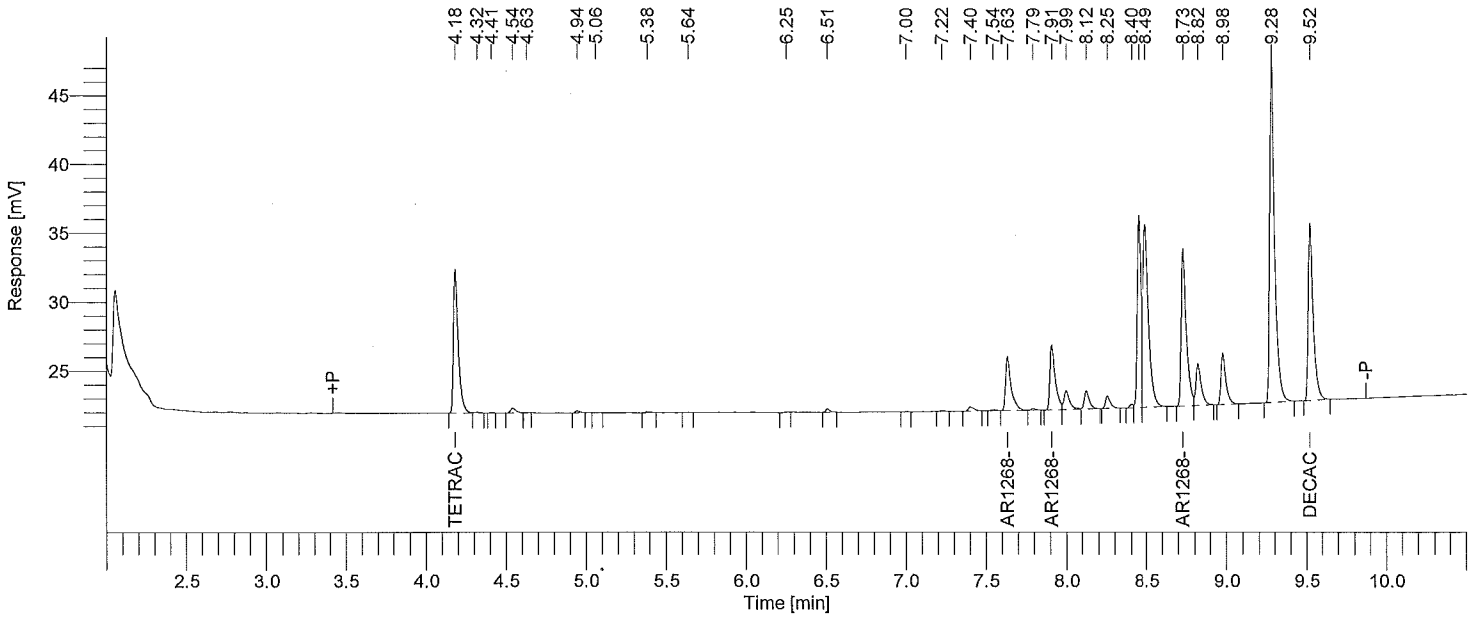

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM STANDARD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL
4.18	Tetrachloro-m-xylene	21487	0.0200000
7.63	AR1268-1	9453	0.4000000
7.91	AR1268-2	10759	0.4000000
8.73	AR1268-3	24137	0.4000000
9.52	Decachlorobiphenyl	27770	0.0400000

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:29
Operator	: borges	Sample Name	: AR16603B2
Sample Number	: 17	Study	: 26396
AutoSampler	: HP7673A	Rack/Vial	: 0/17
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 03:52:28	Cycle	: 17

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_017.rst
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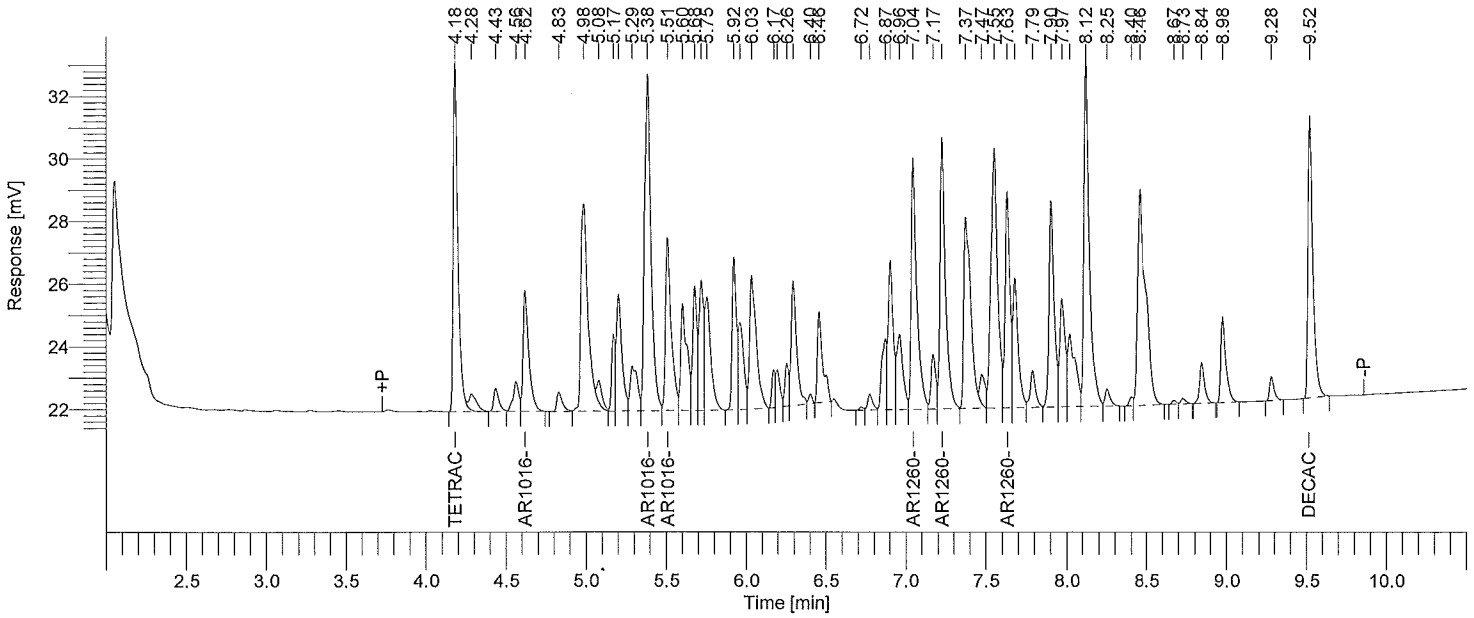
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_aroclor_ccv_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM ARO CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.18	Tetrachloro-m-xylene	23303	0.0213773	0.0213773	0.0200000	106.9
4.62	AR1016-1	9419	0.4199620	0.4199620	0.4000000	105.0
5.38	AR1016-2	30081	0.4168859	0.4168859	0.4000000	104.2
5.51	AR1016-3	13511	0.4170003	0.4170003	0.4000000	104.3
7.04	AR1260-1	19699	0.4171798	0.4171798	0.4000000	104.3
7.22	AR1260-2	20375	0.4135135	0.4135135	0.4000000	103.4
7.63	AR1260-3	14386	0.4080396	0.4080396	0.4000000	102.0
9.52	Decachlorobiphenyl	19526	0.0413355	0.0413355	0.0400000	103.3

All analytes <= to +/-15% opening CCV, <=+/-50% closing CCV.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:32
Operator	: borges	Sample Name	: AR16603C2
Sample Number	: 61	Study	: 26396
AutoSampler	: HP7673A	Rack/Vial	: 0/61
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 15:43:57	Cycle	: 3

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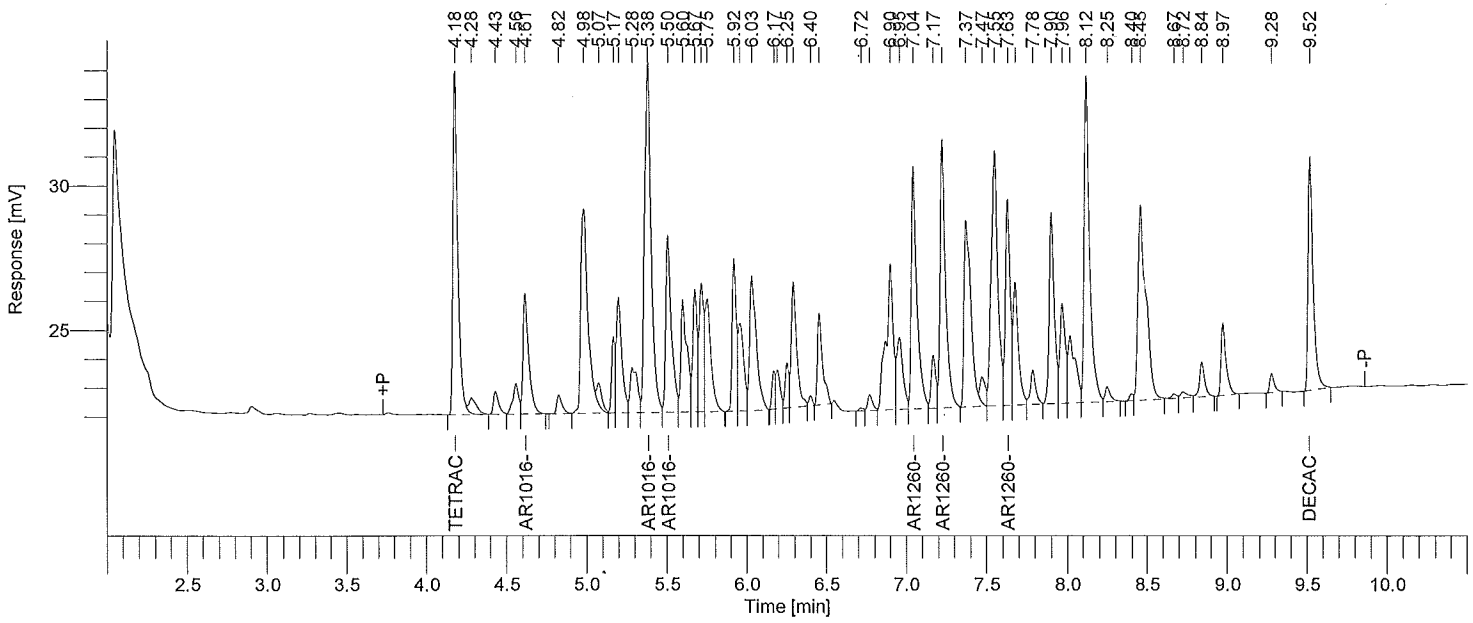
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_aroclor_ccv_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM ARO CCV STD REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Adj Amt ug/mL	Target Amt ug/mL	Recovery %
4.18	Tetrachloro-m-xylene	25239	0.0231533	0.0231533	0.0200000	115.8
4.61	AR1016-1	10228	0.4559922	0.4559922	0.4000000	114.0
5.38	AR1016-2	34084	0.4723667	0.4723667	0.4000000	118.1
5.50	AR1016-3	14893	0.4596633	0.4596633	0.4000000	114.9
7.04	AR1260-1	20498	0.4340858	0.4340858	0.4000000	108.5
7.22	AR1260-2	21753	0.4414829	0.4414829	0.4000000	110.4
7.63	AR1260-3	14782	0.4192586	0.4192586	0.4000000	104.8
9.52	Decachlorobiphenyl	17784	0.0376476	0.0376476	0.0400000	94.1

All analytes <= to +/-15% opening CCV, <=+/-50% closing CCV.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ABLKS1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 448474

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150604A019,20150604B019

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U
37324-23-5	Aroclor-1262	33.	U
11100-14-4	Aroclor-1268	33.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:37:31
Operator	: borges	Sample Name	: 448474
Sample Number	: 19	Study	: ABLKS1
AutoSampler	: HP7673A	Rack/Vial	: 0/19
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 04:08:31	Cycle	: 18

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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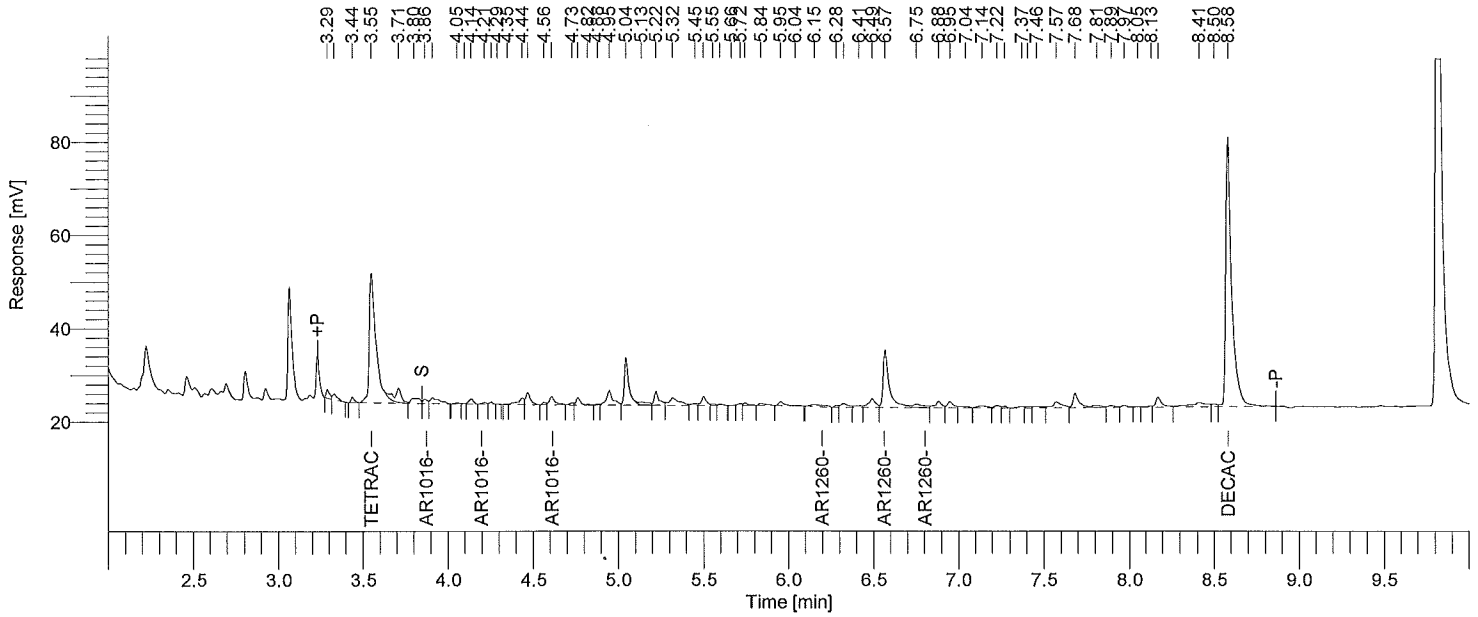

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	77777	0.03816148	1	10	0.03000	1.000	1.6667	12.72049	20.00	63.6
3.86	AR1016-1	1646	0.03903306	1	10	0.03000	1.000	33.3333	13.01102	0.00	------
4.21	AR1016-2	667	8.1831e-03	1	10	0.03000	1.000	33.3333	2.72771	0.00	------
4.61	AR1016-3	4118	0.02861209	1	10	0.03000	1.000	33.3333	9.53736	0.00	------
6.15	AR1260-1	2398	0.02712872	1	10	0.03000	1.000	33.3333	9.04291	0.00	------
6.57	AR1260-2	31024	0.61121367	1	10	0.03000	1.000	33.3333	203.73789	0.00	------
6.80	AR1260-3	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
8.58	Decachlorobiphenyl	138463	0.13575700	1	10	0.03000	1.000	3.3333	45.25233	40.00	113.1

One surrogate 30-150% for field samples, both for method blank.

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:17
Operator	: borges	Sample Name	: 448474
Sample Number	: 19	Study	: ABLKS1
AutoSampler	: HP7673A	Rack/Vial	: 0/19
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 04:24:42	Cycle	: 19

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_019.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_019.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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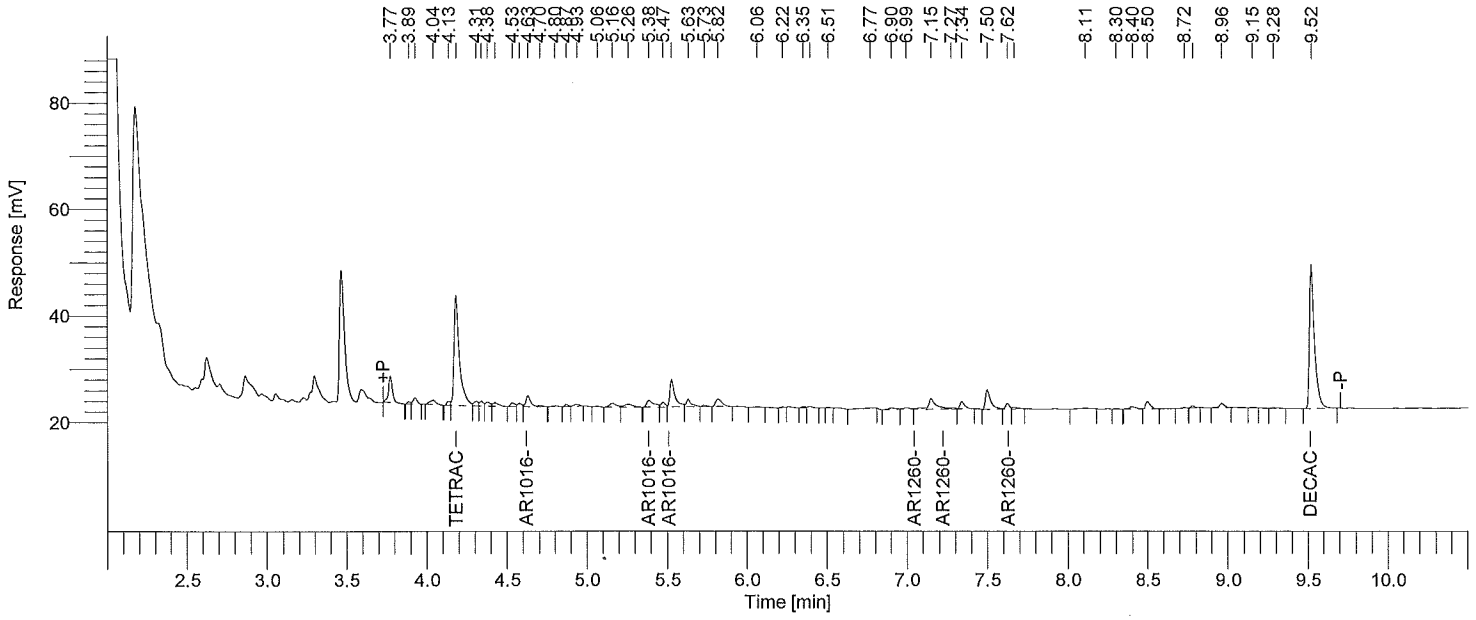

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	47951	0.04398775	1	10	0.03000	1.000	1.6667	14.66258	20.00	73.3
4.63	AR1016-1	4291	0.19129535	1	10	0.03000	1.000	33.3333	63.76512	0.00	------
5.38	AR1016-2	3720	0.05156202	1	10	0.03000	1.000	33.3333	17.18734	0.00	------
5.52	AR1016-3	10970	0.33858928	1	10	0.03000	1.000	33.3333	112.86309	0.00	------
7.04	AR1260-1	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
7.22	AR1260-2	0	0.00000000	1	10	0.03000	1.000	---------	0.00000	--------	------
7.62	AR1260-3	1749	0.04961140	1	10	0.03000	1.000	33.3333	16.53713	0.00	------
9.52	Decachlorobiphenyl	60478	0.12802878	1	10	0.03000	1.000	3.3333	42.67626	40.00	106.7

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLKB1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKB1

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20150604A016

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

Acid Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:49:58
Operator	: borges	Sample Name	: AIBLKB1
Sample Number	: 16	Study	: 26387
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 03:20:10	Dilution Factor	: 1.00
		Cycle	: 15

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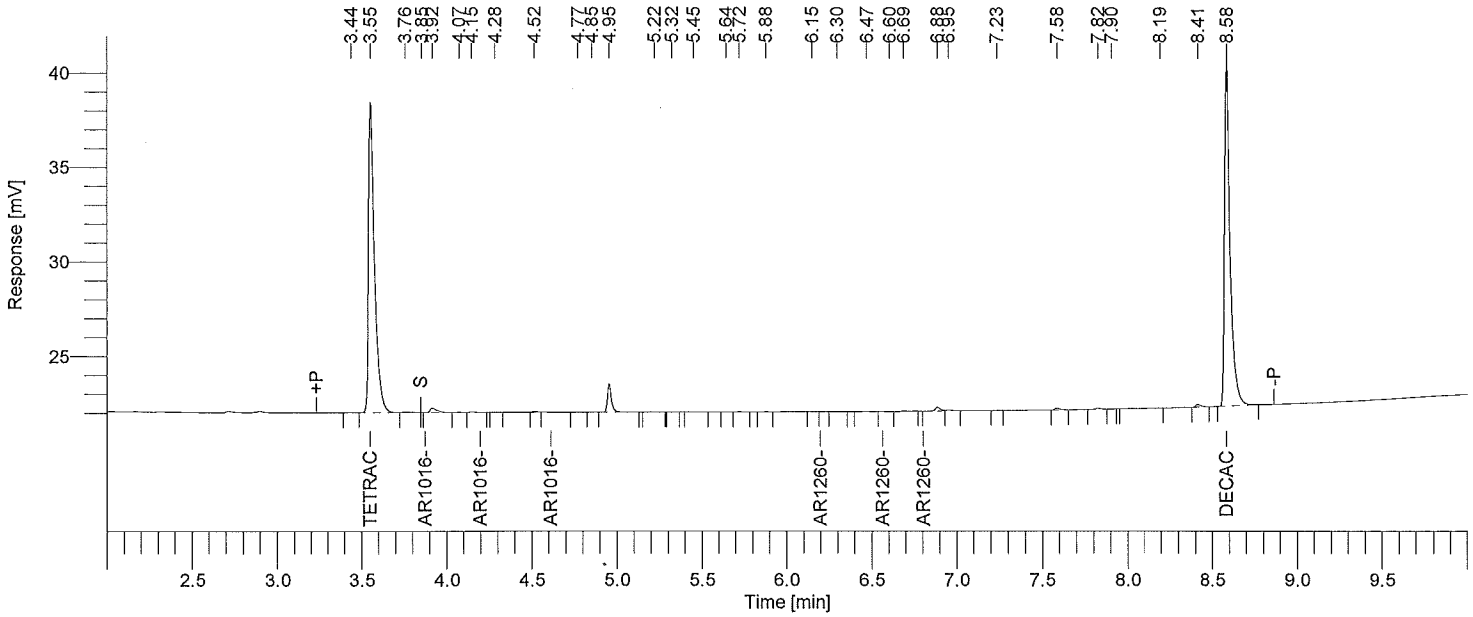

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
3.55	Tetrachloro-m-xylene	40023	0.019637	1	10	1.000	1.000	0.050000	0.196372	0.2000	98.2
3.85	AR1016-1	5	1.12e-04	1	10	1.000	1.000	1.000000	0.001121	0.0000	-----
4.15	AR1016-2	73	8.95e-04	1	10	1.000	1.000	1.000000	0.008948	0.0000	-----
4.61	AR1016-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.20	AR1260-1	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
6.60	AR1260-2	77	1.52e-03	1	10	1.000	1.000	1.000000	0.015170	0.0000	-----
6.80	AR1260-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.58	Decachlorobiphenyl	40617	0.039823	1	10	1.000	1.000	0.100000	0.398233	0.4000	99.6

All analytes <CRQL.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLKC1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKC1

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20150604A060

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

Acid Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:01
Operator	: borges	Sample Name	: AIBLKC1
Sample Number	: 60	Study	: 26387
AutoSampler	: HP7673A	Rack/Vial	: 0/60
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 15:11:34	Cycle	: 1

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_060.raw
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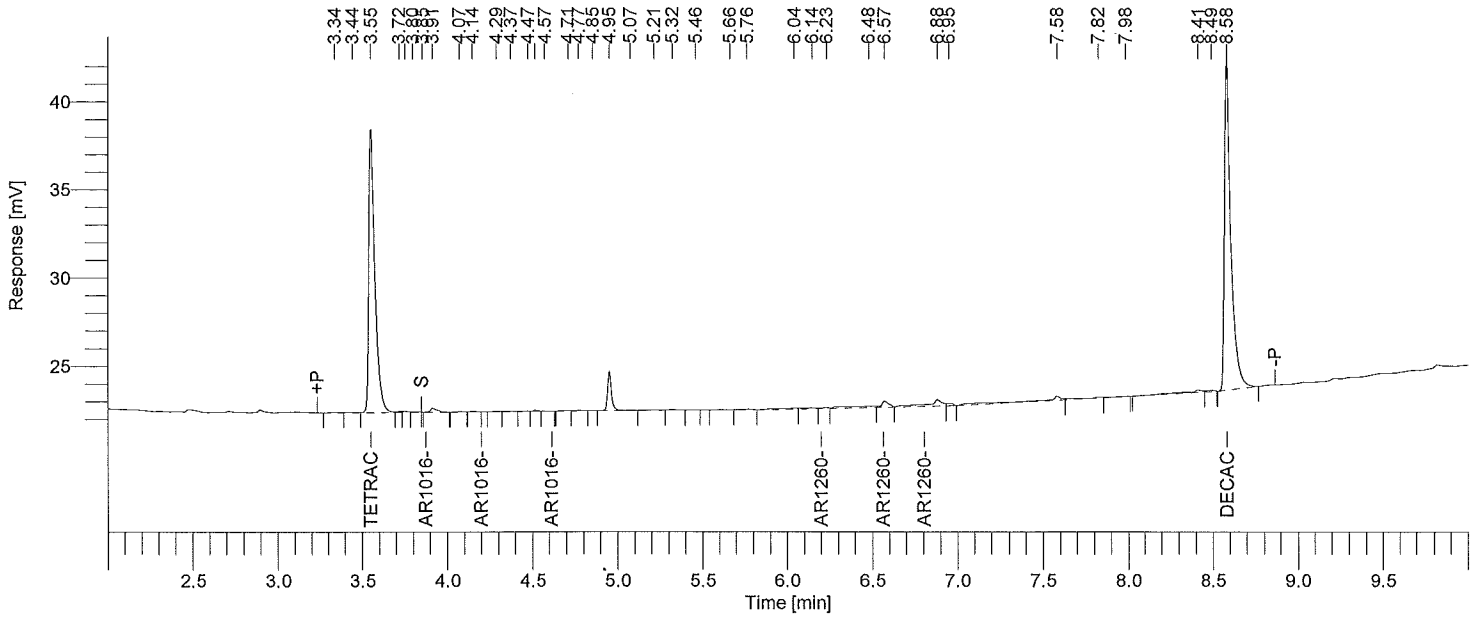

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
3.55	Tetrachloro-m-xylene	39372	0.019318	1	10	1.000	1.000	0.050000	0.193179	0.2000	96.6
3.85	AR1016-1	5	1.17e-04	1	10	1.000	1.000	1.000000	0.001174	0.0000	-----
4.20	AR1016-2	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
4.57	AR1016-3	57	3.96e-04	1	10	1.000	1.000	1.000000	0.003964	0.0000	-----
6.23	AR1260-1	191	2.16e-03	1	10	1.000	1.000	1.000000	0.021570	0.0000	-----
6.57	AR1260-2	1021	0.020111	1	10	1.000	1.000	1.000000	0.201111	0.0000	-----
6.80	AR1260-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
8.58	Decachlorobiphenyl	47870	0.046934	1	10	1.000	1.000	0.100000	0.469342	0.4000	117.3

All analytes <CRQL.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLKB2(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKB2

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20150604B016

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

Acid Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:28
Operator	: borges	Sample Name	: AIBLKB2
Sample Number	: 16	Study	: 26387
AutoSampler	: HP7673A	Rack/Vial	: 0/16
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 03:36:18	Cycle	: 16

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Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_016.rst
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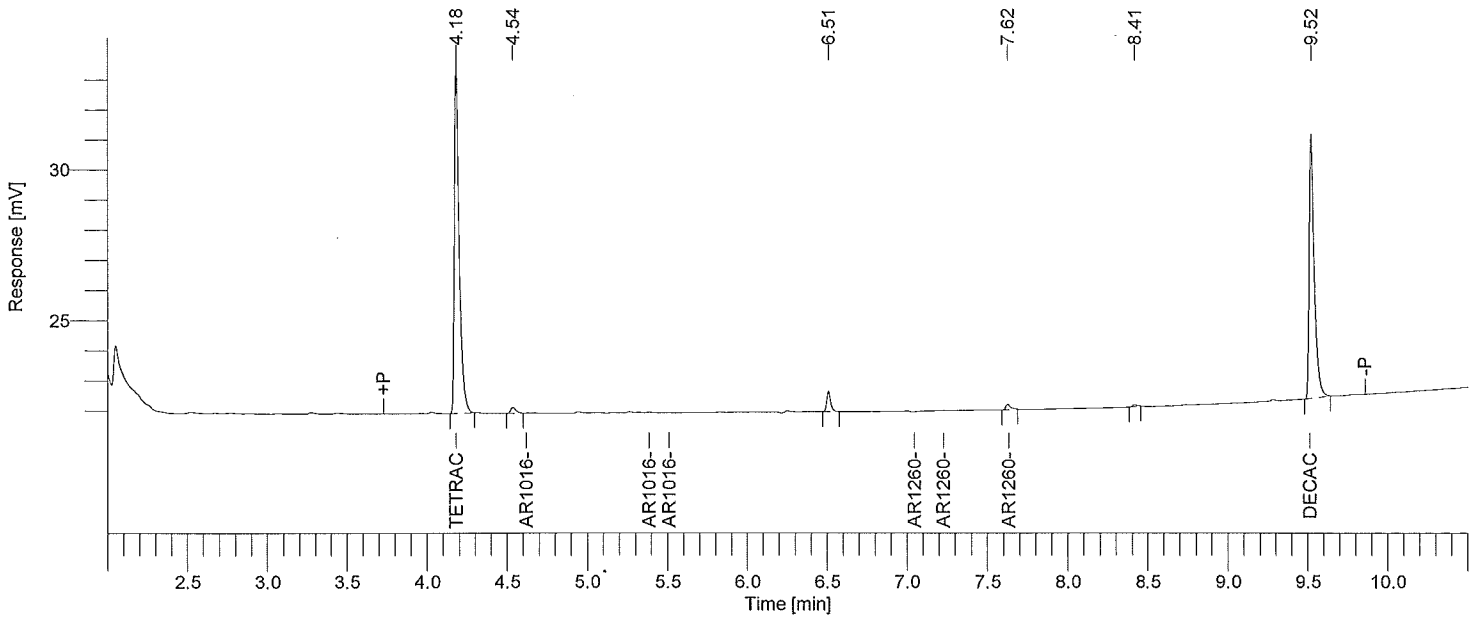

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.18	Tetrachloro-m-xylene	24244	0.022241	1	10	1.000	1.000	0.050000	0.222406	0.2000	111.2
4.62	AR1016-1	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.38	AR1016-2	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.51	AR1016-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.05	AR1260-1	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.22	AR1260-2	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.62	AR1260-3	372	0.010552	1	10	1.000	1.000	1.000000	0.105522	0.0000	-----
9.52	Decachlorobiphenyl	18813	0.039826	1	10	1.000	1.000	0.100000	0.398264	0.4000	99.6

All analytes <CRQL.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AIBLKC2(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: AIBLKC2

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 20150604B060

% Moisture: 0.0 Decanted: (Y/N) Date Received:

Extraction: (Type) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: Dilution Factor: 1.0

GPC Cleanup: (Y/N) pH: Sulfur Cleanup: (Y/N)

Acid Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:50:31
Operator	: borges	Sample Name	: AIBLKC2
Sample Number	: 60	Study	: 26387
AutoSampler	: HP7673A	Rack/Vial	: 0/60
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 15:27:45	Cycle	: 2

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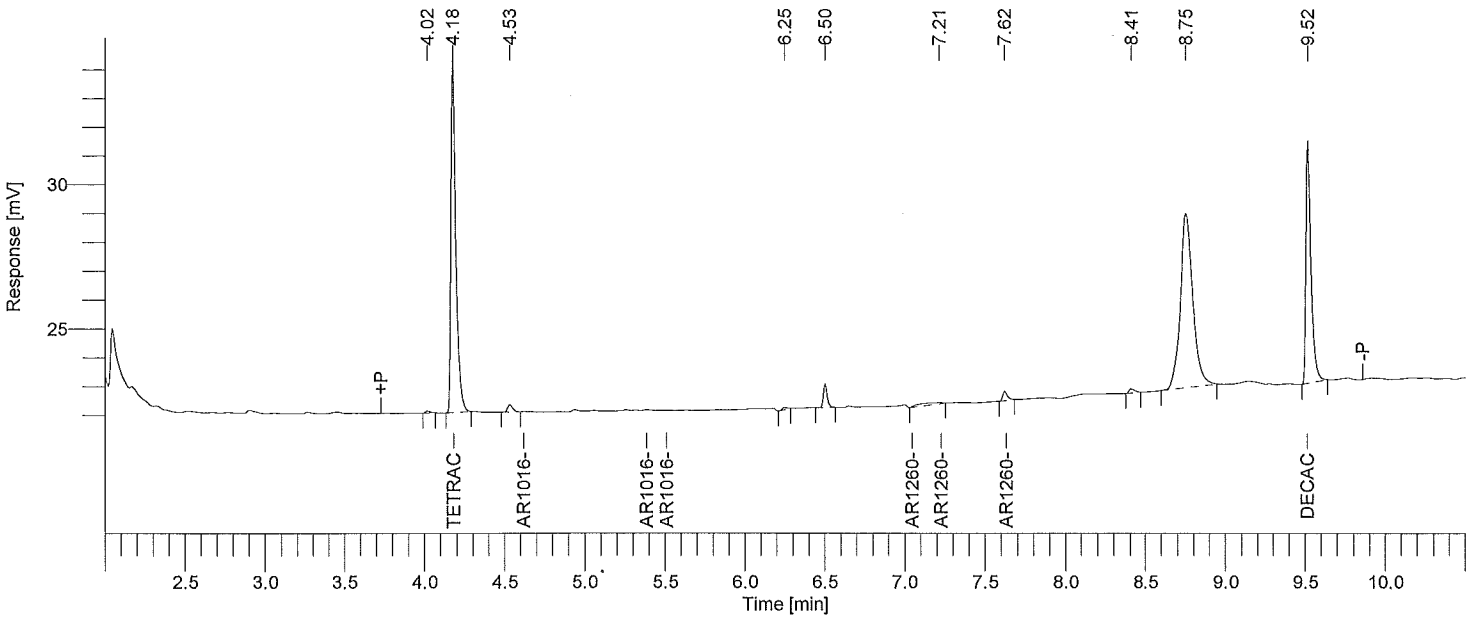
Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_060.rst
Calib Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_060.rst
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_instrument blank_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM INSTRUMENT BLANK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L	Surr Targ ug/L	Rec %
4.18	Tetrachloro-m-xylene	25637	0.023519	1	10	1.000	1.000	0.050000	0.235185	0.2000	117.6
4.62	AR1016-1	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.38	AR1016-2	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
5.51	AR1016-3	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.05	AR1260-1	0	0.000000	1	10	1.000	1.000	--------	0.000000	--------	-----
7.21	AR1260-2	728	0.014782	1	10	1.000	1.000	1.000000	0.147821	0.0000	-----
7.62	AR1260-3	637	0.018060	1	10	1.000	1.000	1.000000	0.180601	0.0000	-----
9.52	Decachlorobiphenyl	18403	0.038959	1	10	1.000	1.000	0.100000	0.389586	0.4000	97.4

All analytes <CRQL.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L66MS(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293010

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150604A030

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	150	
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	39.	U
11096-82-5	Aroclor-1260	160	
37324-23-5	Aroclor-1262	39.	U
11100-14-4	Aroclor-1268	39.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:38:12
Operator	: borges	Sample Name	: 1514293010
Sample Number	: 30	Study	: F9L66MS
AutoSampler	: HP7673A	Rack/Vial	: 0/30
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 07:06:02	Dilution Factor	: 1.00
		Cycle	: 29

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_a.rpt
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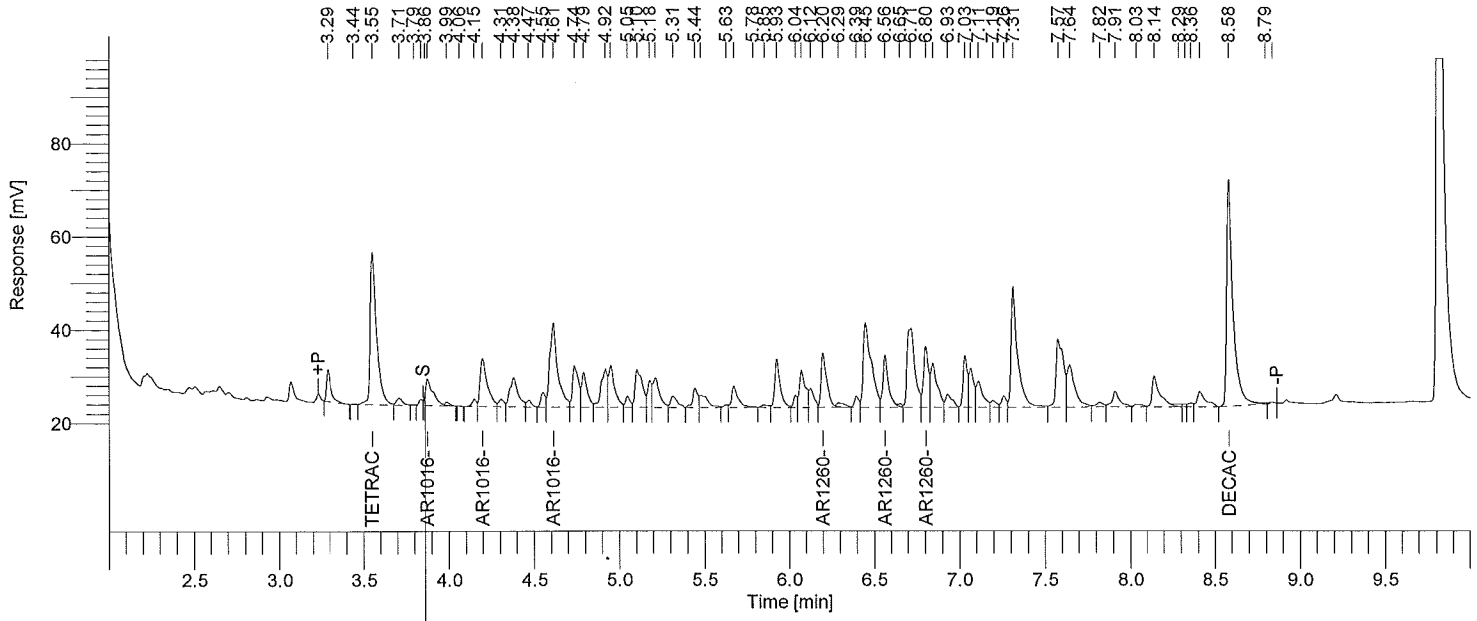

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	84350	0.04138644	1	10	0.03003	0.999	1.6650	13.78170	19.98	69.0
3.87	AR1016-1	16434	0.38979214	1	10	0.03003	0.999	33.3000	129.80091	0.00	------
4.20	AR1016-2	29970	0.36745561	1	10	0.03003	0.999	33.3000	122.36284	0.00	------
4.61	AR1016-3	58036	0.40327602	1	10	0.03003	0.999	33.3000	134.29105	0.00	------
6.20	AR1260-1	26956	0.30490811	1	10	0.03003	0.999	33.3000	101.53450	0.00	------
6.56	AR1260-2	25238	0.49722196	1	10	0.03003	0.999	33.3000	165.57508	0.00	------
6.80	AR1260-3	25186	0.42558140	1	10	0.03003	0.999	33.3000	141.71875	0.00	------
8.58	Decachlorobiphenyl	124201	0.12177318	1	10	0.03003	0.999	3.3300	40.55051	39.96	101.5

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L66MS(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293010

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150604B030

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	180	
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	39.	U
11096-82-5	Aroclor-1260	180	
37324-23-5	Aroclor-1262	39.	U
11100-14-4	Aroclor-1268	39.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:35
Operator	: borges	Sample Name	: 1514293010
Sample Number	: 30	Study	: F9L66MS
AutoSampler	: HP7673A	Rack/Vial	: 0/30
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 07:22:06	Dilution Factor	: 1.00
		Cycle	: 30

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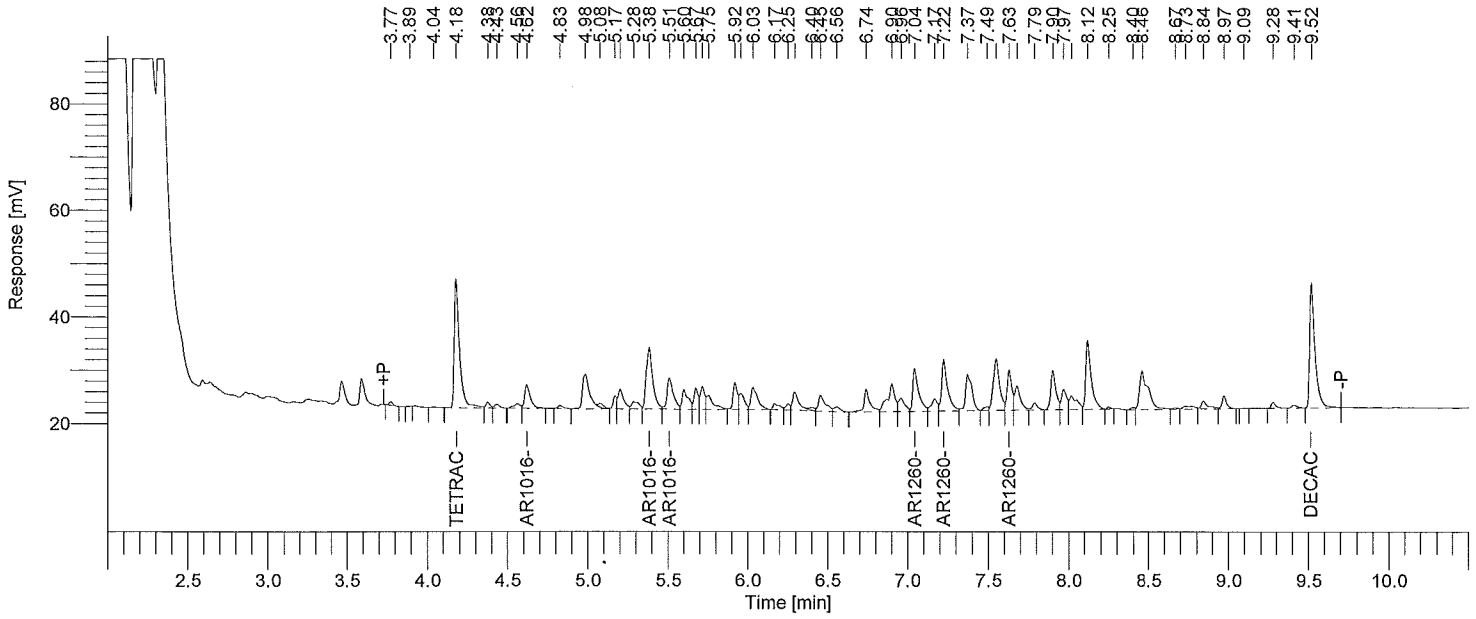
Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	55404	0.05082476	1	10	0.03003	0.999	1.6650	16.92466	19.98	84.7
4.62	AR1016-1	10742	0.47894219	1	10	0.03003	0.999	33.3000	159.48791	0.00	------
5.38	AR1016-2	32151	0.44557872	1	10	0.03003	0.999	33.3000	148.37786	0.00	------
5.51	AR1016-3	15711	0.48490957	1	10	0.03003	0.999	33.3000	161.47505	0.00	------
7.04	AR1260-1	20490	0.43392394	1	10	0.03003	0.999	33.3000	144.49682	0.00	------
7.22	AR1260-2	24624	0.49975385	1	10	0.03003	0.999	33.3000	166.41820	0.00	------
7.63	AR1260-3	15437	0.43782271	1	10	0.03003	0.999	33.3000	145.79511	0.00	------
9.52	Decachlorobiphenyl	53397	0.11303847	1	10	0.03003	0.999	3.3300	37.64185	39.96	94.2

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L66MSD(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293011

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150604A031

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	170	
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	39.	U
11096-82-5	Aroclor-1260	170	
37324-23-5	Aroclor-1262	39.	U
11100-14-4	Aroclor-1268	39.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:38:15
Operator	: borges	Sample Name	: 1514293011
Sample Number	: 31	Study	: F9L66MSD
AutoSampler	: HP7673A	Rack/Vial	: 0/31
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 07:22:06	Cycle	: 30

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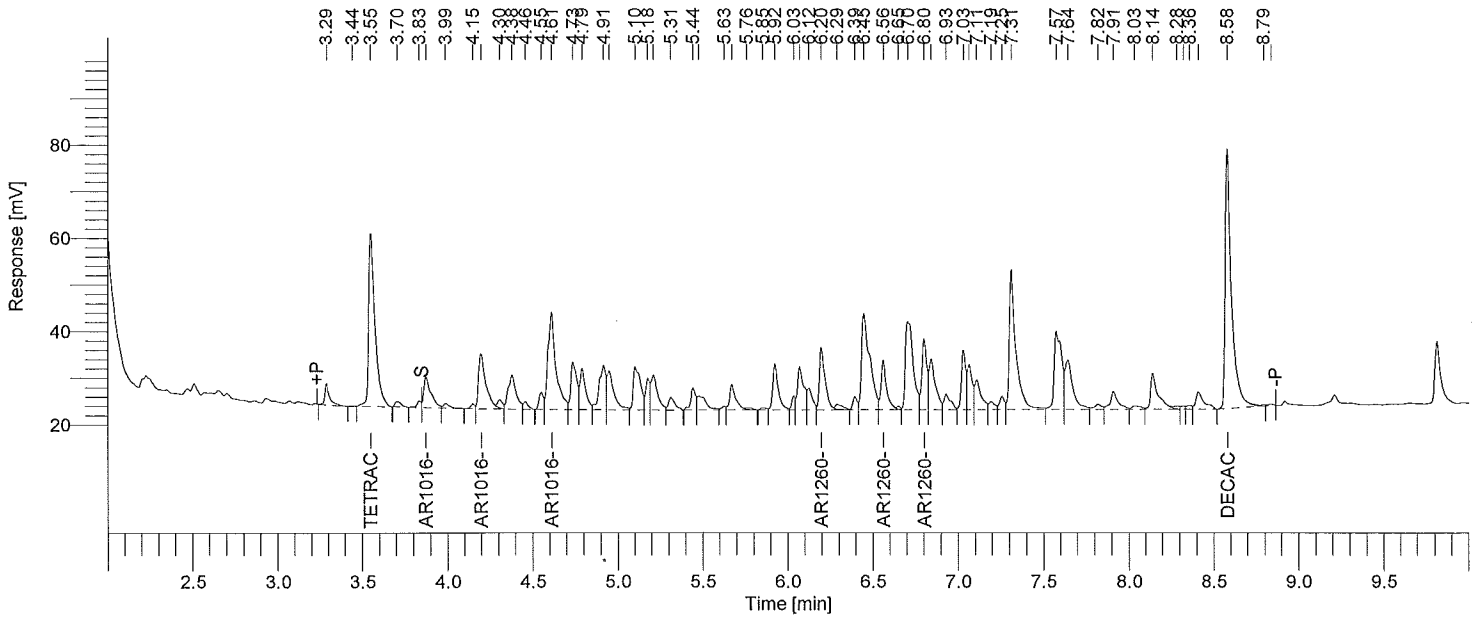

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	95601	0.04690659	1	10	0.03017	0.994	1.6573	15.54743	19.89	78.2
3.87	AR1016-1	18533	0.43958549	1	10	0.03017	0.994	33.1455	145.70285	0.00	------
4.19	AR1016-2	35513	0.43541800	1	10	0.03017	0.994	33.1455	144.32151	0.00	------
4.61	AR1016-3	67275	0.46747997	1	10	0.03017	0.994	33.1455	154.94861	0.00	------
6.20	AR1260-1	31452	0.35575624	1	10	0.03017	0.994	33.1455	117.91721	0.00	------
6.56	AR1260-2	23816	0.46920157	1	10	0.03017	0.994	33.1455	155.51925	0.00	------
6.80	AR1260-3	29710	0.50202885	1	10	0.03017	0.994	33.1455	166.40002	0.00	------
8.58	Decachlorobiphenyl	142583	0.13979597	1	10	0.03017	0.994	3.3146	46.33609	39.77	116.5

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L66MSD(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1514293011

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 20150604B031

% Moisture: 15. Decanted: (Y/N) N Date Received: 05/22/2015

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	190	
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	39.	U
11096-82-5	Aroclor-1260	200	
37324-23-5	Aroclor-1262	39.	U
11100-14-4	Aroclor-1268	39.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:36
Operator	: borges	Sample Name	: 1514293011
Sample Number	: 31	Study	: F9L66MSD
AutoSampler	: HP7673A	Rack/Vial	: 0/31
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 07:38:32	Cycle	: 31

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Report Format File: \\ALSLTWS012\tccs\borges\reports\20 clp\20_som_soil_sample_b.rpt
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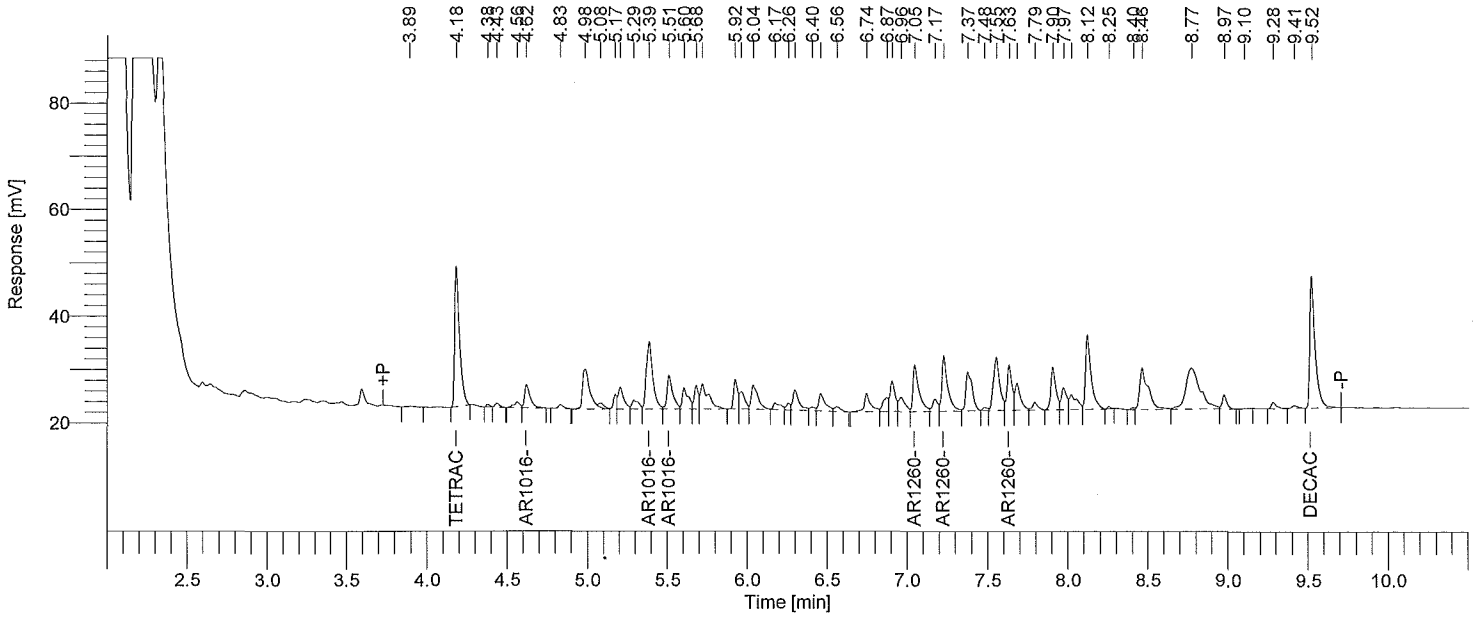

Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL SAMPLE REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Surr Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	55539	0.05094920	1	10	0.03017	0.994	1.6573	16.88737	19.89	84.9
4.62	AR1016-1	10315	0.45987104	1	10	0.03017	0.994	33.1455	152.42660	0.00	------
5.39	AR1016-2	35441	0.49116899	1	10	0.03017	0.994	33.1455	162.80046	0.00	------
5.51	AR1016-3	15639	0.48267643	1	10	0.03017	0.994	33.1455	159.98556	0.00	------
7.05	AR1260-1	22695	0.48061085	1	10	0.03017	0.994	33.1455	159.30091	0.00	------
7.22	AR1260-2	26399	0.53579004	1	10	0.03017	0.994	33.1455	177.59033	0.00	------
7.63	AR1260-3	17913	0.50807256	1	10	0.03017	0.994	33.1455	168.40323	0.00	------
9.52	Decachlorobiphenyl	56759	0.12015612	1	10	0.03017	0.994	3.3146	39.82636	39.77	100.1

One surrogate 30-150% for field samples, both for method blank.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCSS1(1)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 448476

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150604A020

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	31.	J
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	39.	
37324-23-5	Aroclor-1262	33.	U
11100-14-4	Aroclor-1268	33.	U

01957

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:37:33
Operator	: borges	Sample Name	: 448476
Sample Number	: 20	Study	: ALCSS1
AutoSampler	: HP7673A	Rack/Vial	: 0/20
Instrument Name	: GCE20	Channel	: A
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 04:24:42	Dilution Factor	: 1.00
		Cycle	: 19

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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_a.mth from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604A_020.rst
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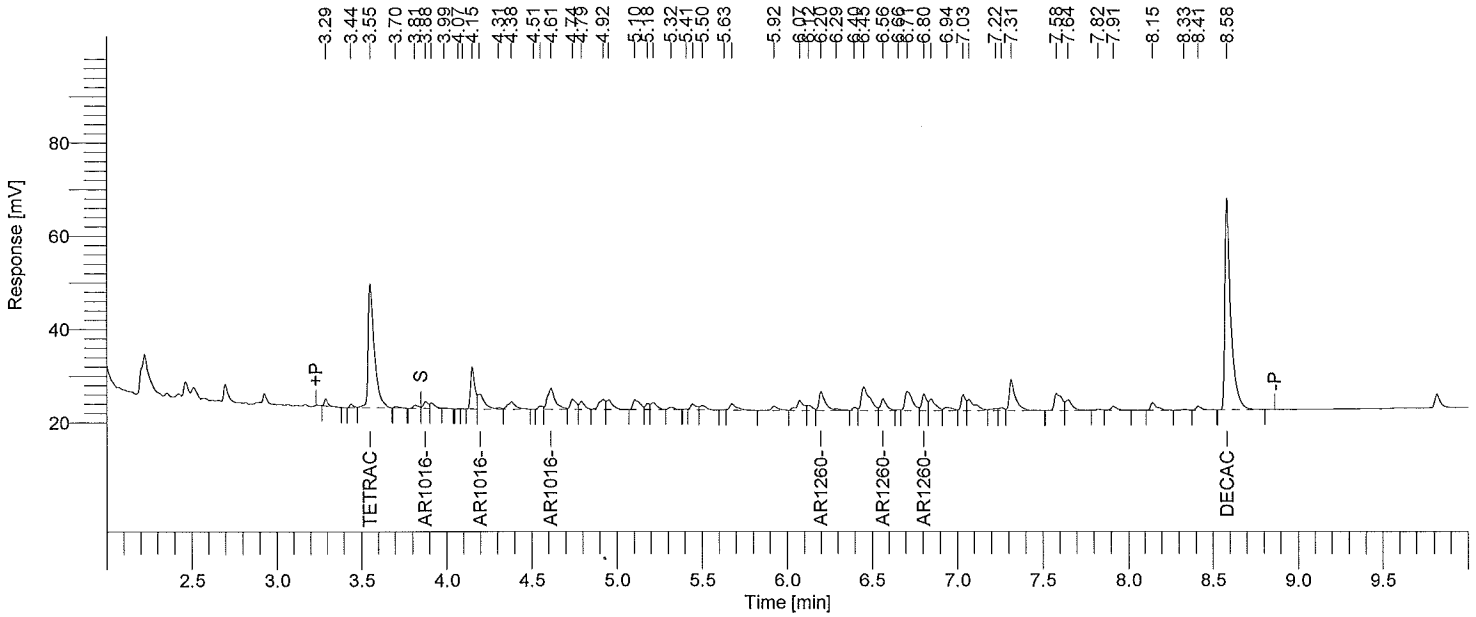

Instrument ID: GC20A Column: RTXCLP 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL LCS REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Spike Targ ug/kg	Rec %
3.55	Tetrachloro-m-xylene	66166	0.03246453	1	10	0.030	1.000	1.6667	10.82151	20.00	54.1
3.88	AR1016-1	2885	0.06843145	1	10	0.030	1.000	33.3333	22.81048	33.33	68.4
4.19	AR1016-2	8974	0.11002739	1	10	0.030	1.000	33.3333	36.67580	33.33	110.0
4.61	AR1016-3	13834	0.09612763	1	10	0.030	1.000	33.3333	32.04254	33.33	96.1
6.20	AR1260-1	10157	0.11488296	1	10	0.030	1.000	33.3333	38.29432	33.33	114.9
6.56	AR1260-2	5957	0.11735887	1	10	0.030	1.000	33.3333	39.11962	33.33	117.4
6.80	AR1260-3	6828	0.11536848	1	10	0.030	1.000	33.3333	38.45616	33.33	115.4
8.58	Decachlorobiphenyl	107451	0.10535113	1	10	0.030	1.000	3.3333	35.11704	40.00	87.8

Surrogates 30 to 150%. g-BHC, Endrin, Endosulfan sulfate 50-120%. Dieldren, g-Chlordane 30-130%. Heptachlor Epoxide, DDE 50-150%. Aroclors 50-150%.

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCSS1(2)

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L58

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 448476

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 20150604B020

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Extraction: (Type) SONC Date Extracted: 05/27/2015

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/05/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	32.	J
11104-28-2	Aroclor-1221	33.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	37.	
37324-23-5	Aroclor-1262	33.	U
11100-14-4	Aroclor-1268	33.	U

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:19
Operator	: borges	Sample Name	: 448476
Sample Number	: 20	Study	: ALCSS1
AutoSampler	: HP7673A	Rack/Vial	: 0/20
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000		
Sample Amount	: 1.0000	Area Reject	: 0.000000
Data Acquisition Time	: 06/05/2015 04:40:47	Dilution Factor	: 1.00
		Cycle	: 20

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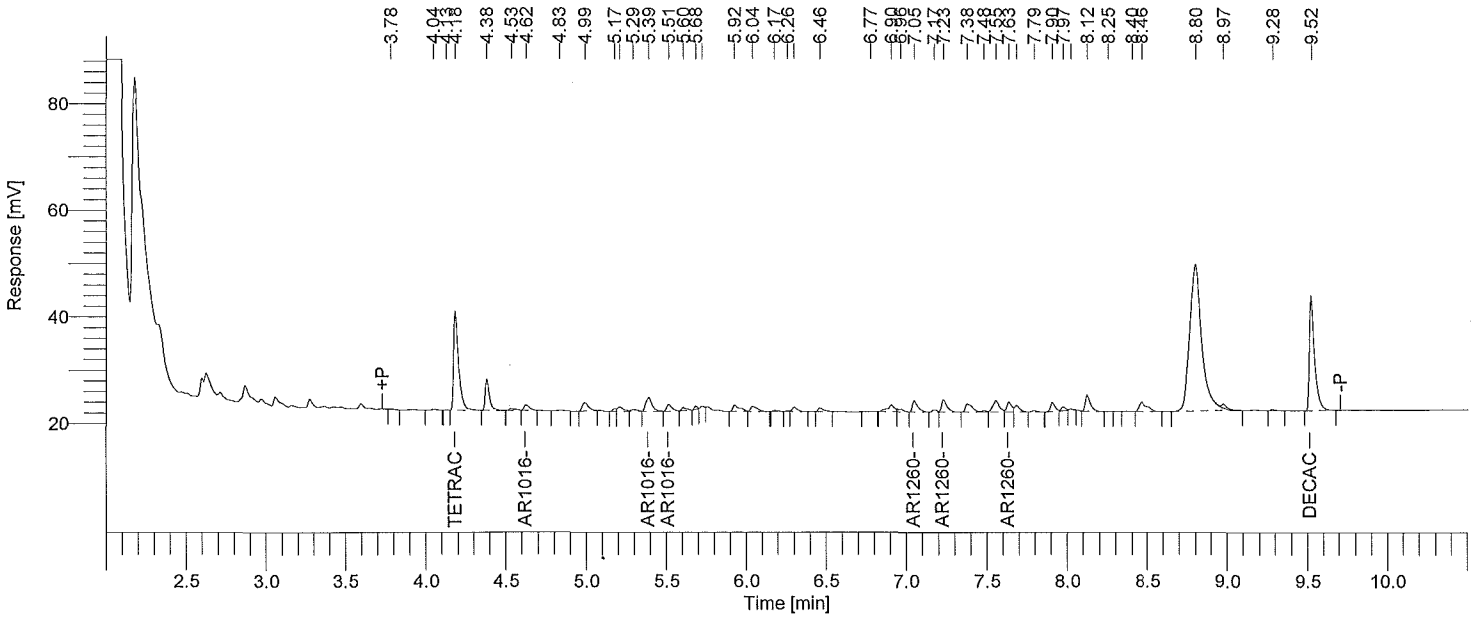


Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM PEST/ARO SOIL LCS REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample kg	Method DF	CRQL ug/kg	Adj Amt ug/kg	Spike Targ ug/kg	Rec %
4.18	Tetrachloro-m-xylene	39917	0.03661825	1	10	0.03000	1.000	1.6667	12.20608	20.00	61.0
4.62	AR1016-1	2397	0.10684796	1	10	0.03000	1.000	33.3333	35.61599	33.33	106.8
5.39	AR1016-2	6908	0.09574059	1	10	0.03000	1.000	33.3333	31.91353	33.33	95.7
5.51	AR1016-3	2771	0.08553620	1	10	0.03000	1.000	33.3333	28.51207	33.33	85.5
7.05	AR1260-1	5119	0.10841257	1	10	0.03000	1.000	33.3333	36.13752	33.33	108.4
7.23	AR1260-2	5487	0.11136091	1	10	0.03000	1.000	33.3333	37.12030	33.33	111.4
7.63	AR1260-3	4050	0.11486724	1	10	0.03000	1.000	33.3333	38.28908	33.33	114.9
9.52	Decachlorobiphenyl	48087	0.10179667	1	10	0.03000	1.000	3.3333	33.93222	40.00	84.8

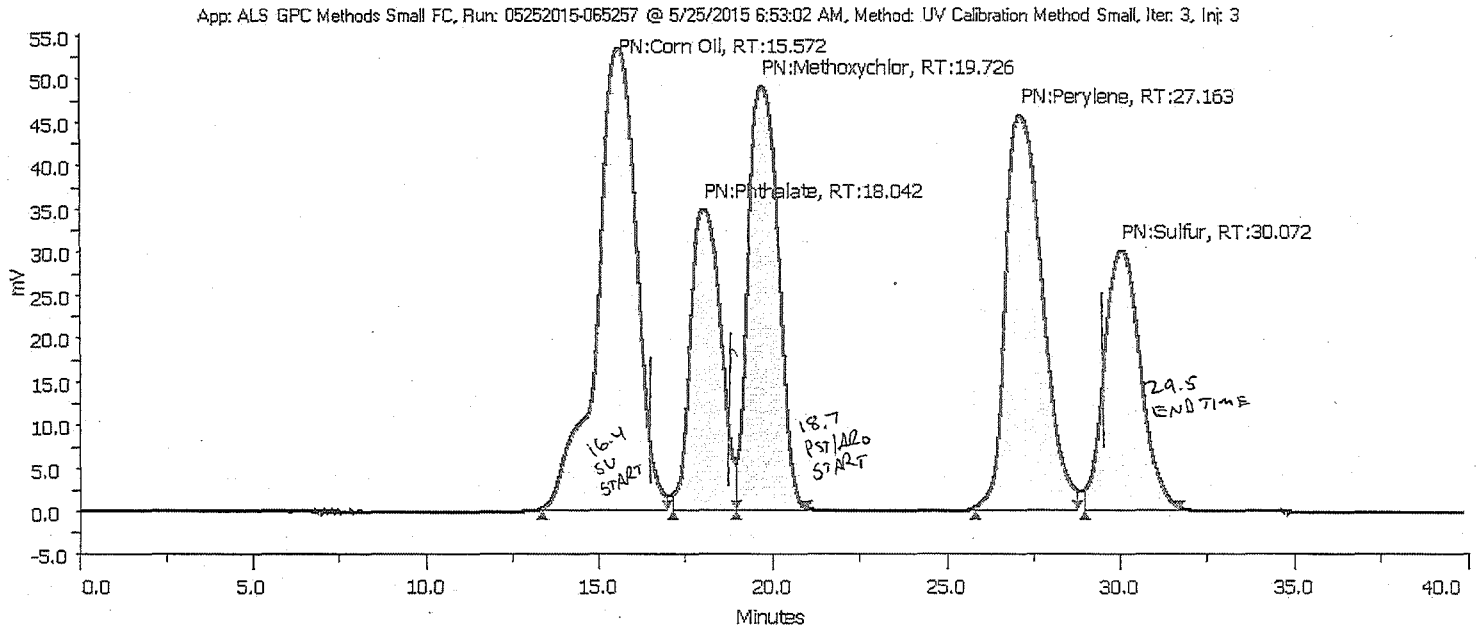
Surrogates 30 to 150%. g-BHC, Endrin, Endosulfan sulfate 50-120%. Dieldren, g-Chlordane 30-130%. Heptachlor Epoxide, DDE 50-150%. Aroclors 50-150%.

Graph

Sample Name	GPC 6 Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	7
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 6 TRACE
Somo 1.2/2.2
5/25/15
Lyle Edwards
STD# 195WS38823

App: ALS GPC Methods Small FC, Run: 05252015-065257 @ 5/25/2015 6:53:02 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC 6 Weekly	Sample Zone->1	Corn Oil	13.345	15.572	6981755.4167	53.19	0	90.823
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.114	18.042	3453661.6667	34.59	90.823	87.338
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	18.968	19.726	4909087.5	48.69	87.338	298.745
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.829	27.163	5531085.8333	45.32	298.745	102.496
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.983	30.072	3584026.25	29.85	102.496	0

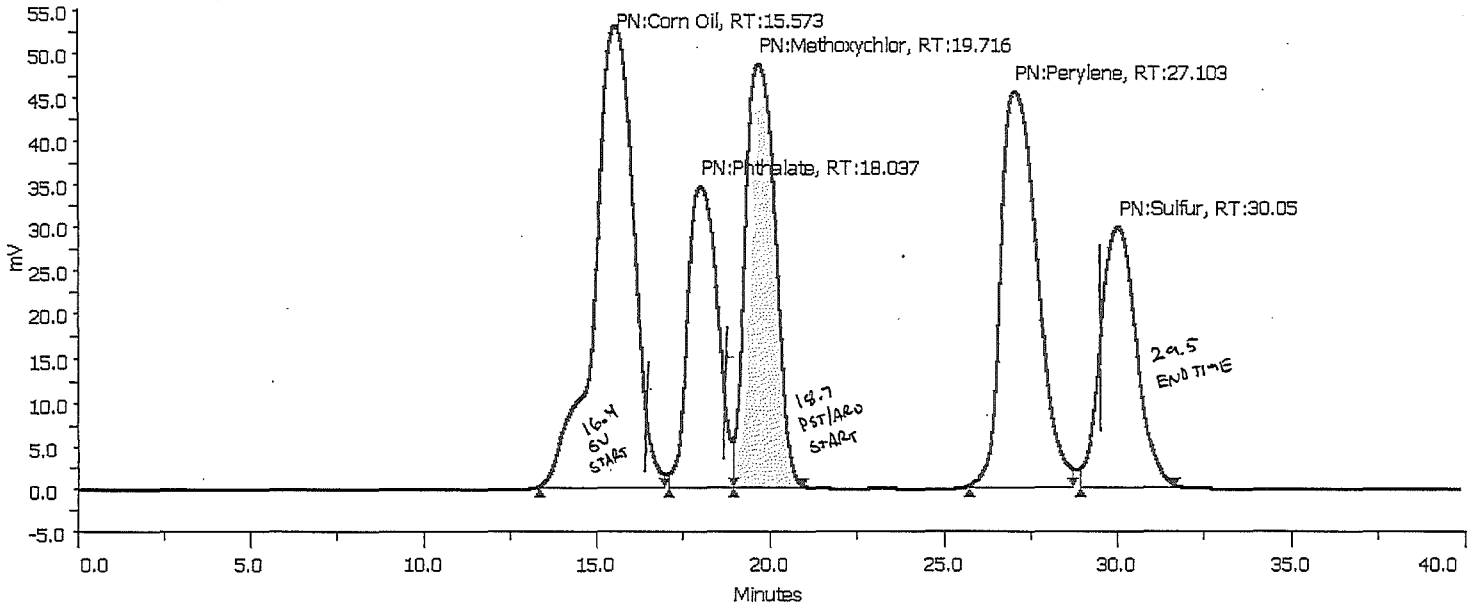
Run Variables

Graph

Sample Name	GPC 6 Weekly
Application Name	ALS GPC Methods Small FC (Administrator)
Method Name	UV Calibration Method Small
Configuration Name	GPC System With Detector
Version	7
Data Instrument Name	112 Detector Signal
Data Channel Name	254nm
Notes	
Injection Number	3

GPC 6 TRACE
SOMO 1.2/22
5/19/15
Lyle Elmb
STD # 195WS38823

App: ALS GPC Methods Small FC, Run: 05192015-072841 @ 5/19/2015 7:28:45 AM, Method: UV Calibration Method Small, Iter: 3, Inj: 3



Sample Table

Injection Number	Sample Name	Sample Location	Peak Name	Peak Start Time (min)	Retention Time (min)	Area (mVmin /10)	Height (mV)	Percent Front Resolution	Percent Back Resolution
3	GPC 6 Weekly	Sample Zone->1	Corn Oil	13.347	15.573	6918660.8333	52.86	0	90.744
3	GPC 6 Weekly	Sample Zone->1	Phthalate	17.107	18.037	3413118.75	34.35	90.744	87.116
3	GPC 6 Weekly	Sample Zone->1	Methoxychlor	18.962	19.716	4843820	48.35	87.116	296.836
3	GPC 6 Weekly	Sample Zone->1	Perylene	25.777	27.103	5473534.5833	45.19	296.836	103.771
3	GPC 6 Weekly	Sample Zone->1	Sulfur	28.947	30.05	3544075	29.64	103.771	0

Run Variables

Software Version	: 6.3.1.0504	Date	: 06/08/2015 15:39:16
Operator	: borges	Sample Name	: GPC60527
Sample Number	: 18	Study	: GPCBLK1
AutoSampler	: HP7673A	Rack/Vial	: 0/18
Instrument Name	: GCE20	Channel	: B
Instrument Serial #	: None	A/D mV Range	: 1000
Delay Time	: 2.00 min	End Time	: 12.15 min
Sampling Rate	: 5.0000 pts/s		
Sample Volume	: 1.000000	Area Reject	: 0.000000
Sample Amount	: 1.0000	Dilution Factor	: 1.00
Data Acquisition Time	: 06/05/2015 04:08:31	Cycle	: 18

Raw Data File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_018.raw
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Proc Method : \\ALSLTWS012\tccs\borges\GCE20\20150604\20_som_60_b from \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604B_018.rst
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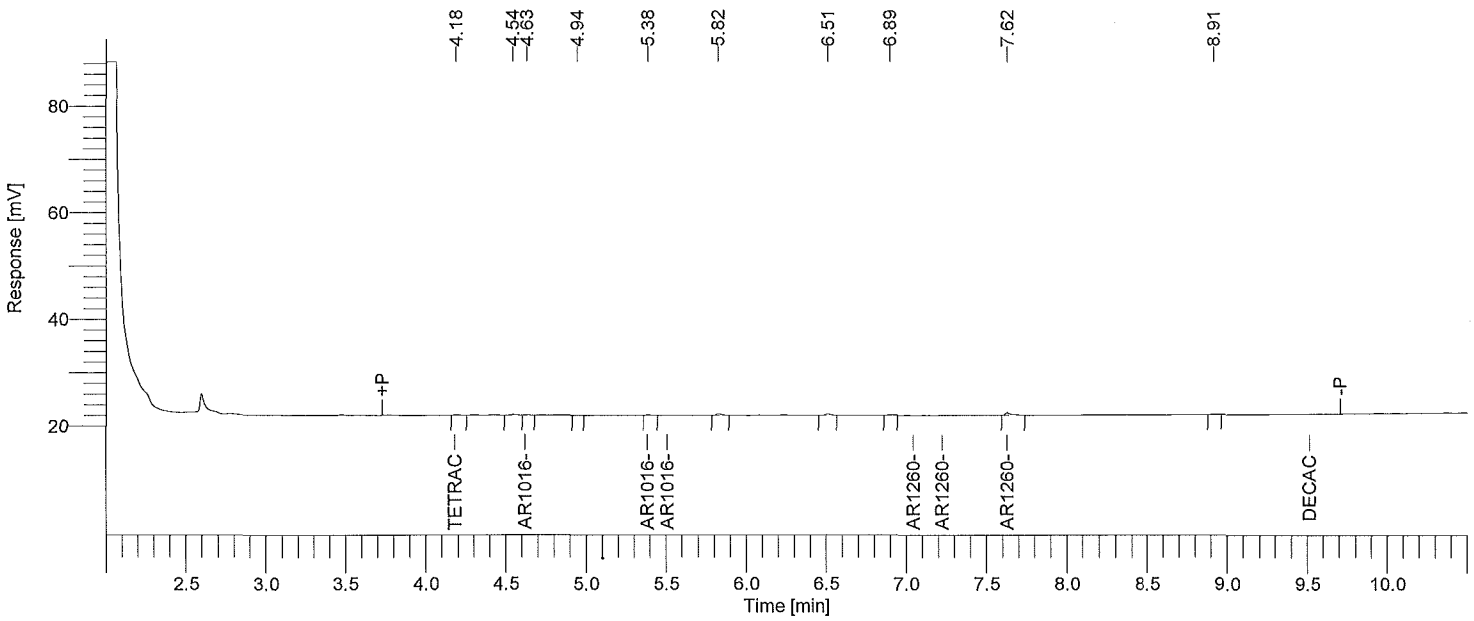
Sequence File : \\ALSLTWS012\tccs\borges\GCE20\20150604\20150604_SOM_AROS_F9L58_F9L53_A.seq



Instrument ID: GC20B Column: RTXCLP2 30m x 0.32mm Inj Vol: 2 uL SOM ARO GPC BLK REPORT

Time min	Component Name	Area [µV·s]	Raw Amt ug/mL	Instr DF	Extract mL	Sample Liter	Method DF	CRQL ug/L	Adj Amt ug/L
4.18	Tetrachloro-m-xylene	346	3.17268e-04	1	10	1.000	1.000	0.050000	0.003173
4.63	AR1016-1	148	6.58388e-03	1	10	1.000	1.000	1.000000	0.065839
5.38	AR1016-2	224	3.09969e-03	1	10	1.000	1.000	1.000000	0.030997
5.51	AR1016-3	0	0.000000000	1	10	1.000	1.000	--------	0.000000
7.04	AR1260-1	0	0.000000000	1	10	1.000	1.000	--------	0.000000
7.22	AR1260-2	0	0.000000000	1	10	1.000	1.000	--------	0.000000
7.62	AR1260-3	1324	0.037540355	1	10	1.000	1.000	1.000000	0.375404
9.51	Decachlorobiphenyl	0	0.000000000	1	10	1.000	1.000	--------	0.000000

All analytes <CRQL.

ALS Laboratory Group GC/MS Volatile Organic Analysis			
DCL Ref ID:	Samples:	Date Received:	Date Analyzed:
1514293	19	5/22/15	5/26, 5/27/15
Sample Matrix: Soil			
Method: EPA CLP SOM01.2 Low/Med			
Instrument: 5975-E			
Column: Rtx-VMS 30 m 0.250 mm			
Temp. Program: 45° C (5.0 min) 15°C /min ramp to 200°C (0 min) 30°C /min ramp to 230°C (2.67 min). Run Time = 19.0 min.			
Carrier Gas: Helium			
Purge/Trap: OI Analytical Eclipse 4660/#10 Trap; Varian Archon Autosampler.			
Purge/Trap Conditions: Purge Time: 11 min. (1 min. dry purge); Desorb Time: 0.8 min. @ 190° C.			
Purge Gas: Helium			
Purge Flow: ~35 mL/min. Sample heated to 40° C.			
Trap Temp: < 35° C			
Initial Calibration Curve: The calibration curve is ECLPSB2 analyzed on 5-15-15.			
Initial Calibration Standards: VSTD005SE, 010SE, 050SE, 100SE, 200SE - (Low Soil/Water Curve) - 27660, 28016, 28017, 28019.			
Calibration Verification Standards VSTD050SX - 27660, 28018, 28019.			
Balance I.D.: 40090067			
All analyses meet established QC acceptance criteria. Results reported in units of ug/Kg. QQC			

DATACHEM LABORATORIES - GC\MS VOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-E

FILE NAME	DATE & TIME INJECTED	OP	METHOD	SPAR GER#	RUN LENGTH	DIL FAC	MATRIX	SAMPLE	(STANDARD) (SOLUTION)		ISTD #1 AREA
EO40BFB	05/15/2015 17:07	CQC	ECLPSB2	1	19.00	1	SOIL	BFBSE	50 ng BFB		0
	COMMENTS: 2.0 uL of 27660										
EO41S05	05/15/2015 17:38	CQC	ECLPSB2	2	19.00	1	SOIL	VSTD005SE	VSTD005SE	5.0	1747999
	COMMENTS: 2.5 uL of 28016; 0.25 uL o f28017, 19; 2.0 uL										
EO42S10	05/15/2015 18:02	CQC	ECLPSB2	3	19.00	1	SOIL	VSTD010SE	VSTD010SE	10 u	1700149
	COMMENTS: 2.5 uL of 28016; 0.5 uL o f28017, 19										
EO43S50	05/15/2015 18:26	CQC	ECLPSB2	4	19.00	1	SOIL	VSTD050SE	VSTD050SE	50 u	1803338
	COMMENTS: 2.5 uL of 28016; 2.5 uL o f28017, 19										
EO44S100	05/15/2015 18:50	CQC	ECLPSB2	5	19.00	1	SOIL	VSTD100SE	VSTD100SE	100	1812659
	COMMENTS: 2.5 uL of 28016; 5.0 uL o f28017, 19										
EO45S200	05/15/2015 19:15	CQC	ECLPSB2	6	19.00	1	SOIL	VSTD200SE	VSTD200SE	200	1916360
	COMMENTS: 2.5 uL of 28016; 10 uL o f28017, 19										
EO46BLK	05/15/2015 19:39	CQC	ECLPSB2	7	19.00	1	SOIL	System Blank			1635646
	COMMENTS: 2.5 uL of 28016										
EO47BLK	05/15/2015 20:03	CQC	ECLPSB2	8	19.00	1	SOIL	System Blank			1552812
	COMMENTS: 2.5 uL of 28016										
EO48BLK	05/15/2015 20:28	CQC	ECLPSB2	9	19.00	1	SOIL	System Blank			1490389
	COMMENTS: 2.5 uL of 28016										
EO49BLK	05/15/2015 20:52	CQC	ECLPSB2	10	19.00	1	SOIL	System Blank			1083191
	COMMENTS: 2.5 uL of 28016										

DATACHEM LABORATORIES - GC\MS VOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-E

FILE NAME	DATE & TIME INJECTED	OP	METHOD	SPAR GER#	RUN LENGTH	DIL FAC	MATRIX	SAMPLE	(STANDARD) (SOLUTION)	ISTD AREA
EO50BFB	05/26/2015 19:05	CQC	ECLPSB2	1	19.00	1	SOIL	BFBS4	50 ng BFB	
	COMMENTS: 2.0 uL of 27660									
EO51S50	05/26/2015 19:30	CQC	ECLPSB2	2	19.00	1	SOIL	VSTD050S7	VSTD050S7 50 u	16398
	COMMENTS: 2.5 uL of 28018, 19; 2.0 uL of 27660									
EO52BLK	05/26/2015 19:54	CQC	ECLPSB2	3	19.00	1	SOIL	XXXXXX	VBLKS4	15079
	COMMENTS: 2.5 uL of 28018									
EO53R010	05/26/2015 20:24	CQC	ECLPSB2	4	19.00	1	SOIL	1514169010	F9L42	13149
	COMMENTS: 1514169 5.07 g									
EO54R011	05/26/2015 20:48	CQC	ECLPSB2	5	19.00	1	SOIL	1514169011RE	F9L43RE	13010
	COMMENTS: 1514169 4.17 g									
EO55R015	05/26/2015 21:12	CQC	ECLPSB2	6	19.00	1	SOIL	1514169015	F9L49	14004
	COMMENTS: 1514169 6.17 g									
EO56HBLK	05/26/2015 21:36	CQC	ECLPSB2	7	19.00	1	SOIL	XXXXXX	VHBLKS1	13511
	COMMENTS: 2.5 uL of 28018									
EO57C001	05/26/2015 22:01	CQC	ECLPSB2	8	19.00	1	SOIL	1514293001	F9L58	13496
	COMMENTS: 1514293 5.62 g									
EO58C002	05/26/2015 22:25	CQC	ECLPSB2	9	19.00	1	SOIL	1514293002	F9L59	14147
	COMMENTS: 1514293 5.61 g									
EO59C003	05/26/2015 22:49	CQC	ECLPSB2	10	19.00	1	SOIL	1514293003	F9L60	14178
	COMMENTS: 1514293 5.59 g									
EO60C004	05/26/2015 23:12	CQC	ECLPSB2	11	19.00	1	SOIL	1514293004	F9L61	13637
	COMMENTS: 1514293 6.04 g									
EO61C005	05/26/2015 23:36	CQC	ECLPSB2	12	19.00	1	SOIL	1514293005	F9L62	14088
	COMMENTS: 1514293 6.71 g									
EO62C006	05/27/2015 00:01	CQC	ECLPSB2	13	19.00	1	SOIL	1514293006	F9L63	13058
	COMMENTS: 1514293 5.75 g									
EO63C007	05/27/2015 00:25	CQC	ECLPSB2	14	19.00	1	SOIL	1514293007	F9L64	12274
	COMMENTS: 1514293 4.88 g									
EO64C008	05/27/2015 00:49	CQC	ECLPSB2	15	19.00	1	SOIL	1514293008	F9L65	13367
	COMMENTS: 1514293 4.99 g									
EO65C009	05/27/2015 01:13	CQC	ECLPSB2	16	19.00	1	SOIL	1514293009	F9L66	13768
	COMMENTS: 1514293 5.19 g									
EO66C012	05/27/2015 01:37	CQC	ECLPSB2	17	19.00	1	SOIL	1514293012	F9L67	12099
	COMMENTS: 1514293 6.03 g									
EO67C013	05/27/2015 02:02	CQC	ECLPSB2	18	19.00	1	SOIL	1514293013	F9L68	14039
	COMMENTS: 1514293 6.49 g									
EO68C014	05/27/2015 02:26	CQC	ECLPSB2	19	19.00	1	SOIL	1514293014	F9L69	13520
	COMMENTS: 1514293 6.02 g									
EO69C015	05/27/2015 02:50	CQC	ECLPSB2	20	19.00	1	SOIL	1514293015	F9L70	13226
	COMMENTS: 1514293 5.56 g									
EO70C016	05/27/2015 03:14	CQC	ECLPSB2	21	19.00	1	SOIL	1514293016	F9L71	14165
	COMMENTS: 1514293 6.24 g									
EO71F50	05/27/2015 03:38	CQC	ECLPSB2	22	19.00	1	SOIL	VSTD050S8	VSTD050S8 50 u	15176
	COMMENTS: 2.5 uL of 28018, 19									
EO72F50	05/27/2015 04:02	CQC	ECLPSB2	23	19.00	1	SOIL	VSTD050SX	VSTD050SX 50 u	15441
	COMMENTS: 2.5 uL of 28018, 19									
EO73F50	05/27/2015 04:26	CQC	ECLPSB2	24	19.00	1	SOIL	VSTD050SX	VSTD050SX 50 u	15977
	COMMENTS: 2.5 uL of 28018, 19									

DATACHEM LABORATORIES - GC\MS VOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-E

FILE NAME	DATE & TIME INJECTED	OP	METHOD	SPAR GER#	RUN LENGTH	DIL FAC	MATRIX	SAMPLE	(STANDARD) (SOLUTION)	ISTD AREA
EO74BFB	05/27/2015 08:46	RJH	ECLPSB2	1	19.00	1	SOIL	BFBW1	50 ng BFB	
	COMMENTS: 2.0 uL of 27660									
EO75S50	05/27/2015 09:10	RJH	ECLPSB2	2	19.00	1	SOIL	VSTD050S9	VSTD050S9	15315
	COMMENTS: 2.5 uL of 28016, 28017, 28019; 2.0 uL of 2766									
EO92S50	05/27/2015 19:12	RJH	ECLPSB2	13	19.00	1	SOIL	VSTD050SB	VSTD050SB	14540
	COMMENTS: 2.5 uL of 28016, 28017, 28019									
EO93BLK	05/27/2015 19:36	CQC	ECLPSB2	14	19.00	1	SOIL	XXXXXX	VBLKS5	14347
	COMMENTS: 2.5 uL of 28016, 28017									
EO94C017	05/27/2015 20:05	CQC	ECLPSB2	15	19.00	1	SOIL	1514293017	F9L72	14584
	COMMENTS: 1514293 6.25 g									
EO95C018	05/27/2015 20:29	CQC	ECLPSB2	16	19.00	1	SOIL	1514293018	F9L73	14877
	COMMENTS: 1514293 5.99 g									
EO96C019	05/27/2015 20:53	CQC	ECLPSB2	17	19.00	1	SOIL	1514293019	F9L75	13210
	COMMENTS: 1514293 5.70 g									
EO97C020	05/27/2015 21:18	CQC	ECLPSB2	18	19.00	1	SOIL	1514293020	F9L77	13771
	COMMENTS: 1514293 5.71 g									
EO98C021	05/27/2015 21:42	CQC	ECLPSB2	19	19.00	1	SOIL	1514293021	F9L78	14650
	COMMENTS: 1514293 5.35 g									
EO99C022	05/27/2015 22:06	CQC	ECLPSB2	20	19.00	1	SOIL	1514293022	F9L79	13905
	COMMENTS: 1514293 6.22 g									
EP00R012	05/27/2015 22:30	CQC	ECLPSB2	21	19.00	1	SOIL	1514293012RE	F9L67RE	9791
	COMMENTS: 1514293 5.04 g									
EP01HBLK	05/27/2015 22:54	CQC	ECLPSB2	22	19.00	1	SOIL	XXXXXX	VHBLKS1	12851
	COMMENTS: 2.5 uL of 28016, 28017									
EP02C001	05/27/2015 23:19	CQC	ECLPSB2	23	19.00	1	SOIL	1514180001	F9L53	14010
	COMMENTS: 1514180 5.21 g									
EP03C001	05/27/2015 23:43	CQC	ECLPSB2	24	19.00	1	SOIL	1514301001	F9L76	14185
	COMMENTS: 1514301 5.79 g									
EP04C004	05/28/2015 00:07	CQC	ECLPSB2	25	19.00	1	SOIL	1514301004	F9L80	13558
	COMMENTS: 1514301 5.59 g									
EP05C005	05/28/2015 00:31	CQC	ECLPSB2	26	19.00	1	SOIL	1514301005	F9L81	
	COMMENTS: 1514301 5.31 g									
EP06C006	05/28/2015 00:55	CQC	ECLPSB2	27	19.00	1	SOIL	1514301006	F9L82	14112
	COMMENTS: 1514301 5.68 g									
EP07F50	05/28/2015 01:19	CQC	ECLPSB2	28	19.00	1	SOIL	VSTD050SX	VSTD050SX	15103
	COMMENTS: 2.5 uL of 28016, 28017, 28019									
EP08F50	05/28/2015 01:43	CQC	ECLPSB2	29	19.00	1	SOIL	VSTD050SX	VSTD050SX	15443
	COMMENTS: 2.5 uL of 28016, 28017, 28019									
EP09F50	05/28/2015 02:07	CQC	ECLPSB2	30	19.00	1	SOIL	VSTD050S0	VSTD050S0	15343
	COMMENTS: 2.5 uL of 28016, 28017, 28019									

STANDARD REPORT

Working Standard - 4-BFB

4-BFB			Description - 4-Bromofluorobenzene
Standard: 27660	Created By: C. Coleman	Amount: 5 mL	
MFG:	Create Date: 04/06/2015	Expires: 06/07/2015	
MFG Lot: CH-3248	Lab Lot: 4-BFB CH-3248	Usable: Yes	
Part ID:			

Pos.	Analyte	Name	Concentration
1	460-00-4	4-Bromofluorobenzene	25 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
22119	BFB	Bromofluorobenzene Stock	BFB CH-3248	62.5 uL	11/30/2015
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	4.9375 mL	12/05/2025

STANDARD REPORT

Constituent

Stock Standard - BFB

BFB			Description - Bromofluorobenzene Stock
Standard: 22119	Created By: C. Coleman	Amount:	
MFG: Ultra Scientific	Create Date: 1/22/2014	Expires: 11/30/2015	
MFG Lot: CH-3248	Lab Lot: BFB CH-3248	Usable: Yes	
Part ID:			

Pos.	Analyte	Name	Concentration
1	460-00-4	4-Bromofluorobenzene	2000 ug/mL

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol			Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman	Amount: 235 mL	
MFG: B&J	Create Date: 12/5/2014	Expires: 12/5/2025	
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239	Usable: Yes	
Part ID:			

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Working Standard - CLPIstdOnly

CLPIstdOnly			Description - CLP Internal Standard Only
Standard: 28016	Created By: C. Coleman	Amount: 2 mL	
MFG:	Create Date: 05/11/2015	Expires: 06/12/2015	
MFG Lot:	Lab Lot: CLP Istd Only	Usable: Yes	
Part ID:			

Pos.	Analyte	Name	Concentration
1	540-36-3	1,4-Difluorobenzene	100 ug/mL
2	3114-55-4	Chlorobenzene-d5	100 ug/mL
3	3855-82-1	1,4-Dichlorobenzene-d4	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
13356	CLP ISTD	EPA CLP Istd Stock	CLP Istd 080811	80 uL	08/08/2016
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.92 mL	12/05/2025

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol		Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman	Amount: 235 mL
MFG: B&J	Create Date: 12/5/2014	Expires: 12/5/2025
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP ISTD

CLP ISTD		Description - EPA CLP Istd Stock
Standard: 13356	Created By: C. Coleman	Amount:
MFG: ABSOLUTE STANDARDS,	Create Date: 8/8/2011	Expires: 8/8/2016
MFG Lot: 080811	Lab Lot: CLP Istd 080811	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	540-36-3	1,4-Difluorobenzene	2500 ug/mL
2	3114-55-4	Chlorobenzene-d5	2500 ug/mL
3	3855-82-1	1,4-Dichlorobenzene-d4	2500 ug/mL

STANDARD REPORT

Working Standard - CLPDMCOnly

CLPDMCOnly		Description - CLP DMC Only
Standard: 28017	Created By: C. Coleman	Amount: 2 mL
MFG:	Create Date: 05/11/2015	Expires: 06/12/2015
MFG Lot:	Lab Lot: CLP DMC Only	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	19199-91-8	Chloroethane-d5	100 ug/mL
2	6745-35-3	Vinyl Chloride-d3	100 ug/mL
3	17647-74-4	1,4-Dioxane-d8	2000 ug/mL
4	1076-43-3	Benzene-d6	100 ug/mL
5	865-49-6	Chloroform-d	100 ug/mL
6	2199-69-1	1,2-Dichlorobenzene-d4	100 ug/mL
7	17060-07-0	1,2-Dichloroethane-d4	100 ug/mL
8	22280-73-5	1,1-Dichloroethene-d2	100 ug/mL
9	78-87-5(d6)	1,2-Dichloropropane-d6	100 ug/mL
10	93951-86-1	trans-1,3-Dichloropropene-d4	100 ug/mL
11	33685-54-0	1,1,2,2-Tetrachloroethane-d2	100 ug/mL
12	2037-26-5	Toluene-d8	100 ug/mL
13	24313-50-6	2-Butanone-d5	200 ug/mL
14	4840-82-8	2-Hexanone-d5	200 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21489	CLP 14Dioxd8	EPA CLP 1,4-Dioxane-d8 Stock	CLP 14Dioxd8 091212	128 uL	09/12/2015
22415	CLP DMC	EPA CLP DMC Liquids Stock	CLP DMC 011614	100 uL	01/16/2017
26068	CLP DMC KET	EPA CLP DMC Ketones Stock	CLP DMC Ket 080414	160 uL	08/04/2017
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.512 mL	12/05/2025
27283	CLP DMC Gas	EPA CLP DMC Gases Stock	CLP DMC Gas 022315	100 uL	02/23/2018

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol		Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman	Amount: 235 mL
MFG: B&J	Create Date: 12/5/2014	Expires: 12/5/2025
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP 14Dioxd8

CLP 14Dioxd8	Description - EPA CLP 1,4-Dioxane-d8 Stock	
Standard: 21489	Created By: C. Coleman	Amount:
MFG: Absolute Standards, Inc.	Create Date: 12/2/2013	Expires: 9/12/2015
MFG Lot: 091212	Lab Lot: CLP 14Dioxd8 091212	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	17647-74-4	1,4-Dioxane-d8	31250 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC Gas

CLP DMC Gas	Description - EPA CLP DMC Gases Stock	
Standard: 27293	Created By: C. Coleman	Amount:
MFG: Absolute Standards, Inc.	Create Date: 3/3/2015	Expires: 2/23/2018
MFG Lot: 022315	Lab Lot: CLP DMC Gas 022315	Usable: Yes
Part ID: 94156		

Pos.	Analyte	Name	Concentration
1	19199-91-8	Chloroethane-d5	2000 ug/mL
2	6745-35-3	Vinyl Chloride-d3	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC

CLP DMC	Description - EPA CLP DMC Liquids Stock	
Standard: 22415	Created By: C. Coleman	Amount:
MFG: Absolute Standards, Inc.	Create Date: 2/11/2014	Expires: 1/16/2017
MFG Lot: 011614	Lab Lot: CLP DMC 011614	Usable: Yes
Part ID: 94155		

Pos.	Analyte	Name	Concentration
1	1076-43-3	Benzene-d6	2000 ug/mL
2	865-49-6	Chloroform-d	2000 ug/mL
3	2199-69-1	1,2-Dichlorobenzene-d4	2000 ug/mL
4	17060-07-0	1,2-Dichloroethane-d4	2000 ug/mL
5	22280-73-5	1,1-Dichloroethene-d2	2000 ug/mL
6	78-87-5(d6)	1,2-Dichloropropane-d6	2000 ug/mL
7	93951-86-1	trans-1,3-Dichloropropene-d4	2000 ug/mL
8	33685-54-0	1,1,2,2-Tetrachloroethane-d2	2000 ug/mL
9	2037-26-5	Toluene-d8	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC KET

CLP DMC KET	Description - EPA CLP DMC Ketones Stock	
Standard: 26068	Created By: C. Coleman	Amount:
MFG: Absolute Standards, Inc.	Create Date: 11/20/2014	Expires: 8/4/2017
MFG Lot: 080414	Lab Lot: CLP DMC Ket 080414	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	24313-50-6	2-Butanone-d5	2500 ug/mL
2	4840-82-8	2-Hexanone-d5	2500 ug/mL

STANDARD REPORT

Working Standard - CLPIstd/DMC

CLPIstd/DMC	Description - CLP Internal Standard/DMC
Standard: 28018	Created By: C. Coleman
MFG:	Create Date: 05/11/2015
MFG Lot:	Lab Lot: CLP Istd/DMC
Part ID:	
	Amount: 2 mL
	Expires: 06/12/2015
	Usable: Yes

Pos.	Analyte	Name	Concentration
1	540-36-3	1,4-Difluorobenzene	100 ug/mL
2	3114-55-4	Chlorobenzene-d5	100 ug/mL
3	3855-82-1	1,4-Dichlorobenzene-d4	100 ug/mL
4	19199-91-8	Chloroethane-d5	100 ug/mL
5	6745-35-3	Vinyl Chloride-d3	100 ug/mL
6	17647-74-4	1,4-Dioxane-d8	2000 ug/mL
7	1076-43-3	Benzene-d6	100 ug/mL
8	865-49-6	Chloroform-d	100 ug/mL
9	2199-69-1	1,2-Dichlorobenzene-d4	100 ug/mL
10	17060-07-0	1,2-Dichloroethane-d4	100 ug/mL
11	22280-73-5	1,1-Dichloroethene-d2	100 ug/mL
12	76-87-5(d6)	1,2-Dichloropropane-d6	100 ug/mL
13	93951-86-1	trans-1,3-Dichloropropene-d4	100 ug/mL
14	33685-54-0	1,1,2,2-Tetrachloroethane-d2	100 ug/mL
15	2037-26-5	Toluene-d8	100 ug/mL
16	24313-50-6	2-Butanone-d5	200 ug/mL
17	4840-82-8	2-Hexanone-d5	200 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
13356	CLP ISTD	EPA CLP Istd Stock	CLP Istd 080811	80 uL	08/08/2016
21489	CLP 14Dioxd8	EPA CLP 1,4-Dioxane-d8 Stock	CLP 14Dioxd8 091212	128 uL	09/12/2015
22415	CLP DMC	EPA CLP DMC Liquids Stock	CLP DMC 011614	100 uL	01/16/2017
26058	CLP DMC KET	EPA CLP DMC Ketones Stock	CLP DMC Ket 080414	160 uL	08/04/2017
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.432 mL	12/05/2025
27293	CLP DMC Gas	EPA CLP DMC Gases Stock	CLP DMC Gas 022315	100 uL	02/23/2018

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol	Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman
MFG: B&J	Create Date: 12/5/2014
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239
Part ID:	
	Amount: 235 mL
	Expires: 12/5/2025
	Usable: Yes

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP ISTD

CLP ISTD	Description - EPA CLP Istd Stock
Standard: 13356	Created By: C. Coleman
MFG: ABSOLUTE STANDARDS,	Create Date: 8/8/2011
MFG Lot: 080811	Lab Lot: CLP Istd 080811
Part ID:	
	Amount:
	Expires: 8/8/2016
	Usable: Yes

Pos.	Analyte	Name	Concentration
1	540-36-3	1,4-Difluorobenzene	2500 ug/mL
2	3114-55-4	Chlorobenzene-d5	2500 ug/mL
3	3855-82-1	1,4-Dichlorobenzene-d4	2500 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP 14Dioxd8

CLP 14Dioxd8	Description - EPA CLP 1,4-Dioxane-d8 Stock
Standard: 21489	Created By: C. Coleman
MFG: Absolute Standards, Inc.	Create Date: 12/2/2013
MFG Lot: 091212	Lab Lot: CLP 14Dioxd8 091212
Part ID:	
	Amount:
	Expires: 9/12/2015
	Usable: Yes

Pos.	Analyte	Name	Concentration
1	17647-74-4	1,4-Dioxane-d8	31250 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC Gas

CLP DMC Gas	Description - EPA CLP DMC Gases Stock
Standard: 27293	Created By: C. Coleman
MFG: Absolute Standards, Inc.	Create Date: 3/3/2015
MFG Lot: 022315	Lab Lot: CLP DMC Gas 022315
Part ID: 94166	

Amount:
Expires: 2/23/2018
Usable: Yes

Pos.	Analyte	Name	Concentration
1	19199-91-8	Chloroethane-d5	2000 ug/mL
2	6745-35-3	Vinyl Chloride-d3	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC

CLP DMC	Description - EPA CLP DMC Liquids Stock
Standard: 22415	Created By: C. Coleman
MFG: Absolute Standards, Inc.	Create Date: 2/11/2014
MFG Lot: 011614	Lab Lot: CLP DMC 011614
Part ID: 94155	

Amount:
Expires: 1/16/2017
Usable: Yes

Pos.	Analyte	Name	Concentration
1	1076-43-3	Benzene-d6	2000 ug/mL
2	865-49-6	Chloroform-d	2000 ug/mL
3	2199-69-1	1,2-Dichlorobenzene-d4	2000 ug/mL
4	17060-07-0	1,2-Dichloroethane-d4	2000 ug/mL
5	22280-73-5	1,1-Dichloroethene-d2	2000 ug/mL
6	78-87-5(d6)	1,2-Dichloropropane-d6	2000 ug/mL
7	93951-86-1	trans-1,3-Dichloropropene-d4	2000 ug/mL
8	33685-54-0	1,1,2,2-Tetrachloroethane-d2	2000 ug/mL
9	2037-26-5	Toluene-d8	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP DMC KET

CLP DMC KET	Description - EPA CLP DMC Ketones Stock
Standard: 26068	Created By: C. Coleman
MFG: Absolute Standards, Inc.	Create Date: 11/20/2014
MFG Lot: 080414	Lab Lot: CLP DMC Ket 080414
Part ID:	

Amount:
Expires: 8/4/2017
Usable: Yes

Pos.	Analyte	Name	Concentration
1	24313-50-6	2-Butanone-d5	2500 ug/mL
2	4840-82-8	2-Hexanone-d5	2500 ug/mL

STANDARD REPORT

Working Standard - CLP VOA

CLP VOA	Description - CLP VOA
Standard: 28019	Created By: C. Coleman
MFG:	Create Date: 05/11/2015
MFG Lot:	Lab Lot: CLP VOA
Part ID:	

Amount: 2 mL
Expires: 06/12/2015
Usable: Yes

Pos.	Analyte	Name	Concentration
1	123-91-1	1,4-Dioxane	2000 ug/mL
2	71-43-2	Benzene	100 ug/mL
3	108-88-3	Toluene	100 ug/mL
4	100-41-4	Ethyl benzene	100 ug/mL
5	95-47-6	o-Xylene	100 ug/mL
6	108-38-3	m-Xylene	50 ug/mL
7	106-42-3	p-Xylene	50 ug/mL
8	75-27-4	Bromodichloromethane	100 ug/mL
9	124-48-1	Dibromochloromethane	100 ug/mL
10	75-35-4	1,1-Dichloroethene	100 ug/mL
11	156-59-2	cis-1,2-Dichloroethene	100 ug/mL
12	156-60-5	trans-1,2-Dichloroethene	100 ug/mL
13	75-09-2	Methylene chloride	100 ug/mL
14	74-97-5	Bromochloromethane	100 ug/mL
15	75-25-2	Bromoform	100 ug/mL
16	56-23-5	Carbon tetrachloride	100 ug/mL
17	67-66-3	Chloroform	100 ug/mL
18	75-34-3	1,1-Dichloroethane	100 ug/mL
19	127-18-4	Tetrachloroethene	100 ug/mL
20	71-55-6	1,1,1-Trichloroethane	100 ug/mL
21	96-12-8	1,2-Dibromo-3-Chloropropane	100 ug/mL
22	106-93-4	1,2-Dibromoethane	100 ug/mL
23	107-06-2	1,2-Dichloroethane	100 ug/mL
24	78-87-5	1,2-Dichloropropane	100 ug/mL
25	10061-01-5	cis-1,3-Dichloropropene	100 ug/mL
26	10061-02-6	trans-1,3-Dichloropropene	100 ug/mL
27	79-34-5	1,1,2,2-Tetrachloroethane	100 ug/mL
28	79-00-5	1,1,2-Trichloroethane	100 ug/mL
29	79-01-6	Trichloroethene	100 ug/mL
30	108-90-7	Chlorobenzene	100 ug/mL
31	95-50-1	1,2-Dichlorobenzene	100 ug/mL
32	541-73-1	1,3-Dichlorobenzene	100 ug/mL
33	106-46-7	1,4-Dichlorobenzene	100 ug/mL
34	98-82-8	Cumene	100 ug/mL
35	100-42-5	Styrene	100 ug/mL
36	87-61-6	1,2,3-Trichlorobenzene	100 ug/mL
37	120-82-1	1,2,4-Trichlorobenzene	100 ug/mL
38	75-15-0	Carbon disulfide	100 ug/mL
39	110-82-7	Cyclohexane	100 ug/mL

Working Standard - CLP VOA

CLP VOA — Description - CLP VOA

Standard: 28019 | Created By: C. Coleman | Amount: 2 mL
MFG: | Create Date: 05/11/2015 | Expires: 06/12/2015
MFG Lot: | Lab Lot: CLP VOA | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
40	79-20-9	Methyl Acetate	100 ug/mL
41	108-87-2	Methylcyclohexane	100 ug/mL
42	1634-04-4	Methyl t-butyl ether	100 ug/mL
43	76-13-1	Freon 113	100 ug/mL
44	67-64-1	Acetone	200 ug/mL
45	78-93-3	Methyl ethyl ketone	200 ug/mL
46	108-10-1	Methyl isobutyl ketone	200 ug/mL
47	591-78-6	2-Hexanone	200 ug/mL
48	75-71-8	Dichlorodifluoromethane	100 ug/mL
49	74-87-3	Methyl chloride	100 ug/mL
50	75-01-4	Vinyl chloride	100 ug/mL
51	74-83-9	Bromomethane	100 ug/mL
52	75-00-3	Ethyl chloride	100 ug/mL
53	75-69-4	Freon 11	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
19269	CLP 14Dioxan	CLP 1,4-Dioxane Stock	CLP 14Diox 121410	200 uL	12/14/2016
20026	CLP VOA	EPA CLP VOA Stock	CLP VOA 040213	100 uL	04/02/2016
22414	CLP Ketones	EPA CLP Ketones Stock	CLP Ketones 092713	20 uL	09/27/2016
23090	CLP Gases	EPA CLP Gases Stock	CLP Gases 010213	100 uL	01/02/2016
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.58 mL	12/05/2025

Stock Standard - CLP VOA

CLP VOA — Description - EPA CLP VOA Stock

Standard: 20026 | Created By: J. Gress | Amount: 2
MFG: ABSOLUTE STANDARDS, | Create Date: 7/22/2013 | Expires: 4/2/2016
MFG Lot: 040213 | Lab Lot: CLP VOA 040213 | Usable: Yes
Part ID: 94159

Pos.	Analyte	Name	Concentration
1	71-43-2	Benzene	2000 ug/mL
2	108-88-3	Toluene	2000 ug/mL
3	100-41-4	Ethyl benzene	2000 ug/mL
4	95-47-6	o-Xylene	2000 ug/mL
5	108-38-3	m-Xylene	1000 ug/mL
6	106-42-3	p-Xylene	1000 ug/mL
7	75-27-4	Bromodichloromethane	2000 ug/mL
8	124-48-1	Dibromochloromethane	2000 ug/mL
9	75-35-4	1,1-Dichloroethene	2000 ug/mL
10	156-59-2	cis-1,2-Dichloroethene	2000 ug/mL
11	156-60-5	trans-1,2-Dichloroethene	2000 ug/mL
12	75-09-2	Methylene chloride	2000 ug/mL
13	74-97-5	Bromochloromethane	2000 ug/mL
14	75-25-2	Bromoform	2000 ug/mL
15	56-23-5	Carbon tetrachloride	2000 ug/mL
16	67-66-3	Chloroform	2000 ug/mL
17	75-34-3	1,1-Dichloroethane	2000 ug/mL
18	127-18-4	Tetrachloroethene	2000 ug/mL
19	71-55-6	1,1,1-Trichloroethane	2000 ug/mL
20	96-12-8	1,2-Dibromo-3-Chloropropane	2000 ug/mL
21	106-93-4	1,2-Dibromoethane	2000 ug/mL
22	107-06-2	1,2-Dichloroethane	2000 ug/mL
23	78-87-5	1,2-Dichloropropane	2000 ug/mL
24	10061-01-5	cis-1,3-Dichloropropene	2000 ug/mL
25	10061-02-6	trans-1,3-Dichloropropene	2000 ug/mL
26	79-34-5	1,1,2,2-Tetrachloroethane	2000 ug/mL
27	79-00-5	1,1,2-Trichloroethane	2000 ug/mL
28	79-01-6	Trichloroethene	2000 ug/mL
29	108-90-7	Chlorobenzene	2000 ug/mL
30	95-50-1	1,2-Dichlorobenzene	2000 ug/mL
31	541-73-1	1,3-Dichlorobenzene	2000 ug/mL
32	106-46-7	1,4-Dichlorobenzene	2000 ug/mL
33	98-82-8	Cumene	2000 ug/mL
34	100-42-5	Styrene	2000 ug/mL
35	87-61-6	1,2,3-Trichlorobenzene	2000 ug/mL
36	120-82-1	1,2,4-Trichlorobenzene	2000 ug/mL
37	75-15-0	Carbon disulfide	2000 ug/mL
38	110-82-7	Cyclohexane	2000 ug/mL

Stock Standard - CLP VOA

CLP VOA — Description - EPA CLP VOA Stock

Standard: 20026 | Created By: J. Gress | Amount: 2
MFG: ABSOLUTE STANDARDS, | Create Date: 7/22/2013 | Expires: 4/2/2016
MFG Lot: 040213 | Lab Lot: CLP VOA 040213 | Usable: Yes
Part ID: 94159

Pos.	Analyte	Name	Concentration
39	79-20-9	Methyl Acetate	2000 ug/mL
40	108-87-2	Methylcyclohexane	2000 ug/mL
41	1634-04-4	Methyl t-butyl ether	2000 ug/mL
42	76-13-1	Freon 113	2000 ug/mL

Solvent Standard - Methanol

Methanol — Description - Purge & Trap Methanol Solvent

Standard: 26311 | Created By: C. Coleman | Amount: 235 mL
MFG: B&J | Create Date: 12/5/2014 | Expires: 12/5/2025
MFG Lot: DJ-239 | Lab Lot: P&T MeOH DJ-239 | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP Ketones

CLP Ketones	Description - EPA CLP Ketones Stock

Standard: 22414 | Created By: C. Coleman | Amount:
MFG: ABSOLUTE STANDARDS, | Create Date: 2/11/2014 | Expires: 9/27/2016
MFG Lot: 092713 | Lab Lot: CLP Ketones 092713 | Usable: Yes
Part ID: 82492

Pos.	Analyte	Name	Concentration
1	67-64-1	Acetone	20000 ug/mL
2	78-93-3	Methyl ethyl ketone	20000 ug/mL
3	108-10-1	Methyl isobutyl ketone	20000 ug/mL
4	591-78-6	2-Hexanone	20000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP Gases

CLP Gases	Description - EPA CLP Gases Stock

Standard: 23090 | Created By: C. Coleman | Amount:
MFG: Absolute Standards, Inc. | Create Date: 4/1/2014 | Expires: 1/2/2016
MFG Lot: 010213 | Lab Lot: CLP Gases 010213 | Usable: Yes
Part ID: 30058

Pos.	Analyte	Name	Concentration
1	75-71-8	Dichlorodifluoromethane	2000 ug/mL
2	74-87-3	Methyl chloride	2000 ug/mL
3	75-01-4	Vinyl chloride	2000 ug/mL
4	74-83-9	Bromomethane	2000 ug/mL
5	75-00-3	Ethyl chloride	2000 ug/mL
6	75-69-4	Freon 11	2000 ug/mL

STANDARD REPORT

Constituent

Stock Standard - CLP 14Dioxan

CLP 14Dioxan	Description - CLP 1,4-Dioxane Stock

Standard: 19269 | Created By: C. Coleman | Amount:
MFG: Absolute Standards, Inc. | Create Date: 12/14/2010 | Expires: 12/14/2015
MFG Lot: 121410 | Lab Lot: CLP 14Diox 121410 | Usable: Yes
Part ID: 90577

Pos.	Analyte	Name	Concentration
1	123-91-1	1,4-Dioxane	20000 ug/mL

STANDARD REPORT

Working Standard - CLP M.S.

CLP M.S.	Description - CLP Matrix Spike

Standard: 28020 | Created By: C. Coleman | Amount: 2 mL
MFG: Ultra Scientific | Create Date: 05/11/2015 | Expires: 06/12/2015
MFG Lot: CH-1788A | Lab Lot: CLP M.S. CH-1788A | Usable: Yes
Part ID:

Pos.	Analyte	Name	Concentration
1	75-35-4	1,1-Dichloroethene	100 ug/mL
2	71-43-2	Benzene	100 ug/mL
3	79-01-6	Trichloroethene	100 ug/mL
4	108-88-3	Toluene	100 ug/mL
5	108-90-7	Chlorobenzene	100 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
22428	CLP M.S.	CLP Matrix Spike Stock	CLP MS CH-1788A	200 uL	09/30/2016
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	1.8 mL	12/05/2025

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol		Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman	Amount: 235 mL
MFG: B&J	Create Date: 12/5/2014	Expires: 12/5/2025
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

STANDARD REPORT

Constituent

Stock Standard - CLP M.S.

CLP M.S.		Description - CLP Matrix Spike Stock
Standard: 22428	Created By: C. Coleman	Amount:
MFG: Ultra Scientific	Create Date: 2/12/2014	Expires: 9/30/2015
MFG Lot: CH-1788A	Lab Lot: CLP MS CH-1788A	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	75-35-4	1,1-Dichloroethene	1000 ug/mL
2	71-43-2	Benzene	1000 ug/mL
3	79-01-6	Trichloroethene	1000 ug/mL
4	108-88-3	Toluene	1000 ug/mL
5	108-90-7	Chlorobenzene	1000 ug/mL

STANDARD REPORT

Working Standard - CLP Med M.S.

CLP Med M.S.		Description - CLP Medium Level Matrix Spike
Standard: 28021	Created By: C. Coleman	Amount: 25 mL
MFG: Ultra Scientific	Create Date: 05/11/2015	Expires: 06/12/2015
MFG Lot: CH-1788A	Lab Lot: CLP Med M.S.CH-1788A	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	75-35-4	1,1-Dichloroethene	12.5 ug/mL
2	71-43-2	Benzene	12.5 ug/mL
3	79-01-6	Trichloroethene	12.5 ug/mL
4	108-88-3	Toluene	12.5 ug/mL
5	108-90-7	Chlorobenzene	12.5 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
22428	CLP M.S.	CLP Matrix Spike Stock	CLP MS CH-1788A	312.5 uL	09/30/2015
26311	Methanol	Purge & Trap Methanol Solvent	P&T MeOH DJ-239	24.6875 mL	12/05/2025

STANDARD REPORT

Constituent

Solvent Standard - Methanol

Methanol		Description - Purge & Trap Methanol Solvent
Standard: 26311	Created By: C. Coleman	Amount: 235 mL
MFG: B&J	Create Date: 12/5/2014	Expires: 12/5/2025
MFG Lot: DJ-239	Lab Lot: P&T MeOH DJ-239	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
Solvent - Analyte(s) not applicable			

ALS

STANDARD REPORT

Constituent

Stock Standard - CLP M.S.

CLP M.S.	Description - CLP Matrix Spike Stock
Standard: 22428	Created By: C. Coleman
MFG: Ultra Scientific	Create Date: 2/12/2014
MFG Lot: CH-1788A	Lab Lot: CLP MS CH-1788A
Part ID:	

Amount:
Expires: 8/30/2015
Usable: Yes

Pos.	Analyte	Name	Concentration
1	75-35-4	1,1-Dichloroethene	1000 ug/mL
2	71-43-2	Benzene	1000 ug/mL
3	79-01-6	Trichloroethene	1000 ug/mL
4	108-88-3	Toluene	1000 ug/mL
5	108-90-7	Chlorobenzene	1000 ug/mL

ALSSTANDARDS V2.3
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ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

4-Bromofluorobenzene Solution

Product Number: STS-110N
Page: 1 of 1
Lot Number: CH-3248
Lot Issue Date: 07-Oct-2011
Expiration Date: 30-Nov-2015

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
4-bromofluorobenzene	000460-00-4	RM03365	2005 ± 10 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0551.01

ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09 100 9

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William J. Leary
Quality Assurance Manager

ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

Certified Reference Material CRM

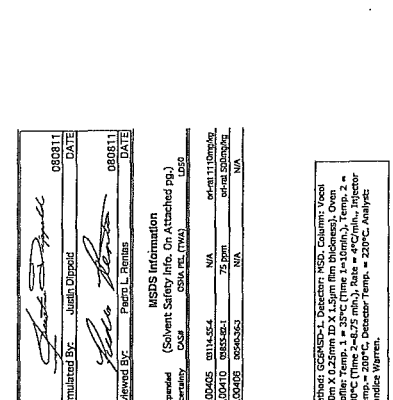
Lot #
Solvent(s): DD946 Methanol

Part Number: 20048
Lot Number: 080811
Description: CLP Volatiles - Low Concentration Internal Standard
3 components
Expiration Date: 080816
Storage: 4 °C
Nominal Concentration (µg/mL): 2500
Weight(s) shown below were combined and diluted to: 100.0 8E-05 Balance Uncertainty 0.002 Flask Uncertainty

Formulated By: Justin Dippold 080811 DATE
Reviewed By: Pedro L. Rentas 080811 DATE

Compound	Part Number	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
Chlorobenzene-d5	69	V5011P28	2500	99.3	0.2	0.25173	0.25520	2504.7	0.00405	03114-55-4	N/A	orl-rat 1110mg/kg
4-Dichlorobenzene-d4	118	1H-8486072070R1	2500	98	0.2	0.25007	0.25557	2502.9	0.00410	01855-82-1	75 ppm	orl-rat 500mg/kg
4-Chlorotoluene	1195	131105AO	2500	99	0.2	0.25249	0.25271	2502.1	0.00408	06546-36-3	N/A	N/A

TIC:20048.D



Method: GCMS-1, Detector: MSD, Column: Vocol (60m, 0.25mm ID, 1.5µm film), Oven: Program 1, Prefilter Temp. = 35°C (Time 1=10min.), Temp. 2 = 200°C (Time 2=6.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C, Analyst: Candice Warren.

MSD RT

Name	(min.)
1,4-Difluorobenzene	23.67
Chlorobenzene-d5	35.69
1,4-Dichlorobenzene-d4	45.38

20048 Lot # 080811 1 of 3 Printed: 9/7/2011, 1:55:21 PM

Analytical Reference Material ARM

Solvent(s): Methanol Lot# DK793

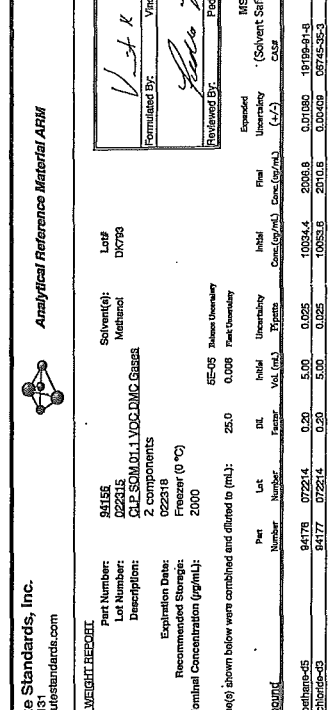
Part Number: 94156
Lot Number: 022315
Description: CLP SOM.01.1 VOC DMC Gases
2 components
Expiration Date: 022316
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
Volume(s) shown below were combined and diluted to (mL): 25.0 8E-05 Balance Uncertainty 0.008 Flask Uncertainty

Formulated By: Vincent K. Criscio, Jr. 022315 DATE
Reviewed By: Pedro L. Rentas 022315 DATE

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Uncertainty Pipette	Initial Conc.(µg/mL)	Final Conc.(µg/mL)	Expanded Uncertainty (+/-)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
Chloroethane-d5	94178	072214	0.20	5.00	0.025	10034.4	2006.8	0.01080	19199-91-8	N/A	N/A
Vinyl chloride-d3	94177	072214	0.20	5.00	0.025	10053.6	2010.6	0.00409	06745-35-3	N/A	orl-rat 500mg/kg

ELCD RT

Analyte	(min.)
Vinyl chloride-d3	6.24
Chloroethane-d5	8.33



Comments
GC/MS Analysis by Candice Warren
GC/MS-1: Column: Vocol (60m X 0.25mm X 1.5µm film thickness
Flow rates: Total flow = 165mL/min., Helium (carrier) = 10mL/min.,
Helium (make-up) = 45mL/min., Hydrogen (make-up) = 30mL/min.
Oven: Program 1 = 40°C (Time 1=10min.), Temp. 2 = 200°C (Time 2 = 1 min.),
Rate = 25°C/min., Total run time = 15 min., Injector temp. = 200°C, FID Temp. = 200°C.
FID Signal = Elite Channel 2 PID Signal = Elite Channel 2
* Standard Injection = 0.04mL Reagent Purge Valve = 1 min

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Lot # 94156

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IED WEIGHT REPORT

Part Number: 94157
Lot Number: 080414
Description: CLP SOM 01.1 DMC Ketones
2 components
Expiration Date: 080417
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2500

Lot #	Solvent(s):	
DK010	Methanol	(90%)
072414	Water	(10%)

Formulated By: Gabriel Helland — 080414 DATE
Reviewed By: Pedro L. Rentas — 080414 DATE

5E-05 Balance Uncertainty
'eight(s) shown below were combined and diluted to (mL): 100.0 — 0.006 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

ompound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
Butanone-1,1,1,3,3-d5	2557	M276P7	2500	99	0.2	0.25254	0.25268	2501.4	0.0041	24313-50-6	N/A	orl-rat 2737mg/kg
Hexanone-1,1,1,3,3-d5	2558	S166P28	2500	98.5	0.2	0.25382	0.25419	2503.6	0.0041	04840-82-8	N/A	orl-rat 2590mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector. Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1=10min.), Temp. 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. Analyst: Candice Warren.

Name	MSD RT (min.)
2-Butanone-1,1,1,3,3-d5	17.75
2-Hexanone-1,1,1,3,3-d5	31.12

25068

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CERTIFIED WEIGHT REPORT

Part Number: 94158
Lot Number: 091212
Description: CLP SOM 01.1 DMC
1,4-Dioxane-d8
Expiration Date: 091215
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 31250

Solvent(s): Lot # 51182 Methanol

Formulated By: Gabriel Helland — 091212 DATE
Reviewed By: Pedro L. Rentas — 091212 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 25.0 — 0.011 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dioxane-d8	1882	SZ1285	31250	99	0.2	0.78912	0.78925	31255.1	0.0041	17647-74-4	N/A	orl-rbt 2000mg/kg

Method GC6MSD-1: Column: Vocol (30m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. Analysis performed by Candice Warren.

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CERTIFIED WEIGHT REPORT

Part Number: 30058
Lot Number: 010213
Description: EPA Method 502/524 - Volatile Gases Mix #1
6 components
Expiration Date: 010216
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000

Solvent(s): Lot # DE097 Methanol

Formulated By: Vincent K. Criscio, Jr. — 010213 DATE
Reviewed By: Pedro L. Rentas — 010213 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to: 499.9 — 0.058 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. Bromomethane	50	01611JX	2000	99.5	0.2	1.00475	1.0069	2004.3	0.00403	00074-83-9	5 ppm (20mg/m3/8H) (skin)	orl-rat 214mg/kg
2. Chloroethane	72	00727KX	2000	99	0.2	1.00982	1.0100	2000.4	0.00405	00075-00-3	1000 ppm (2600mg/m3/8H)	N/A
3. Chloromethane	79	06908MS	2000	99.5	0.2	1.00475	1.0117	2013.8	0.00403	00074-87-3	100 ppm	orl-rat 1800mg/kg
4. Dichlorodifluoromethane	134	92-0487	2000	99	0.2	1.00982	1.0204	2020.9	0.00405	00075-71-8	1000 ppm (4950mg/m3/8H)	N/A
5. Trichlorofluoromethane	294	01823MW	2000	99	0.2	1.00982	1.0150	2010.3	0.00405	00075-69-4	1000 ppm (5600mg/m3/8H)	ipr-mus 1743mg/kg
6. Vinyl chloride	305	1281833 21306138	2000	99.5	0.2	1.00475	1.0113	2013.0	0.00403	00075-01-4	N/A	N/A

Run 9, "P30058 L010213 [2000µg/mL in MeOH]"

Run Length: 15.00 min, 8998 points at 10 points/second.
Created: Wed, Jan 2, 2013 at 5:05:03 PM.
Sampled: Sequence "123112-GC1", Method "GC1-M9".
Analyzed using Method "GC1-M9".

Comments
GC1-M9 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow = 150mL/min., Helium (carrier) = 10mL/min.,
Helium (make-up) = 40mL/min., Hydogen (make-up) = 100mL/min.,
Oven Profile: Temp. 1 = 35°C (Time 1 = 9 min.), Temp 2 = 200°C (Time 2 = 1 min.),
Rate = 5°C/min., Total run time = 15 min, Injector temp. = 200°C, PID Temp. = 200°C.
ELCD Signal = Edaq Channel 2 PID Signal = Edaq Channel 2
Standard Injection = 0.5µL, Range=4 Purge Valve = 0 min

Analyte	ELCD RT (min.)
Dichlorodifluoromethane *	5.34
Chloromethane	6.03
Vinyl chloride	6.34
Bromomethane	7.67
Chloroethane	7.93
Trichlorofluoromethane	8.76

* +/- 20%CRM

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CERTIFIED WEIGHT REPORT

Part Number: 94155
Lot Number: 011614
Description: CLP SOM 01.1 DMC Volatiles
9 components
Expiration Date: 011617
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000

Solvent(s): Lot # DG596 Methanol

Formulated By: Paul Barron — 011614 DATE
Reviewed By: Pedro L. Rentas — 011614 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 — 0.001 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. Benzene-d6	26	4605DKDK	2000	99	0.2	0.20204	0.20220	2001.6	0.0041	01076-43-3	1 ppm (8H)	N/A
2. Chloroform-d	2556	V210P1	2000	99.8	0.2	0.20042	0.20065	2002.3	0.0040	00865-49-6	N/A	orl-hmn 140mg/kg
3. 1,2-Dichlorobenzene-d4	128	PR-18853/12207DB2	2000	99	0.2	0.20204	0.20224	2002.0	0.0041	02199-69-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
4. 1,2-Dichloroethane-d4	137	V288P18	2000	99.6	0.2	0.20082	0.20100	2001.8	0.0040	17060-07-0	N/A	orl-mus 625mg/kg
5. 1,1-Dichloroethene-d2	2047	W151P5	2000	99	0.2	0.20204	0.20230	2002.6	0.0041	22280-73-5	N/A	N/A
6. 1,2-Dichloropropane-d6	2051	L283P25	2000	99.7	0.2	0.20062	0.20090	2002.8	0.0040	93952-08-0	N/A	orl-rat 1947mg/kg
7. cis,trans-1,3-Dichloropropene-d4	2052	Z181P6	2000	40.9	0.2	0.48905	0.48930	2001.0	0.0098	202656-23-3	N/A	orl-rat 470mg/kg
8. 1,1,2,2-Tetrachloroethane-d2	2053	F465P1	2000	99.6	0.2	0.20082	0.20105	2002.3	0.0040	33685-54-0	N/A	orl-rat 800mg/kg
9. Toluene-d8	282	6D-549	2000	99.5	0.2	0.20103	0.20130	2002.7	0.0041	02037-26-5	200 ppm	orl-rat 5000mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector. Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1=10min.), Temp. 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. Analyst: Candice Warren.

Name	MSD RT (min.)
1,1-Dichloroethene-d2	10.61
Chloroform-d	19.13
1,2-Dichloroethane-d4	22.20
Benzene-d6	22.36
1,2-Dichloropropane-d6	25.23
cis-1,3-Dichloropropene-d4	28.53
Toluene-d8	29.62
trans-1,3-Dichloropropene-d4	30.59
1,1,2,2-Tetrachloroethane-d2	40.08
1,2-Dichlorobenzene-d4	46.93

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CERTIFIED WEIGHT REPORT

Part Number: 94159
Lot Number: 040213
Description: CLP SOM 01.1 Volatiles
42 components
Expiration Date: 040216
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): Varied

Lot #: DH247Q1 Solvent(s): Methanol

Formulated By: Justin Dippold 040213 DATE
Reviewed By: Pedro L. Rentas 040213 DATE

5E-05 Balance Uncertainty
Volume(s) shown below were combined and diluted to (mL): 100.0 0.001 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-)	CAS#	OSHA PEL (TWA)	LD50
Benzene	93831	072910	0.10	10.00	0.006	20013.0	2001.1	0.00433	00071-43-2	1 ppm	orl-rat 4894mg/kg
Toluene	93831	072910	0.10	10.00	0.006	20019.8	2001.8	0.00420	00108-88-3	200 ppm	orl-rat 5000mg/kg
Ethyl benzene	93831	072910	0.10	10.00	0.006	20015.0	2001.3	0.00416	00100-41-4	100 ppm (435mg/m3/8H)	orl-rat>2000mg/kg
o-Xylene	93831	072910	0.10	10.00	0.006	20020.6	2001.9	0.00424	00095-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
m-Xylene	93831	072910	0.10	10.00	0.006	10008.1	1000.7	0.00420	00108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
p-Xylene	93831	072910	0.10	10.00	0.006	10009.3	1000.8	0.00420	00106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
Bromodichloromethane	30171	020712	0.10	10.00	0.006	20011.9	2001.0	0.00408	00075-27-4	N/A	orl-rat 916mg/kg
Dibromochloromethane	30171	020712	0.10	10.00	0.006	20008.1	2000.6	0.00408	00124-48-1	N/A	orl-rat 848mg/kg
cis-1,2-Dichloroethene	30171	020712	0.10	10.00	0.006	20009.2	2000.7	0.00404	00156-59-2	N/A	N/A
trans-1,2-Dichloroethene	30171	020712	0.10	10.00	0.006	20003.4	2000.1	0.00408	00156-60-5	N/A	orl-rat 1235mg/kg
Methylene chloride	30171	020712	0.10	10.00	0.006	20001.9	2000.0	0.00401	00075-09-2	500 ppm	orl-rat 2136mg/kg
1,1-Dichloroethene	32251	122112	0.10	10.00	0.006	20002.4	2000.0	0.00404	00075-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
Bromochloromethane	94170	072910	0.10	10.00	0.006	20019.7	2001.8	0.00420	00074-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg
Bromoform	94170	072910	0.10	10.00	0.006	20019.5	2001.7	0.00420	00075-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 1147mg/kg
Carbon tetrachloride	94170	072910	0.10	10.00	0.006	20019.5	2001.7	0.00418	00056-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
Chloroform	94170	072910	0.10	10.00	0.006	20019.8	2001.8	0.00420	00067-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
1,1-Dichloroethane	94170	072910	0.10	10.00	0.006	20019.4	2001.7	0.00420	00075-34-3	100 ppm	orl-rat 725mg/kg
Tetrachloroethene	94170	072910	0.10	10.00	0.006	20019.8	2001.8	0.00420	00127-18-4	5 ppm (170mg/m3/8H)(the	orl-rat 2629mg/kg
1,1,1-Trichloroethane	94170	072910	0.10	10.00	0.006	20019.5	2001.7	0.00420	00071-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
1,2-Dibromo-3-chloropropane	94171	092310	0.10	10.00	0.006	20002.6	2000.1	0.00420	00096-12-8	0.001 ppm	orl-rat 170mg/kg
1,[illegible]romoethane	94171	092310	0.10	10.00	0.006	20008.0	2000.6	0.00420	00106-93-4	20 ppm (8H)	orl-rat 108mg/kg
[illegible]loroethane	94171	092310	0.10	10.00	0.006	20004.4	2000.2	0.00416	00107-06-2	50 ppm (8H)	orl-rat 670mg/kg
1,2-[illegible]chloropropane	94171	092310	0.10	10.00	0.006	20010.2	2000.8	0.00420	00078-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
cis-1,3-Dichloropropene	94171	092310	0.10	10.00	0.006	20004.8	2000.3	0.00420	10061-01-5	N/A	N/A
trans-1,3-Dichloropropene	94171	092310	0.10	10.00	0.006	20012.1	2001.0	0.00420	10061-02-6	N/A	N/A
1,1,2,2-Tetrachloroethane	94171	092310	0.10	10.00	0.006	20004.3	2000.2	0.00420	00079-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
1,1,2-Trichloroethane	94171	092310	0.10	10.00	0.006	20005.9	2000.4	0.00424	00079-00-5	10 ppm (45mg/m3/8H)(skin	orl-rat 836mg/kg
Trichloroethene	94171	092310	0.10	10.00	0.006	20011.8	2001.0	0.00416	00079-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
Chlorobenzene	94172	092310	0.10	10.00	0.006	20009.9	2000.8	0.00420	00108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
1,2-Dichlorobenzene	94172	092310	0.10	10.00	0.006	20011.9	2001.0	0.00420	00095-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
1,3-Dichlorobenzene	94172	092310	0.10	10.00	0.006	20010.7	2000.9	0.00424	00541-73-1	N/A	ipr-mus 1062mg/kg
1,4-Dichlorobenzene	94172	092310	0.10	10.00	0.006	20012.1	2001.0	0.00420	00106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
Isopropylbenzene	94172	092310	0.10	10.00	0.006	20008.8	2000.7	0.00424	00098-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
Styrene	94172	092310	0.10	10.00	0.006	20012.2	2001.0	0.00420	00100-42-5	100 ppm	orl-rat 5000mg/kg
1,2,3-Trichlorobenzene	94172	092310	0.10	10.00	0.006	20012.2	2001.0	0.00420	00087-61-6	N/A	ipr-mus 1390mg/kg
1,2,4-Trichlorobenzene	94172	092310	0.10	10.00	0.006	20010.8	2000.9	0.00420	00120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
Carbon disulphide	94173	072910	0.10	10.00	0.006	20018.9	2001.7	0.00420	00075-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
Cyclohexane	94173	072910	0.10	10.00	0.006	20018.5	2001.6	0.00418	00110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
Methyl acetate	94173	072910	0.10	10.00	0.006	20017.0	2001.5	0.00418	00079-20-9	200 ppm (610mg/m3/8H)	orl-rbt 3705mg/kg
Methylcyclohexane	94173	072910	0.10	10.00	0.006	20019.7	2001.8	0.00420	00108-87-2	N/A	N/A
Methyl tert-butyl ether (MTBE)	94173	072910	0.10	10.00	0.006	20019.5	2001.7	0.00418	01634-04-4	N/A	orl-rat 4g/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	94173	072910	0.10	10.00	0.006	20019.7	2001.8	0.00420	00076-13-1	1000 ppm (7600mg/m3/8H	orl-rat 43g/kg

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CERTIFIED WEIGHT REPORT

Part Number: 82492
Lot Number: 092713
Description: EPA Method 8240A - Mix #2 (Concentrate)
Ketones - 4 components
Expiration Date: 092716
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 20000

Solvent(s): Lot # DG596 Methanol (90%); 083013 Water (10%)

Formulated By: Paul Barron 092713 DATE
Reviewed By: Pedro L. Rentas 092713 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to: 100.0 0.001 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. Acetone	4	09484BH	20000	99.5	0.2	2.01026	2.01120	20009.4	0.00402	00067-64-1	750 ppm	orl-rat 5800mg/kg
2. 2-Butanone (Methyl ethyl ketone)	53	4605EL	20000	99.9	0.2	2.00221	2.00310	20008.9	0.00400	00078-93-3	200 ppm (590mg/m3/8H)	orl-rat 2737mg/kg
3. 2-Hexanone	200	10714PE	20000	98	0.2	2.04103	2.04250	20014.5	0.00408	00591-78-6	100 ppm (410mg/m3/8H)	orl-rat 2590mg/kg
4. 4-Methyl-2-pentanone	210	00861PH	20000	99.5	0.2	2.01026	2.01140	20011.4	0.00402	00108-10-1	100 ppm (410mg/m3/8H)	orl-rat 2080mg/kg

Run 42, "P82492 L092713 [20mg/mL in M:W(9:1)] Dil=1:10"

Run Length: 60.00 min. 35998 points at 10 points/second.
Created: Sat, Sep 28, 2013 at 10:58:26 AM.
Sampled. Sequence "092813-GC13M1". Method "GC13-M1".
Analyzed using Method "GC13-M1".

Comments
GC13-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=200mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.).
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard Injection = 0.5µL, Range=3

Name	FID RT (min.)
Acetone	9.23
2-Butanone	15.90
4-Methyl-2-pentanone	24.84
2-Hexanone	27.89

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CERTIFIED WEIGHT REPORT

Part Number: 90577
Lot Number: 121410
Description: 1,4-Dioxane
Expiration Date: 121415
Storage: 4 °C
Nominal Concentration (µg/mL): 20000

Lot #: 50172 Solvent(s): Methanol

Formulated By: Pat Scaturchio 121410 DATE
Reviewed By: Pedro L. Rentas 121410 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to: 100.0 0.002 Flask Uncertainty

MSDS Information (Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dioxane	373	03853KE	20000	99	0.2	2.01994	2.02085	20009.0	0.0040	00123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analysis performed by Candice Warren.

TIC: [BSB4]90577.D

Scan 1370 (24.471 min): [BSB4]90577.D

ULTRA SCIENTIFIC Analytical Solutions

Certificate of Analysis

Volatiles Matrix Spiking Solution

Product Number: CLP-100N Page: 1 of 1
Lot Number: CH-1788A Lot Issue Date: 19-Aug-2013 Expiration Date: 30-Sep-2016

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
benzene	000071-43-2	34097	1004 ± 5 µg/mL
chlorobenzene	000108-90-7	07774MG	1004 ± 5 µg/mL
1,1-dichloroethene	000075-35-4	02226CH	1004 ± 5 µg/mL
toluene	000108-88-3	47144	1004 ± 5 µg/mL
trichloroethene	000079-01-6	KN-08846KN	1004 ± 5 µg/mL

Matrix: methanol (methyl alcohol)
Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

S 22428

ACCREDITED
ISO 17025 Accredited A2LA Cert. No. 0851-01
ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 401-295-2330
www.ultrasci.com

William J. Leahy
Quality Assurance Manager

Batch Worklist

Batch: ESVO/ 4976 Created: 6/11/2015 10:28 Instrument: 5975-G HBN: 150357

Rule: SOM SVOA, Soil Analyst: T. Masoian Status: WP

Workorder: 1514293 SDG: F9L58 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	448483	MB for HBN 149318 [ENVX/21659]	30 grams	.5 mL		MB	4		SOMSVOAS.4	6158	7/12/2015	6/11/2015	6/2/2015
2	1514293001	F9L58	30.09 grams	.5 mL		SAMPLE	4	1514293001-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
3	1514293002	F9L59	30.23 grams	.5 mL		SAMPLE	4	1514293002-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
4	1514293003	F9L60	30.19 grams	.5 mL		SAMPLE	4	1514293003-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
5	1514293004	F9L61	30.34 grams	.5 mL		SAMPLE	4	1514293004-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
6	1514293005	F9L62	30.03 grams	.5 mL		SAMPLE	4	1514293005-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
7	1514293006	F9L63	30.23 grams	.5 mL		SAMPLE	4	1514293006-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
8	1514293007	F9L64	30.3 grams	.5 mL		SAMPLE	4	1514293007-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
9	1514293008	F9L65	30.28 grams	.5 mL		SAMPLE	4	1514293008-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
10	1514293009	F9L66	30.26 grams	.5 mL		SAMPLE	4	1514293009-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
11	1514293012	F9L67	30.29 grams	.5 mL		SAMPLE	4	1514293012-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
12	1514293013	F9L68	30.16 grams	.5 mL		SAMPLE	4	1514293013-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
13	1514293014	F9L69	30.02 grams	.5 mL		SAMPLE	4	1514293014-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
14	1514293015	F9L70	30.2 grams	.5 mL		SAMPLE	4	1514293015-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
15	1514293016	F9L71	30.03 grams	.5 mL		SAMPLE	4	1514293016-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
16	1514293017	F9L72	30.35 grams	.5 mL		SAMPLE	4	1514293017-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
17	1514293018	F9L73	30.32 grams	.5 mL		SAMPLE	4	1514293018-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
18	1514293019	F9L75	30.3 grams	.5 mL		SAMPLE	4	1514293019-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
19	1514293020	F9L77	30.22 grams	.5 mL		SAMPLE	4	1514293020-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
20	1514293021	F9L78	30.24 grams	.5 mL		SAMPLE	4	1514293021-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015
21	1514293022	F9L79	30.06 grams	.5 mL		SAMPLE	4	1514293022-A	S12SVOAS.4	5936	7/12/2015	6/11/2015	6/2/2015

Batch Worklist

Batch: ENVX/ 21659 Created: 5/26/2015 12:54 Instrument: HBN: 149318

Rule: Sonication Extrn, SVOA Analyst: L. Edwards Status: NA

Workorder: 1514293 SDG: F9L58 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	448483	MB for HBN 149318 [ENVX/21659]	30.00g	0.5ml		MB	4		SNCTNSV.4P	6158	6/5/2015	5/23/2015	
2	1514293001	F9L58	30.09g			SAMPLE	4	1514293001-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
3	1514293002	F9L59	30.23g			SAMPLE	4	1514293002-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
4	1514293003	F9L60	30.19g			SAMPLE	4	1514293003-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
5	1514293004	F9L61	30.34g			SAMPLE	4	1514293004-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
6	1514293005	F9L62	30.03g			SAMPLE	4	1514293005-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
7	1514293006	F9L63	30.23g			SAMPLE	4	1514293006-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
8	1514293007	F9L64	30.30g			SAMPLE	4	1514293007-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
9	1514293008	F9L65	30.28g			SAMPLE	4	1514293008-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
10	1514293009	F9L66	30.26g			SAMPLE	4	1514293009-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
11	1514293012	F9L67	30.29g			SAMPLE	4	1514293012-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
12	1514293013	F9L68	30.16g			SAMPLE	4	1514293013-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
13	1514293014	F9L69	30.02g			SAMPLE	4	1514293014-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
14	1514293015	F9L70	30.20g			SAMPLE	4	1514293015-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
15	1514293016	F9L71	30.03g			SAMPLE	4	1514293016-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
16	1514293017	F9L72	30.35g			SAMPLE	4	1514293017-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
17	1514293018	F9L73	30.32g			SAMPLE	4	1514293018-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
18	1514293019	F9L75	30.30g			SAMPLE	4	1514293019-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
19	1514293020	F9L77	30.22g			SAMPLE	4	1514293020-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
20	1514293021	F9L78	30.24g			SAMPLE	4	1514293021-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
21	1514293022	F9L79	30.06g			SAMPLE	4	1514293022-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	

myc

Some SV

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client US EPA REGION 6 Case/SDG # 45 316 / F 9L58 Horizon Extraction HBN 14 9318

Work Order# 1514293 Sample #'s 1-9, 12-22 Extraction Method SOM01.2

SOP: OE-EP-SOM Analytical Fraction SV / SV-SIM Matrix SOIL

Date samples weighed out 5/28/15 by PT balance # 120212065

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 5/28/15 1030 Stop Date/Time (CLLE's/Soxlet) [illegible] Extracted by [illegible]

	Drying Agent	Salt	Solvents		Exchange Solvent
Solvent/Reagent used	☑ Na_2SO_4 ☐ N/A	☐ NaCl ☑ N/A	☐ CH_2Cl_2 ☐ Hexane ☐ Acetonitrile ☐ Hexane/Ether ( )	☑ CH_2Cl_2/Acetone (1:1)	☐ Hexane ☐ Toluene ☑ N/A ☐ CH_2Cl_2
Vendor	JTBAKER	[illegible]	JT BAKER	B&J	
Lot Number	18985		97623	DM 245	
Amount	PER SOP		PER SOP	PER SOP	—

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	27950	[illegible]	[illegible]	[illegible]
Spiked Amount	1mL			
Spiked By	PT			

	Acid Solution	Base Solution		
Standard ID				
Spiked Amount *	[illegible]	[illegible]		
pH Adjustment *				
Spiked By				

* exceptions are noted in comments below

Comments

Pre-GPC Concentration: Date/Time 5/28/15 14:00 by [illegible] Comments The Temp was 64°C

Final Concentration: Date/Time 6/02/15 9:00 by [illegible] Comments The Temp was 62°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments

Checker Signature Lyle Edwards **Date** 6/1/15

01421

Batch Worklist

Batch: ENVX/ 21692 Created: 5/31/2015 11:01 Instrument: GPC07 HBN: 149589

Rule: GPC SVOA Analyst: L. Edwards Status: NA

Workorder: 1514293 SDG: F9L58 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	449153	GB for HBN 149589 [ENVX/21692]				GB	4		E.GPC.SV.P	6158		5/29/2015	5/31/2015
2	448483	MB for HBN 149318 [ENVX/21659]	30 grams	.5 mL		MB	4		E.GPC.SV.P	6158		5/29/2015	5/31/2015
3	1514293001	F9L58	30.09 grams	.5 mL		SAMPLE	4	1514293001-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
4	1514293002	F9L59	30.23 grams	.5 mL		SAMPLE	4	1514293002-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
5	1514293003	F9L60	30.19 grams	.5 mL		SAMPLE	4	1514293003-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
6	1514293004	F9L61	30.34 grams	.5 mL		SAMPLE	4	1514293004-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
7	1514293005	F9L62	30.03 grams	.5 mL		SAMPLE	4	1514293005-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
8	1514293006	F9L63	30.23 grams	.5 mL		SAMPLE	4	1514293006-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
9	1514293007	F9L64	30.3 grams	.5 mL		SAMPLE	4	1514293007-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
10	1514293008	F9L65	30.28 grams	.5 mL		SAMPLE	4	1514293008-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
11	1514293009	F9L66	30.26 grams	.5 mL		SAMPLE	4	1514293009-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
12	1514293012	F9L67	30.29 grams	.5 mL		SAMPLE	4	1514293012-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
13	1514293013	F9L68	30.16 grams	.5 mL		SAMPLE	4	1514293013-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
14	1514293014	F9L69	30.02 grams	.5 mL		SAMPLE	4	1514293014-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
15	1514293015	F9L70	30.2 grams	.5 mL		SAMPLE	4	1514293015-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
16	1514293016	F9L71	30.03 grams	.5 mL		SAMPLE	4	1514293016-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
17	1514293017	F9L72	30.35 grams	.5 mL		SAMPLE	4	1514293017-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
18	1514293018	F9L73	30.32 grams	.5 mL		SAMPLE	4	1514293018-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
19	1514293019	F9L75	30.3 grams	.5 mL		SAMPLE	4	1514293019-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
20	1514293020	F9L77	30.22 grams	.5 mL		SAMPLE	4	1514293020-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
21	1514293021	F9L78	30.24 grams	.5 mL		SAMPLE	4	1514293021-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015
22	1514293022	F9L79	30.06 grams	.5 mL		SAMPLE	4	1514293022-A	E.GPC.SV.P	5936		5/29/2015	5/31/2015

ALS Laboratory Group GPC Injection Logbook

Method:	**SOM01.2**	**Analytical Method**	**SVOA**	**Work Order ID:**	**1514293**	**Horizon Batch ID:**	**149589**
Account:	**08201**	**Instrument ID:**	**GPC07**	**Column ID:**	**8171860-3 545929-11**	**Flow Rate:**	**5mL/min.**
Load Date:	**5/31/15**	**Load Time:**	**10:36**	**Pressure (PSI)**	**150**	**PST/ARO Weekly ID:**	

Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	449153	GPC07 Blank	
2	1514293001	F9L58	
3	1514293002	F9L59	
4	1514293003	F9L60	
5	1514293004	F9L61	
6	1514293005	F9L62	
7	1514293006	F9L63	
8	1514293007	F9L64	
9	1514293008	F9L65	
10	1514293009	F9L66	
11	1514293012	F9L67	
12	1514293013	F9L68	
13	1514293014	F9L69	
14	1514293015	F9L70	
15	1514293016	F9L71	
16	1514293017	F9L72	
17	1514293018	F9L73	
18	1514293019	F9L75	
19	1514293020	F9L77	
20	1514293021	F9L78	
21	1514293022	F9L79	
22	Rinse		Column Wash
23	448483	MB for HBN 149318	
24	Rinse		Column Wash

$MeCl_2$ Lot:	**97623**
Dump Time (min.):	**15.9**
Collect Time (min.):	**29.3**
Wash Time(min.):	**10**
GPC Standard ID:	**195WS38822**

General Comments:

if noted above - 1:10 dilutions made to protect GPC column

Analyst - Lyle Edwards

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-G

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
GAX01S20	05/27/2015 15:49	DJC	GSOM01D4	1	25.96	1	SSTD020GX 28165 DFTPPGX	X06/19/15
GAX02S05	05/27/2015 16:21	DJC	GSOM01D4	2	25.96	1	SSTD005GX 28167	X06/19/15
GAX03S10	05/27/2015 16:54	DJC	GSOM01D4	3	25.96	1	SSTD010GX 28168	X06/19/15
GAX04S10	05/27/2015 17:26	DJC	GSOM01D4	7	25.96	1	~~SSTD010GX~~	X06/19/15
GAX05S20	05/27/2015 17:58	DJC	GSOM01D4	6	25.96	1	~~SSTD020GX~~	X06/19/15
GAX06S40	05/27/2015 18:30	DJC	GSOM01D4	4	25.96	1	SSTD040GX 28170	X06/19/15
GAX07S80	05/27/2015 19:02	DJC	GSOM01D4	5	25.96	1	SSTD080GX 28171	X06/19/15

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-G

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
GBC01S20	06/02/2015 11:34	DJC	GSOM01D4	1	25.96	1	SSTD020GC 28237 DFTPPGC	X06/19/15
GBC02BLK	06/02/2015 12:10	DJC	GSOM01D4	2	25.96	1	448483 SBLK83	SOIL SOM
GBC03GPC	06/02/2015 12:42	DJC	GSOM01D4	3	25.96	1	GPC 7 BLK	SOIL SOM
GBC04S20	06/02/2015 14:58	DJC	GSOM01D4	1	25.96	1	SSTD020C1 28237 DFTPPC1	X06/19/15
GBC05F01	06/02/2015 15:36	DJC	GSOM01D4	4	25.96	1	1514293001 F9L58 (5)	SOIL SOM
GBC06F02	06/02/2015 16:09	DJC	GSOM01D4	5	25.96	1	1514293002 F9L59 (5)	SOIL SOM
GBC07F03	06/02/2015 16:42	DJC	GSOM01D4	6	25.96	1	1514293003 F9L60	SOIL SOM
GBC08F04	06/02/2015 17:14	DJC	GSOM01D4	7	25.96	1	1514293004 F9L61	SOIL SOM
GBC09F05	06/02/2015 17:47	DJC	GSOM01D4	8	25.96	1	1514293005 F9L62	SOIL SOM
GBC10F06	06/02/2015 18:20	DJC	GSOM01D4	9	25.96	1	1514293006 F9L63 (5)	SOIL SOM
GBC11F07	06/02/2015 18:53	DJC	GSOM01D4	10	25.96	1	1514293007 F9L64	SOIL SOM
GBC12F08	06/02/2015 19:25	DJC	GSOM01D4	11	25.96	1	1514293008 F9L65	SOIL SOM
GBC13F09	06/02/2015 19:58	DJC	GSOM01D4	12	25.96	1	1514293009 F9L66	SOIL SOM
GBC14F12	06/02/2015 20:30	DJC	GSOM01D4	13	25.96	1	1514293012 F9L67 (10)	SOIL SOM
GBC15F13	06/02/2015 21:02	DJC	GSOM01D4	14	25.96	1	1514293013 F9L68	SOIL SOM
GBC16F14	06/02/2015 21:34	DJC	GSOM01D4	15	25.96	1	1514293014 F9L69	SOIL SOM
GBC17F15	06/02/2015 22:06	DJC	GSOM01D4	16	25.96	1	1514293015 F9L70 (10)	SOIL SOM
GBC18F16	06/02/2015 22:38	DJC	GSOM01D4	17	25.96	1	1514293016 F9L71	SOIL SOM
GBC19F17	06/02/2015 23:10	DJC	GSOM01D4	18	25.96	1	1514293017 F9L72	SOIL SOM
~~GBC20S20~~	06/02/2015 23:42	DJC	GSOM01D4	1	25.96	1	~~SSTD020C2 28237 DFTPPC2~~	X06/19/15
GBC21S20	06/03/2015 00:14	DJC	GSOM01D4	1	25.96	1	SSTD020C2 28237 DFTPPC2	X06/19/15
~~SBC22S20~~	06/03/2015 00:46	DJC	GSOM01D4	1	25.96	1	~~SSTD020C2 28237 DFTPPC2~~	X06/19/15
GBC23F18	06/03/2015 01:18	DJC	GSOM01D4	19	25.96	1	1514293018 F9L73	SOIL SOM
GBC24F19	06/03/2015 01:50	DJC	GSOM01D4	20	25.96	1	1514293019 F9L75	SOIL SOM
GBC25F20	06/03/2015 02:23	DJC	GSOM01D4	21	25.96	1	1514293020 F9L77	SOIL SOM
GBC26F21	06/03/2015 02:55	DJC	GSOM01D4	22	25.96	1	1514293021 F9L78	SOIL SOM
GBC27F22	06/03/2015 03:28	DJC	GSOM01D4	23	25.96	1	1514293022 F9L79	SOIL SOM
GBC28S20	06/03/2015 04:00	DJC	GSOM01D4	24	25.96	1	SSTD020C3 28237 DFTPPC3	X06/19/15
GBC29S20	06/03/2015 04:33	DJC	GSOM01D4	24	25.96	1	SSTD020C3 28237 DFTPPC3	X06/19/15
GBC30S20	06/03/2015 05:05	DJC	GSOM01D4	24	25.96	1	SSTD020C3 28237 DFTPPC3	X06/19/15
GBC31S20	06/03/2015 05:38	DJC	GSOM01D4	24	25.96	1	SSTD020C3 28237 DFTPPC3	X06/19/15

Batch Worklist

Batch: ESVO/ 4977 Created: 6/11/2015 11:11 Instrument: 5975-D HBN: 150361

Rule: SOM SVOA SIM, Soil Analyst: T. Masoian Status: WP

Workorder: 1514293 SDG: F9L58 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	448483	MB for HBN 149318 [ENVX/21659]	30 grams	.5 mL		MB	4		SOMSVOASS4	6158	7/12/2015	6/11/2015	6/8/2015
2	1514293001	F9L58	30.09 grams	.5 mL		SAMPLE	4	1514293001-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
3	1514293002	F9L59	30.23 grams	.5 mL		SAMPLE	4	1514293002-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
4	1514293003	F9L60	30.19 grams	.5 mL		SAMPLE	4	1514293003-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
5	1514293004	F9L61	30.34 grams	.5 mL		SAMPLE	4	1514293004-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
6	1514293005	F9L62	30.03 grams	.5 mL		SAMPLE	4	1514293005-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
7	1514293006	F9L63	30.23 grams	.5 mL		SAMPLE	4	1514293006-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
8	1514293007	F9L64	30.3 grams	.5 mL		SAMPLE	4	1514293007-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
9	1514293008	F9L65	30.28 grams	.5 mL		SAMPLE	4	1514293008-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
10	1514293009	F9L66	30.26 grams	.5 mL		SAMPLE	4	1514293009-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
11	1514293012	F9L67	30.29 grams	.5 mL		SAMPLE	4	1514293012-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
12	1514293013	F9L68	30.16 grams	.5 mL		SAMPLE	4	1514293013-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
13	1514293014	F9L69	30.02 grams	.5 mL		SAMPLE	4	1514293014-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
14	1514293015	F9L70	30.2 grams	.5 mL		SAMPLE	4	1514293015-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
15	1514293016	F9L71	30.03 grams	.5 mL		SAMPLE	4	1514293016-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
16	1514293017	F9L72	30.35 grams	.5 mL		SAMPLE	4	1514293017-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
17	1514293018	F9L73	30.32 grams	.5 mL		SAMPLE	4	1514293018-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
18	1514293019	F9L75	30.3 grams	.5 mL		SAMPLE	4	1514293019-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
19	1514293020	F9L77	30.22 grams	.5 mL		SAMPLE	4	1514293020-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
20	1514293021	F9L78	30.24 grams	.5 mL		SAMPLE	4	1514293021-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015
21	1514293022	F9L79	30.06 grams	.5 mL		SAMPLE	4	1514293022-A	S12SVOASS4	5936	7/12/2015	6/11/2015	6/8/2015

Batch Worklist

Batch: ENVX/ 21659 Created: 5/26/2015 12:54 Instrument: HBN: 149318

Rule: Sonication Extrn, SVOA Analyst: L. Edwards Status: NA

Workorder: 1514293 SDG: F9L58 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	448483	MB for HBN 149318 [ENVX/21659]	30.00g	0.5ml		MB	4		SNCTNSV.4P	6158	6/5/2015	5/23/2015	
2	1514293001	F9L58	30.09g			SAMPLE	4	1514293001-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
3	1514293002	F9L59	30.23g			SAMPLE	4	1514293002-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
4	1514293003	F9L60	30.19g			SAMPLE	4	1514293003-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
5	1514293004	F9L61	30.34g			SAMPLE	4	1514293004-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
6	1514293005	F9L62	30.03g			SAMPLE	4	1514293005-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
7	1514293006	F9L63	30.23g			SAMPLE	4	1514293006-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
8	1514293007	F9L64	30.30g			SAMPLE	4	1514293007-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
9	1514293008	F9L65	30.28g			SAMPLE	4	1514293008-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
10	1514293009	F9L66	30.26g			SAMPLE	4	1514293009-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
11	1514293012	F9L67	30.29g			SAMPLE	4	1514293012-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
12	1514293013	F9L68	30.16g			SAMPLE	4	1514293013-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
13	1514293014	F9L69	30.02g			SAMPLE	4	1514293014-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
14	1514293015	F9L70	30.20g			SAMPLE	4	1514293015-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
15	1514293016	F9L71	30.03g			SAMPLE	4	1514293016-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
16	1514293017	F9L72	30.35g			SAMPLE	4	1514293017-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
17	1514293018	F9L73	30.32g			SAMPLE	4	1514293018-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
18	1514293019	F9L75	30.30g			SAMPLE	4	1514293019-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
19	1514293020	F9L77	30.22g			SAMPLE	4	1514293020-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
20	1514293021	F9L78	30.24g			SAMPLE	4	1514293021-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	
21	1514293022	F9L79	30.06g			SAMPLE	4	1514293022-A	SNCTNSV.4P	5936	6/1/2015	5/23/2015	

nyc

Sonic SV

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client US EPA REGION 6 Case/SDG # 45316 / F9458 Horizon Extraction HBN 149318

Work Order# 1514293 Sample #'s 1-9, 12-22 Extraction Method SOM01.2

SOP: OE-EP-SOM Analytical Fraction SV / SV-SIM Matrix SOIL

Date samples weighed out 5/28/15 by PT balance # 120212065

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 5/28/15 1030 Stop Date/Time (CLLE's/Soxlet) OK Extracted by OK

	Drying Agent	Salt	Solvents		Exchange Solvent
Solvent/Reagent used	☑ Na_2SO_4 ☐ N/A	☐ NaCl ☑ N/A	☐ CH_2Cl_2 ☐ Hexane ☐ Acetonitrile ☐ Hexane/Ether ( )	☑ CH_2Cl_2/Acetone (1:1)	☐ Hexane ☐ Toluene ☑ N/A ☐ CH_2Cl_2
Vendor	JTBAKER	OK	JT BAKER	BDH	
Lot Number	18985		97623	DM 245	
Amount	PER SOP		PER SOP	PER SOP	—

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	27950	OK	OK	OK
Spiked Amount	1mL			
Spiked By	PT			

	Acid Solution	Base Solution		
Standard ID	OK	OK		
Spiked Amount *				
pH Adjustment *				
Spiked By				

* exceptions are noted in comments below

Comments

Pre-GPC Concentration: Date/Time 5/28/15 14:00 by mjc Comments The Temp was 64°C

Final Concentration: Date/Time 6/02/15 9:00 by mjc Comments The Temp was 62°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments

Checker Signature Lyle Edwards Date 6/1/15

DATACHEM LABORATORIES - GC\MS SEMIVOLATILE ANALYSIS
INJECTION LOGBOOK
INSTRUMENT 5975-D

File Name	Date and Time Injected	OP	Method	ALS BOT	Run Length	Dil Fac	Sample name	Misc info
DFW01SP4	06/08/2015 11:27	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4DW 28258	X6-19-15
DFW02SP4	06/08/2015 14:36	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4DW 28258	X6-19-15
DFW03BLK	06/08/2015 15:20	DJC	DSOM_SIMJ2	2	24.66	1	448483 SBLK83	SOIL SIM
DFW04GPC	06/08/2015 15:50	DJC	DSOM_SIMJ2	3	24.66	1	449153 GBLK53	SOIL SIM
DFW05F01	06/08/2015 16:23	DJC	DSOM_SIMJ2	4	24.66	1	1514293001 F9L58 (30)	SOIL SIM
DFW06F02	06/08/2015 16:53	DJC	DSOM_SIMJ2	5	24.66	1	1514293002 F9L59 (5)	SOIL SIM
DFW07F03	06/08/2015 17:24	DJC	DSOM_SIMJ2	6	24.66	1	1514293003 F9L60	SOIL SIM
DFW08F04	06/08/2015 17:54	DJC	DSOM_SIMJ2	7	24.66	1	1514293004 F9L61	SOIL SIM
DFW09F05	06/08/2015 18:24	DJC	DSOM_SIMJ2	8	24.66	1	1514293005 F9L62	SOIL SIM
DFW10F06	06/08/2015 18:54	DJC	DSOM_SIMJ2	9	24.66	1	1514293006 F9L63 (5)_	SOIL SIM
DFW11F07	06/08/2015 19:24	DJC	DSOM_SIMJ2	10	24.66	1	1514293007 F9L64	SOIL SIM
DFW12F08	06/08/2015 19:54	DJC	DSOM_SIMJ2	11	24.66	1	1514293008 F9L65	SOIL SIM
DFW13F09	06/08/2015 20:24	DJC	DSOM_SIMJ2	12	24.66	1	1514293009 F9L66	SOIL SIM
DFW14F12	06/08/2015 20:54	DJC	DSOM_SIMJ2	13	24.66	1	1514293012 F9L67 (10)	SOIL SIM
DFW15F13	06/08/2015 21:23	DJC	DSOM_SIMJ2	14	24.66	1	1514293013 F9L68	SOIL SIM
DFW16F14	06/08/2015 21:53	DJC	DSOM_SIMJ2	15	24.66	1	1514293014 F9L69	SOIL SIM
DFW17F15	06/08/2015 22:23	DJC	DSOM_SIMJ2	16	24.66	1	1514293015 F9L70 (10)	SOIL SIM
DFW18F16	06/08/2015 22:52	DJC	DSOM_SIMJ2	17	24.66	1	1514293016 F9L71	SOIL SIM
DFW19F17	06/08/2015 23:22	DJC	DSOM_SIMJ2	18	24.66	1	1514293017 F9L72	SOIL SIM
DFW20SP4	06/08/2015 23:52	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4W1 28258	X6-19-15
DFW22SP4	06/09/2015 00:21	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4W1 28258	X6-19-15
DFW23SP4	06/09/2015 00:51	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4W1 28258	X6-19-15
DFW24F18	06/09/2015 01:20	DJC	DSOM_SIMJ2	19	24.66	1	1514293018 F9L73	SOIL SIM
DFW25F19	06/09/2015 01:50	DJC	DSOM_SIMJ2	20	24.66	1	1514293019 F9L75	SOIL SIM
DFW26F20	06/09/2015 02:19	DJC	DSOM_SIMJ2	21	24.66	1	1514293020 F9L77	SOIL SIM
DFW27F21	06/09/2015 02:49	DJC	DSOM_SIMJ2	22	24.66	1	1514293021 F9L78	SOIL SIM
DFW28F22	06/09/2015 03:18	DJC	DSOM_SIMJ2	23	24.66	1	1514293022 F9L79	SOIL SIM
DFW29SP4	06/09/2015 03:48	DJC	DSOM_SIMJ2	24	24.66	1	SSTD0.4W2 28258	X6-19-15
DFW30SP4	06/09/2015 04:18	DJC	DSOM_SIMJ2	24	24.66	1	SSTD0.4W2 28258	X6-19-15
DFW31SP4	06/09/2015 04:47	DJC	DSOM_SIMJ2	24	24.66	1	SSTD0.4W2 28258	X6-19-15

Batch Worklist

Batch: EGC/ 5776 **Created:** 6/2/2015 09:27 **Instrument:** GCE21 **HBN:** 149697

Rule: SOM Pesticides, Soil **Analyst:** S. Sagers **Status:** WP

Workorder: 1514293 **SDG:** F9L58 **Case:** 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	448474	MB for HBN 149311 [ENVX/21658]	30 grams	5 mL		MB	4		SOMPESTS.4	6158	7/8/2015	6/11/2015	6/1/2015
2	448475	LCS-P for HBN 149311 [ENVX/216	30 grams	5 mL		LCS-P	4		SOMPESTS.4	6158	7/8/2015	6/11/2015	6/1/2015
3	1514293001	F9L58	30.15 grams	5 mL		SAMPLE	4	1514293001-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
4	1514293002	F9L59	30.2 grams	5 mL		SAMPLE	4	1514293002-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
5	1514293003	F9L60	30.3 grams	5 mL		SAMPLE	4	1514293003-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
6	1514293004	F9L61	30.16 grams	5 mL		SAMPLE	4	1514293004-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
7	1514293005	F9L62	30.16 grams	5 mL		SAMPLE	4	1514293005-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
8	1514293006	F9L63	30.32 grams	5 mL		SAMPLE	4	1514293006-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
9	1514293007	F9L64	30.11 grams	5 mL		SAMPLE	4	1514293007-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
10	1514293008	F9L65	30.14 grams	5 mL		SAMPLE	4	1514293008-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
11	1514293009	F9L66	30.07 grams	5 mL		SAMPLE	4	1514293009-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
12	1514293010	F9L66MS	30.03 grams	5 mL		MS	4	1514293010-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
13	1514293011	F9L66MSD	30.17 grams	5 mL		MSD	4	1514293011-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
14	1514293012	F9L67	30 grams	5 mL		SAMPLE	4	1514293012-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
15	1514293013	F9L68	30.41 grams	5 mL		SAMPLE	4	1514293013-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
16	1514293014	F9L69	30.21 grams	5 mL		SAMPLE	4	1514293014-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
17	1514293015	F9L70	30.24 grams	5 mL		SAMPLE	4	1514293015-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
18	1514293016	F9L71	30.31 grams	5 mL		SAMPLE	4	1514293016-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
19	1514293017	F9L72	30.19 grams	5 mL		SAMPLE	4	1514293017-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
20	1514293018	F9L73	30.4 grams	5 mL		SAMPLE	4	1514293018-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
21	1514293019	F9L75	30.42 grams	5 mL		SAMPLE	4	1514293019-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
22	1514293020	F9L77	30.23 grams	5 mL		SAMPLE	4	1514293020-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
23	1514293021	F9L78	30.16 grams	5 mL		SAMPLE	4	1514293021-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
24	1514293022	F9L79	30.44 grams	5 mL		SAMPLE	4	1514293022-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015

GC/ECD PESTICIDES ANALYST WRITE-UP

Batch: EGC/ 5776 Created: 6/2/2015 09:27 Instrument: GCE21 HBN: 149697
Rule: SOM Pesticides, Soil Analyst: S. Sagers Status: WP

Workorder: 1514293 SDG: F9L58 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	448474	MB for HBN 149311 [ENVX/21658]	30 grams	5 mL		MB	4		SOMPESTS.4	6158	7/8/2015	6/11/2015	6/1/2015
2	448475	LCS-P for HBN 149311 [ENVX/216	30 grams	5 mL		LCS-P	4		SOMPESTS.4	6158	7/8/2015	6/11/2015	6/1/2015
3	1514293001	F9L58	30.15 grams	5 mL		SAMPLE	4	1514293001-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
4	1514293002	F9L59	30.2 grams	5 mL		SAMPLE	4	1514293002-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
5	1514293003	F9L60	30.3 grams	5 mL		SAMPLE	4	1514293003-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
6	1514293004	F9L61	30.16 grams	5 mL		SAMPLE	4	1514293004-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
7	1514293005	F9L62	30.16 grams	5 mL		SAMPLE	4	1514293005-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
8	1514293006	F9L63	30.32 grams	5 mL		SAMPLE	4	1514293006-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
9	1514293007	F9L64	30.11 grams	5 mL		SAMPLE	4	1514293007-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
10	1514293008	F9L65	30.14 grams	5 mL		SAMPLE	4	1514293008-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
11	1514293009	F9L66	30.07 grams	5 mL		SAMPLE	4	1514293009-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
12	1514293010	F9L66MS	30.03 grams	5 mL		MS	4	1514293010-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
13	1514293011	F9L66MSD	30.17 grams	5 mL		MSD	4	1514293011-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
14	1514293012	F9L67	30 grams	5 mL		SAMPLE	4	1514293012-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
15	1514293013	F9L68	30.41 grams	5 mL		SAMPLE	4	1514293013-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
16	1514293014	F9L69	30.21 grams	5 mL		SAMPLE	4	1514293014-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
17	1514293015	F9L70	30.24 grams	5 mL		SAMPLE	4	1514293015-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
18	1514293016	F9L71	30.31 grams	5 mL		SAMPLE	4	1514293016-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
19	1514293017	F9L72	30.19 grams	5 mL		SAMPLE	4	1514293017-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
20	1514293018	F9L73	30.4 grams	5 mL		SAMPLE	4	1514293018-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
21	1514293019	F9L75	30.42 grams	5 mL		SAMPLE	4	1514293019-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
22	1514293020	F9L77	30.23 grams	5 mL		SAMPLE	4	1514293020-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
23	1514293021	F9L78	30.16 grams	5 mL		SAMPLE	4	1514293021-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015
24	1514293022	F9L79	30.44 grams	5 mL		SAMPLE	4	1514293022-A	S12PESTS.4	5936	7/8/2015	6/11/2015	6/1/2015

Samples analyzed: 06/04/2015-06/08/2015 ICAL(s) analyzed: 06/04/2015 (1), 06/08/2015 (2) CCVs: 2, 3, 6, 7

Instrument: GC21: HP5890 with RTXCLP (30m x 0.32mm ID x 0.50um film) and RTXCLP2 (30m x 0.32mm ID x 0.25um film) columns and EC detectors. Helium carrier gas.

Injection volulme: 2.0 uL. Injector temps: 170C. Detector temps: 320C.

GC Program: 105C for 0 min, 30C/min to 180C for 0 min, 12.5C/min to 270C for 0 min, 30C/min to 330C for 5.00 min. 16.70 min total.

Surrogates: All samples passed SOW surrogate recovery criteria.

LCS: All recoveries were within established limits.

MS and MSD: One RPD was outside established limits.

Dilutions: No dilutions were required.

Miscellaneous: 1) None.

GC/ECD PEST INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID
21150604A_002.rst	06/04/2015	17:43:07	PRIME		GC21A	RTXCLP 0.32mm x 30m
21150604A_003.rst	06/04/2015	18:03:33	PRIME		GC21A	RTXCLP 0.32mm x 30m
21150604A_004.rst	06/04/2015	18:24:13	RESC11	26384	GC21A	RTXCLP 0.32mm x 30m
21150604A_005.rst	06/04/2015	18:44:41	PEM11	26388	GC21A	RTXCLP 0.32mm x 30m
21150604A_006.rst	06/04/2015	19:05:23	TOXAPH111	26377	GC21A	RTXCLP 0.32mm x 30m
21150604A_007.rst	06/04/2015	19:26:01	TOXAPH211	26378	GC21A	RTXCLP 0.32mm x 30m
21150604A_008.rst	06/04/2015	19:46:25	TOXAPH311	26379	GC21A	RTXCLP 0.32mm x 30m
21150604A_009.rst	06/04/2015	20:06:50	TOXAPH411	26380	GC21A	RTXCLP 0.32mm x 30m
21150604A_010.rst	06/04/2015	20:27:14	TOXAPH511	26381	GC21A	RTXCLP 0.32mm x 30m
21150604A_011.rst	06/04/2015	20:47:38	INDC111	26382	GC21A	RTXCLP 0.32mm x 30m
21150604A_012.rst	06/04/2015	21:08:02	INDC211	26383	GC21A	RTXCLP 0.32mm x 30m
21150604A_013.rst	06/04/2015	21:28:26	INDC311	26384	GC21A	RTXCLP 0.32mm x 30m
21150604A_014.rst	06/04/2015	21:48:50	INDC411	26385	GC21A	RTXCLP 0.32mm x 30m
21150604A_015.rst	06/04/2015	22:09:24	INDC511	26386	GC21A	RTXCLP 0.32mm x 30m
21150604A_016.rst	06/04/2015	22:29:46	PIBLK21	26387	GC21A	RTXCLP 0.32mm x 30m
21150604A_017.rst	06/04/2015	22:50:22	PEM21	26388	GC21A	RTXCLP 0.32mm x 30m
21150604A_018.rst	06/04/2015	23:10:46	448474	PBLKS1	GC21A	RTXCLP 0.32mm x 30m
21150604A_019.rst	06/04/2015	23:31:08	448475	PLCSS1	GC21A	RTXCLP 0.32mm x 30m
21150604A_020.rst	06/04/2015	23:51:28	1514293001	F9L58	GC21A	RTXCLP 0.32mm x 30m
21150604A_021.rst	06/05/2015	00:11:53	1514293002	F9L59	GC21A	RTXCLP 0.32mm x 30m
21150604A_022.rst	06/05/2015	00:32:33	1514293003	F9L60	GC21A	RTXCLP 0.32mm x 30m
21150604A_023.rst	06/05/2015	00:52:53	1514293004	F9L61	GC21A	RTXCLP 0.32mm x 30m
21150604A_024.rst	06/05/2015	01:13:13	1514293005	F9L62	GC21A	RTXCLP 0.32mm x 30m
21150604A_025.rst	06/05/2015	01:33:31	1514293006	F9L63	GC21A	RTXCLP 0.32mm x 30m
21150604A_026.rst	06/05/2015	01:53:53	1514293007	F9L64	GC21A	RTXCLP 0.32mm x 30m
21150604A_027.rst	06/05/2015	02:14:13	1514293008	F9L65	GC21A	RTXCLP 0.32mm x 30m
21150604A_028.rst	06/05/2015	02:34:37	1514293009	F9L66	GC21A	RTXCLP 0.32mm x 30m
21150604A_029.rst	06/05/2015	02:54:59	1514293010	F9L66MS	GC21A	RTXCLP 0.32mm x 30m
21150604A_030.rst	06/05/2015	03:15:20	1514293011	F9L66MSD	GC21A	RTXCLP 0.32mm x 30m
21150604A_031.rst	06/05/2015	03:35:56	RINSE		GC21A	RTXCLP 0.32mm x 30m
21150604A_032.rst	06/05/2015	03:56:20	PIBLK31	26387	GC21A	RTXCLP 0.32mm x 30m
21150604A_033.rst	06/05/2015	04:16:42	INDC331	26384	GC21A	RTXCLP 0.32mm x 30m
21150604A_034.rst	06/05/2015	04:37:06	RINSE		GC21A	RTXCLP 0.32mm x 30m
21150604A_035.rst	06/05/2015	04:57:28	1514293012	F9L67	GC21A	RTXCLP 0.32mm x 30m
21150604A_036.rst	06/05/2015	05:18:04	1514293013	F9L68	GC21A	RTXCLP 0.32mm x 30m
21150604A_037.rst	06/05/2015	05:38:30	1514293014	F9L69	GC21A	RTXCLP 0.32mm x 30m
21150604A_038.rst	06/05/2015	05:58:54	1514293015	F9L70	GC21A	RTXCLP 0.32mm x 30m
21150604A_039.rst	06/05/2015	06:19:16	1514293016	F9L71	GC21A	RTXCLP 0.32mm x 30m
21150604A_040.rst	06/05/2015	06:39:41	1514293017	F9L72	GC21A	RTXCLP 0.32mm x 30m
21150604A_041.rst	06/05/2015	07:00:04	1514293018	F9L73	GC21A	RTXCLP 0.32mm x 30m
21150604A_042.rst	06/05/2015	07:20:31	1514293019	F9L75	GC21A	RTXCLP 0.32mm x 30m
21150604A_043.rst	06/05/2015	07:40:57	1514293020	F9L77	GC21A	RTXCLP 0.32mm x 30m
21150604A_044.rst	06/05/2015	08:01:21	1514293021	F9L78	GC21A	RTXCLP 0.32mm x 30m
21150604A_045.rst	06/05/2015	08:21:45	1514293022	F9L79	GC21A	RTXCLP 0.32mm x 30m
21150604A_046.rst	06/05/2015	08:42:09	RINSE		GC21A	RTXCLP 0.32mm x 30m
21150604A_047.rst	06/05/2015	09:02:35	PIBLK41	26387	GC21A	RTXCLP 0.32mm x 30m
21150604A_048.rst	06/05/2015	09:22:59	PEM41	26388	GC21A	RTXCLP 0.32mm x 30m
21150604A_049.rst	06/05/2015	09:43:38	RINSE		GC21A	RTXCLP 0.32mm x 30m
21150604A_050.rst	06/05/2015	10:04:02	RINSE		GC21A	RTXCLP 0.32mm x 30m

GC/ECD PEST INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID	
21150604B_001.rst	06/04/2015	17:43:07	PRIME		GC21B	RTXCLP2 0.32mm x 30m	
21150604B_002.rst	06/04/2015	18:03:33	PRIME		GC21B	RTXCLP2 0.32mm x 30m	
21150604B_003.rst	06/04/2015	18:24:13	PRIME		GC21B	RTXCLP2 0.32mm x 30m	
21150604B_004.rst	06/04/2015	18:44:41	RESC12	26384	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_005.rst	06/04/2015	19:05:23	PEM12	26388	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_006.rst	06/04/2015	19:26:01	TOXAPH112	26377	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_007.rst	06/04/2015	19:46:25	TOXAPH212	26378	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_008.rst	06/04/2015	20:06:50	TOXAPH312	26379	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_009.rst	06/04/2015	20:27:14	TOXAPH412	26380	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_010.rst	06/04/2015	20:47:38	TOXAPH512	26381	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_011.rst	06/04/2015	21:08:02	INDC112	26382	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_012.rst	06/04/2015	21:28:26	INDC212	26383	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_013.rst	06/04/2015	21:48:50	INDC312	26384	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_014.rst	06/04/2015	22:09:24	INDC412	26385	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_015.rst	06/04/2015	22:29:46	INDC512	26386	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_016.rst	06/04/2015	22:50:22	PIBLK22	26387	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_017.rst	06/04/2015	23:10:46	PEM22	26388	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_018.rst	06/04/2015	23:31:08	448474	PBLKS1	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_019.rst	06/04/2015	23:51:28	448475	PLCSS1	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_020.rst	06/05/2015	00:11:53	1514293001	F9L58	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_021.rst	06/05/2015	00:32:33	1514293002	F9L59	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_022.rst	06/05/2015	00:52:53	1514293003	F9L60	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_023.rst	06/05/2015	01:13:13	1514293004	F9L61	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_024.rst	06/05/2015	01:33:31	1514293005	F9L62	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_025.rst	06/05/2015	01:53:53	1514293006	F9L63	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_026.rst	06/05/2015	02:14:13	1514293007	F9L64	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_027.rst	06/05/2015	02:34:37	1514293008	F9L65	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_028.rst	06/05/2015	02:54:59	1514293009	F9L66	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_029.rst	06/05/2015	03:15:20	1514293010	F9L66MS	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_030.rst	06/05/2015	03:35:56	1514293011	F9L66MSD	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_031.rst	06/05/2015	03:56:20	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150604B_032.rst	06/05/2015	04:16:42	PIBLK32	26387	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_033.rst	06/05/2015	04:37:06	INDC332	26384	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_034.rst	06/05/2015	04:57:28	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150604B_035.rst	06/05/2015	05:18:04	1514293012	F9L67	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_036.rst	06/05/2015	05:38:30	1514293013	F9L68	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_037.rst	06/05/2015	05:58:54	1514293014	F9L69	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_038.rst	06/05/2015	06:19:16	1514293015	F9L70	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_039.rst	06/05/2015	06:39:41	1514293016	F9L71	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_040.rst	06/05/2015	07:00:04	1514293017	F9L72	GC21B	RTXCLP2 0.32mm x 30m	Re-analyze.
21150604B_041.rst	06/05/2015	07:20:31	1514293018	F9L73	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_042.rst	06/05/2015	07:40:57	1514293019	F9L75	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_043.rst	06/05/2015	08:01:21	1514293020	F9L77	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_044.rst	06/05/2015	08:21:45	1514293021	F9L78	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_045.rst	06/05/2015	08:42:09	1514293022	F9L79	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_046.rst	06/05/2015	09:02:35	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150604B_047.rst	06/05/2015	09:22:59	PIBLK42	26387	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_048.rst	06/05/2015	09:43:38	PEM42	26388	GC21B	RTXCLP2 0.32mm x 30m	
21150604B_049.rst	06/05/2015	10:04:02	RINSE		GC21B	RTXCLP2 0.32mm x 30m	PEM42 failed.

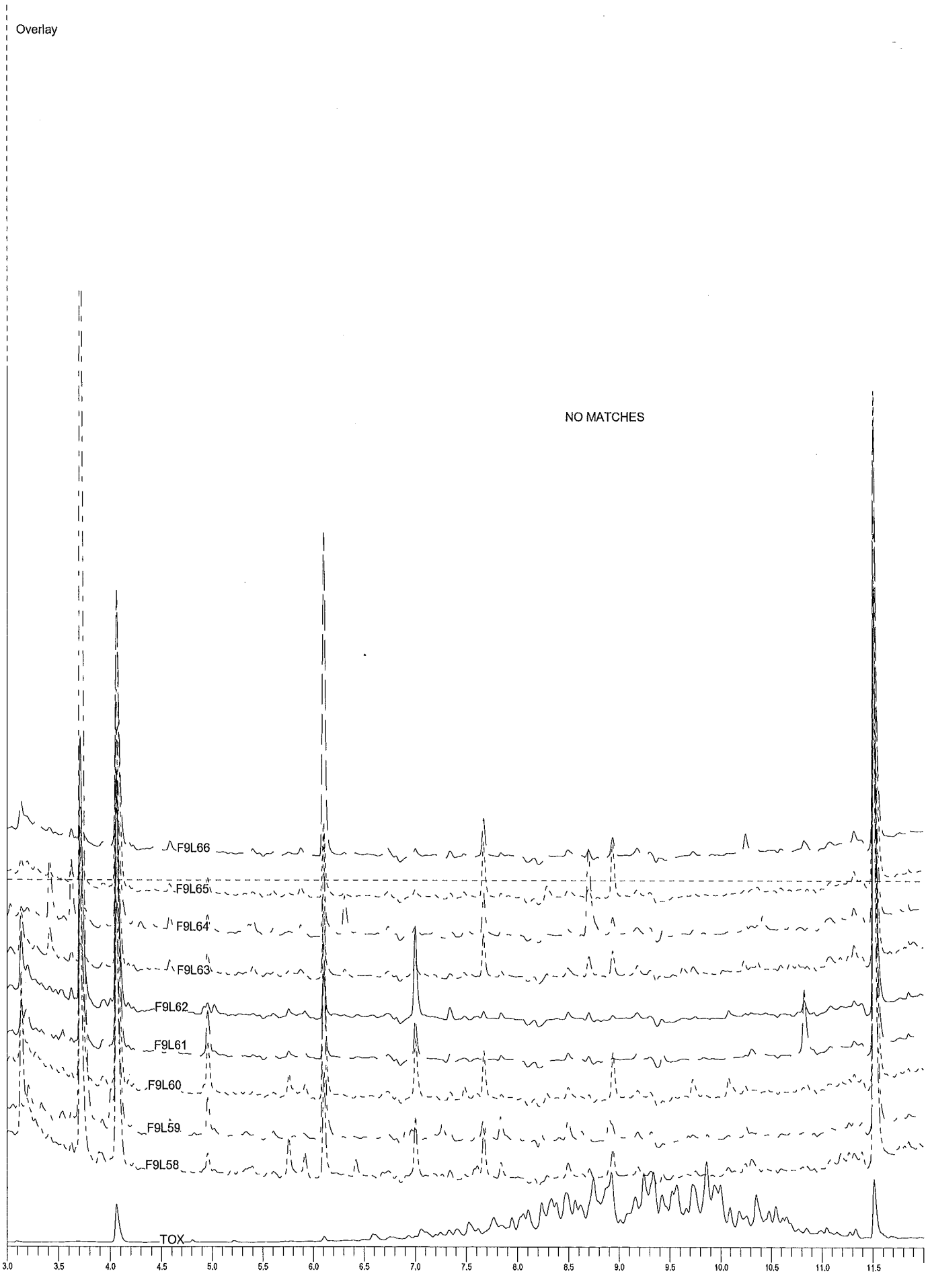
GC/ECD PEST INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID	
21150608A_002.rst	06/08/2015	14:19:24	PRIME		GC21A	RTXCLP 0.32mm x 30m	
21150608A_003.rst	06/08/2015	14:39:44	PRIME		GC21A	RTXCLP 0.32mm x 30m	
21150608A_004.rst	06/08/2015	15:00:10	RESC51	26384	GC21A	RTXCLP 0.32mm x 30m	
21150608A_005.rst	06/08/2015	15:20:32	PEM51	26388	GC21A	RTXCLP 0.32mm x 30m	
21150608A_006.rst	06/08/2015	15:40:58	TOXAPH151	26377	GC21A	RTXCLP 0.32mm x 30m	
21150608A_007.rst	06/08/2015	16:01:20	TOXAPH251	26378	GC21A	RTXCLP 0.32mm x 30m	
21150608A_008.rst	06/08/2015	16:21:44	TOXAPH351	26379	GC21A	RTXCLP 0.32mm x 30m	
21150608A_009.rst	06/08/2015	16:42:08	TOXAPH451	26380	GC21A	RTXCLP 0.32mm x 30m	
21150608A_010.rst	06/08/2015	17:02:36	TOXAPH551	26381	GC21A	RTXCLP 0.32mm x 30m	
21150608A_011.rst	06/08/2015	17:23:17	INDC151	26382	GC21A	RTXCLP 0.32mm x 30m	
21150608A_012.rst	06/08/2015	17:43:41	INDC251	26383	GC21A	RTXCLP 0.32mm x 30m	
21150608A_013.rst	06/08/2015	18:04:13	INDC351	26384	GC21A	RTXCLP 0.32mm x 30m	
21150608A_014.rst	06/08/2015	18:24:41	INDC451	26385	GC21A	RTXCLP 0.32mm x 30m	
21150608A_015.rst	06/08/2015	18:45:19	INDC551	26386	GC21A	RTXCLP 0.32mm x 30m	
21150608A_016.rst	06/08/2015	19:05:49	PIBLK61	26387	GC21A	RTXCLP 0.32mm x 30m	
21150608A_017.rst	06/08/2015	19:26:13	PEM61	26388	GC21A	RTXCLP 0.32mm x 30m	
21150608A_018.rst	06/08/2015	19:46:41	1514293012	F9L67	GC21A	RTXCLP 0.32mm x 30m	
21150608A_019.rst	06/08/2015	20:07:19	1514293013	F9L68	GC21A	RTXCLP 0.32mm x 30m	
21150608A_020.rst	06/08/2015	20:27:44	1514293014	F9L69	GC21A	RTXCLP 0.32mm x 30m	
21150608A_021.rst	06/08/2015	20:48:22	1514293015	F9L70	GC21A	RTXCLP 0.32mm x 30m	
21150608A_022.rst	06/08/2015	21:08:50	1514293016	F9L71	GC21A	RTXCLP 0.32mm x 30m	
21150608A_023.rst	06/08/2015	21:29:12	1514293017	F9L72	GC21A	RTXCLP 0.32mm x 30m	
21150608A_024.rst	06/08/2015	21:49:36	1514293018	F9L73	GC21A	RTXCLP 0.32mm x 30m	
21150608A_025.rst	06/08/2015	22:09:58	1514293019	F9L75	GC21A	RTXCLP 0.32mm x 30m	
21150608A_026.rst	06/08/2015	22:30:20	1514293020	F9L77	GC21A	RTXCLP 0.32mm x 30m	
21150608A_027.rst	06/08/2015	22:50:57	1514293021	F9L78	GC21A	RTXCLP 0.32mm x 30m	
21150608A_028.rst	06/08/2015	23:11:21	1514293022	F9L79	GC21A	RTXCLP 0.32mm x 30m	
21150608A_029.rst	06/08/2015	23:31:41	PIBLK71	26387	GC21A	RTXCLP 0.32mm x 30m	
21150608A_030.rst	06/08/2015	23:51:59	INDC371	26384	GC21A	RTXCLP 0.32mm x 30m	
21150608A_031.rst	06/09/2015	00:12:19	449007	PBLKS1	GC21A	RTXCLP 0.32mm x 30m	
21150608A_032.rst	06/09/2015	00:32:43	449008	PLCSS1	GC21A	RTXCLP 0.32mm x 30m	
21150608A_033.rst	06/09/2015	00:53:17	1514180001	F9L53	GC21A	RTXCLP 0.32mm x 30m	
21150608A_034.rst	06/09/2015	01:13:37	1514301001	F9L76	GC21A	RTXCLP 0.32mm x 30m	
21150608A_035.rst	06/09/2015	01:33:55	1514301002	F9L76MS	GC21A	RTXCLP 0.32mm x 30m	
21150608A_036.rst	06/09/2015	01:54:27	1514301003	F9L76MSD	GC21A	RTXCLP 0.32mm x 30m	
21150608A_037.rst	06/09/2015	02:15:02	1514301004	F9L80	GC21A	RTXCLP 0.32mm x 30m	
21150608A_038.rst	06/09/2015	02:35:22	1514301005	F9L81	GC21A	RTXCLP 0.32mm x 30m	
21150608A_039.rst	06/09/2015	02:55:40	1514301006	F9L82	GC21A	RTXCLP 0.32mm x 30m	Re-analyze.
21150608A_040.rst	06/09/2015	03:16:00	1514301007	F9L83	GC21A	RTXCLP 0.32mm x 30m	
21150608A_041.rst	06/09/2015	03:36:18	1514301008	F9L84	GC21A	RTXCLP 0.32mm x 30m	
21150608A_042.rst	06/09/2015	03:56:54	1514301009	F9L85	GC21A	RTXCLP 0.32mm x 30m	
21150608A_043.rst	06/09/2015	04:17:12	1514301010	F9L86	GC21A	RTXCLP 0.32mm x 30m	
21150608A_044.rst	06/09/2015	04:37:32	1514301011	F9L87	GC21A	RTXCLP 0.32mm x 30m	
21150608A_045.rst	06/09/2015	04:57:52	1514301012	F9L88	GC21A	RTXCLP 0.32mm x 30m	
21150608A_046.rst	06/09/2015	05:18:24	1514301013	F9L89	GC21A	RTXCLP 0.32mm x 30m	
21150608A_047.rst	06/09/2015	05:38:45	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150608A_048.rst	06/09/2015	05:59:05	PIBLK81	26387	GC21A	RTXCLP 0.32mm x 30m	
21150608A_049.rst	06/09/2015	06:19:25	PEM81	26388	GC21A	RTXCLP 0.32mm x 30m	PEM81 failed.
21150608A_050.rst	06/09/2015	06:39:43	RINSE		GC21A	RTXCLP 0.32mm x 30m	
21150608A_051.rst	06/09/2015	07:00:17	RINSE		GC21A	RTXCLP 0.32mm x 30m	

GC/ECD PEST INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID	
21150608B_001.rst	06/08/2015	14:19:24	PRIME		GC21B	RTXCLP2 0.32mm x 30m	
21150608B_002.rst	06/08/2015	14:39:44	PRIME		GC21B	RTXCLP2 0.32mm x 30m	
21150608B_003.rst	06/08/2015	15:00:10	PRIME		GC21B	RTXCLP2 0.32mm x 30m	
21150608B_004.rst	06/08/2015	15:20:32	RESC52	26384	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_005.rst	06/08/2015	15:40:58	PEM52	26388	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_006.rst	06/08/2015	16:01:20	TOXAPH152	26377	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_007.rst	06/08/2015	16:21:44	TOXAPH252	26378	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_008.rst	06/08/2015	16:42:08	TOXAPH352	26379	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_009.rst	06/08/2015	17:02:36	TOXAPH452	26380	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_010.rst	06/08/2015	17:23:17	TOXAPH552	26381	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_011.rst	06/08/2015	17:43:41	INDC152	26382	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_012.rst	06/08/2015	18:04:13	INDC252	26383	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_013.rst	06/08/2015	18:24:41	INDC352	26384	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_014.rst	06/08/2015	18:45:19	INDC452	26385	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_015.rst	06/08/2015	19:05:49	INDC552	26386	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_016.rst	06/08/2015	19:26:13	PIBLK62	26387	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_017.rst	06/08/2015	19:46:41	PEM62	26388	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_018.rst	06/08/2015	20:07:19	1514293012	F9L67	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_019.rst	06/08/2015	20:27:44	1514293013	F9L68	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_020.rst	06/08/2015	20:48:22	1514293014	F9L69	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_021.rst	06/08/2015	21:08:50	1514293015	F9L70	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_022.rst	06/08/2015	21:29:12	1514293016	F9L71	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_023.rst	06/08/2015	21:49:36	1514293017	F9L72	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_024.rst	06/08/2015	22:09:58	1514293018	F9L73	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_025.rst	06/08/2015	22:30:20	1514293019	F9L75	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_026.rst	06/08/2015	22:50:57	1514293020	F9L77	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_027.rst	06/08/2015	23:11:21	1514293021	F9L78	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_028.rst	06/08/2015	23:31:41	1514293022	F9L79	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_029.rst	06/08/2015	23:51:59	PIBLK72	26387	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_030.rst	06/09/2015	00:12:19	INDC372	26384	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_031.rst	06/09/2015	00:32:43	449007	PBLKS1	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_032.rst	06/09/2015	00:53:17	449008	PLCSS1	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_033.rst	06/09/2015	01:13:37	1514180001	F9L53	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_034.rst	06/09/2015	01:33:55	1514301001	F9L76	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_035.rst	06/09/2015	01:54:27	1514301002	F9L76MS	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_036.rst	06/09/2015	02:15:02	1514301003	F9L76MSD	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_037.rst	06/09/2015	02:35:22	1514301004	F9L80	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_038.rst	06/09/2015	02:55:40	1514301005	F9L81	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_039.rst	06/09/2015	03:16:00	1514301006	F9L82	GC21B	RTXCLP2 0.32mm x 30m	Re-analyzed.
21150608B_040.rst	06/09/2015	03:36:18	1514301007	F9L83	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_041.rst	06/09/2015	03:56:54	1514301008	F9L84	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_042.rst	06/09/2015	04:17:12	1514301009	F9L85	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_043.rst	06/09/2015	04:37:32	1514301010	F9L86	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_044.rst	06/09/2015	04:57:52	1514301011	F9L87	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_045.rst	06/09/2015	05:18:24	1514301012	F9L88	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_046.rst	06/09/2015	05:38:45	1514301013	F9L89	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_047.rst	06/09/2015	05:59:05	RINSE		GC21B	RTXCLP2 0.32mm x 30m	
21150608B_048.rst	06/09/2015	06:19:25	PIBLK82	26387	GC21B	RTXCLP2 0.32mm x 30m	
21150608B_049.rst	06/09/2015	06:39:43	PEM82	26388	GC21B	RTXCLP2 0.32mm x 30m	PEM82 failed.
21150608B_050.rst	06/09/2015	07:00:17	RINSE		GC21B	RTXCLP2 0.32mm x 30m	

Plot Title	Start Time	End Time	Scale	Offset
21150604A_026.raw Sample Name : 1514293007 Sample Number: 026 Instrument File Name: G:\GCE21\21150604\21_som_acq_pest	3.00	12.00	99.00	21.00
21150604A_022.raw Sample Name : 1514293003 Sample Number: 022 Instrument File Name: G:\GCE21\21150604\21_som_acq_pest	3.00	12.00	99.00	21.00
21150604A_025.raw Sample Name : 1514293006 Sample Number: 025 Instrument File Name: G:\GCE21\21150604\21_som_acq_pest	3.00	12.00	99.00	21.00
21150604A_021.raw Sample Name : 1514293002 Sample Number: 021 Instrument File Name: G:\GCE21\21150604\21_som_acq_pest	3.00	12.00	99.00	21.00
21150604A_008.raw Sample Name : TOXAPH311 Sample Number: 008 Instrument File Name: G:\GCE21\21150604\21_som_acq_pest	3.00	12.00	400.00	21.00
21150604A_024.raw Sample Name : 1514293005 Sample Number: 024 Instrument File Name: G:\GCE21\21150604\21_som_acq_pest	3.00	12.00	99.00	21.00
21150604A_020.raw Sample Name : 1514293001 Sample Number: 020 Instrument File Name: G:\GCE21\21150604\21_som_acq_pest	3.00	12.00	99.00	21.00
21150604A_027.raw Sample Name : 1514293008 Sample Number: 027 Instrument File Name: G:\GCE21\21150604\21_som_acq_pest	3.00	12.00	99.00	21.00
21150604A_023.raw Sample Name : 1514293004 Sample Number: 023 Instrument File Name: G:\GCE21\21150604\21_som_acq_pest	3.00	12.00	99.00	21.00
21150604A_028.raw Sample Name : 1514293009 Sample Number: 028 Instrument File Name: G:\GCE21\21150604\21_som_acq_pest	3.00	12.00	99.00	21.00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F9L64
F9L63
F9L62
F9L61
F9L60
F9L59
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11.0
11.5

Plot Title		Start Time	End Time	Scale	Offset
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Sample Name :	1514293020				
Sample Number:	026				
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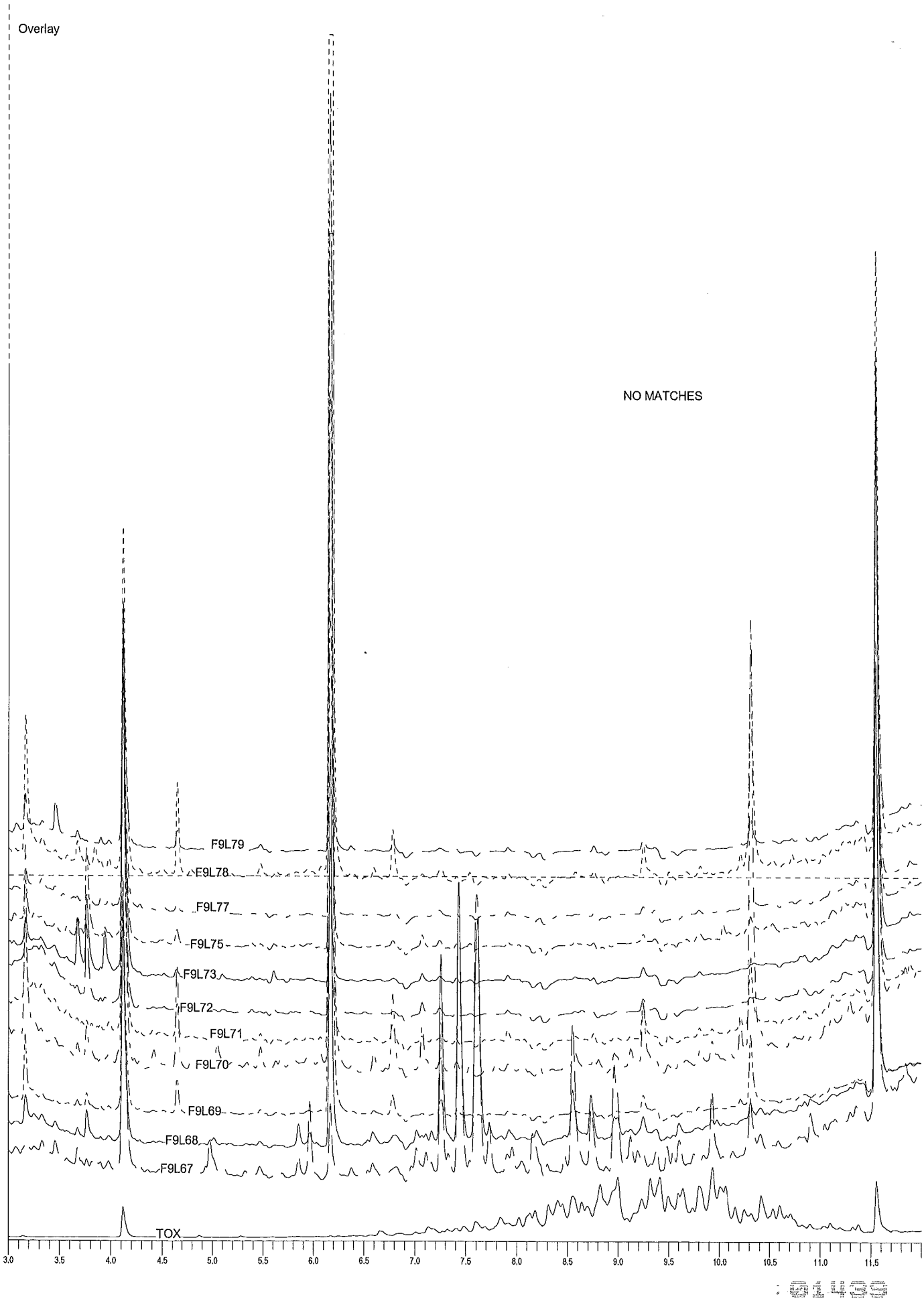
21150608A_022.raw		3.00	12.00	99.00	21.00
Sample Name :	1514293016				
Sample Number:	022				
Instrument File Name:	G:\GCE21\21150608\21_som_acq_pest				
21150608A_021.raw		3.00	12.00	99.00	21.00
Sample Name :	1514293015				
Sample Number:	021				
Instrument File Name:	G:\GCE21\21150608\21_som_acq_pest				
21150608A_008.raw		3.00	12.00	500.00	21.00
Sample Name :	TOXAPH351				
Sample Number:	008				
Instrument File Name:	G:\GCE21\21150608\21_som_acq_pest				
21150608A_025.raw		3.00	12.00	99.00	21.00
Sample Name :	1514293019				
Sample Number:	025				
Instrument File Name:	G:\GCE21\21150608\21_som_acq_pest				
21150608A_020.raw		3.00	12.00	99.00	21.00
Sample Name :	1514293014				
Sample Number:	020				
Instrument File Name:	G:\GCE21\21150608\21_som_acq_pest				
21150608A_028.raw		3.00	12.00	99.00	21.00
Sample Name :	1514293022				
Sample Number:	028				
Instrument File Name:	G:\GCE21\21150608\21_som_acq_pest				
21150608A_024.raw		3.00	12.00	99.00	21.00
Sample Name :	1514293018				
Sample Number:	024				
Instrument File Name:	G:\GCE21\21150608\21_som_acq_pest				
21150608A_019.raw		3.00	12.00	99.00	21.00
Sample Name :	1514293013				
Sample Number:	019				
Instrument File Name:	G:\GCE21\21150608\21_som_acq_pest				
21150608A_027.raw		3.00	12.00	99.00	21.00
Sample Name :	1514293021				
Sample Number:	027				
Instrument File Name:	G:\GCE21\21150608\21_som_acq_pest				
21150608A_023.raw		3.00	12.00	99.00	21.00
Sample Name :	1514293017				
Sample Number:	023				
Instrument File Name:	G:\GCE21\21150608\21_som_acq_pest				
21150608A_018.raw		3.00	12.00	99.00	21.00
Sample Name :	1514293012				
Sample Number:	018				
Instrument File Name:	G:\GCE21\21150608\21_som_acq_pest				


Overlay
NO MATCHES
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F9L73
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5.5
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6.5
7.0
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8.0
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9.0
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10.5
11.0
11.5

Batch Worklist

Batch: ENVX/ 21658 Created: 5/26/2015 12:20 Instrument: HBN: 149311

Rule: Sonication Extrcn, Pest/Aclr Analyst: L. Edwards Status: NA

Workorder: 1514293 SDG: F9L58 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	448474	MB for HBN 149311 [ENVX/21658]	30.00g	5ml		MB	4		SNCTNPA.4P	6158	6/5/2015	5/23/2015	
2	448475	LCS-P for HBN 149311 [ENVX/216	30.00g			LCS-P	4		SNCTNPA.4P	6158	6/5/2015	5/23/2015	
3	448476	LCS-A for HBN 149311 [ENVX/216	30.00g			LCS-A	4		SNCTNPA.4P	6158	6/5/2015	5/23/2015	
4	1514293001	F9L58	30.15g			SAMPLE	4	1514293001-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
5	1514293002	F9L59	30.20g			SAMPLE	4	1514293002-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
6	1514293003	F9L60	30.30g			SAMPLE	4	1514293003-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
7	1514293004	F9L61	30.16g			SAMPLE	4	1514293004-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
8	1514293005	F9L62	30.16g			SAMPLE	4	1514293005-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
9	1514293006	F9L63	30.32g			SAMPLE	4	1514293006-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
10	1514293007	F9L64	30.11g			SAMPLE	4	1514293007-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
11	1514293008	F9L65	30.14g			SAMPLE	4	1514293008-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
12	1514293009	F9L66	30.07g			SAMPLE	4	1514293009-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
13	1514293010	F9L66MS	30.03g			MS	4	1514293010-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
14	1514293011	F9L66MSD	30.17g			MSD	4	1514293011-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
15	1514293012	F9L67	30.00g			SAMPLE	4	1514293012-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
16	1514293013	F9L68	30.41g			SAMPLE	4	1514293013-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
17	1514293014	F9L69	30.21g			SAMPLE	4	1514293014-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
18	1514293015	F9L70	30.24g			SAMPLE	4	1514293015-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
19	1514293016	F9L71	30.31g			SAMPLE	4	1514293016-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
20	1514293017	F9L72	30.19g			SAMPLE	4	1514293017-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
21	1514293018	F9L73	30.40g			SAMPLE	4	1514293018-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
22	1514293019	F9L75	30.42g			SAMPLE	4	1514293019-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
23	1514293020	F9L77	30.23g			SAMPLE	4	1514293020-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
24	1514293021	F9L78	30.16g			SAMPLE	4	1514293021-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
25	1514293022	F9L79	30.44g			SAMPLE	4	1514293022-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	

mjc

same PEST

Batch Worklist

Batch: ENVX/ 21684 Created: 5/29/2015 09:09 Instrument: GPC06 HBN: 149537

Rule: GPC Pest/Aro Analyst: L. Edwards Status: NA

Workorder: 1514293 SDG: F9L58 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	449006	GB for HBN 149537 [ENVX/21684]				GB	4		E.GPC.PA.P	6158		5/28/2015	5/27/2015
2	448474	MB for HBN 149311 [ENVX/21658]	30 grams	5 mL		MB	4		E.GPC.PA.P	6158		5/28/2015	5/27/2015
3	448475	LCS-P for HBN 149311 [ENVX/216	30 grams	5 mL		LCS-P	4		E.GPC.PA.P	6158		5/28/2015	5/27/2015
4	448476	LCS-A for HBN 149311 [ENVX/216	30 grams	5 mL		LCS-A	4		E.GPC.PA.P	6158		5/28/2015	5/27/2015
5	1514293001	F9L58	30.15 grams	5 mL		SAMPLE	4	1514293001-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
6	1514293002	F9L59	30.2 grams	5 mL		SAMPLE	4	1514293002-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
7	1514293003	F9L60	30.3 grams	5 mL		SAMPLE	4	1514293003-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
8	1514293004	F9L61	30.16 grams	5 mL		SAMPLE	4	1514293004-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
9	1514293005	F9L62	30.16 grams	5 mL		SAMPLE	4	1514293005-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
10	1514293006	F9L63	30.32 grams	5 mL		SAMPLE	4	1514293006-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
11	1514293007	F9L64	30.11 grams	5 mL		SAMPLE	4	1514293007-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
12	1514293008	F9L65	30.14 grams	5 mL		SAMPLE	4	1514293008-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
13	1514293009	F9L66	30.07 grams	5 mL		SAMPLE	4	1514293009-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
14	1514293010	F9L66MS	30.03 grams	5 mL		MS	4	1514293010-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
15	1514293011	F9L66MSD	30.17 grams	5 mL		MSD	4	1514293011-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
16	1514293012	F9L67	30 grams	5 mL		SAMPLE	4	1514293012-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
17	1514293013	F9L68	30.41 grams	5 mL		SAMPLE	4	1514293013-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
18	1514293014	F9L69	30.21 grams	5 mL		SAMPLE	4	1514293014-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
19	1514293015	F9L70	30.24 grams	5 mL		SAMPLE	4	1514293015-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
20	1514293016	F9L71	30.31 grams	5 mL		SAMPLE	4	1514293016-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
21	1514293017	F9L72	30.19 grams	5 mL		SAMPLE	4	1514293017-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
22	1514293018	F9L73	30.4 grams	5 mL		SAMPLE	4	1514293018-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
23	1514293019	F9L75	30.42 grams	5 mL		SAMPLE	4	1514293019-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
24	1514293020	F9L77	30.23 grams	5 mL		SAMPLE	4	1514293020-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
25	1514293021	F9L78	30.16 grams	5 mL		SAMPLE	4	1514293021-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
26	1514293022	F9L79	30.44 grams	5 mL		SAMPLE	4	1514293022-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015

ALS Laboratory Group GPC Injection Logbook

Method:	**SOM01.2**	**Analytical Method**	**Pest/ARO**	**Work Order ID:**	**1514293**	**Horizon Batch ID:**	**149537**
Account:	**08201**	**Instrument ID:**	**GPC06**	**Column ID:**	**8181346-1 690492-1**	**Flow Rate:**	**5mL/min.**
Load Date:	**5/27/15**	**Load Time:**	**15:35**	**Pressure (PSI)**	**159**	**PST/ARO Weekly ID:**	**5/25/15**

Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	449006	GPC06 Blank	
2	448474	MB for HBN 149311	
3	448475	LCS-P for HBN 149311	
4	448476	LCS-A for HBN 149311	
5	1514293001	F9L58	
6	1514293002	F9L59	
7	1514293003	F9L60	
8	1514293004	F9L61	
9	1514293005	F9L62	
10	1514293006	F9L63	
11	1514293007	F9L64	
12	1514293008	F9L65	
13	1514293009	F9L66	
14	1514293010	F9L66MS	
15	1514293011	F9L66MSD	
16	1514293010	F9L66MS	
17	1514293011	F9L66MSD	
18	1514293012	F9L67	
19	1514293013	F9L68	
20	1514293014	F9L69	
21	1514293015	F9L70	
22	1514293016	F9L71	
23	1514293017	F9L72	
24	1514293018	F9L73	
25	1514293019	F9L75	
26	1514293020	F9L77	
27	1514293021	F9L78	
28	1514293022	F9L79	
29	Rinse		Column Wash

$MeCl_2$ Lot:	**97623**	**General Comments:**
Dump Time (min.):	**18.7**	if noted above - 1:10 dilutions made to protect GPC column
Collect Time (min.):	**29.5**	Analyst - Lyle Edwards
Wash Time(min.):	**10**	
GPC Standard ID:	**195WS38822**	

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client US EPA REGION 6 Case/SDG # 45316 / F9L58 Horizon Extraction HBN 149311

Work Order# 1514293 Sample #'s 1-22 Extraction Method Somo 1.2

SOP: OE-EP-SOM Analytical Fraction PEST Matrix SOIL

Date samples weighed out 5/26/15 by PT balance # 120212065

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 5/27/15 0700 Stop Date/Time (CLLE's/Soxlet) CDE Extracted by CDE

	Drying Agent	Salt	Solvents		Exchange Solvent
Solvent/Reagent used	☑ Na_2SO_4 ☐ N/A	☐ NaCl ☑ N/A	☐ CH_2Cl_2 ☐ Hexane ☐ Acetonitrile ☐ Hexane/Ether ( )	☑ CH_2Cl_2/Acetone (1:1)	☑ Hexane ☐ Toluene ☐ N/A ☐ CH_2Cl_2
Vendor	JTBAKER	CDE	JT BAKER	B&J	BDJ
Lot Number	108985		5/27/15 97623	DM245	DM196
Amount	PERSOP		PERSOP	PERSOP	60ml

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	26390	26391	26392	CDE
Spiked Amount	1mL	.2mL	.2mL	
Spiked By	CDE	CDE	CDE	

	Acid Solution	Base Solution		
Standard ID				
Spiked Amount *				
pH Adjustment *				
Spiked By				

* exceptions are noted in comments below

Comments

Pre-GPC Concentration: Date/Time 5/27/15 14:00 by MJC Comments The temp was 65°C

Final Concentration: Date/Time 5/29/15 10:00 by MJC Comments The Temp was 77°C

Florisil (pesticides only) Date/Time 5/29/15 14:00 by MJC Florisil Column Lot # 74680

Comments

Checker Signature Lyle Edwards **Date** 5/28/15

STANDARD REPORT

Working Standard - PSTCLP SURR

PSTCLP SURR		Description - PSTCLP TCX/DCB 10/20 INT
Standard: 26365	Created By: S. Sagers	Amount: 50 mL
MFG: ALS	Create Date: 12/12/2014	Expires: 06/12/2015
MFG Lot: INT	Lab Lot: EGC141212001	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	10 ug/mL
2	2051-24-3	Decachlorobiphenyl	20 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21716	CLP SURR	CLP SURR STOCK	A093842	5 mL	06/30/2019
23771	Hexanes	Hexanes DJ160	DJ160	45 mL	06/10/2024

STANDARD REPORT

Working Standard - PSTCLP TOX

PSTCLP TOX — Description - PSTCLP TOX 1/2/100 INT

Standard:	26366	**Created By:**	S. Sagers	**Amount:**	50 mL
MFG:	ALS	**Create Date:**	12/12/2014	**Expires:**	06/12/2015
MFG Lot:	INT	**Lab Lot:**	EGC141212002	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	100.15 ug/mL
2	877-09-8	Tetrachloro-m-xylene	1 ug/mL
3	2051-24-3	Decachlorobiphenyl	2 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21739	Toxaphene	Toxaphene 1000 ppm	031412	5 mL	03/14/2022
23771	Hexanes	Hexanes DJ160	DJ160	40 mL	06/10/2024
26365	PSTCLP SURR	PSTCLP TCX/DCB 10/20 INT	EGC141212001	5 mL	06/12/2015

STANDARD REPORT

Working Standard - PSTCLP PEST

PSTCLP PEST — Description: PSTCLP PEST 1/2/10 INT

Standard: 26367	Created By: S. Sagers	Amount: 50 mL
MFG: ALS	Create Date: 12/12/2014	Expires: 06/12/2015
MFG Lot: INT	Lab Lot: EGC141212003	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	1 ug/mL
2	319-84-6	alpha-BHC	1 ug/mL
3	58-89-9	gamma-BHC	1 ug/mL
4	319-85-7	beta-BHC	1 ug/mL
5	319-86-8	delta-BHC	1 ug/mL
6	76-44-8	Heptachlor	1 ug/mL
7	309-00-2	Aldrin	1 ug/mL
8	1024-57-3	Heptachlor epoxide	1 ug/mL
9	12789-03-6	gamma-Chlordane	1 ug/mL
10	5103-71-9	alpha-Chlordane	1 ug/mL
11	72-55-9	4,4'-DDE	2 ug/mL
12	959-98-8	Endosulfan-I	1 ug/mL
13	60-57-1	Dieldrin	2 ug/mL
14	72-20-8	Endrin	2 ug/mL
15	72-54-8	4,4'-DDD	2 ug/mL
16	33213-65-9	Endosulfan-II	2 ug/mL
17	50-29-3	4,4'-DDT	2 ug/mL
18	7421-93-4	Endrin aldehyde	2 ug/mL
19	72-43-5	Methoxychlor	10 ug/mL
20	1031-07-8	Endosulfan sulfate	2 ug/mL
21	53494-70-5	Endrin ketone	2 ug/mL
22	2051-24-3	Decachlorobiphenyl	2 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	45 mL	06/10/2024
25777	PSTCLP MIXC	PSTCLP MIXC 5/10/50	A093873	5 mL	03/31/2017

STANDARD REPORT

Working Standard - PSTCLP TOX1

PSTCLP TOX1 — Description - PSTCLP TOX1 005/01/5

Standard:	26377	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	12/12/2014	**Expires:**	06/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC141212004	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	0.50075 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	99.5 mL	06/10/2024
26366	PSTCLP TOX	PSTCLP TOX 1/2/100 INT	EGC141212002	0.5 mL	06/12/2015

STANDARD REPORT

Working Standard - PSTCLP TOX2

PSTCLP TOX2 — Description - PSTCLP TOX2 01/02/1

Standard:	26378	**Created By:** S. Sagers	**Amount:** 100 mL
MFG:	ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot:	WS	**Lab Lot:** EGC141212005	**Usable:** Yes
Part ID:			

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	1.0015 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	99 mL	06/10/2024
26366	PSTCLP TOX	PSTCLP TOX 1/2/100 INT	EGC141212002	1 mL	06/12/2015

STANDARD REPORT

Working Standard - PSTCLP TOX3

PSTCLP TOX3 — Description - PSTCLP TOX3 02/04/2

Standard: 26379	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212006	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	2.003 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	98 mL	08/10/2024
26366	PSTCLP TOX	PSTCLP TOX 1/2/100 INT	EGC141212002	2 mL	06/12/2015

STANDARD REPORT

Working Standard - PSTCLP TOX4

PSTCLP TOX4 — Description: PSTCLP TOX4 04/08/4

Standard: 26380	Created By: S. Sagers	Amount: 100 mL
MFG: ALS	Create Date: 12/12/2014	Expires: 06/12/2015
MFG Lot: WS	Lab Lot: EGC141212007	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	4.006 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	96 mL	06/10/2024
26366	PSTCLP TOX	PSTCLP TOX 1/2/100 INT	EGC141212002	4 mL	06/12/2015

STANDARD REPORT

Working Standard - PSTCLP TOX5

PSTCLP TOX5 — Description: PSTCLP TOX5 1/2/10

Standard:	26381	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	12/12/2014	**Expires:**	06/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC141212008	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	8001-35-2	Toxaphene	10.015 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.1 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.2 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	90 mL	06/10/2024
26366	PSTCLP TOX	PSTCLP TOX 1/2/100 INT	EGC141212002	10 mL	06/12/2015

STANDARD REPORT

Working Standard - PSTCLP PST1

PSTCLP PST1 — Description: PSTCLP PST1 005/01/05

Standard:	26382	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	12/12/2014	**Expires:**	06/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC141212009	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
2	319-84-6	alpha-BHC	0.005 ug/mL
3	58-89-9	gamma-BHC	0.005 ug/mL
4	319-85-7	beta-BHC	0.005 ug/mL
5	319-86-8	delta-BHC	0.005 ug/mL
6	76-44-8	Heptachlor	0.005 ug/mL
7	309-00-2	Aldrin	0.005 ug/mL
8	1024-57-3	Heptachlor epoxide	0.005 ug/mL
9	12789-03-6	gamma-Chlordane	0.005 ug/mL
10	5103-71-9	alpha-Chlordane	0.005 ug/mL
11	72-55-9	4,4'-DDE	0.01 ug/mL
12	959-98-8	Endosulfan-I	0.005 ug/mL
13	60-57-1	Dieldrin	0.01 ug/mL
14	72-20-8	Endrin	0.01 ug/mL
15	72-54-8	4,4'-DDD	0.01 ug/mL
16	33213-65-9	Endosulfan-II	0.01 ug/mL
17	50-29-3	4,4'-DDT	0.01 ug/mL
18	7421-93-4	Endrin aldehyde	0.01 ug/mL
19	72-43-5	Methoxychlor	0.05 ug/mL
20	1031-07-8	Endosulfan sulfate	0.01 ug/mL
21	53494-70-5	Endrin ketone	0.01 ug/mL
22	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	99.5 mL	06/10/2024
26367	PSTCLP PEST	PSTCLP PEST 1/2/10 INT	EGC141212003	0.5 mL	06/12/2015

STANDARD REPORT

Working Standard - PSTCLP PST2

PSTCLP PST2 — **Description:** PSTCLP PST2 01/02/1

Standard:	26383	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	12/12/2014	**Expires:**	06/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC141212010	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
2	319-84-6	alpha-BHC	0.01 ug/mL
3	58-89-9	gamma-BHC	0.01 ug/mL
4	319-85-7	beta-BHC	0.01 ug/mL
5	319-86-8	delta-BHC	0.01 ug/mL
6	76-44-8	Heptachlor	0.01 ug/mL
7	309-00-2	Aldrin	0.01 ug/mL
8	1024-57-3	Heptachlor epoxide	0.01 ug/mL
9	12789-03-6	gamma-Chlordane	0.01 ug/mL
10	5103-71-9	alpha-Chlordane	0.01 ug/mL
11	72-55-9	4,4'-DDE	0.02 ug/mL
12	959-98-8	Endosulfan-I	0.01 ug/mL
13	60-57-1	Dieldrin	0.02 ug/mL
14	72-20-8	Endrin	0.02 ug/mL
15	72-54-8	4,4'-DDD	0.02 ug/mL
16	33213-65-9	Endosulfan-II	0.02 ug/mL
17	50-29-3	4,4'-DDT	0.02 ug/mL
18	7421-93-4	Endrin aldehyde	0.02 ug/mL
19	72-43-5	Methoxychlor	0.1 ug/mL
20	1031-07-8	Endosulfan sulfate	0.02 ug/mL
21	53494-70-5	Endrin ketone	0.02 ug/mL
22	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	99 mL	06/10/2024
26367	PSTCLP PEST	PSTCLP PEST 1/2/10 INT	EGC141212003	1 mL	06/12/2015

STANDARD REPORT

Working Standard - PSTCLP PST3

PSTCLP PST3 — **Description:** PSTCLP PST3 02/04/2

Standard: 26384	**Created By:** S. Sagers	**Amount:** 200 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212011	**Usable:** Yes
Part ID:		

Pos	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
2	319-84-6	alpha-BHC	0.02 ug/mL
3	58-89-9	gamma-BHC	0.02 ug/mL
4	319-85-7	beta-BHC	0.02 ug/mL
5	319-86-8	delta-BHC	0.02 ug/mL
6	76-44-8	Heptachlor	0.02 ug/mL
7	309-00-2	Aldrin	0.02 ug/mL
8	1024-57-3	Heptachlor epoxide	0.02 ug/mL
9	12789-03-6	gamma-Chlordane	0.02 ug/mL
10	5103-71-9	alpha-Chlordane	0.02 ug/mL
11	72-55-9	4,4'-DDE	0.04 ug/mL
12	959-98-8	Endosulfan-I	0.02 ug/mL
13	60-57-1	Dieldrin	0.04 ug/mL
14	72-20-8	Endrin	0.04 ug/mL
15	72-54-8	4,4'-DDD	0.04 ug/mL
16	33213-65-9	Endosulfan-II	0.04 ug/mL
17	50-29-3	4,4'-DDT	0.04 ug/mL
18	7421-93-4	Endrin aldehyde	0.04 ug/mL
19	72-43-5	Methoxychlor	0.2 ug/mL
20	1031-07-8	Endosulfan sulfate	0.04 ug/mL
21	53494-70-5	Endrin ketone	0.04 ug/mL
22	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	196 mL	06/10/2024
26367	PSTCLP PEST	PSTCLP PEST 1/2/10 INT	EGC141212003	4 mL	06/12/2015

STANDARD REPORT

Working Standard - PSTCLP PST4

PSTCLP PST4 — Description: PSTCLP PST4 04/08/4

Standard: 26386	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212012	**Usable:** Yes
Part ID:		

Pos	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
2	319-84-6	alpha-BHC	0.04 ug/mL
3	58-89-9	gamma-BHC	0.04 ug/mL
4	319-85-7	beta-BHC	0.04 ug/mL
5	319-86-8	delta-BHC	0.04 ug/mL
6	76-44-8	Heptachlor	0.04 ug/mL
7	309-00-2	Aldrin	0.04 ug/mL
8	1024-57-3	Heptachlor epoxide	0.04 ug/mL
9	12789-03-6	gamma-Chlordane	0.04 ug/mL
10	5103-71-9	alpha-Chlordane	0.04 ug/mL
11	72-55-9	4,4'-DDE	0.08 ug/mL
12	959-98-8	Endosulfan-I	0.04 ug/mL
13	60-57-1	Dieldrin	0.08 ug/mL
14	72-20-8	Endrin	0.08 ug/mL
15	72-54-8	4,4'-DDD	0.08 ug/mL
16	33213-65-9	Endosulfan-II	0.08 ug/mL
17	50-29-3	4,4'-DDT	0.08 ug/mL
18	7421-93-4	Endrin aldehyde	0.08 ug/mL
19	72-43-5	Methoxychlor	0.4 ug/mL
20	1031-07-8	Endosulfan sulfate	0.08 ug/mL
21	53494-70-5	Endrin ketone	0.08 ug/mL
22	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	96 mL	06/10/2024
26367	PSTCLP PEST	PSTCLP PEST 1/2/10 INT	EGC141212003	4 mL	06/12/2015

STANDARD REPORT

Working Standard - PSTCLP PST5

PSTCLP PST5 — **Description: PSTCLP PST5 1/2/1**

Standard:	26386	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	12/12/2014	**Expires:**	06/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC141212013	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.1 ug/mL
2	319-84-6	alpha-BHC	0.1 ug/mL
3	58-89-9	gamma-BHC	0.1 ug/mL
4	319-85-7	beta-BHC	0.1 ug/mL
5	319-86-8	delta-BHC	0.1 ug/mL
6	76-44-8	Heptachlor	0.1 ug/mL
7	309-00-2	Aldrin	0.1 ug/mL
8	1024-57-3	Heptachlor epoxide	0.1 ug/mL
9	12789-03-6	gamma-Chlordane	0.1 ug/mL
10	5103-71-9	alpha-Chlordane	0.1 ug/mL
11	72-55-9	4,4'-DDE	0.2 ug/mL
12	959-98-8	Endosulfan-I	0.1 ug/mL
13	60-57-1	Dieldrin	0.2 ug/mL
14	72-20-8	Endrin	0.2 ug/mL
15	72-54-8	4,4'-DDD	0.2 ug/mL
16	33213-65-9	Endosulfan-II	0.2 ug/mL
17	50-29-3	4,4'-DDT	0.2 ug/mL
18	7421-93-4	Endrin aldehyde	0.2 ug/mL
19	72-43-5	Methoxychlor	1 ug/mL
20	1031-07-8	Endosulfan sulfate	0.2 ug/mL
21	53494-70-5	Endrin ketone	0.2 ug/mL
22	2051-24-3	Decachlorobiphenyl	0.2 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	90 mL	06/10/2024
26367	PSTCLP PEST	PSTCLP PEST 1/2/10 INT	EGC141212003	10 mL	06/12/2015

STANDARD REPORT

Working Standard - PSTCLP IBLK

PSTCLP IBLK — Description - PSTCLP IBLK 0.02/0.04

Standard: 26387	**Created By:** S. Sagers	**Amount:** 500 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212014	**Usable:** Yes
Part ID:		

Pos	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
2	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	499 mL	06/10/2024
26365	PSTCLP SURR	PSTCLP TCX/DCB 10/20 INT	EGC141212001	1 mL	06/12/2015

STANDARD REPORT

Working Standard - PSTCLP PEM

PSTCLP PEM — Description - PSTCLP PEM 01/02/05/1/25

Standard:	26388	**Created By:**	S. Sagers	**Amount:**	200 mL
MFG:	ALS	**Create Date:**	12/12/2014	**Expires:**	06/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC141212015	**Usable:**	Yes
Part ID:					

Pos	Analyte	Name	Concentration
1	319-84-6	alpha-BHC	0.01 ug/mL
2	58-89-9	gamma-BHC	0.01 ug/mL
3	319-85-7	beta-BHC	0.01 ug/mL
4	72-20-8	Endrin	0.05 ug/mL
5	50-29-3	4,4'-DDT	0.1 ug/mL
6	72-43-5	Methoxychlor	0.25 ug/mL
7	2051-24-3	Decachlorobiphenyl	0.02 ug/mL
8	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21717	PSTCLP PEM	PSTCLP PEM 1/2/5/10/25	A085642	2 mL	12/31/2015
23771	Hexanes	Hexanes DJ160	DJ160	198 mL	06/10/2024

STANDARD REPORT

Working Standard - PSTCLP 245TP

PSTCLP 245TP		Description - PSTCLP 245TCP 1
Standard: 26389	Created By: S. Sagers	Amount: 50 mL
MFG: ALS	Create Date: 12/12/2014	Expires: 06/12/2015
MFG Lot: WS	Lab Lot: EGC141212016	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	95-95-4	2,4,5-Trichlorophenol	0.02007 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	49.995 mL	06/10/2024
25776	PSTCLP245TP	PSTCLP 245TCP 1000	A099095	0.005 mL	01/31/2020

STANDARD REPORT

Working Standard - PSTCLP SUR

PSTCLP SUR — Description - PSTCLP SURR SPIKE 6/1.2

Standard:	26390	**Created By:**	S. Sagers	**Amount:**	1000 mL
MFG:	ALS	**Create Date:**	12/12/2014	**Expires:**	06/12/2015
MFG Lot:	SPIKE	**Lab Lot:**	EGC141212017	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.6 ug/mL
2	2051-24-3	Decachlorobiphenyl	1.2 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
19305	Acetone	Acetone K41E22	K41E22	994 mL	06/09/2023
21716	CLP SURR	CLP SURR STOCK	A093842	6 mL	06/30/2019

STANDARD REPORT

Working Standard - PSTCLP LCS

PSTCLP LCS	Description - PSTCLP LCS SPIKE, 25/5 SPIKE

Standard:	26391	**Created By:**	S. Sagers	**Amount:**	100 mL
MFG:	ALS	**Create Date:**	12/12/2014	**Expires:**	06/12/2015
MFG Lot:	SPIKE	**Lab Lot:**	EGC141212018	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	58-89-9	gamma-BHC	0.25 ug/mL
2	1024-57-3	Heptachlor epoxide	0.25 ug/mL
3	12789-03-6	gamma-Chlordane	0.25 ug/mL
4	60-57-1	Dieldrin	0.5 ug/mL
5	72-55-9	4,4'-DDE	0.5 ug/mL
6	1031-07-8	Endosulfan sulfate	0.5 ug/mL
7	72-20-8	Endrin	0.5 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
15473	PSTCLP LCS	PSTCLP LCS 10/20 STOCK	A088867	2.5 mL	11/30/2016
23771	Hexanes	Hexanes DJ160	DJ160	97.5 mL	06/10/2024

STANDARD REPORT

Working Standard - PSTCLP MS

PSTCLP MS — Description - PSTCLP MS SPIKE 2.5/5 SPIKE

Standard: 26392	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: SPIKE	**Lab Lot:** EGC141212019	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	58-89-9	gamma-BHC	2.505 ug/mL
2	50-29-3	4,4'-DDT	5.025 ug/mL
3	60-57-1	Dieldrin	5.02 ug/mL
4	72-20-8	Endrin	5.02 ug/mL
5	76-44-8	Heptachlor	2.51 ug/mL
6	309-00-2	Aldrin	2.515 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
15377	PSTCLP MS	PSTCLP MS 50/100	102711	5 mL	10/27/2016
23771	Hexanes	Hexanes DJ160	DJ160	95 mL	06/10/2024

STANDARD REPORT

Working Standard - PSTCLP GPC

PSTCLP GPC — Description - PSTCLP GPC 02/04 SPIKE

Standard:	26393	**Created By:**	S. Sagers	**Amount:**	1000 mL
MFG:	ALS	**Create Date:**	12/12/2014	**Expires:**	06/12/2015
MFG Lot:	GPC WEEKLY	**Lab Lot:**	EGC141212020	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	58-89-9	gamma-BHC	0.02004 ug/mL
2	50-29-3	4,4'-DDT	0.0402 ug/mL
3	60-57-1	Dieldrin	0.04016 ug/mL
4	72-20-8	Endrin	0.04016 ug/mL
5	76-44-8	Heptachlor	0.02008 ug/mL
6	309-00-2	Aldrin	0.02012 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
15377	PSTCLP MS	PSTCLP MS 50/100	102711	0.4 mL	10/27/2016
21540	MeCl2	Methylene Chloride 29073	29073	999.6 mL	12/08/2023

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Recd 12/13/13

Catalog No. : 32453 **Lot No.:** A093842

Description : SOM01.1 Pesticide Surrogate Standard

Pesticide Surrogate Mix 100-200µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 2019 **Storage:** 0°C or colder

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene	100.0 µg/mL	+/- 0.7088	µg/mL	Gravimetric
	CAS # 877-09-8		+/- 2.1243	µg/mL	Unstressed
	Purity 98%		+/- 3.4583	µg/mL	Stressed
2	Decachlorobiphenyl	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric
	CAS # 2051-24-3		+/- 4.2504	µg/mL	Unstressed
	Purity 99%		+/- 6.9193	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

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CERTIFIED WEIGHT REPORT

Lot #

Part Number: 20021 **Solvent(s):** K38E41 Hexane
Lot Number: 031412
Description: Toxaphene

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Expiration Date: 031422
Storage: 4 °C
Nominal Concentration (µg/mL): 1000

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to: 100.0 0.002 Flask Uncertainty

Gabriel Helland 031412
Formulated By: Gabriel Helland DATE

Pedro Rentas 031412
Reviewed By: Pedro L. Rentas DATE

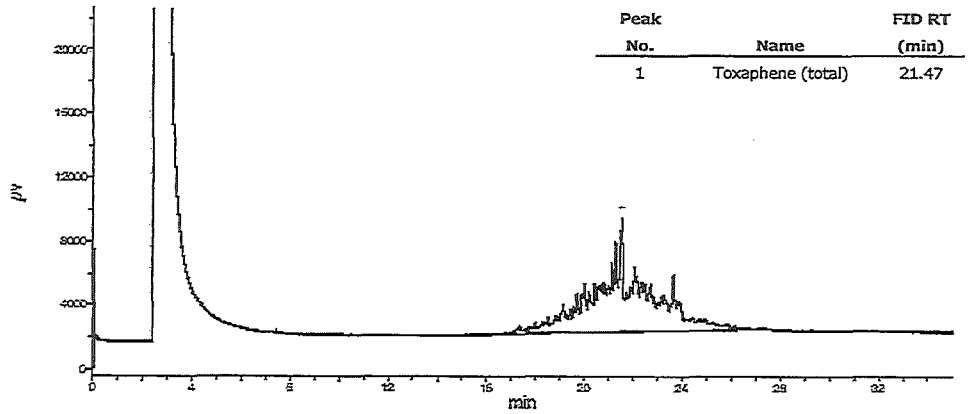
Note: Toxaphene is a technical mixture of isomers.

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty ± Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Toxaphene	283	393-104A	1000	99	0.5	0.10100	0.10115	1001.5	0.0101	08001-35-2	N/A	orl-rat 69mg/kg

Run 21, "P20021 L031412 [1000µg/mL in hexane]"

Run Length: 35.00 min, 20999 points at 10 points/second.
Created: Thu, Mar 15, 2012 at 3:48:39 AM.
Sampled: Sequence "031412-GC3M1", Method "GC3-M1".
Analyzed using Method "GC3-M1".

Comments
GC3-M1 Analysis by Melissa Stonier
Column ID SPB-608 3 meter X 0.53mm X5µm film thickness
Flow rates: Helium (carrier) = 5mL/min, Helium (make-up) = 25mL/min
Hydrogen (make-up) = 30mL/min, Air (make-up) = 350mL/min
Oven Profile: Temp 1 = 150°C (Time 1 = 4 min), Temp 2 = 290°C (Time 2 = 13.5 min)
Rate = 8°C/min, Total run time = 35 min
Injector temp. = 200°C, FID Temp. = 300°C. FID Signal = Edaq Channel 1
Standard injection = 1.0µL, Range=3



Peak No.	Name	FID RT (min)
1	Toxaphene (total)	21.47

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rec'd 10/20/14

Catalog No. : 32454 **Lot No.:** A093873

Description : SOM01.0 Pesticide Resolution Check Mix

Organochlorine Pesticide Resolution Check Mix 10-100µg/mL, Hexane/Toluene (90:10), 1mL/ampul

Container Size : **Pkg Amt:**

Expiration Date : March 2017 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 877-09-8		+/- 0.3571	µg/mL	Unstressed
	Purity 98%		+/- 0.6110	µg/mL	Stressed
2	alpha-BHC	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 319-84-6		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
3	gamma-BHC (Lindane)	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 58-89-9		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
4	beta-BHC	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 319-85-7		+/- 0.3571	µg/mL	Unstressed
	Purity 98%		+/- 0.6110	µg/mL	Stressed
5	delta-BHC	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 319-86-8		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
6	Heptachlor	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 76-44-8		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
7	Aldrin	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 309-00-2		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
8	Heptachlor epoxide (isomer B)	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 1024-57-3		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed
9	trans-Chlordane	10.0 µg/mL	+/- 0.0818	µg/mL	Gravimetric
	CAS # 5103-74-2		+/- 0.3573	µg/mL	Unstressed
	Purity 99%		+/- 0.6113	µg/mL	Stressed

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Rec'd 12/13/13

Catalog No. : 32074 **Lot No.:** A085642

Description : Pesticide Performance Eval Mix w/Surrogate

Performance Evaluation Std. 3/90 SOW w/surrogates 1-25ug/mL, Hexane, 1mL/ampul

Container Size : **Pkg Amt:**

Expiration Date : December 2015 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
	2,4,5,6-Tetrachloro-m-xylene	2.0 ug/mL	+/- 0.0332	ug/mL	Gravimetric
	CAS # 877-09-8		+/- 0.0770	ug/mL	Unstressed
	Purity 98%		+/- 0.1256	ug/mL	Stressed
2	alpha-BHC	1.0 ug/mL	+/- 0.0166	ug/mL	Gravimetric
	CAS # 319-84-6		+/- 0.0385	ug/mL	Unstressed
	Purity 99%		+/- 0.0628	ug/mL	Stressed
3	gamma-BHC (Lindane)	1.0 ug/mL	+/- 0.0166	ug/mL	Gravimetric
	CAS # 58-89-9		+/- 0.0385	ug/mL	Unstressed
	Purity 99%		+/- 0.0628	ug/mL	Stressed
4	beta-BHC	1.0 ug/mL	+/- 0.0166	ug/mL	Gravimetric
	CAS # 319-85-7		+/- 0.0385	ug/mL	Unstressed
	Purity 98%		+/- 0.0628	ug/mL	Stressed
5	Endrin	5.0 ug/mL	+/- 0.0808	ug/mL	Gravimetric
	CAS # 72-20-8		+/- 0.1917	ug/mL	Unstressed
	Purity 99%		+/- 0.3135	ug/mL	Stressed
6	4,4'-DDT	10.0 ug/mL	+/- 0.1615	ug/mL	Gravimetric
	CAS # 50-29-3		+/- 0.3834	ug/mL	Unstressed
	Purity 99%		+/- 0.6269	ug/mL	Stressed
7	Methoxychlor	25.0 ug/mL	+/- 0.4032	ug/mL	Gravimetric
	CAS # 72-43-5		+/- 0.9583	ug/mL	Unstressed
	Purity 99%		+/- 1.5672	ug/mL	Stressed
8	Decachlorobiphenyl	2.0 ug/mL	+/- 0.0332	ug/mL	Gravimetric
	CAS # 2051-24-3		+/- 0.0771	ug/mL	Unstressed
	Purity 99%		+/- 0.1256	ug/mL	Stressed

'vent: Hexane
CAS # 110-54-3
Purity 99%

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Rec'd 10/20/14

Catalog No. : 32027 Lot No.: A099095

Description : 2,4,5,6-tetrachloro-m-xylene Mix

Tetrachloro-m-xylene 200µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : January 31, 2020 Storage: 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene	200.7 µg/mL	+/- 1.1921	µg/mL	Gravimetric
	CAS # 877-09-8 (Lot 0052481)		+/- 4.0268	µg/mL	Unstressed
	Purity 98%		+/- 6.7998	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

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Rec'd 06/14/12

Catalog No. : 32040 **Lot No.:** A088867

Description : L/C Pesticide Lab Control Sample

L/C Lab Control Sample 10-20ug/mL, Acetone, 1mL/ampul

Container Size : **Pkg Amt:**

Expiration Date : November 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (96% C.L.; K=2)		
	gamma-BHC (Lindane)	10.0 ug/mL	+/- 0.1396	ug/mL	Gravimetric
	CAS # 58-89-9		+/- 0.3747	ug/mL	Unstressed
	Purity ----%		+/- 0.6217	ug/mL	Stressed
2	Heptachlor epoxide (isomer B)	10.0 ug/mL	+/- 0.1396	ug/mL	Gravimetric
	CAS # 1024-57-3		+/- 0.3747	ug/mL	Unstressed
	Purity 99%		+/- 0.6217	ug/mL	Stressed
3	trans-Chlordane	10.0 ug/mL	+/- 0.1396	ug/mL	Gravimetric
	CAS # 5103-74-2		+/- 0.3747	ug/mL	Unstressed
	Purity 99%		+/- 0.6217	ug/mL	Stressed
4	4,4'-DDE	20.0 ug/mL	+/- 0.2792	ug/mL	Gravimetric
	CAS # 72-55-9		+/- 0.7495	ug/mL	Unstressed
	Purity 99%		+/- 1.2433	ug/mL	Stressed
5	Dieldrin	20.0 ug/mL	+/- 0.2792	ug/mL	Gravimetric
	CAS # 60-57-1		+/- 0.7495	ug/mL	Unstressed
	Purity 99%		+/- 1.2433	ug/mL	Stressed
6	Endrin	20.0 ug/mL	+/- 0.2792	ug/mL	Gravimetric
	CAS # 72-20-8		+/- 0.7495	ug/mL	Unstressed
	Purity 99%		+/- 1.2433	ug/mL	Stressed
7	Endosulfan sulfate	20.0 ug/mL	+/- 0.2792	ug/mL	Gravimetric
	CAS # 1031-07-8		+/- 0.7495	ug/mL	Unstressed
	Purity 99%		+/- 1.2433	ug/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

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CERTIFIED WEIGHT REPORT

		Lot #	Solvent(s):
Part Number:	20020	J35E37	Acetone
Lot Number:	102711		
Description:	CLP Pesticide Matrix Spiking Solution		
	6 components		
Expiration Date:	102716		

Storage: 4 °C

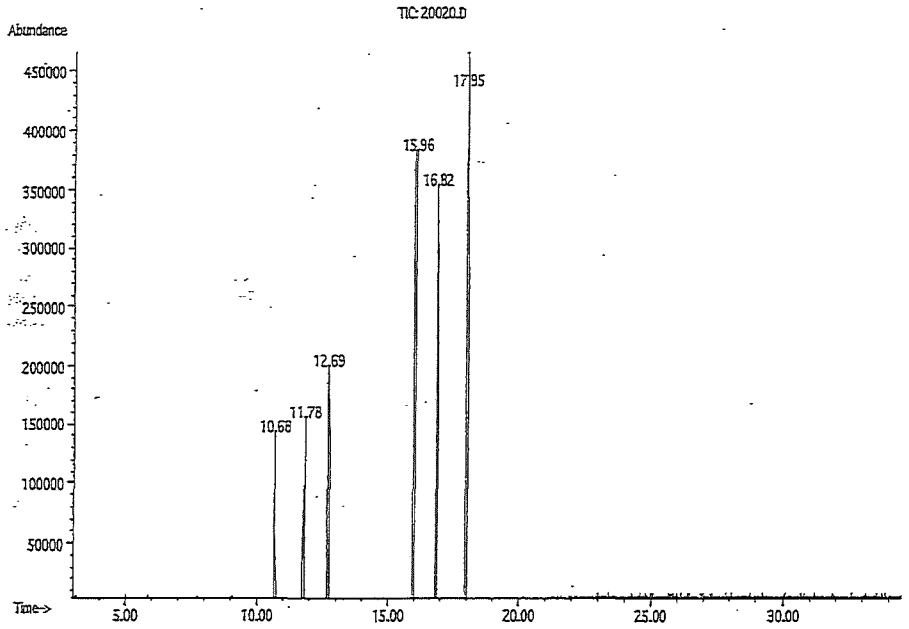
Nominal Concentration (µg/mL): Varied

5E-05 Balance Uncertainty

Volume(s) shown below were combined and diluted to: 25.0 0.002 Flask Uncertainty

Pat Scaturchio		102711
Formulated By:	Pat Scaturchio	DATE
Pedro L. Rentas		102711
Reviewed By:	Pedro L. Rentas	DATE

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-) (µg/mL)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. g-BHC (Lindane)	20120	073109	0.10	2.50	0.025	501.4	50.1	0.00891	00058-89-9	0.5mg/m3 (skin)	orl-rat 76mg/kg
2. 4,4'-DDT	20120	073109	0.10	2.50	0.025	1004.3	100.5	0.00571	00050-29-3	N/A	orl-rat 87mg/kg
3. Endrin	20120	073109	0.10	2.50	0.025	1003.5	100.4	0.00571	00072-20-8	0.1mg/m3 (skin)	orl-rat 3mg/kg
4. Heptachlor	20120	073109	0.10	2.50	0.025	501.7	50.2	0.00890	00076-44-8	0.5mg/m3 (skin)	orl-rat 40mg/kg
5. Aldrin	20120	073109	0.10	2.50	0.025	502.9	50.3	0.00889	00309-00-2	0.25mg/m3 (skin)	orl-rat 39mg/kg
6. Dieldrin	20120	073109	0.10	2.50	0.025	1003.5	100.4	0.00571	00060-57-1	0.25mg/m3 (skin)	orl-rat 38300ug/kg



Method GC7MSD-1.M: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.

Name	MSD RT (min.)
g-BHC (Lindane)	10.67
Heptachlor	11.78
Aldrin	12.69
Dieldrin	15.96
Endrin	16.81
4,4'-DDT	17.93

15377

Batch Worklist

Batch: EGC/ 5777 Created: 6/2/2015 09:30 Instrument: GCE20 HBN: 149698

Rule: SOM Aroclors, Soil Analyst: S. Sagers Status: WP

Workorder: 1514293 SDG: F9L58 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	448474	MB for HBN 149311 [ENVX/21658]	30 grams	5 mL		MB	4		SOMAROS..4	6158	7/8/2015	6/11/2015	6/1/2015
2	448476	LCS-A for HBN 149311 [ENVX/216	30 grams	5 mL		LCS-A	4		SOMAROS..4	6158	7/8/2015	6/11/2015	6/1/2015
3	1514293001	F9L58	30.15 grams	5 mL		SAMPLE	4	1514293001-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
4	1514293002	F9L59	30.2 grams	5 mL		SAMPLE	4	1514293002-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
5	1514293003	F9L60	30.3 grams	5 mL		SAMPLE	4	1514293003-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
6	1514293004	F9L61	30.16 grams	5 mL		SAMPLE	4	1514293004-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
7	1514293005	F9L62	30.16 grams	5 mL		SAMPLE	4	1514293005-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
8	1514293006	F9L63	30.32 grams	5 mL		SAMPLE	4	1514293006-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
9	1514293007	F9L64	30.11 grams	5 mL		SAMPLE	4	1514293007-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
10	1514293008	F9L65	30.14 grams	5 mL		SAMPLE	4	1514293008-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
11	1514293009	F9L66	30.07 grams	5 mL		SAMPLE	4	1514293009-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
12	1514293010	F9L66MS	30.03 grams	5 mL		MS	4	1514293010-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
13	1514293011	F9L66MSD	30.17 grams	5 mL		MSD	4	1514293011-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
14	1514293012	F9L67	30 grams	5 mL		SAMPLE	4	1514293012-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
15	1514293013	F9L68	30.41 grams	5 mL		SAMPLE	4	1514293013-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
16	1514293014	F9L69	30.21 grams	5 mL		SAMPLE	4	1514293014-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
17	1514293015	F9L70	30.24 grams	5 mL		SAMPLE	4	1514293015-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
18	1514293016	F9L71	30.31 grams	5 mL		SAMPLE	4	1514293016-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
19	1514293017	F9L72	30.19 grams	5 mL		SAMPLE	4	1514293017-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
20	1514293018	F9L73	30.4 grams	5 mL		SAMPLE	4	1514293018-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
21	1514293019	F9L75	30.42 grams	5 mL		SAMPLE	4	1514293019-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
22	1514293020	F9L77	30.23 grams	5 mL		SAMPLE	4	1514293020-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
23	1514293021	F9L78	30.16 grams	5 mL		SAMPLE	4	1514293021-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
24	1514293022	F9L79	30.44 grams	5 mL		SAMPLE	4	1514293022-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015

GC/ECD AROCLORS ANALYST WRITE-UP

Batch: EGC/ 5777 Created: 6/2/2015 09:30 Instrument: GCE20 HBN: 149698
Rule: SOM Aroclors, Soil Analyst: S. Sagers Status: WP

Workorder: 1514293 SDG: F9L58 Case: 46316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	448474	MB for HBN 149311 [ENVX/21658]	30 grams	5 mL		MB	4		SOMAROS..4	6158	7/8/2015	6/11/2015	6/1/2015
2	448476	LCS-A for HBN 149311 [ENVX/216	30 grams	5 mL		LCS-A	4		SOMAROS..4	6158	7/8/2015	6/11/2015	6/1/2015
3	1514293001	F9L58	30.15 grams	5 mL		SAMPLE	4	1514293001-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
4	1514293002	F9L59	30.2 grams	5 mL		SAMPLE	4	1514293002-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
5	1514293003	F9L60	30.3 grams	5 mL		SAMPLE	4	1514293003-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
6	1514293004	F9L61	30.16 grams	5 mL		SAMPLE	4	1514293004-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
7	1514293005	F9L62	30.16 grams	5 mL		SAMPLE	4	1514293005-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
8	1514293006	F9L63	30.32 grams	5 mL		SAMPLE	4	1514293006-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
9	1514293007	F9L64	30.11 grams	5 mL		SAMPLE	4	1514293007-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
10	1514293008	F9L65	30.14 grams	5 mL		SAMPLE	4	1514293008-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
11	1514293009	F9L66	30.07 grams	5 mL		SAMPLE	4	1514293009-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
12	1514293010	F9L66MS	30.03 grams	5 mL		MS	4	1514293010-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
13	1514293011	F9L66MSD	30.17 grams	5 mL		MSD	4	1514293011-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
14	1514293012	F9L67	30 grams	5 mL		SAMPLE	4	1514293012-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
15	1514293013	F9L68	30.41 grams	5 mL		SAMPLE	4	1514293013-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
16	1514293014	F9L69	30.21 grams	5 mL		SAMPLE	4	1514293014-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
17	1514293015	F9L70	30.24 grams	5 mL		SAMPLE	4	1514293015-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
18	1514293016	F9L71	30.31 grams	5 mL		SAMPLE	4	1514293016-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
19	1514293017	F9L72	30.19 grams	5 mL		SAMPLE	4	1514293017-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
20	1514293018	F9L73	30.4 grams	5 mL		SAMPLE	4	1514293018-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
21	1514293019	F9L75	30.42 grams	5 mL		SAMPLE	4	1514293019-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
22	1514293020	F9L77	30.23 grams	5 mL		SAMPLE	4	1514293020-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
23	1514293021	F9L78	30.16 grams	5 mL		SAMPLE	4	1514293021-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015
24	1514293022	F9L79	30.44 grams	5 mL		SAMPLE	4	1514293022-A	S12AROS..4	5936	7/8/2015	6/11/2015	6/1/2015

Samples analyzed: 06/05/2015 ICAL(s) analyzed: 06/05/2015 (A) CCVs: B, C

Instrument: GC20: HP5890 with RTXCLP (30m x 0.32mm ID x 0.50um film) and RTXCLP2 (30m x 0.32mm ID x 0.25um film) columns and EC detectors. Hydrogen carrier gas.

Injection volulme: 2.0 uL. Injector temps: 200C. Detector temps: 320C.

GC Program: 105C for 0 min, 30C/min to 180C for 0 min; 12.5C/min to 330C for 1.05 min 15.55 min total.

Surrogates: All samples passed SOW surrogate criteria.

LCS: All results were within established limits.

MS and MSD: All results were within established limits.

Dilutions: None.

Miscellaneous: None.

GC/ECD ARO INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID
20150604A_002.rst	06/04/2015	23:33:54	PRIME		GC20A	RTXCLP 0.32mm x 30m
20150604A_003.rst	06/04/2015	23:50:00	PRIME		GC20A	RTXCLP 0.32mm x 30m
20150604A_004.rst	06/05/2015	00:06:22	AR16601A1	26394	GC20A	RTXCLP 0.32mm x 30m
20150604A_005.rst	06/05/2015	00:22:28	AR16602A1	26395	GC20A	RTXCLP 0.32mm x 30m
20150604A_006.rst	06/05/2015	00:38:36	AR16603A1	26396	GC20A	RTXCLP 0.32mm x 30m
20150604A_007.rst	06/05/2015	00:54:40	AR16604A1	26397	GC20A	RTXCLP 0.32mm x 30m
20150604A_008.rst	06/05/2015	01:10:50	AR16605A1	26398	GC20A	RTXCLP 0.32mm x 30m
20150604A_009.rst	06/05/2015	01:26:56	AR12213A1	26401	GC20A	RTXCLP 0.32mm x 30m
20150604A_010.rst	06/05/2015	01:43:02	AR12323A1	26406	GC20A	RTXCLP 0.32mm x 30m
20150604A_011.rst	06/05/2015	01:59:08	AR12423A1	26411	GC20A	RTXCLP 0.32mm x 30m
20150604A_012.rst	06/05/2015	02:15:16	AR12483A1	26416	GC20A	RTXCLP 0.32mm x 30m
20150604A_013.rst	06/05/2015	02:31:36	AR12543A1	26421	GC20A	RTXCLP 0.32mm x 30m
20150604A_014.rst	06/05/2015	02:47:42	AR12623A1	26426	GC20A	RTXCLP 0.32mm x 30m
20150604A_015.rst	06/05/2015	03:03:48	AR12683A1	26431	GC20A	RTXCLP 0.32mm x 30m
20150604A_016.rst	06/05/2015	03:20:10	AIBLKB1	26387	GC20A	RTXCLP 0.32mm x 30m
20150604A_017.rst	06/05/2015	03:36:18	AR16603B1	26396	GC20A	RTXCLP 0.32mm x 30m
20150604A_018.rst	06/05/2015	03:52:28	GPC60527	GPCBLK1	GC20A	RTXCLP 0.32mm x 30m
20150604A_019.rst	06/05/2015	04:08:31	448474	ABLKS1	GC20A	RTXCLP 0.32mm x 30m
20150604A_020.rst	06/05/2015	04:24:42	448476	ALCSS1	GC20A	RTXCLP 0.32mm x 30m
20150604A_021.rst	06/05/2015	04:40:47	1514293001	F9L58	GC20A	RTXCLP 0.32mm x 30m
20150604A_022.rst	06/05/2015	04:56:56	1514293002	F9L59	GC20A	RTXCLP 0.32mm x 30m
20150604A_023.rst	06/05/2015	05:13:04	1514293003	F9L60	GC20A	RTXCLP 0.32mm x 30m
20150604A_024.rst	06/05/2015	05:29:14	1514293004	F9L61	GC20A	RTXCLP 0.32mm x 30m
20150604A_025.rst	06/05/2015	05:45:18	1514293005	F9L62	GC20A	RTXCLP 0.32mm x 30m
20150604A_026.rst	06/05/2015	06:01:26	1514293006	F9L63	GC20A	RTXCLP 0.32mm x 30m
20150604A_027.rst	06/05/2015	06:17:33	1514293007	F9L64	GC20A	RTXCLP 0.32mm x 30m
20150604A_028.rst	06/05/2015	06:33:44	1514293008	F9L65	GC20A	RTXCLP 0.32mm x 30m
20150604A_029.rst	06/05/2015	06:49:52	1514293009	F9L66	GC20A	RTXCLP 0.32mm x 30m
20150604A_030.rst	06/05/2015	07:06:02	1514293010	F9L66MS	GC20A	RTXCLP 0.32mm x 30m
20150604A_031.rst	06/05/2015	07:22:06	1514293011	F9L66MSD	GC20A	RTXCLP 0.32mm x 30m
20150604A_032.rst	06/05/2015	07:38:32	1514293012	F9L67	GC20A	RTXCLP 0.32mm x 30m
20150604A_033.rst	06/05/2015	07:54:52	1514293013	F9L68	GC20A	RTXCLP 0.32mm x 30m
20150604A_034.rst	06/05/2015	08:11:02	1514293014	F9L69	GC20A	RTXCLP 0.32mm x 30m
20150604A_035.rst	06/05/2015	08:27:12	1514293015	F9L70	GC20A	RTXCLP 0.32mm x 30m
20150604A_036.rst	06/05/2015	08:43:32	1514293016	F9L71	GC20A	RTXCLP 0.32mm x 30m
20150604A_037.rst	06/05/2015	08:59:42	1514293017	F9L72	GC20A	RTXCLP 0.32mm x 30m
20150604A_038.rst	06/05/2015	09:15:52	1514293018	F9L73	GC20A	RTXCLP 0.32mm x 30m
20150604A_039.rst	06/05/2015	09:31:56	1514293019	F9L75	GC20A	RTXCLP 0.32mm x 30m
20150604A_040.rst	06/05/2015	09:48:06	1514293020	F9L77	GC20A	RTXCLP 0.32mm x 30m
20150604A_041.rst	06/05/2015	10:04:10	1514293021	F9L78	GC20A	RTXCLP 0.32mm x 30m
20150604A_042.rst	06/05/2015	10:20:20	1514293022	F9L79	GC20A	RTXCLP 0.32mm x 30m
20150604A_043.rst	06/05/2015	10:36:28	GPC60531	GPCBLK1	GC20A	RTXCLP 0.32mm x 30m
20150604A_044.rst	06/05/2015	10:52:38	449007	ABLKS1	GC20A	RTXCLP 0.32mm x 30m
20150604A_045.rst	06/05/2015	11:08:44	449009	ALCSS1	GC20A	RTXCLP 0.32mm x 30m
20150604A_046.rst	06/05/2015	11:25:06	1514180001	F9L53	GC20A	RTXCLP 0.32mm x 30m
20150604A_047.rst	06/05/2015	11:41:14	1514301001	F9L76	GC20A	RTXCLP 0.32mm x 30m
20150604A_048.rst	06/05/2015	11:57:26	1514301002	F9L76MS	GC20A	RTXCLP 0.32mm x 30m
20150604A_049.rst	06/05/2015	12:13:32	1514301003	F9L76MSD	GC20A	RTXCLP 0.32mm x 30m
20150604A_050.rst	06/05/2015	12:29:42	1514301004	F9L80	GC20A	RTXCLP 0.32mm x 30m
20150604A_051.rst	06/05/2015	12:45:46	1514301005	F9L81	GC20A	RTXCLP 0.32mm x 30m
20150604A_052.rst	06/05/2015	13:02:00	1514301006	F9L82	GC20A	RTXCLP 0.32mm x 30m
20150604A_053.rst	06/05/2015	13:18:08	1514301007	F9L83	GC20A	RTXCLP 0.32mm x 30m
20150604A_054.rst	06/05/2015	13:34:18	1514301008	F9L84	GC20A	RTXCLP 0.32mm x 30m
20150604A_055.rst	06/05/2015	13:50:26	1514301009	F9L85	GC20A	RTXCLP 0.32mm x 30m
20150604A_056.rst	06/05/2015	14:06:38	1514301010	F9L86	GC20A	RTXCLP 0.32mm x 30m
20150604A_057.rst	06/05/2015	14:22:50	1514301011	F9L87	GC20A	RTXCLP 0.32mm x 30m
20150604A_058.rst	06/05/2015	14:39:16	1514301012	F9L88	GC20A	RTXCLP 0.32mm x 30m
20150604A_059.rst	06/05/2015	14:55:24	1514301013	F9L89	GC20A	RTXCLP 0.32mm x 30m
20150604A_060.rst	06/05/2015	15:11:34	AIBLKC1	26387	GC20A	RTXCLP 0.32mm x 30m
20150604A_061.rst	06/05/2015	15:27:45	AR16603C1	26396	GC20A	RTXCLP 0.32mm x 30m
20150604A_062.rst	06/05/2015	15:43:57		RINSE	GC20A	RTXCLP 0.32mm x 30m

GC/ECD ARO INJECTION LOG

File Name	Date Inject	Time Inject	Sample Name	Other ID	Instr ID	Column ID
20150604B_001.rst	06/04/2015	23:33:54	PRIME		GC20B	RTXCLP2 0.32mm x 30m
20150604B_002.rst	06/04/2015	23:50:00	PRIME		GC20B	RTXCLP2 0.32mm x 30m
20150604B_003.rst	06/05/2015	00:06:22	PRIME		GC20B	RTXCLP2 0.32mm x 30m
20150604B_004.rst	06/05/2015	00:22:28	AR16601A2	26394	GC20B	RTXCLP2 0.32mm x 30m
20150604B_005.rst	06/05/2015	00:38:36	AR16602A2	26395	GC20B	RTXCLP2 0.32mm x 30m
20150604B_006.rst	06/05/2015	00:54:40	AR16603A2	26396	GC20B	RTXCLP2 0.32mm x 30m
20150604B_007.rst	06/05/2015	01:10:50	AR16604A2	26397	GC20B	RTXCLP2 0.32mm x 30m
20150604B_008.rst	06/05/2015	01:26:56	AR16605A2	26398	GC20B	RTXCLP2 0.32mm x 30m
20150604B_009.rst	06/05/2015	01:43:02	AR12213A2	26401	GC20B	RTXCLP2 0.32mm x 30m
20150604B_010.rst	06/05/2015	01:59:08	AR12323A2	26406	GC20B	RTXCLP2 0.32mm x 30m
20150604B_011.rst	06/05/2015	02:15:16	AR12423A2	26411	GC20B	RTXCLP2 0.32mm x 30m
20150604B_012.rst	06/05/2015	02:31:36	AR12483A2	26416	GC20B	RTXCLP2 0.32mm x 30m
20150604B_013.rst	06/05/2015	02:47:42	AR12543A2	26421	GC20B	RTXCLP2 0.32mm x 30m
20150604B_014.rst	06/05/2015	03:03:48	AR12623A2	26426	GC20B	RTXCLP2 0.32mm x 30m
20150604B_015.rst	06/05/2015	03:20:10	AR12683A2	26431	GC20B	RTXCLP2 0.32mm x 30m
20150604B_016.rst	06/05/2015	03:36:18	AIBLKB2	26387	GC20B	RTXCLP2 0.32mm x 30m
20150604B_017.rst	06/05/2015	03:52:28	AR16603B2	26396	GC20B	RTXCLP2 0.32mm x 30m
20150604B_018.rst	06/05/2015	04:08:31	GPC60527	GPCBLK1	GC20B	RTXCLP2 0.32mm x 30m
20150604B_019.rst	06/05/2015	04:24:42	448474	ABLKS1	GC20B	RTXCLP2 0.32mm x 30m
20150604B_020.rst	06/05/2015	04:40:47	448476	ALCSS1	GC20B	RTXCLP2 0.32mm x 30m
20150604B_021.rst	06/05/2015	04:56:56	1514293001	F9L58	GC20B	RTXCLP2 0.32mm x 30m
20150604B_022.rst	06/05/2015	05:13:04	1514293002	F9L59	GC20B	RTXCLP2 0.32mm x 30m
20150604B_023.rst	06/05/2015	05:29:14	1514293003	F9L60	GC20B	RTXCLP2 0.32mm x 30m
20150604B_024.rst	06/05/2015	05:45:18	1514293004	F9L61	GC20B	RTXCLP2 0.32mm x 30m
20150604B_025.rst	06/05/2015	06:01:26	1514293005	F9L62	GC20B	RTXCLP2 0.32mm x 30m
20150604B_026.rst	06/05/2015	06:17:33	1514293006	F9L63	GC20B	RTXCLP2 0.32mm x 30m
20150604B_027.rst	06/05/2015	06:33:44	1514293007	F9L64	GC20B	RTXCLP2 0.32mm x 30m
20150604B_028.rst	06/05/2015	06:49:52	1514293008	F9L65	GC20B	RTXCLP2 0.32mm x 30m
20150604B_029.rst	06/05/2015	07:06:02	1514293009	F9L66	GC20B	RTXCLP2 0.32mm x 30m
20150604B_030.rst	06/05/2015	07:22:06	1514293010	F9L66MS	GC20B	RTXCLP2 0.32mm x 30m
20150604B_031.rst	06/05/2015	07:38:32	1514293011	F9L66MSD	GC20B	RTXCLP2 0.32mm x 30m
20150604B_032.rst	06/05/2015	07:54:52	1514293012	F9L67	GC20B	RTXCLP2 0.32mm x 30m
20150604B_033.rst	06/05/2015	08:11:02	1514293013	F9L68	GC20B	RTXCLP2 0.32mm x 30m
20150604B_034.rst	06/05/2015	08:27:12	1514293014	F9L69	GC20B	RTXCLP2 0.32mm x 30m
20150604B_035.rst	06/05/2015	08:43:32	1514293015	F9L70	GC20B	RTXCLP2 0.32mm x 30m
20150604B_036.rst	06/05/2015	08:59:42	1514293016	F9L71	GC20B	RTXCLP2 0.32mm x 30m
20150604B_037.rst	06/05/2015	09:15:52	1514293017	F9L72	GC20B	RTXCLP2 0.32mm x 30m
20150604B_038.rst	06/05/2015	09:31:56	1514293018	F9L73	GC20B	RTXCLP2 0.32mm x 30m
20150604B_039.rst	06/05/2015	09:48:06	1514293019	F9L75	GC20B	RTXCLP2 0.32mm x 30m
20150604B_040.rst	06/05/2015	10:04:10	1514293020	F9L77	GC20B	RTXCLP2 0.32mm x 30m
20150604B_041.rst	06/05/2015	10:20:20	1514293021	F9L78	GC20B	RTXCLP2 0.32mm x 30m
20150604B_042.rst	06/05/2015	10:36:28	1514293022	F9L79	GC20B	RTXCLP2 0.32mm x 30m
20150604B_043.rst	06/05/2015	10:52:38	GPC60531	GPCBLK1	GC20B	RTXCLP2 0.32mm x 30m
20150604B_044.rst	06/05/2015	11:08:44	449007	ABLKS1	GC20B	RTXCLP2 0.32mm x 30m
20150604B_045.rst	06/05/2015	11:25:06	449009	ALCSS1	GC20B	RTXCLP2 0.32mm x 30m
20150604B_046.rst	06/05/2015	11:41:14	1514180001	F9L53	GC20B	RTXCLP2 0.32mm x 30m
20150604B_047.rst	06/05/2015	11:57:26	1514301001	F9L76	GC20B	RTXCLP2 0.32mm x 30m
20150604B_048.rst	06/05/2015	12:13:32	1514301002	F9L76MS	GC20B	RTXCLP2 0.32mm x 30m
20150604B_049.rst	06/05/2015	12:29:42	1514301003	F9L76MSD	GC20B	RTXCLP2 0.32mm x 30m
20150604B_050.rst	06/05/2015	12:45:46	1514301004	F9L80	GC20B	RTXCLP2 0.32mm x 30m
20150604B_051.rst	06/05/2015	13:02:00	1514301005	F9L81	GC20B	RTXCLP2 0.32mm x 30m
20150604B_052.rst	06/05/2015	13:18:08	1514301006	F9L82	GC20B	RTXCLP2 0.32mm x 30m
20150604B_053.rst	06/05/2015	13:34:18	1514301007	F9L83	GC20B	RTXCLP2 0.32mm x 30m
20150604B_054.rst	06/05/2015	13:50:26	1514301008	F9L84	GC20B	RTXCLP2 0.32mm x 30m
20150604B_055.rst	06/05/2015	14:06:38	1514301009	F9L85	GC20B	RTXCLP2 0.32mm x 30m
20150604B_056.rst	06/05/2015	14:22:50	1514301010	F9L86	GC20B	RTXCLP2 0.32mm x 30m
20150604B_057.rst	06/05/2015	14:39:16	1514301011	F9L87	GC20B	RTXCLP2 0.32mm x 30m
20150604B_058.rst	06/05/2015	14:55:24	1514301012	F9L88	GC20B	RTXCLP2 0.32mm x 30m
20150604B_059.rst	06/05/2015	15:11:34	1514301013	F9L89	GC20B	RTXCLP2 0.32mm x 30m
20150604B_060.rst	06/05/2015	15:27:45	AIBLKC2	26387	GC20B	RTXCLP2 0.32mm x 30m
20150604B_061.rst	06/05/2015	15:43:57	AR16603C2	26396	GC20B	RTXCLP2 0.32mm x 30m

Batch Worklist

Batch: ENVX/ 21658 Created: 5/26/2015 12:20 Instrument: HBN: 149311

Rule: Sonication Extrcn, Pest/Aclr Analyst: L. Edwards Status: NA

Workorder: 1514293 SDG: F9L58 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	448474	MB for HBN 149311 [ENVX/21658]	30.00g	5ml		MB	4		SNCTNPA.4P	6158	6/5/2015	5/23/2015	
2	448475	LCS-P for HBN 149311 [ENVX/216	30.00g			LCS-P	4		SNCTNPA.4P	6158	6/5/2015	5/23/2015	
3	448476	LCS-A for HBN 149311 [ENVX/216	30.00g			LCS-A	4		SNCTNPA.4P	6158	6/5/2015	5/23/2015	
4	1514293001	F9L58	30.15g			SAMPLE	4	1514293001-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
5	1514293002	F9L59	30.20g			SAMPLE	4	1514293002-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
6	1514293003	F9L60	30.30g			SAMPLE	4	1514293003-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
7	1514293004	F9L61	30.16g			SAMPLE	4	1514293004-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
8	1514293005	F9L62	30.16g			SAMPLE	4	1514293005-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
9	1514293006	F9L63	30.32g			SAMPLE	4	1514293006-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
10	1514293007	F9L64	30.11g			SAMPLE	4	1514293007-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
11	1514293008	F9L65	30.14g			SAMPLE	4	1514293008-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
12	1514293009	F9L66	30.07g			SAMPLE	4	1514293009-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
13	1514293010	F9L66MS	30.03g			MS	4	1514293010-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
14	1514293011	F9L66MSD	30.17g			MSD	4	1514293011-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
15	1514293012	F9L67	30.00g			SAMPLE	4	1514293012-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
16	1514293013	F9L68	30.41g			SAMPLE	4	1514293013-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
17	1514293014	F9L69	30.21g			SAMPLE	4	1514293014-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
18	1514293015	F9L70	30.24g			SAMPLE	4	1514293015-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
19	1514293016	F9L71	30.31g			SAMPLE	4	1514293016-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
20	1514293017	F9L72	30.19g			SAMPLE	4	1514293017-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
21	1514293018	F9L73	30.40g			SAMPLE	4	1514293018-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
22	1514293019	F9L75	30.42g			SAMPLE	4	1514293019-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
23	1514293020	F9L77	30.23g			SAMPLE	4	1514293020-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
24	1514293021	F9L78	30.16g			SAMPLE	4	1514293021-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	
25	1514293022	F9L79	30.44g			SAMPLE	4	1514293022-A	SNCTNPA.4P	5936	6/1/2015	5/23/2015	

rtyc

Same Agg

Batch Worklist

Batch: ENVX/ 21684 Created: 5/29/2015 09:09 Instrument: GPC06 HBN: 149537

Rule: GPC Pest/Aro Analyst: L. Edwards Status: NA

Workorder: 1514293 SDG: F9L58 Case: 45316

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Dust Weight	Type	Mx	Container	Procedure	Mgr	Expire Date	Due Date	Run Date
1	449006	GB for HBN 149537 [ENVX/21684]				GB	4		E.GPC.PA.P	6158		5/28/2015	5/27/2015
2	448474	MB for HBN 149311 [ENVX/21658]	30 grams	5 mL		MB	4		E.GPC.PA.P	6158		5/28/2015	5/27/2015
3	448475	LCS-P for HBN 149311 [ENVX/216	30 grams	5 mL		LCS-P	4		E.GPC.PA.P	6158		5/28/2015	5/27/2015
4	448476	LCS-A for HBN 149311 [ENVX/216	30 grams	5 mL		LCS-A	4		E.GPC.PA.P	6158		5/28/2015	5/27/2015
5	1514293001	F9L58	30.15 grams	5 mL		SAMPLE	4	1514293001-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
6	1514293002	F9L59	30.2 grams	5 mL		SAMPLE	4	1514293002-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
7	1514293003	F9L60	30.3 grams	5 mL		SAMPLE	4	1514293003-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
8	1514293004	F9L61	30.16 grams	5 mL		SAMPLE	4	1514293004-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
9	1514293005	F9L62	30.16 grams	5 mL		SAMPLE	4	1514293005-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
10	1514293006	F9L63	30.32 grams	5 mL		SAMPLE	4	1514293006-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
11	1514293007	F9L64	30.11 grams	5 mL		SAMPLE	4	1514293007-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
12	1514293008	F9L65	30.14 grams	5 mL		SAMPLE	4	1514293008-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
13	1514293009	F9L66	30.07 grams	5 mL		SAMPLE	4	1514293009-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
14	1514293010	F9L66MS	30.03 grams	5 mL		MS	4	1514293010-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
15	1514293011	F9L66MSD	30.17 grams	5 mL		MSD	4	1514293011-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
16	1514293012	F9L67	30 grams	5 mL		SAMPLE	4	1514293012-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
17	1514293013	F9L68	30.41 grams	5 mL		SAMPLE	4	1514293013-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
18	1514293014	F9L69	30.21 grams	5 mL		SAMPLE	4	1514293014-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
19	1514293015	F9L70	30.24 grams	5 mL		SAMPLE	4	1514293015-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
20	1514293016	F9L71	30.31 grams	5 mL		SAMPLE	4	1514293016-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
21	1514293017	F9L72	30.19 grams	5 mL		SAMPLE	4	1514293017-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
22	1514293018	F9L73	30.4 grams	5 mL		SAMPLE	4	1514293018-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
23	1514293019	F9L75	30.42 grams	5 mL		SAMPLE	4	1514293019-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
24	1514293020	F9L77	30.23 grams	5 mL		SAMPLE	4	1514293020-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
25	1514293021	F9L78	30.16 grams	5 mL		SAMPLE	4	1514293021-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015
26	1514293022	F9L79	30.44 grams	5 mL		SAMPLE	4	1514293022-A	E.GPC.PA.P	5936		5/28/2015	5/27/2015

ALS Laboratory Group GPC Injection Logbook

Method:	**SOM01.2**	**Analytical Method**	**Pest/ARO**	**Work Order ID:**	**1514293**	**Horizon Batch ID:**	**149537**
Account:	**08201**	**Instrument ID:**	**GPC06**	**Column ID:**	**8181346-1 690492-1**	**Flow Rate:**	**5mL/min.**
Load Date:	**5/27/15**	**Load Time:**	**15:35**	**Pressure (PSI)**	**159**	**PST/ARO Weekly ID:**	**5/25/15**

Position	ALS Sample ID	Client Sample ID	Sample Notes/Comments
1	449006	GPC06 Blank	
2	448474	MB for HBN 149311	
3	448475	LCS-P for HBN 149311	
4	448476	LCS-A for HBN 149311	
5	1514293001	F9L58	
6	1514293002	F9L59	
7	1514293003	F9L60	
8	1514293004	F9L61	
9	1514293005	F9L62	
10	1514293006	F9L63	
11	1514293007	F9L64	
12	1514293008	F9L65	
13	1514293009	F9L66	
14	1514293010	F9L66MS	
15	1514293011	F9L66MSD	
16	1514293010	F9L66MS	
17	1514293011	F9L66MSD	
18	1514293012	F9L67	
19	1514293013	F9L68	
20	1514293014	F9L69	
21	1514293015	F9L70	
22	1514293016	F9L71	
23	1514293017	F9L72	
24	1514293018	F9L73	
25	1514293019	F9L75	
26	1514293020	F9L77	
27	1514293021	F9L78	
28	1514293022	F9L79	
29	Rinse		Column Wash

$MeCl_2$ Lot:	**97623**	**General Comments:**
Dump Time (min.):	**18.7**	if noted above - 1:10 dilutions made to protect GPC column
Collect Time (min.):	**29.5**	Analyst - Lyle Edwards
Wash Time(min.):	**10**	
GPC Standard ID:	**195WS38822**	

ORGANIC EXTRACTION LOGBOOK ALS GROUP USA, Corp

Client US EPA REGION 6 Case/SDG # 45316 / F9L58 Horizon Extraction HBN 149311

Work Order# 1514293 Sample #'s 1-22 Extraction Method Somo 1.2

SOP: OE-EP-SOM Analytical Fraction ARO Matrix SOIL

Date samples weighed out 5/26/15 by PT balance # 120212065

See extraction batch sheet for sample weights/volumes, initial pH's (waters), and final concentration volumes.

Extraction: Date/Time 5/27/15 0700 Stop Date/Time (CLLE's/Soxlet) CDE Extracted by CDE

	Drying Agent	Salt	Solvents		Exchange Solvent
Solvent/Reagent used	☑ Na_2SO_4 ☐ N/A	☐ NaCl ☑ N/A	☐ CH_2Cl_2 ☐ Hexane ☐ Acetonitrile ☐ Hexane/Ether ( )	☑ CH_2Cl_2/Acetone (1:1)	☑ Hexane ☐ Toluene ☐ N/A ☐ CH_2Cl_2
Vendor	JT BAKER	CDE	JT BAKER	BHJ	BOEJ
Lot Number	108985		5/27/15 97623	DM245	DM196
Amount	PERSOP		PERSOP	PERSOP	bowl

	Surrogate/DMC STD	LCS Standard	MS/MSD Standard	RLVS Standard
Standard ID	26390	26434	26435	CDE
Spiked Amount	1 mL	1 mL	1 mL	
Spiked By	CDE	CDE	CDE	

	Acid Solution	Base Solution		
Standard ID				
Spiked Amount *				
pH Adjustment *				
Spiked By				

* exceptions are noted in comments below

Comments

Pre-GPC Concentration: Date/Time 5/27/15 14:00 by [illegible] Comments The Temp was 65°C

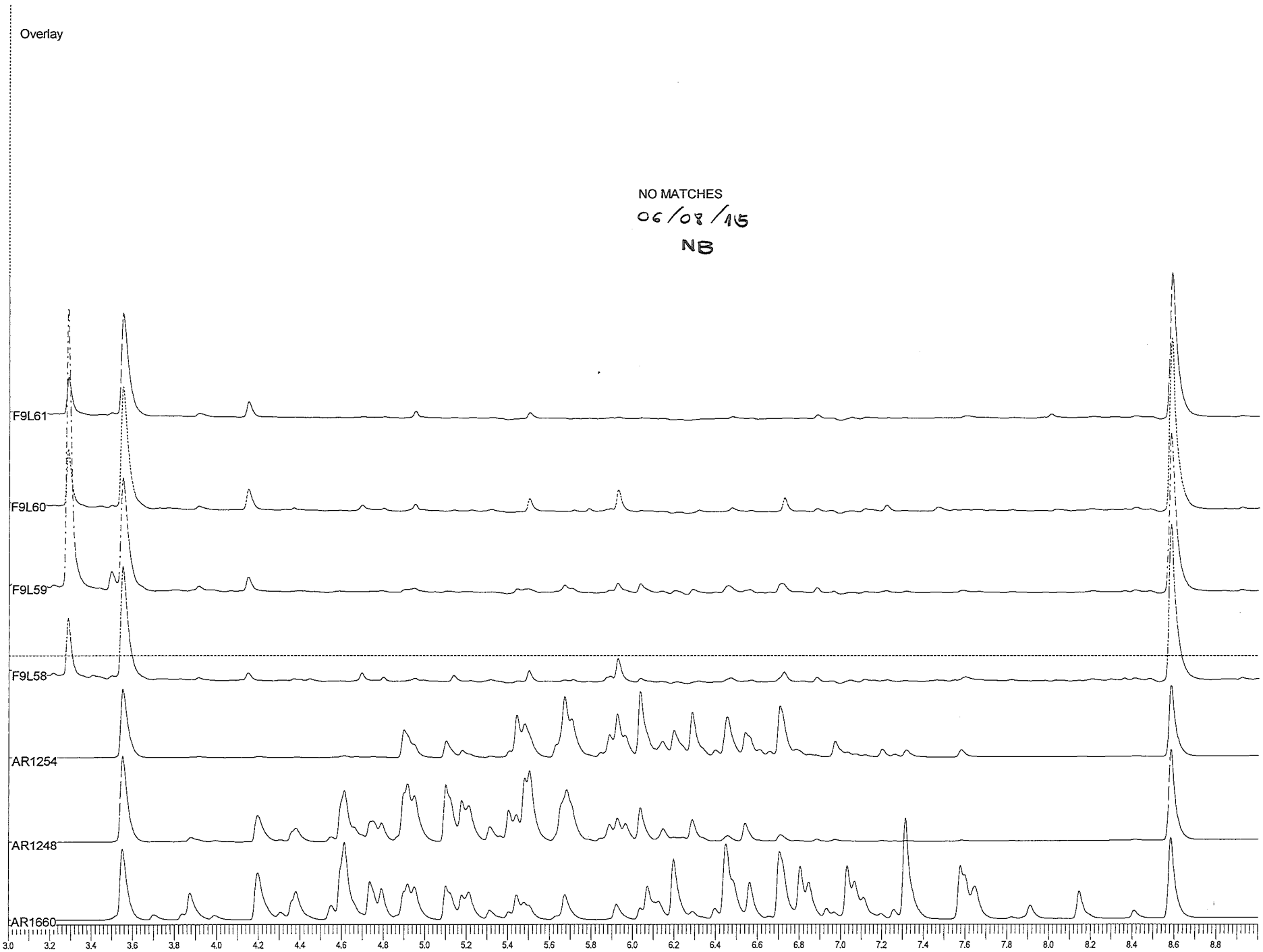
Final Concentration: Date/Time 5/29/15 10:00 by [illegible] Comments The Temp was 77°C

Florisil (pesticides only) Date/Time — by — Florisil Column Lot # —

Comments

Checker Signature Lyle Edwards Date 5/28/15

Plot Title	Start Time	End Time	Scale	Offset
20150604A_024.raw Sample Name : 1514293004 Sample Number: 24 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	200.00	-50.00
20150604A_022.raw Sample Name : 1514293002 Sample Number: 22 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	200.00	-24.00
20150604A_013.raw Sample Name : AR12543A1 Sample Number: 13 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	160.00	3.00
20150604A_006.raw Sample Name : AR16603A1 Sample Number: 06 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	150.00	21.00
20150604A_023.raw Sample Name : 1514293003 Sample Number: 23 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	200.00	-35.00
20150604A_021.raw Sample Name : 1514293001 Sample Number: 21 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	200.00	-10.00
20150604A_012.raw Sample Name : AR12483A1 Sample Number: 12 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	120.00	15.00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3.2
3.4
3.6
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4.8
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6.2
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6.8
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7.6
7.8
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8.2
8.4
8.6
8.8

Plot Title	Start Time	End Time	Scale	Offset
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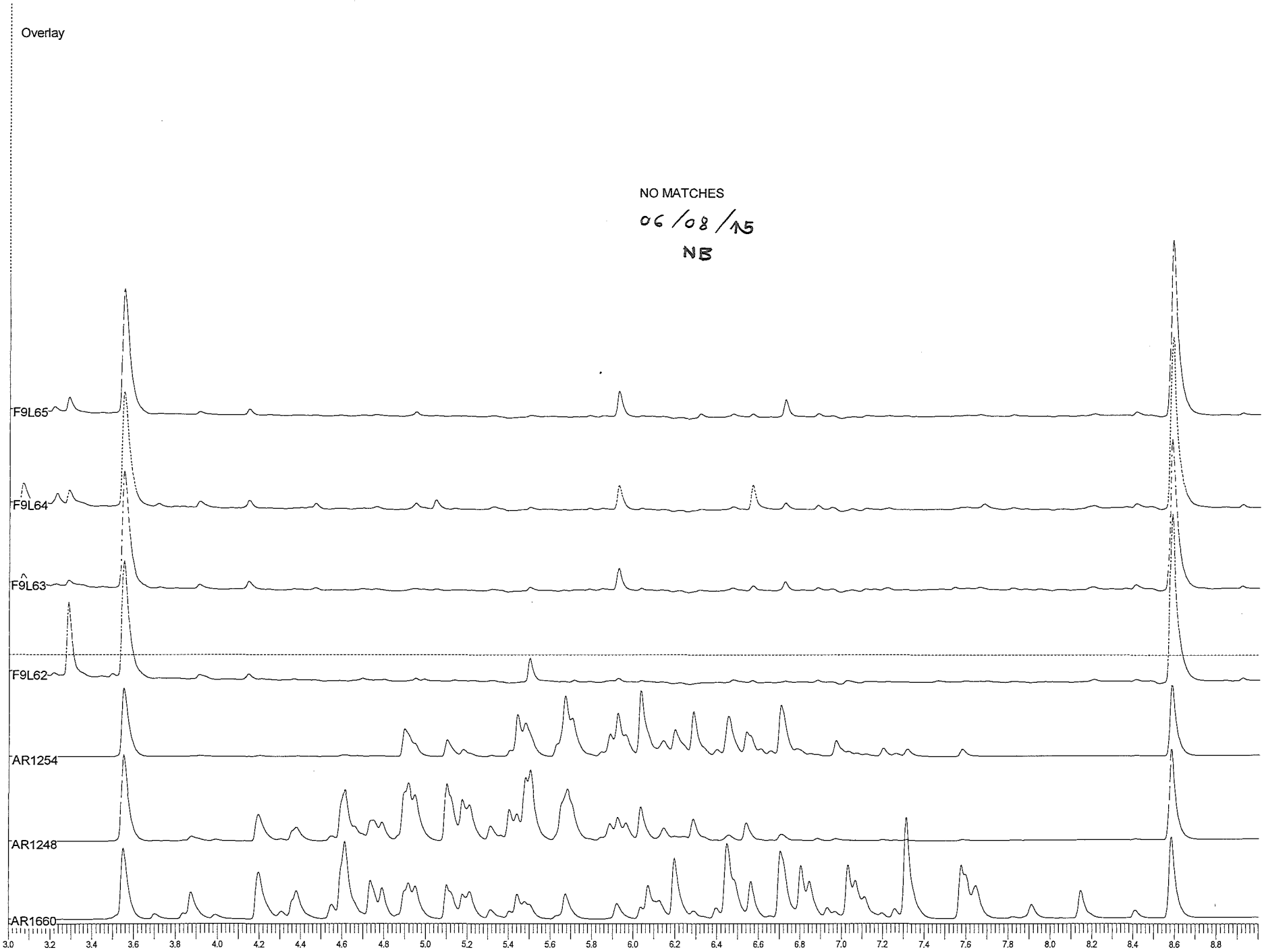
20150604A_026.raw Sample Name : 1514293006 Sample Number: 26 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	200.00	-24.00
20150604A_013.raw Sample Name : AR12543A1 Sample Number: 13 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	160.00	3.00
20150604A_006.raw Sample Name : AR16603A1 Sample Number: 06 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	150.00	21.00
20150604A_027.raw Sample Name : 1514293007 Sample Number: 27 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	200.00	-35.00
20150604A_025.raw Sample Name : 1514293005 Sample Number: 25 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	200.00	-10.00
20150604A_012.raw Sample Name : AR12483A1 Sample Number: 12 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	120.00	15.00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3.2
3.4
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3.8
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Plot Title	Start Time	End Time	Scale	Offset
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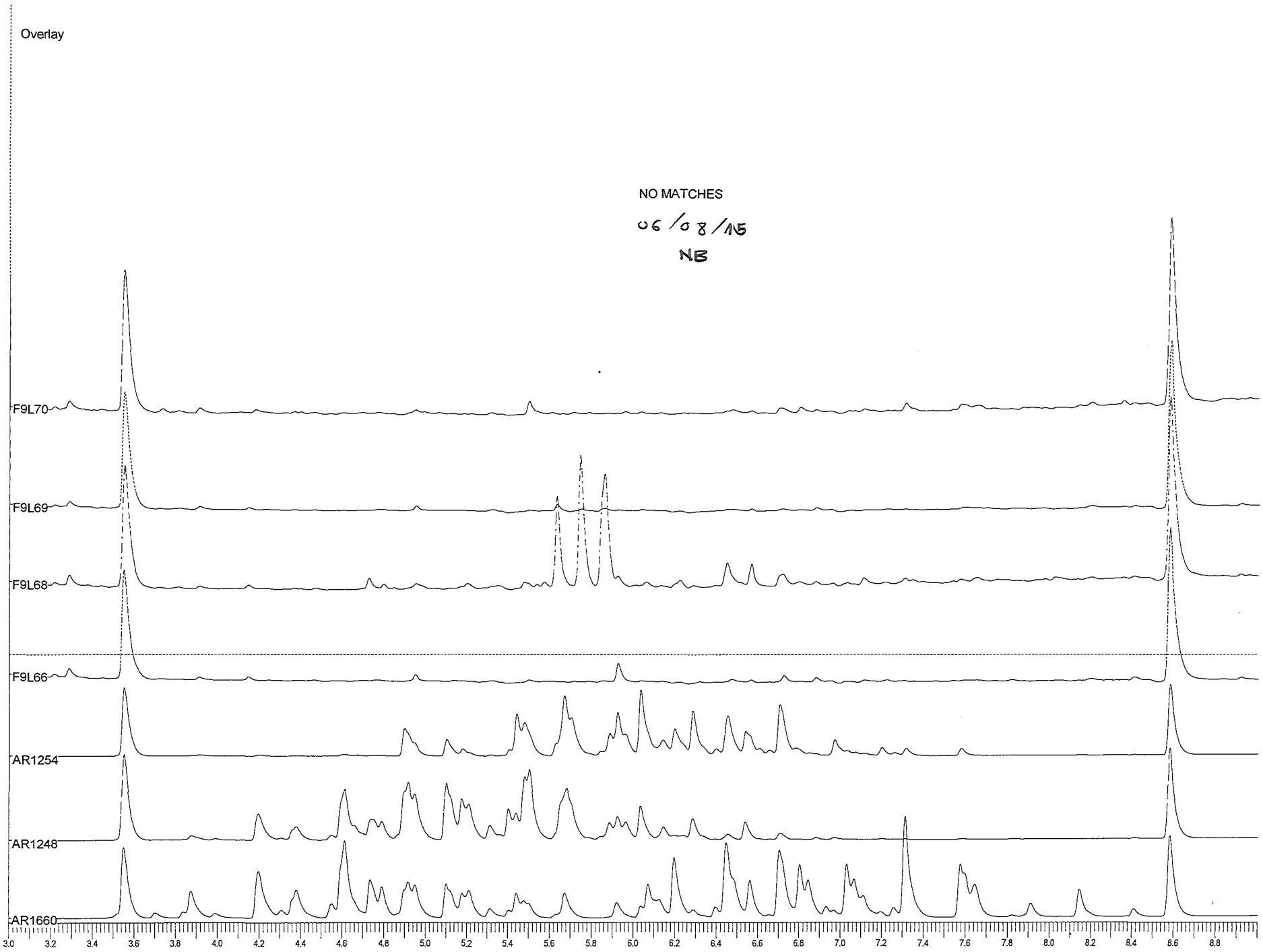
20150604A_033.raw Sample Name : 1514293013 Sample Number: 33 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	200.00	-24.00
20150604A_013.raw Sample Name : AR12543A1 Sample Number: 13 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	160.00	3.00
20150604A_006.raw Sample Name : AR16603A1 Sample Number: 06 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	150.00	21.00
20150604A_034.raw Sample Name : 1514293014 Sample Number: 34 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	200.00	-35.00
20150604A_029.raw Sample Name : 1514293009 Sample Number: 29 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	200.00	-10.00
20150604A_012.raw Sample Name : AR12483A1 Sample Number: 12 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	120.00	15.00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Plot Title		Start Time	End Time	Scale	Offset
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20150604A_013.raw		3.00	9.00	160.00	3.00
Sample Name :	AR12543A1				
Sample Number:	13				
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20150604A_006.raw		3.00	9.00	150.00	21.00
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Sample Number:	06				
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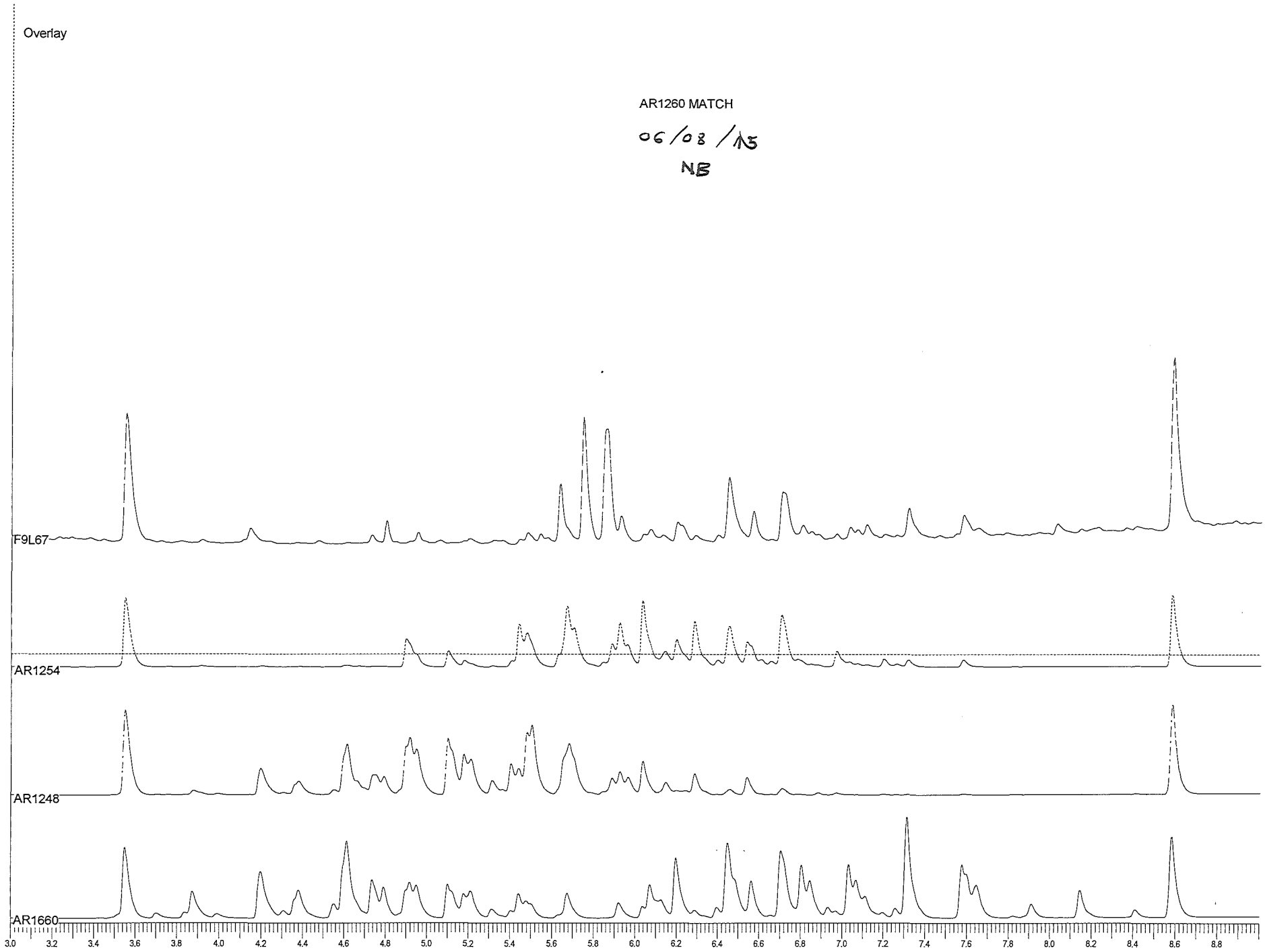
20150604A_012.raw		3.00	9.00	120.00	15.00
Sample Name :	AR12483A1				
Sample Number:	12				
Instrument File Name:	G:\gce20\20150604\20_som_acq_aros				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7.8
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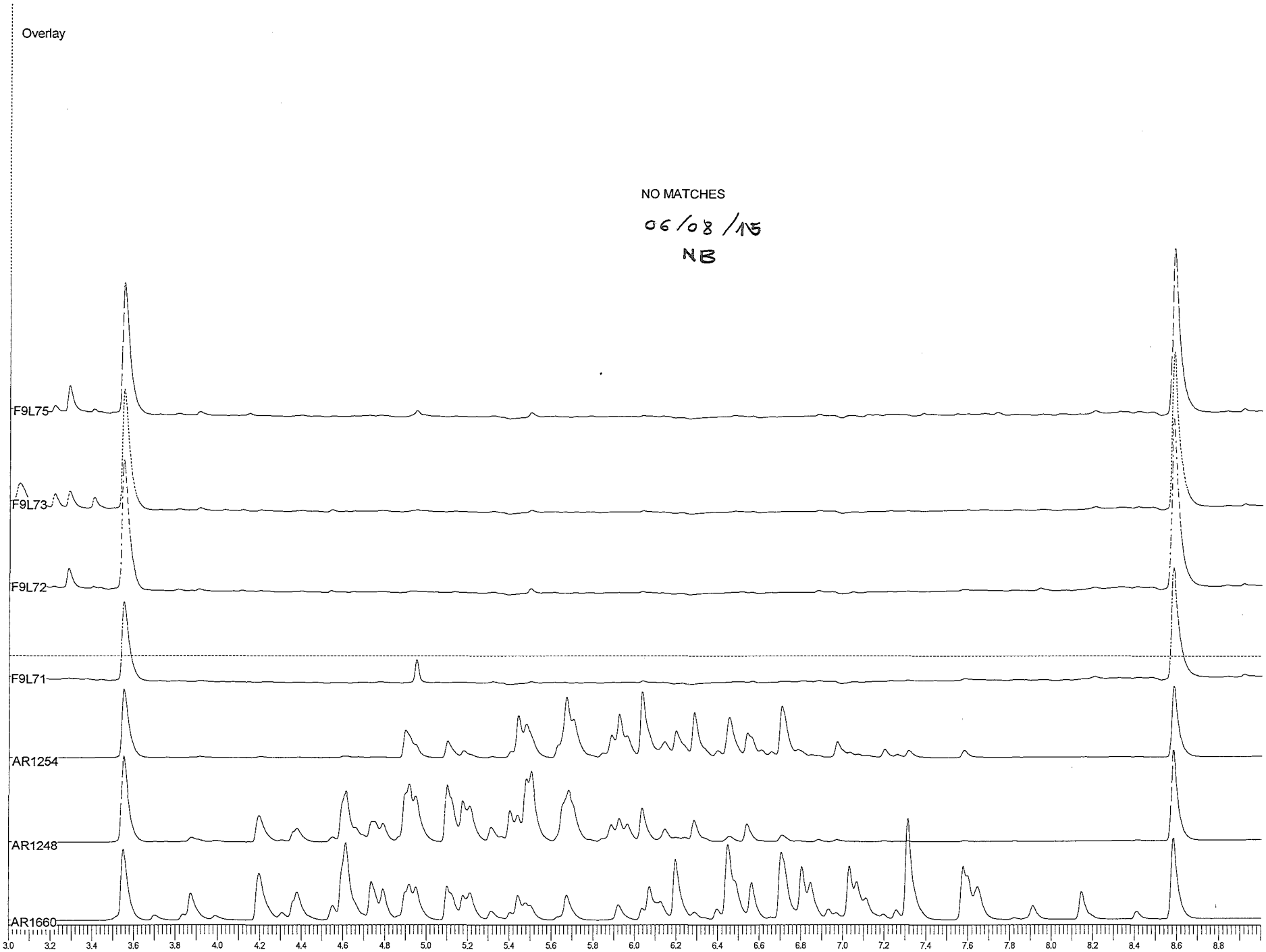
8.4
8.6
8.8

Plot Title	Start Time	End Time	Scale	Offset
20150604A_039.raw Sample Name : 1514293019 Sample Number: 39 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	200.00	-50.00
20150604A_037.raw Sample Name : 1514293017 Sample Number: 37 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	200.00	-24.00
20150604A_013.raw Sample Name : AR12543A1 Sample Number: 13 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	160.00	3.00
20150604A_006.raw Sample Name : AR16603A1 Sample Number: 06 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	150.00	21.00
20150604A_038.raw Sample Name : 1514293018 Sample Number: 38 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	200.00	-35.00
20150604A_036.raw Sample Name : 1514293016 Sample Number: 36 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	200.00	-10.00
20150604A_012.raw Sample Name : AR12483A1 Sample Number: 12 Instrument File Name: G:\gce20\20150604\20_som_acq_aros	3.00	9.00	120.00	15.00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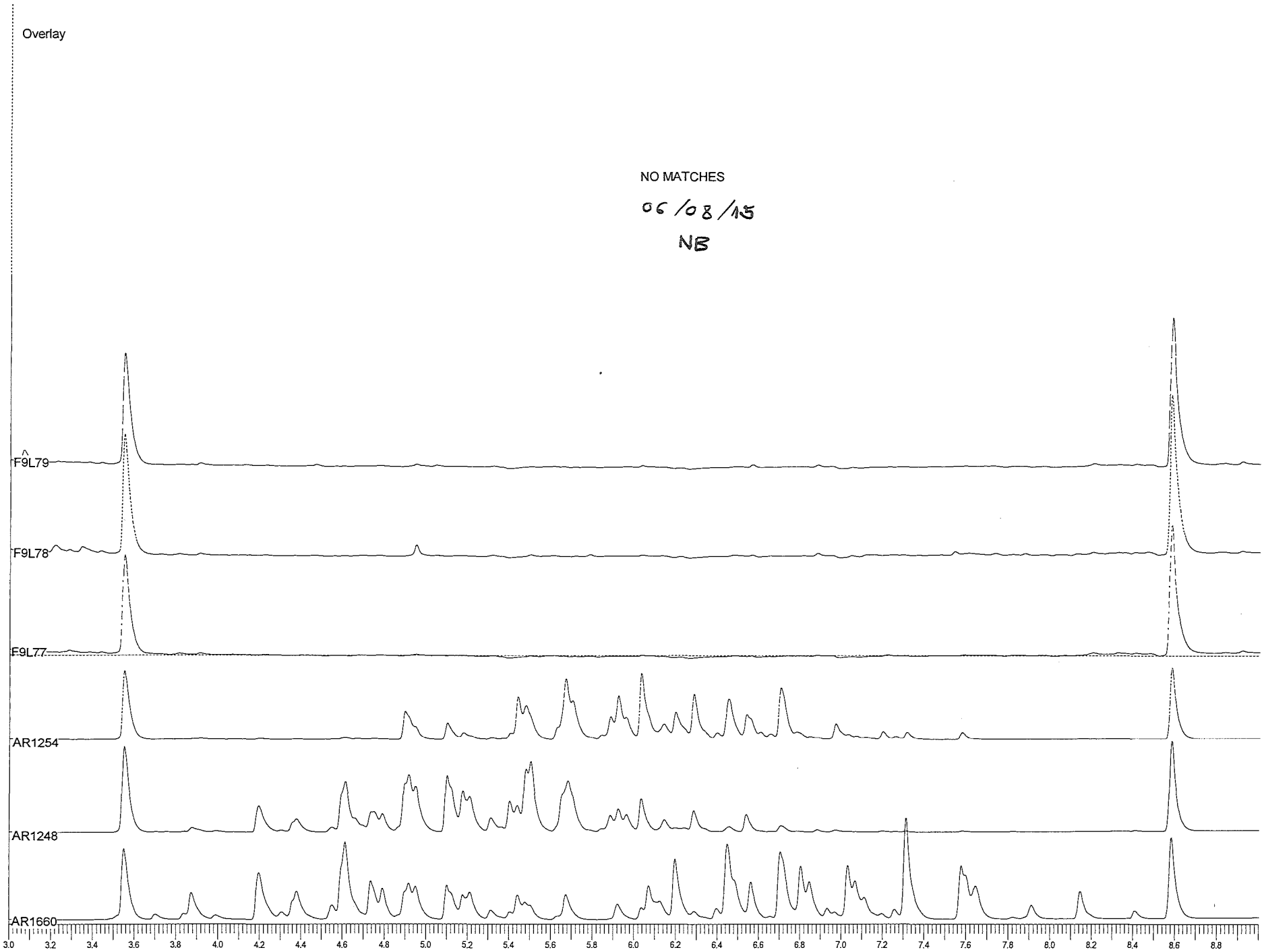
8.6
8.8

Plot Title		Start Time	End Time	Scale	Offset
20150604A_042.raw		3.00	9.00	200.00	-35.00
Sample Name :	1514293022				
Sample Number:	42				
Instrument File Name:	G:\gce20\20150604\20_som_acq_aros				
20150604A_040.raw		3.00	9.00	200.00	-10.00
Sample Name :	1514293020				
Sample Number:	40				
Instrument File Name:	G:\gce20\20150604\20_som_acq_aros				
20150604A_013.raw		3.00	9.00	160.00	3.00
Sample Name :	AR12543A1				
Sample Number:	13				
Instrument File Name:	G:\gce20\20150604\20_som_acq_aros				
20150604A_006.raw		3.00	9.00	150.00	21.00
Sample Name :	AR16603A1				
Sample Number:	06				
Instrument File Name:	G:\gce20\20150604\20_som_acq_aros				
20150604A_041.raw		3.00	9.00	200.00	-24.00
Sample Name :	1514293021				
Sample Number:	41				
Instrument File Name:	G:\gce20\20150604\20_som_acq_aros				
20150604A_012.raw		3.00	9.00	120.00	15.00
Sample Name :	AR12483A1				
Sample Number:	12				
Instrument File Name:	G:\gce20\20150604\20_som_acq_aros				


Overlay
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06/08/15
NB
F9L79
F9L78
F9L77
AR1254
AR1248
AR1660
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3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
6.4
6.6
6.8
7.0
7.2
7.4
7.6
7.8
8.0
8.2
8.4
8.6
8.8

STANDARD REPORT

Working Standard - PSTCLP SURR

PSTCLP SURR		Description - PSTCLP TCX/DCB 10/20 INT
Standard: 26365	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: INT	**Lab Lot:** EGC141212001	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	10 ug/mL
2	2051-24-3	Decachlorobiphenyl	20 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21716	CLP SURR	CLP SURR STOCK	A093842	5 mL	06/30/2019
23771	Hexanes	Hexanes DJ160	DJ160	45 mL	06/10/2024

STANDARD REPORT

Working Standard - PSTCLP IBLK

PSTCLP IBLK		**Description - PSTCLP IBLK 0.02/0.04**
Standard: 26387	**Created By:** S. Sagers	**Amount:** 500 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212014	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
2	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	499 mL	06/10/2024
26365	PSTCLP SURR	PSTCLP TCX/DCB 10/20 INT	EGC141212001	1 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 1660

AROCLP 1660		**Description - AROCLP 1660 2/4/40 INT**
Standard: 26369	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: INT	**Lab Lot:** EGC141212002	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	40 ug/mL
2	11096-82-5	Aroclor 1260	40 ug/mL
3	877-09-8	Tetrachloro-m-xylene	2 ug/mL
4	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21543	AR1660	AR1660 1000 PPM	CJ-3291	2 mL	09/30/2016
23771	Hexanes	Hexanes DJ160	DJ160	46 mL	06/10/2024
26368	AROCLP SURR	AROCLP SURR 50/100 INT	EGC141212001	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 1221

AROCLP 1221		**Description - AROCLP 1221 2/4/40 INT**
Standard: 26370	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: INT	**Lab Lot:** EGC141212003	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	40.04 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
3518	AR1221	AR1221 1000 PPM	B6010245	2 mL	01/23/2016
23771	Hexanes	Hexanes DJ160	DJ160	46 mL	06/10/2024
26368	AROCLP SURR	AROCLP SURR 50/100 INT	EGC141212001	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 1232

AROCLP 1232		**Description - AROCLP 1232 2/4/40 INT**
Standard: 26371	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: INT	**Lab Lot:** EGC141212004	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	40.08 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
3519	AR1232	AR1232 1000 PPM	B6010264	2 mL	01/24/2016
23771	Hexanes	Hexanes DJ160	DJ160	46 mL	06/10/2024
26368	AROCLP SURR	AROCLP SURR 50/100 INT	EGC141212001	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 1242

AROCLP 1242		**Description - AROCLP 1242 2/4/40 INT**
Standard: 26372	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: INT	**Lab Lot:** EGC141212005	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	40 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21723	AR1242	AR1242 1000 PPM	213061664	2 mL	06/27/2023
23771	Hexanes	Hexanes DJ160	DJ160	46 mL	06/10/2024
26368	AROCLP SURR	AROCLP SURR 50/100 INT	EGC141212001	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 1248

AROCLP 1248		**Description - AROCLP 1248 2/4/40 INT**
Standard: 26373	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: INT	**Lab Lot:** EGC141212006	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	40 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
13484	AR1248	AR1248 1000 PPM	209111008	2 mL	11/02/2019
23771	Hexanes	Hexanes DJ160	DJ160	46 mL	06/10/2024
26368	AROCLP SURR	AROCLP SURR 50/100 INT	EGC141212001	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 1254

AROCLP 1254		Description - AROCLP 1254 2/4/40 INT
Standard: 26374	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: INT	**Lab Lot:** EGC141212007	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	40 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
13485	AR1254	AR1254 1000 PPM	210061347	2 mL	06/28/2020
23771	Hexanes	Hexanes DJ160	DJ160	46 mL	06/10/2024
26368	AROCLP SURR	AROCLP SURR 50/100 INT	EGC141212001	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 1262

AROCLP 1262		Description - AROCLP 1262 2/4/40 INT
Standard: 26375	Created By: S. Sagers	Amount: 50 mL
MFG: ALS	Create Date: 12/12/2014	Expires: 06/12/2015
MFG Lot: INT	Lab Lot: EGC141212008	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	40.24 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
21724	AR1262	AR1262 1000 PPM	B6010227	2 mL	01/20/2016
23771	Hexanes	Hexanes DJ160	DJ160	46 mL	06/10/2024
26368	AROCLP SURR	AROCLP SURR 50/100 INT	EGC141212001	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 1268

AROCLP 1268		Description - AROCLP 1268 2/4/40 INT
Standard: 26376	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: INT	**Lab Lot:** EGC141212009	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	40.08 ug/mL
2	877-09-8	Tetrachloro-m-xylene	2 ug/mL
3	2051-24-3	Decachlorobiphenyl	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
15386	AR1268	AR1268 1000 PPM	209091091	2 mL	09/16/2019
23771	Hexanes	Hexanes DJ160	DJ160	46 mL	06/10/2024
26368	AROCLP SURR	AROCLP SURR 50/100 INT	EGC141212001	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 16601

AROCLP 16601		**Description - AROCLP 16601 .005/.01/.1**
Standard: 26394	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212010	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	0.1 ug/mL
2	11096-82-5	Aroclor 1260	0.1 ug/mL
3	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
4	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	99.75 mL	06/10/2024
26369	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC141212002	0.25 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 16602

AROCLP 16602		Description - AROCLP 16602 .01/.02/.2
Standard: 26395	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212011	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	0.2 ug/mL
2	11096-82-5	Aroclor 1260	0.2 ug/mL
3	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
4	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	99.5 mL	06/10/2024
26369	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC141212002	0.5 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 16603

AROCLP 16603		Description - AROCLP 16603 .02/.04/.4
Standard: 26396	**Created By:** S. Sagers	**Amount:** 200 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212012	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	0.4 ug/mL
2	11096-82-5	Aroclor 1260	0.4 ug/mL
3	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
4	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	198 mL	06/10/2024
26369	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC141212002	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 16604

AROCLP 16604		**Description - AROCLP 16604 .04/.08/.8**
Standard: 26397	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212013	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	0.8 ug/mL
2	11096-82-5	Aroclor 1260	0.8 ug/mL
3	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
4	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	98 mL	06/10/2024
26369	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC141212002	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 16605

AROCLP 16605		Description - AROCLP 16605 .08/.16/1.6
Standard: 26398	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212014	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	1.6 ug/mL
2	11096-82-5	Aroclor 1260	1.6 ug/mL
3	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
4	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	96 mL	06/10/2024
26369	AROCLP 1660	AROCLP 1660 2/4/40 INT	EGC141212002	4 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12211

AROCLP 12211		Description - AROCLP 12211 .005/.01/.1
Standard: 26399	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212015	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	0.1001 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	49.875 mL	06/10/2024
26370	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC141212003	0.125 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12212

AROCLP 12212		Description - AROCLP 12212 .01/.02/.2
Standard: 26400	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212016	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	0.2002 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	49.75 mL	06/10/2024
26370	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC141212003	0.25 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12213

AROCLP 12213		Description - AROCLP 12213 .02/.04/.4
Standard: 26401	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212017	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	0.4004 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	99 mL	06/10/2024
26370	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC141212003	1 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12214

AROCLP 12214		Description - AROCLP 12214 .04/.08/.8
Standard: 26402	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212018	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	0.8008 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	49 mL	06/10/2024
26370	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC141212003	1 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12215

AROCLP 12215		Description - AROCLP 12215 .08/.16/1.6
Standard: 26403	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212019	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11104-28-2	Aroclor 1221	1.6016 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	48 mL	06/10/2024
26370	AROCLP 1221	AROCLP 1221 2/4/40 INT	EGC141212003	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12321

AROCLP 12321		Description - AROCLP 12321 .005/.01/.1
Standard: 26404	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212020	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	0.1002 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	49.875 mL	06/10/2024
26371	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC141212004	0.125 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12322

AROCLP 12322		Description - AROCLP 12322 .01/.02/.2
Standard: 26405	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212021	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	0.2004 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	49.75 mL	06/10/2024
26371	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC141212004	0.25 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12323

AROCLP 12323		Description - AROCLP 12323 .02/.04/.4
Standard: 26406	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212022	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	0.4008 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	99 mL	06/10/2024
26371	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC141212004	1 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12324

AROCLP 12324		Description - AROCLP 12324 .04/.08/.8
Standard: 26407	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212023	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	0.8016 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	49 mL	06/10/2024
26371	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC141212004	1 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12325

AROCLP 12325		Description - AROCLP 12325 .08/.16/1.6
Standard: 26408	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212024	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11141-16-5	Aroclor 1232	1.6032 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	48 mL	06/10/2024
26371	AROCLP 1232	AROCLP 1232 2/4/40 INT	EGC141212004	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12421

AROCLP 12421		Description - AROCLP 12421 .005/.01/.1
Standard: 26409	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212025	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	0.1 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	99.75 mL	06/10/2024
26372	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC141212005	0.25 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12422

AROCLP 12422		Description - AROCLP 12422 .01/.02/.2
Standard: 26410	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212026	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	0.2 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	99.5 mL	06/10/2024
26372	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC141212005	0.5 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12423

AROCLP 12423		Description - AROCLP 12423 .02/.04/.4
Standard: 26411	**Created By:** S. Sagers	**Amount:** 200 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212027	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	0.4 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	198 mL	06/10/2024
26372	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC141212005	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12424

AROCLP 12424		Description - AROCLP 12424 .04/.08/.8
Standard: 26412	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212028	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	0.8 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	98 mL	06/10/2024
26372	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC141212005	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12425

AROCLP 12425	Description - AROCLP 12425 .08/.16/1.6

Standard: 26413	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212029	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	53469-21-9	Aroclor 1242	1.6 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	96 mL	06/10/2024
26372	AROCLP 1242	AROCLP 1242 2/4/40 INT	EGC141212005	4 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12481

AROCLP 12481		Description - AROCLP 12481 .005/.01/.1
Standard: 26414	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212030	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	0.1 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	99.75 mL	06/10/2024
26373	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC141212006	0.25 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12482

AROCLP 12482		Description - AROCLP 12482 .01/.02/.2
Standard: 26415	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212031	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	0.2 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	99.5 mL	06/10/2024
26373	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC141212006	0.5 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12483

AROCLP 12483		Description - AROCLP 12483 .02/.04/.4
Standard: 26416	**Created By:** S. Sagers	**Amount:** 200 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212032	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	0.4 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	198 mL	06/10/2024
26373	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC141212006	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12484

AROCLP 12484		Description - AROCLP 12484 .04/.08/.8
Standard: 26417	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212033	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	0.8 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	98 mL	06/10/2024
26373	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC141212006	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12485

AROCLP 12485		Description - AROCLP 12485 .08/.16/1.6
Standard: 26418	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212034	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12672-29-6	Aroclor 1248	1.6 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	96 mL	06/10/2024
26373	AROCLP 1248	AROCLP 1248 2/4/40 INT	EGC141212006	4 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12541

AROCLP 12541		Description - AROCLP 12541 .005/.01/.1
Standard: 26419	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212035	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	0.1 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	99.75 mL	06/10/2024
26374	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC141212007	0.25 mL	06/12/2015

01528

STANDARD REPORT

Working Standard - AROCLP 12542

AROCLP 12542		Description - AROCLP 12542 .01/.02/.2
Standard: 26420	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212036	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	0.2 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	99.5 mL	06/10/2024
26374	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC141212007	0.5 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12543

AROCLP 12543	Description - AROCLP 12543 .02/.04/.4

Standard:	26421	**Created By:**	S. Sagers	**Amount:**	200 mL
MFG:	ALS	**Create Date:**	12/12/2014	**Expires:**	06/12/2015
MFG Lot:	WS	**Lab Lot:**	EGC141212037	**Usable:**	Yes
Part ID:					

Pos.	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	0.4 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	198 mL	06/10/2024
26374	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC141212007	2 mL	06/12/2015

01328

STANDARD REPORT

Working Standard - AROCLP 12544

AROCLP 12544		Description - AROCLP 12544 .04/.08/.8
Standard: 26422	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212038	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	0.8 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	98 mL	06/10/2024
26374	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC141212007	2 mL	06/12/2015

01525

STANDARD REPORT

Working Standard - AROCLP 12545

AROCLP 12545		Description - AROCLP 12545 .08/.16/1.6
Standard: 26423	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212039	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11097-69-1	Aroclor 1254	1.6 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	96 mL	06/10/2024
26374	AROCLP 1254	AROCLP 1254 2/4/40 INT	EGC141212007	4 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12621

AROCLP 12621		Description - AROCLP 12621 .005/.01/.1
Standard: 26424	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212040	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	0.1006 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	49.875 mL	06/10/2024
26375	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC141212008	0.125 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12622

AROCLP 12622		Description - AROCLP 12622 .01/.02/.2
Standard: 26425	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212041	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	0.2012 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	49.75 mL	06/10/2024
26375	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC141212008	0.25 mL	06/12/2015

161532

STANDARD REPORT

Working Standard - AROCLP 12623

AROCLP 12623		Description - AROCLP 12623 .02/.04/.4
Standard: 26426	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212042	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	0.4024 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	99 mL	06/10/2024
26375	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC141212008	1 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12624

AROCLP 12624		Description - AROCLP 12624 .04/.08/.8
Standard: 26427	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212043	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	0.8048 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	49 mL	06/10/2024
26375	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC141212008	1 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12625

AROCLP 12625		Description - AROCLP 12625 .08/.16/1.6
Standard: 26428	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212044	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	37324-23-5	Aroclor 1262	1.6096 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	48 mL	06/10/2024
26375	AROCLP 1262	AROCLP 1262 2/4/40 INT	EGC141212008	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12681

AROCLP 12681		Description - AROCLP 12681 .005/.01/.1
Standard: 26429	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212045	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	0.1002 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.005 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.01 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	49.875 mL	06/10/2024
26376	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC141212009	0.125 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12682

AROCLP 12682		Description - AROCLP 12682 .01/.02/.2
Standard: 26430	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212046	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	0.2004 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.01 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.02 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	49.75 mL	06/10/2024
26376	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC141212009	0.25 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12683

AROCLP 12683		Description - AROCLP 12683 .02/.04/.4
Standard: 26431	**Created By:** S. Sagers	**Amount:** 100 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212047	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	0.4008 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.02 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.04 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	99 mL	06/10/2024
26376	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC141212009	1 mL	06/12/2015

01536

STANDARD REPORT

Working Standard - AROCLP 12684

AROCLP 12684		Description - AROCLP 12684 .04/.08/.8
Standard: 26432	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212048	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	0.8016 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.04 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.08 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	49 mL	06/10/2024
26376	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC141212009	1 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP 12685

AROCLP 12685		Description - AROCLP 12685 .08/.16/1.6
Standard: 26433	**Created By:** S. Sagers	**Amount:** 50 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: WS	**Lab Lot:** EGC141212049	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	11100-14-4	Aroclor 1268	1.6032 ug/mL
2	877-09-8	Tetrachloro-m-xylene	0.08 ug/mL
3	2051-24-3	Decachlorobiphenyl	0.16 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
23771	Hexanes	Hexanes DJ160	DJ160	48 mL	06/10/2024
26376	AROCLP 1268	AROCLP 1268 2/4/40 INT	EGC141212009	2 mL	06/12/2015

STANDARD REPORT

Working Standard - AROCLP LCS

AROCLP LCS		Description - AROCLP LCS SPIKE 1 ug/mL
Standard: 26434	**Created By:** S. Sagers	**Amount:** 200 mL
MFG: ALS	**Create Date:** 12/12/2014	**Expires:** 06/12/2015
MFG Lot: SPIKE	**Lab Lot:** EGC141212050	**Usable:** Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	1 ug/mL
2	11096-82-5	Aroclor 1260	1 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
19305	Acetone	Acetone K41E22	K41E22	199.8 mL	06/09/2023
21543	AR1660	AR1660 1000 PPM	CJ-3291	0.2 mL	09/30/2016

STANDARD REPORT

Working Standard - AROCLP MS

AROCLP MS		Description - AROCLP MS SPIKE 4 ug/mL
Standard: 26435	Created By: S. Sagers	Amount: 200 mL
MFG: ALS	Create Date: 12/12/2014	Expires: 09/30/2016
MFG Lot: SPIKE	Lab Lot: EGC141212051	Usable: Yes
Part ID:		

Pos.	Analyte	Name	Concentration
1	12674-11-2	Aroclor 1016	4 ug/mL
2	11096-82-5	Aroclor 1260	4 ug/mL

Composition

Standard	Standard ID	Description	Lab Lot ID	Volume	Expires
19305	Acetone	Acetone K41E22	K41E22	199.2 mL	06/09/2023
21543	AR1660	AR1660 1000 PPM	CJ-3291	0.8 mL	09/30/2016

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ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Recd 12/13/13

Catalog No. : 32453 **Lot No.:** A093842

Description : SOM01.1 Pesticide Surrogate Standard

Pesticide Surrogate Mix 100-200µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 2019 **Storage:** 0°C or colder

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene	100.0 µg/mL	+/- 0.7088	µg/mL	Gravimetric
	CAS # 877-09-8		+/- 2.1243	µg/mL	Unstressed
	Purity 98%		+/- 3.4583	µg/mL	Stressed
2	Decachlorobiphenyl	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric
	CAS # 2051-24-3		+/- 4.2504	µg/mL	Unstressed
	Purity 99%		+/- 6.9193	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

ULTRA SCIENTIFIC
Analytical Standards

Certificate of Analysis

21543

Method 8082 Calibration Mixture

Product Number: PPM-8082 **Page:** 1 of 1

Lot Number: CJ-3291 **Lot Issue Date:** 10-Sep-2012 **Expiration Date:** 30-Sep-2016

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1016	012674-11-2	NT01016	1004 ± 5 µg/mL
Aroclor 1260	011096-82-5	NT01023	1004 ± 5 µg/mL

Matrix: Isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15-30°C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01

ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
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William J. Leary
Quality Assurance Manager

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Web AccuStandard.com

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CERTIFICATE OF ANALYSIS

ISO 9001:2000
Certificate Number CT03-81069

CATALOG NO. C-221S-H-10X
DESCRIPTION: Aroclor 1221
LOT: B6010245
SOLVENT: Hexane

S 3518

EXPIRATION: Jan 23, 2016

Rec'd 072506

This product is guaranteed accurate to ±0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

See reverse for additional certification information.

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1221	11104-28-2	Tech Mix 1001	±40.04	1001

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/270236-04
2. Certified Analyte Concentration = Purity x Prepared Concentration
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

Certified by: R. Cooper

This product was manufactured to meet the quality system requirements of ISO 9001:2000 and ISO 17025

OR-ORG/INO-001
Rev. 6/05

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CERTIFICATE OF ANALYSIS

ISO 9001:2000
Certificate Number C1945.01

CATALOG NO. C-232S-H-10X

DESCRIPTION: Aroclor 1232

LOT: B6010264

SOLVENT: hexane

S 3519

EXPIRATION: Jan 24, 2016

Rec'd 072506

This product is guaranteed accurate to ±0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

See reverse for additional certification information.

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1232	11141-16-5	Tech Mix 1002	±40.08	1002

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/270236-04
2. Certified Analyte Concentration = Purity x Prepared Concentration
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

)mma (,) is used to separate units of one-thousand or greater.
:riod (.) is used as a decimal place marker.

Certified by: R. Cooper

This product was manufactured to meet the quality system requirements of ISO 9001:2000 and ISO 17025

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21723

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CERTIFICATE OF ANALYSIS

Rec'd 12/16/13

Catalog No: C-242S-H-10X
Description: Aroclor 1242

21723

Lot: 213061664
Solvent: Hexane

Date Certified: Jun 27, 2013
Expiration: Jun 27, 2023
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1242	53469-21-9	Tech Mix	1000	1000

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No822-275872-11
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

See reverse side for additional information
Refer to the MSDS for additional safety information

For use in routine laboratory analysis.

Certified by: R. Cooper
Russ Cooper, QC Manager

: 21547

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USA

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Website AccuStandard.com

CERTIFICATE OF ANALYSIS

Rec'd 03/25/10

13484

CATALOG NO: C-248S-H-10X S
DESCRIPTION: Aroclor 1248
LOT: 209111008
SOLVENT: Hexane

DATE CERTIFIED: Nov 2, 2009
EXPIRATION: Nov 2, 2019
SAMPLE SIZE: 1 mL
STORAGE CONDITION: Ambient
HAZARDS: FLAMMABLE

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1248	12672-29-6	Tech	1004	1004

Please note:
A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±2% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).

Certified by: R. Cooper
Russ Cooper, QC Manager

For use in routine laboratory analysis.
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AccuStandard is accredited to ISO/IEC 17025:2005 and certified to ISO 9001:2000

13484

13485 Rec'd Dec 2010

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Website AccuStandard.com

CERTIFICATE OF ANALYSIS

13485

CATALOG NO: C-254S-H-10X S
DESCRIPTION: Aroclor 1254
LOT: 210061347
SOLVENT: Hexane

DATE CERTIFIED: Jun 28, 2010
EXPIRATION: Jun 28, 2020
SAMPLE SIZE: 1 mL
STORAGE CONDITION: Ambient
HAZARDS: FLAMMABLE

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1254	11097-69-1	Tech	1009	1009

AccuStandard

Please note:
A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

Comma (,) is used to separate units of one-thousand or greater.
Period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±2% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).

Certified by: R. Cooper
Russ Cooper, QC Manager

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CERTIFICATE OF ANALYSIS

Recd 12/16/13

21724

Catalog No: C-262S-H-10X
Description: Aroclor 1262

Lot: B6010227
Solvent: Hexane

Date Certified: Jan 20, 2006
Expiration: Jan 20, 2016
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1262	37324-23-5	Tech Mix	1006	1006

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No. 822/270236-04
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

See reverse side for additional information
Refer to the MSDS for additional safety information

For use in routine laboratory analysis.

Certified by: R. Cooper
Russ Cooper, QC Manager

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CERTIFICATE OF ANALYSIS

Recd 021413

15386

Catalog No: C-268S-H-10X S
Description: Aroclor 1268

Lot: 209091091
Solvent: Hexane

Date Certified: Sep 16, 2009
Expiration: Sep 16, 2019
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1268	11100-14-4	Tech Mix	1002	1002

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

See reverse side for additional information
Refer to the MSDS for additional safety information

Certified by: R. Cooper
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OR-ORG/INO-001
Rev. 7/11

AccuStandard

01551

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 5gSoil
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 VOA, Soil	Requested Analysis									
1	05/21/2015 08:20	F9L58	1514293001		Soil/Solid/Sediment	E,F,G	3	E	5.62g	5.79	5.75							
2	05/21/2015 08:25	F9L59	1514293002		Soil/Solid/Sediment	E,F,G	3	E	5.61g	4.55	4.44							
3	05/21/2015 08:45	F9L60	1514293003		Soil/Solid/Sediment	E,F,G	3	E	5.59	6.02	5.71							
4	05/21/2015 08:50	F9L61 cancelled? moved?	1514293004		Soil/Solid/Sediment	E,F,G	3	E	6.04	6.08	6.38							
5	05/21/2015 08:55	F9L62	1514293005		Soil/Solid/Sediment	E,F,G	3	E	6.71	6.35	6.15							
6	05/21/2015 09:30	F9L63	1514293006		Soil/Solid/Sediment	E,F,G	3	E	5.75	5.40	5.33							
7	05/21/2015 09:35	F9L64	1514293007		Soil/Solid/Sediment	E,F,G	3	E	4.88	4.30	4.34							
8	05/21/2015 09:40	F9L65	1514293008		Soil/Solid/Sediment	E,F,G	3	E	4.99	4.16	4.77							
9	05/21/2015 09:45	F9L66	1514293009		Soil/Solid/Sediment	E,F,G	3	E	5.19	5.07	5.59							
10	05/21/2015 10:05	F9L67	1514293012 F		Soil/Solid/Sediment	E,F,G	3	E	6.03	5.04	5.05							

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[signature] Storage 3F cm	5/22/2015 1185 5-22-15 2:53	[signature]	Storage WR Prep/Store F-6/C-4C ce

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 5gSoil
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	Requested Analysis: SOM01.2 VOA, Soil										
11	05/21/2015 10:10	F9L68	1514293013		Soil/Solid/Sediment	E,F,G	3	E	6.49	5.81	5.54							
12	05/21/2015 10:15	F9L69	1514293014		Soil/Solid/Sediment	E,F,G	3	E	6.02	5.05	6.17							
13	05/21/2015 11:05	F9L70	1514293015		Soil/Solid/Sediment	E,F,G	3	E	5.56	5.79	5.91							
14	05/21/2015 11:10	F9L71	1514293016		Soil/Solid/Sediment	E,F,G	3	E	6.24	5.75	6.05							
15	05/21/2015 11:15	F9L72	1514293017		Soil/Solid/Sediment	E,F,G	3	E	6.25	5.25	5.07							
16	05/21/2015 11:20	F9L73	1514293018		Soil/Solid/Sediment	E,F,G	3	E	5.99	5.85	6.13							
17	05/21/2015 14:00	F9L75	1514293019		Soil/Solid/Sediment	E,F,G	3	E	5.70	5.00	5.94							
18	05/21/2015 14:10	F9L77	1514293020		Soil/Solid/Sediment	E,F,G	3	E	5.71	5.46	5.25							
19	05/21/2015 14:30	F9L78	1514293021		Soil/Solid/Sediment	E,F,G	3	E	5.35	5.21	41.70							
20	05/21/2015 14:35	F9L79	1514293022		Soil/Solid/Sediment	E,F,G	3	E	6.22	5.74	5.96							

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
Storage 3F	5-22-15 2030		

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil	Requested Analysis
1	05/21/2015 08:20	F9L58	1514293001		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
2	05/21/2015 08:25	F9L59	1514293002		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
3	05/21/2015 08:45	F9L60	1514293003		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
4	05/21/2015 08:50	F9L61	1514293004		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
5	05/21/2015 08:55	F9L62	1514293005		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
6	05/21/2015 09:30	F9L63	1514293006		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
7	05/21/2015 09:35	F9L64	1514293007		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
8	05/21/2015 09:40	F9L65	1514293008		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
9	05/21/2015 09:45	F9L66	1514293009		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
10	05/21/2015 09:45	F9L66MS	1514293010	MS	Soil/Solid/Sediment	A	1			A	A	

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
	5/22/2015 1838	R-33-1 CART	Storage
R-33-1 CART	5/26/15 1600		EXT
	5/26/15 1700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV Lab Notebook No.:

Prepared / Analyzed by: Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
	5/28/15 14:00		pre-GPC cool
	5/28/15 17:00		STOR
R-63-1	5/31/15 1000		GPC
	6/02/15 9:00		post-GPC cool
	6/02/15 14:00	R-60-6	STOR
R-60-6	6-2-15 14:00		GC/MS

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
11	05/21/2015 09:45	F9L66MSD	1514293011	MSD	Soil/Solid/Sediment	A	1			A	A
12	05/21/2015 10:05	F9L67	1514293012		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
13	05/21/2015 10:10	F9L68	1514293013		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
14	05/21/2015 10:15	F9L69	1514293014		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
15	05/21/2015 11:05	F9L70	1514293015		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
16	05/21/2015 11:10	F9L71	1514293016		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
17	05/21/2015 11:15	F9L72	1514293017		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
18	05/21/2015 11:20	F9L73	1514293018		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
19	05/21/2015 14:00	F9L75	1514293019		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
20	05/21/2015 14:10	F9L77	1514293020		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[signature]	5/22/2015 1448	R33-1 Cart	Storage
R-33-1 CART	5/26/15 1600	[signature]	EXT
[signature]	5/26/15 1700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV Lab Notebook No.:

Prepared / Analyzed by: Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[signature]	5/28/15 14:00	[signature]	pre-GPC cont
[signature]	5/28/15 17:00	R-63-1	STOR
R-63-1	5/31/15 1000	[signature]	GPC
[signature]	6/02/15 9:00	[signature]	post-GPC cont
[signature]	6/02/15 14:00	R-60-6	STOR
R-60-6	6-2-15 14:00	Dustin Calder	GC/MS

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	Requested Analysis: SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
21	05/21/2015 14:30	F9L78	1514293021		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
22	05/21/2015 14:35	F9L79	1514293022		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
23											
24											
25											
26											
27											
28											
29											
30											

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
Meredith Edwards R-33-1 CART	5/22/2015 1806	R-1 cart	Storage
	5/26/15 1600		EXT
	5/26/15 1700	R-19-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV — Lab Notebook No.: _____

Prepared / Analyzed by: _____ — Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
	5/28/15 14:00		per GPC Lane
	5/28/15 17:00	R-63-1	STOR
R-63-1	5/31/15 1000		GPC
	6/1/15 9:00		per GPC Lane
	6/2/15 09:00	R-60-6	STOR
R-60-6	6-2-15 14:00	Dustin Calder	GCMS

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	Requested Analysis: SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
1	05/21/2015 08:20	F9L58	1514293001		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
2	05/21/2015 08:25	F9L59	1514293002		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
3	05/21/2015 08:45	F9L60	1514293003		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
4	05/21/2015 08:50	F9L61	1514293004		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
5	05/21/2015 08:55	F9L62	1514293005		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
6	05/21/2015 09:30	F9L63	1514293006		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
7	05/21/2015 09:35	F9L64	1514293007		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
8	05/21/2015 09:40	F9L65	1514293008		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
9	05/21/2015 09:45	F9L66	1514293009		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
10	05/21/2015 09:45	F9L66MS	1514293010	MS	Soil/Solid/Sediment	A	1			A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards. Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[signature]	5/22/2015 1818	R33-1 Cart	Storage
R-33-1 CART	5/26/15 1600	[signature]	EXT STORAGE
[signature]	5/26/15 1700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SW Lab Notebook No.:

Prepared / Analyzed by: Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[signature]	5/28/15 14:00	[signature]	pre-GPC cont
[signature]	5/28/15 17:00	R-63-1	STOR
R-63-1	5/31/15 1000	[signature]	GPC
[signature]	6/02/15 9:00	[signature]	post-GPC cont
[signature]	6/02/15 14:00	R-60-6	STOR
R-60-6	6-2-15 14:00	Dustin Calder	GC/MS

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Requested Analysis

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
11	05/21/2015 09:45	F9L66MSD	1514293011	MSD	Soil/Solid/Sediment	A	1			A	A
12	05/21/2015 10:05	F9L67	1514293012		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
13	05/21/2015 10:10	F9L68	1514293013		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
14	05/21/2015 10:15	F9L69	1514293014		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
15	05/21/2015 11:05	F9L70	1514293015		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
16	05/21/2015 11:10	F9L71	1514293016		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
17	05/21/2015 11:15	F9L72	1514293017		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
18	05/21/2015 11:20	F9L73	1514293018		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
19	05/21/2015 14:00	F9L75	1514293019		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
20	05/21/2015 14:10	F9L77	1514293020		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[signature]	5/22/2015 1448	R33-1 Cart	Storage
R-33-1 CART	5/26/15 1600	[signature]	Ext
[signature]	5/26/15 1700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV Lab Notebook No.:

Prepared / Analyzed by: Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[signature]	5/28/15 14:00	[signature]	pre-GPC cont
[signature]	5/28/15 17:00	R-63-1	STOR
R-63-1	5/31/15 1000	[signature]	GPC
[signature]	6/02/15 9:00	[signature]	post-GPC cont
[signature]	6/02/15 14:00	R-60-6	STOR
R-60-6	6-2-15 14:00	Dustin Calder	GCMS

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
21	05/21/2015 14:30	F9L78	1514293021		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
22	05/21/2015 14:35	F9L79	1514293022		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
23											
24											
25											
26											
27											
28											
29											
30											

Requested Analysis

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[signature]	5/22/2015 1808	R33-1 cart	Storage
R-33-1 CART	5/26/15 1600	[signature]	EXT
[signature]	5/26/15 1700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: SV Lab Notebook No.:

Prepared / Analyzed by: Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[signature]	5/28/15 14:00	[signature]	[illegible] GPC Lone
[signature]	5/28/15 17:00	R-63-1	STOR
R-63-1	5/31/15 1000	[signature]	GPC
[signature]	6/2/15 9:00	[signature]	[illegible] GPC Lone
[signature]	6/2/15 14:00	R-60-6	STOR
R-60-6	6-2-15 14:00	Dustin Calder	GCMS

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL
			Containers

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	Requested Analysis: SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
1	05/21/2015 08:20	F9L58	1514293001		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
2	05/21/2015 08:25	F9L59	1514293002		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
3	05/21/2015 08:45	F9L60	1514293003		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
4	05/21/2015 08:50	F9L61	1514293004		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
5	05/21/2015 08:55	F9L62	1514293005		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
6	05/21/2015 09:30	F9L63	1514293006		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
7	05/21/2015 09:35	F9L64	1514293007		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
8	05/21/2015 09:40	F9L65	1514293008		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
9	05/21/2015 09:45	F9L66	1514293009		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
10	05/21/2015 09:45	F9L66MS	1514293010	MS	Soil/Solid/Sediment	A	1			A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards. Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[signature]	5/22/2015 1818	R33-1 CART	Storage
R-33-1 CART	5/26/15 1600	[signature]	EXT
[signature]	5/26/15 1700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: PEST Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[signature]	5/27/15 14:00	[signature]	pre-GPC cont
[signature]	5/27/15 1500	[signature]	GPC
[signature]	5/29/15 10:00	[signature]	post-GPC cont
[signature]	5/29/15 14:00	[signature]	Florisil
[signature]	5/29/15 16:30	R-72-1	STOR
R-72-1	06/04/15 1200	[signature]	Analysis
[signature]	0		

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
11	05/21/2015 09:45	F9L66MSD	1514293011	MSD	Soil/Solid/Sediment	A	1			A	A
12	05/21/2015 10:05	F9L67	1514293012		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
13	05/21/2015 10:10	F9L68	1514293013		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
14	05/21/2015 10:15	F9L69	1514293014		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
15	05/21/2015 11:05	F9L70	1514293015		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
16	05/21/2015 11:10	F9L71	1514293016		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
17	05/21/2015 11:15	F9L72	1514293017		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
18	05/21/2015 11:20	F9L73	1514293018		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
19	05/21/2015 14:00	F9L75	1514293019		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
20	05/21/2015 14:10	F9L77	1514293020		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[signature]	5/22/2015 1458	R33.1 Cart	Storage
R-33.1 Cart	5/26/15 1600	[signature]	Ext
[signature]	5/26/15 1700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: PEST Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[signature]	5/27/15 14:00	[signature]	pre-GPC Lone
[signature]	5/27/15 1500	[signature]	GPC
[signature]	5/29/15 10:00	[signature]	post-GPC Lone
[signature]	5/29/15 14:00	[signature]	Florisil
[signature]	5/29/15 16:30	R-721 [signature]	STOR
R-72-1st	06/04/15 1200	[signature]	Analysis

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
21	05/21/2015 14:30	F9L78	1514293021		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
22	05/21/2015 14:35	F9L79	1514293022		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
23											
24											
25											
26											
27											
28											
29											
30											

Requested Analysis

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[signature]	5/22/2015 1808	R33-1 cart	Storage
R-33-1 CART	5/26/15 1600	[signature]	EXT
[signature]	5/26/15 1700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: PBT Lab Notebook No.:

Prepared / Analyzed by: Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[signature]	5/27/15 14:00	[signature]	pre-GPC conc
[signature]	5/27/15 1500	[signature]	GPC
[signature]	5/29/15 10:00	[signature]	post-GPC conc
[signature]	5/29/15 14:00	[signature]	Florid
[signature]	5/29/15 16:30	R-72 [signature]	STOR
R-72-1st	06/04/15 1200	[signature]	Analysis

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
1	05/21/2015 08:20	F9L58	1514293001		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
2	05/21/2015 08:25	F9L59	1514293002		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
3	05/21/2015 08:45	F9L60	1514293003		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
4	05/21/2015 08:50	F9L61	1514293004		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
5	05/21/2015 08:55	F9L62	1514293005		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
6	05/21/2015 09:30	F9L63	1514293006		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
7	05/21/2015 09:35	F9L64	1514293007		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
8	05/21/2015 09:40	F9L65	1514293008		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
9	05/21/2015 09:45	F9L66	1514293009		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
10	05/21/2015 09:45	F9L66MS	1514293010	MS	Soil/Solid/Sediment	A	1			A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[signature]	5/22/2015 1818	R33-1 Cart	Storage
R-33-1 CART	5/26/15 1600	[signature]	EXT
[signature]	5/26/15 1700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: [illegible] Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[signature]	5/27/15 14:00	[signature]	pre-GPC Cont
[signature]	5/27/15 1500	[signature]	GPC
[signature]	5/29/15 10:00	[signature]	post-GPC Cont
[signature]	5/29/15 14:00	R-721 [signature]	STOR
R-72-1 NB	06/03/15 15:30	[signature]	analysis

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
11	05/21/2015 09:45	F9L66MSD	1514293011	MSD	Soil/Solid/Sediment	A	1			A	A
12	05/21/2015 10:05	F9L67	1514293012		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
13	05/21/2015 10:10	F9L68	1514293013		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
14	05/21/2015 10:15	F9L69	1514293014		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
15	05/21/2015 11:05	F9L70	1514293015		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
16	05/21/2015 11:10	F9L71	1514293016		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
17	05/21/2015 11:15	F9L72	1514293017		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
18	05/21/2015 11:20	F9L73	1514293018		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
19	05/21/2015 14:00	F9L75	1514293019		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
20	05/21/2015 14:10	F9L77	1514293020		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[signature]	5/22/2015 1488	R33.1 Cart	Storag
R-33.1 CART	5/26/15 1600	[signature]	Ext
[signature]	5/26/15 1700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: BVO Lab Notebook No.:

Prepared / Analyzed by: Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[signature]	5/27/15 14:00	[signature]	pre-GPC conc
[signature]	5/27/15 1500	[signature]	GPC
[signature]	5/29/15 10:00	[signature]	post-GPC conc
[signature]	5/29/15 14:00	R-72-1 [signature]	STOR
R-72-1 NB	06/03/15 15:30	[signature]	analysis

Requested Analysis

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
21	05/21/2015 14:30	F9L78	1514293021		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
22	05/21/2015 14:35	F9L79	1514293022		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
23											
24											
25											
26											
27											
28											
29											
30											

Requested Analysis

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[signature]	5/22/2015/1808	R33-1 cart	Storage
R.33-1 CART	5/26/15 1600	[signature]	EXT
[signature]	5/26/15 1700	R 319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: Aro Lab Notebook No.:

Prepared / Analyzed by: Date / Time:

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[signature]	5/27/15 19:00	[signature]	pre-GPC cont
[signature]	5/27/15 1500	[signature]	GPC
[signature]	5/29/15 10:00	[signature]	post-GPC cont
[signature]	5/29/15 14:00	R-721 GPC	STOR
R-720-1 NB	06/03/15 15:30	[signature]	analysis

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 4ozCGWM	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	Solids/Moisture Determination
1	05/21/2015 08:20	F9L58	1514293001		Soil/Solid/Sediment	H	1	H
2	05/21/2015 08:25	F9L59	1514293002		Soil/Solid/Sediment	H	1	H
3	05/21/2015 08:45	F9L60	1514293003		Soil/Solid/Sediment	H	1	H
4	05/21/2015 08:50	F9L61	1514293004		Soil/Solid/Sediment	H	1	H
5	05/21/2015 08:55	F9L62	1514293005		Soil/Solid/Sediment	H	1	H
6	05/21/2015 09:30	F9L63	1514293006		Soil/Solid/Sediment	H	1	H
7	05/21/2015 09:35	F9L64	1514293007		Soil/Solid/Sediment	H	1	H
8	05/21/2015 09:40	F9L65	1514293008		Soil/Solid/Sediment	H	1	H
9	05/21/2015 09:45	F9L66	1514293009		Soil/Solid/Sediment	H	1	H
10	05/21/2015 10:05	F9L67	1514293012		Soil/Solid/Sediment	H	1	H

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[illegible]	5/22/2015 1505	13D	Storage
R-33-1 13DIJO	05/26/15 7:30	[illegible]	Solid

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 4ozCGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	Requested Analysis: Solids/Moisture Determination
11	05/21/2015 10:10	F9L68	1514293013		Soil/Solid/Sediment	H	1	H
12	05/21/2015 10:15	F9L69	1514293014		Soil/Solid/Sediment	H	1	H
13	05/21/2015 11:05	F9L70	1514293015		Soil/Solid/Sediment	H	1	H
14	05/21/2015 11:10	F9L71	1514293016		Soil/Solid/Sediment	H	1	H
15	05/21/2015 11:15	F9L72	1514293017		Soil/Solid/Sediment	H	1	H
16	05/21/2015 11:20	F9L73	1514293018		Soil/Solid/Sediment	H	1	H
17	05/21/2015 14:00	F9L75	1514293019		Soil/Solid/Sediment	H	1	H
18	05/21/2015 14:10	F9L77	1514293020		Soil/Solid/Sediment	H	1	H
19	05/21/2015 14:30	F9L78	1514293021		Soil/Solid/Sediment	H	1	H
20	05/21/2015 14:35	F9L79	1514293022		Soil/Solid/Sediment	H	1	H

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[signature]	5/22/15 1805	BD	Strong
R-33-113D EJO	05/26/15 7:30	[signature]	solid

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 5gSoil
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	Requested Analysis: SOM01.2 VOA, Soil
1	05/21/2015 08:20	F9L58	1514293001		Soil/Solid/Sediment	E,F,G	3	E
2	05/21/2015 08:25	F9L59	1514293002		Soil/Solid/Sediment	E,F,G	3	E
3	05/21/2015 08:45	F9L60	1514293003		Soil/Solid/Sediment	E,F,G	3	E
4	05/21/2015 08:50	F9L61	1514293004		Soil/Solid/Sediment	E,F,G	3	E
5	05/21/2015 08:55	F9L62	1514293005		Soil/Solid/Sediment	E,F,G	3	E
6	05/21/2015 09:30	F9L63	1514293006		Soil/Solid/Sediment	E,F,G	3	E
7	05/21/2015 09:35	F9L64	1514293007		Soil/Solid/Sediment	E,F,G	3	E
8	05/21/2015 09:40	F9L65	1514293008		Soil/Solid/Sediment	E,F,G	3	E
9	05/21/2015 09:45	F9L66	1514293009		Soil/Solid/Sediment	E,F,G	3	E
10	05/21/2015 10:05	F9L67	1514293012		Soil/Solid/Sediment	E,F,G	3	E

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
Storage 3F cm	5/22/2015 1085 5-22-15 2538	Storage 3	Storage/Storage F-6 cm

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF	Requested Analysis
Client: U. S. EPA Region 6		Account: 8201	Type: 5gSoil	
Comments:			Preservatives: COOL	

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM012 VOA, Soil
11	05/21/2015 10:10	F9L68	1514293013		Soil/Solid/Sediment	E,F,G	3	E
12	05/21/2015 10:15	F9L69	1514293014		Soil/Solid/Sediment	E,F,G	3	E
13	05/21/2015 11:05	F9L70	1514293015		Soil/Solid/Sediment	E,F,G	3	E
14	05/21/2015 11:10	F9L71	1514293016		Soil/Solid/Sediment	E,F,G	3	E
15	05/21/2015 11:15	F9L72	1514293017		Soil/Solid/Sediment	E,F,G	3	E
16	05/21/2015 11:20	F9L73	1514293018		Soil/Solid/Sediment	E,F,G	3	E
17	05/21/2015 14:00	F9L75	1514293019		Soil/Solid/Sediment	E,F,G	3	E
18	05/21/2015 14:10	F9L77	1514293020		Soil/Solid/Sediment	E,F,G	3	E
19	05/21/2015 14:30	F9L78	1514293021		Soil/Solid/Sediment	E,F,G	3	E
20	05/21/2015 14:35	F9L79	1514293022		Soil/Solid/Sediment	E,F,G	3	E

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
Storage 3F cm	5-22-15 2030	Storage 3	Storage Login Storage F-6/0.4C cm

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroctors, Soil	Requested Analysis
1	05/21/2015 08:20	F9L58	1514293001		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
2	05/21/2015 08:25	F9L59	1514293002		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
3	05/21/2015 08:45	F9L60	1514293003		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
4	05/21/2015 08:50	F9L61	1514293004		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
5	05/21/2015 08:55	F9L62	1514293005		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
6	05/21/2015 09:30	F9L63	1514293006		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
7	05/21/2015 09:35	F9L64	1514293007		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
8	05/21/2015 09:40	F9L65	1514293008		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
9	05/21/2015 09:45	F9L66	1514293009		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A	
10	05/21/2015 09:45	F9L66MS	1514293010	MS	Soil/Solid/Sediment	A	1			A	A	

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
Meredith Edwards	5/22/2015 1818	R33-1 Cart	Storage
R-33-1 CART	5/26/15 1600	Gyle Edwards	EXT
Gyle Edwards	5/26/15 1700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
11	05/21/2015 09:45	F9L66MSD	1514293011	MSD	Soil/Solid/Sediment	A	1			A	A
12	05/21/2015 10:05	F9L67	1514293012		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
13	05/21/2015 10:10	F9L68	1514293013		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
14	05/21/2015 10:15	F9L69	1514293014		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
15	05/21/2015 11:05	F9L70	1514293015		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
16	05/21/2015 11:10	F9L71	1514293016		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
17	05/21/2015 11:15	F9L72	1514293017		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
18	05/21/2015 11:20	F9L73	1514293018		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
19	05/21/2015 14:00	F9L75	1514293019		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
20	05/21/2015 14:10	F9L77	1514293020		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[signature]	5/22/2015 1448	R33.1 Cart	Storage
R-33.1 CART	5/26/15 1600	[signature]	Ext
[signature]	5/26/15 1700	R-319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

ALS Environmental

CHAIN-OF-CUSTODY

Project / Job / Task: EPW11037	Split:	Workorder ID: 1514293	Level: EPACLP_PDF
Client: U. S. EPA Region 6		Account: 8201	Type: 8ozGWM
Comments:			Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers ID(s)	Containers Count	Requested Analysis: SOM01.2 Semivoa, Soil	SOM01.2 Semivoa SIM, Soil	SOM01.2 Pesticides, Soil	SOM01.2 Aroclors, Soil
21	05/21/2015 14:30	F9L78	1514293021		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
22	05/21/2015 14:35	F9L79	1514293022		Soil/Solid/Sediment	A,B,C,D	4	A	A	A	A
23											
24											
25											
26											
27											
28											
29											
30											

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	05/22/2015 08:38	ALS Sample Receiving	Sample Login
[signature] R.33-1 CART	5/22/2015 1808	R33-1 CART	STORAGE
[signature]	5/26/15 1600	[signature]	EXT.
	5/26/15 1700	R319-1	STORAGE

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: _____ Lab Notebook No.: _____

Prepared / Analyzed by: _____ Date / Time: _____

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X001.D Vial: 31
Acq Time : 05/23/2015 00:46 Operator: CQC
Sample : F9L58 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 01:05:10 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2694745	50.0000 ug/Kg	102.92
42) chlorobenzene-d5	10.76	117	1998637	50.0000 ug/Kg	97.15
61) 1,4-dichlorobenzene-d4	13.16	152	1114329	50.0000 ug/Kg	103.04
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.97	65	718228	50.1264 ug/Kg	100.25%
43) toluene-d8	9.13	98	2629663	53.9295 ug/Kg	107.86%
63) 4-bromofluorobenzene	12.01	95	960964	52.2415 ug/Kg	104.48%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.82	43	7736	0.8728 ug/Kg#	88
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	7.33	62	40049	2.3913 ug/Kg#	79
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	24436	4.5512 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

01573

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X001.D Vial: 31
Acq Time : 05/23/2015 00:46 Operator: CQC
Sample : F9L58 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 01:05:10 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	0.00	93		Not Detected	
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.16	110	3426	0.7718 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

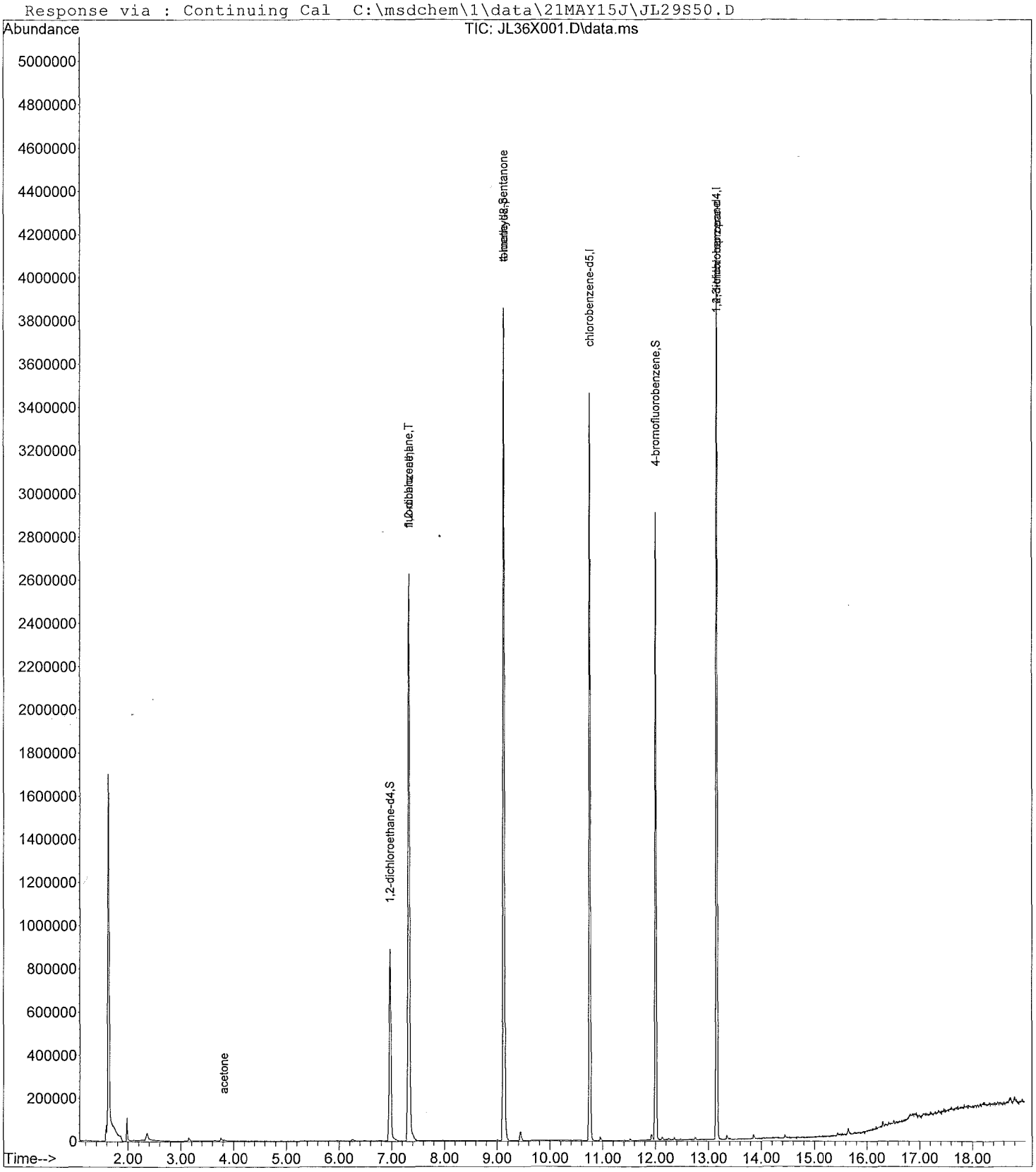
160574

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X001.D Vial: 31
Acq Time : 05/23/2015 00:46 Operator: CQC
Sample : F9L58 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 01:05:10 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X002.D Vial: 32
Acq Time : 05/23/2015 01:10 Operator: CQC
Sample : F9L59 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 01:30:02 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2739928	50.0000 ug/Kg	104.64
42) chlorobenzene-d5	10.76	117	2169432	50.0000 ug/Kg	105.45
61) 1,4-dichlorobenzene-d4	13.16	152	1105115	50.0000 ug/Kg	102.19
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	744508	51.1037 ug/Kg	102.21%
43) toluene-d8	9.13	98	2658496	50.2285 ug/Kg	100.46%
63) 4-bromofluorobenzene	12.01	95	890382	48.8080 ug/Kg	97.62%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.82	43	6008	0.6667 ug/Kg#	64
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	7.33	62	40486	2.3776 ug/Kg#	80
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	25058	4.5901 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

01575

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X002.D Vial: 32
Acq Time : 05/23/2015 01:10 Operator: CQC
Sample : F9L59 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 01:30:02 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	11.52	93	13152	2.0236 ug/Kg#	1
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.16	110	2685	0.6099 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

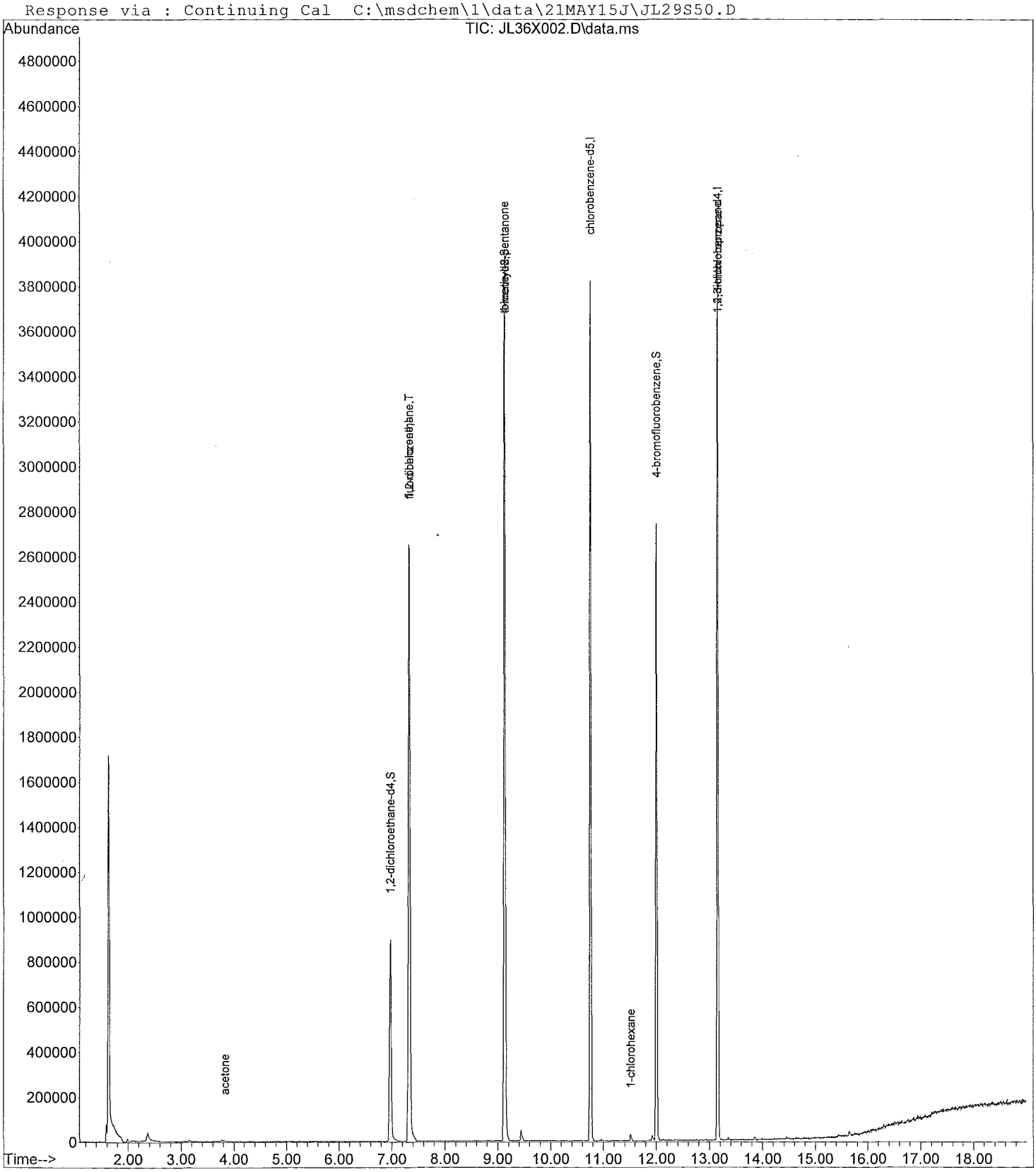
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X002.D Vial: 32
Acq Time : 05/23/2015 01:10 Operator: CQC
Sample : F9L59 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 01:30:02 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X003.D Vial: 33
Acq Time : 05/23/2015 01:35 Operator: CQC
Sample : F9L60 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 01:54:56 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2801435	50.0000 ug/Kg	106.99
42) chlorobenzene-d5	10.76	117	2234574	50.0000 ug/Kg	108.62
61) 1,4-dichlorobenzene-d4	13.16	152	1116017	50.0000 ug/Kg	103.19
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	753593	50.5916 ug/Kg	101.18%
43) toluene-d8	9.13	98	2706191	49.6391 ug/Kg	99.28%
63) 4-bromofluorobenzene	12.01	95	985077	53.4714 ug/Kg	106.94%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.84	43	5994	0.6505 ug/Kg#	79
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	0.00	62		Not Detected	
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	25345	4.5408 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X003.D Vial: 33
Acq Time : 05/23/2015 01:35 Operator: CQC
Sample : F9L60 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 01:54:56 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	0.00	93		Not Detected	
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.16	110	3480	0.7828 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

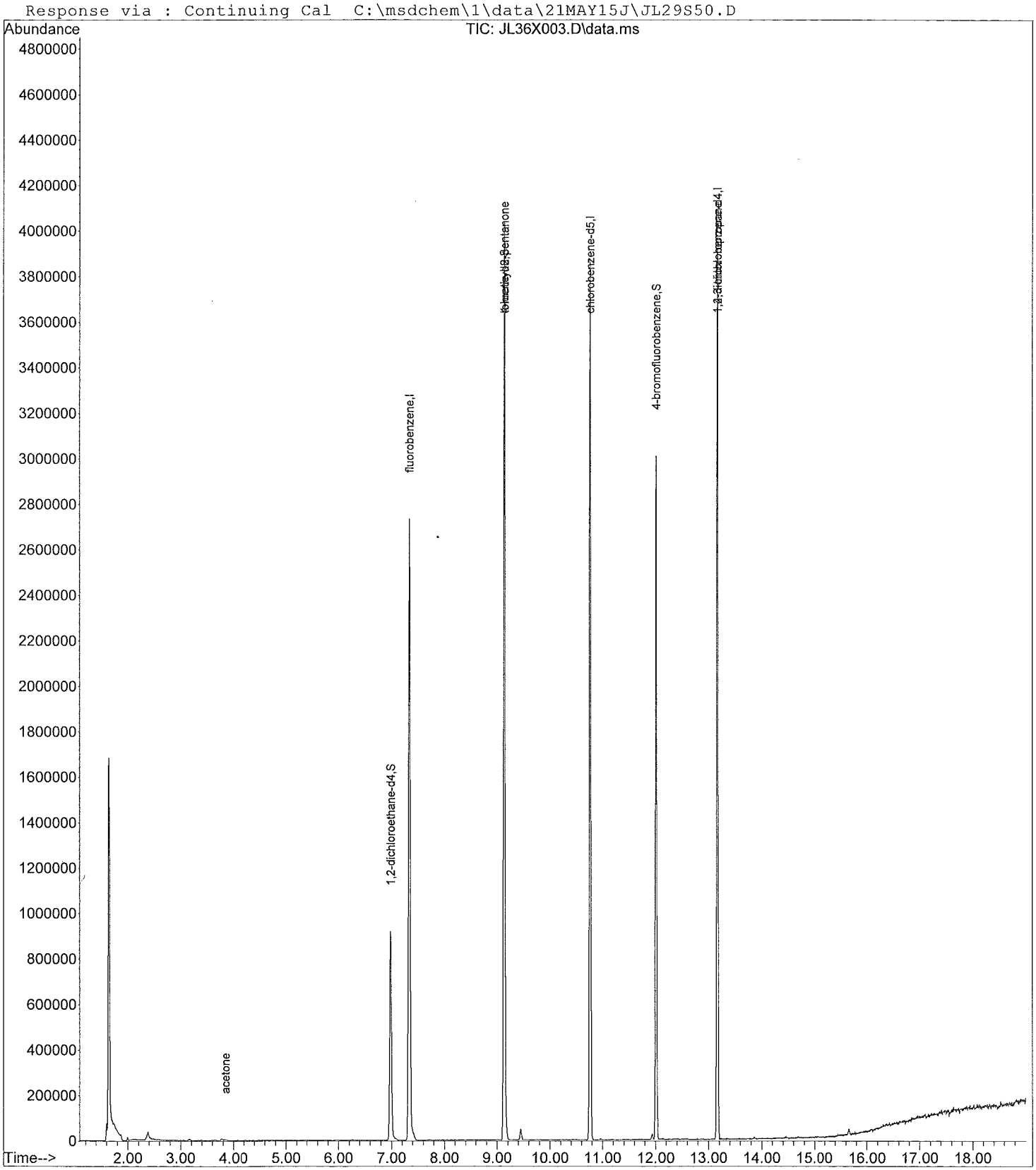
01580

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X003.D Vial: 33
Acq Time : 05/23/2015 01:35 Operator: CQC
Sample : F9L60 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 01:54:56 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X004.D Vial: 34
Acq Time : 05/23/2015 02:00 Operator: CQC
Sample : F9L61 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 02:19:45 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2600113	50.0000 ug/Kg	99.30
42) chlorobenzene-d5	10.76	117	2089754	50.0000 ug/Kg	101.58
61) 1,4-dichlorobenzene-d4	13.16	152	1087448	50.0000 ug/Kg	100.55
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	710210	51.3708 ug/Kg	102.74%
43) toluene-d8	9.13	98	2532055	49.6636 ug/Kg	99.33%
63) 4-bromofluorobenzene	12.01	95	913304	50.8779 ug/Kg	101.76%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.84	43	6193	0.7242 ug/Kg#	81
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	7.33	62	39050	2.4166 ug/Kg#	74
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	23047	4.4488 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

01582

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X004.D Vial: 34
Acq Time : 05/23/2015 02:00 Operator: CQC
Sample : F9L61 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 02:19:45 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	0.00	93		Not Detected	
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.16	110	3309	0.7639 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

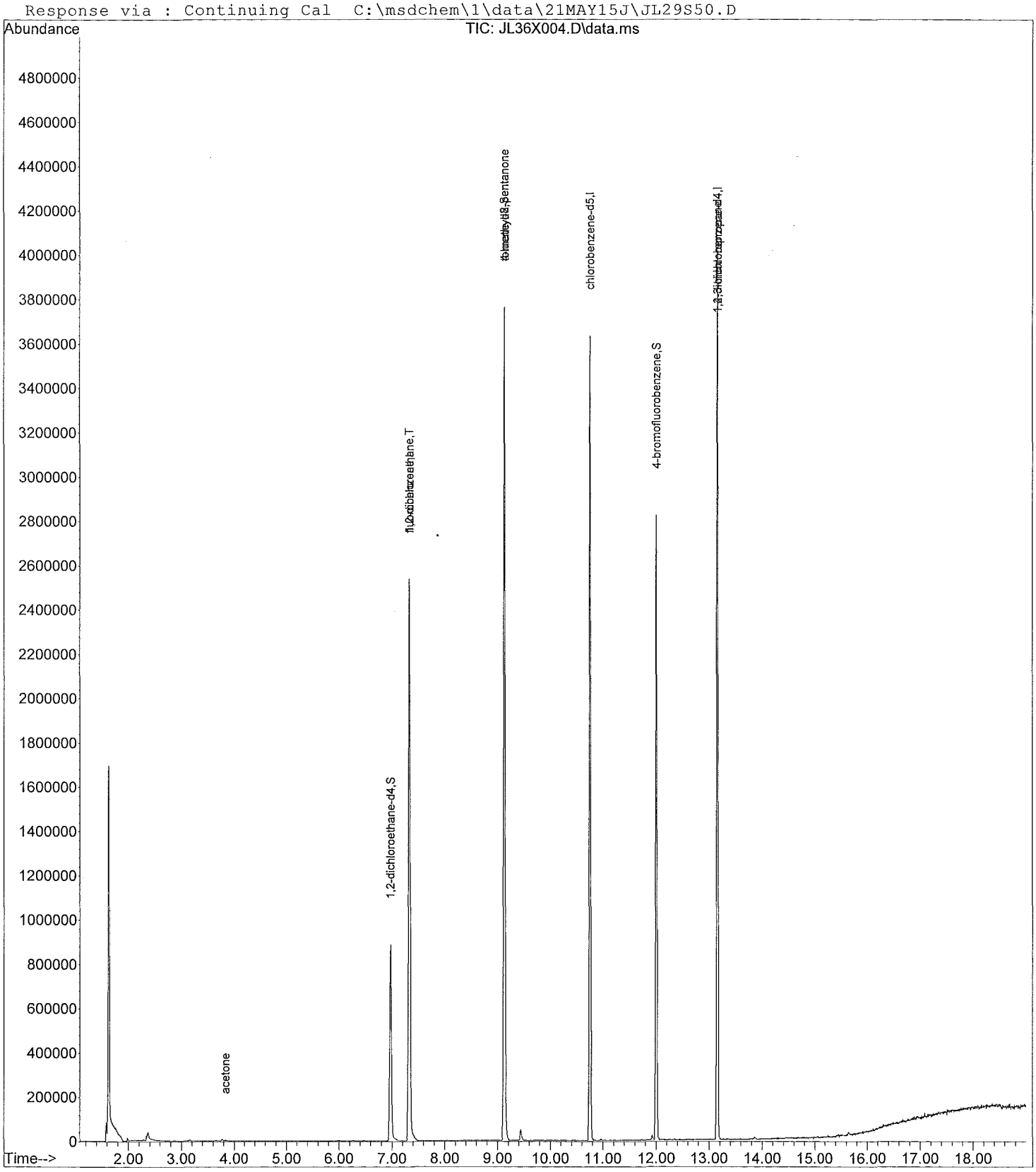
01585

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X004.D Vial: 34
Acq Time : 05/23/2015 02:00 Operator: CQC
Sample : F9L61 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 02:19:45 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X005.D Vial: 35
Acq Time : 05/23/2015 02:25 Operator: CQC
Sample : F9L62 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 02:44:36 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2562392	50.0000 ug/Kg	97.86
42) chlorobenzene-d5	10.76	117	2038430	50.0000 ug/Kg	99.09
61) 1,4-dichlorobenzene-d4	13.16	152	1023176	50.0000 ug/Kg	94.61
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	700217	51.3936 ug/Kg	102.79%
43) toluene-d8	9.13	98	2492957	50.1278 ug/Kg	100.26%
63) 4-bromofluorobenzene	12.01	95	795039	47.0717 ug/Kg	94.14%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.82	43	6185	0.7339 ug/Kg#	64
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	7.33	62	38203	2.3989 ug/Kg#	79
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	23584	4.6194 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X005.D Vial: 35
Acq Time : 05/23/2015 02:25 Operator: CQC
Sample : F9L62 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 02:44:36 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) 2-hexanone	0.00	43		Not Detected	
51) dibromochloromethane	0.00	129		Not Detected	
52) 1,2-dibromoethane	0.00	107		Not Detected	
53) chlorobenzene	0.00	112		Not Detected	
54) 1-chlorohexane	0.00	93		Not Detected	
55) 1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56) ethylbenzene	0.00	106		Not Detected	
57) m,p-xylene	0.00	106		Not Detected	
58) o-xylene	0.00	106		Not Detected	
59) styrene	0.00	104		Not Detected	
60) isopropylbenzene	0.00	105		Not Detected	
62) bromoform	0.00	173		Not Detected	
64) bromobenzene	0.00	156		Not Detected	
65) 1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66) 1,2,3-trichloropropane	13.16	110	2949	0.7235 ug/Kg#	1
67) trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68) pentachloroethane	0.00	167		Not Detected	
69) n-propylbenzene	0.00	91		Not Detected	
70) 2-chlorotoluene	0.00	126		Not Detected	
71) 4-chlorotoluene	0.00	126		Not Detected	
72) 1,3,5-trimethylbenzene	0.00	105		Not Detected	
73) tert-butylbenzene	0.00	119		Not Detected	
74) 1,2,4-trimethylbenzene	0.00	105		Not Detected	
75) sec-butylbenzene	0.00	105		Not Detected	
76) p-isopropyltoluene	0.00	119		Not Detected	
77) 1,3-dichlorobenzene	0.00	146		Not Detected	
78) 1,4-dichlorobenzene	0.00	146		Not Detected	
79) 1,2-dichlorobenzene	0.00	146		Not Detected	
80) n-butylbenzene	0.00	91		Not Detected	
81) 1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82) 1,2,4-trichlorobenzene	0.00	180		Not Detected	
83) hexachlorobutadiene	0.00	225		Not Detected	
84) naphthalene	0.00	128		Not Detected	
85) 1,2,3-trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

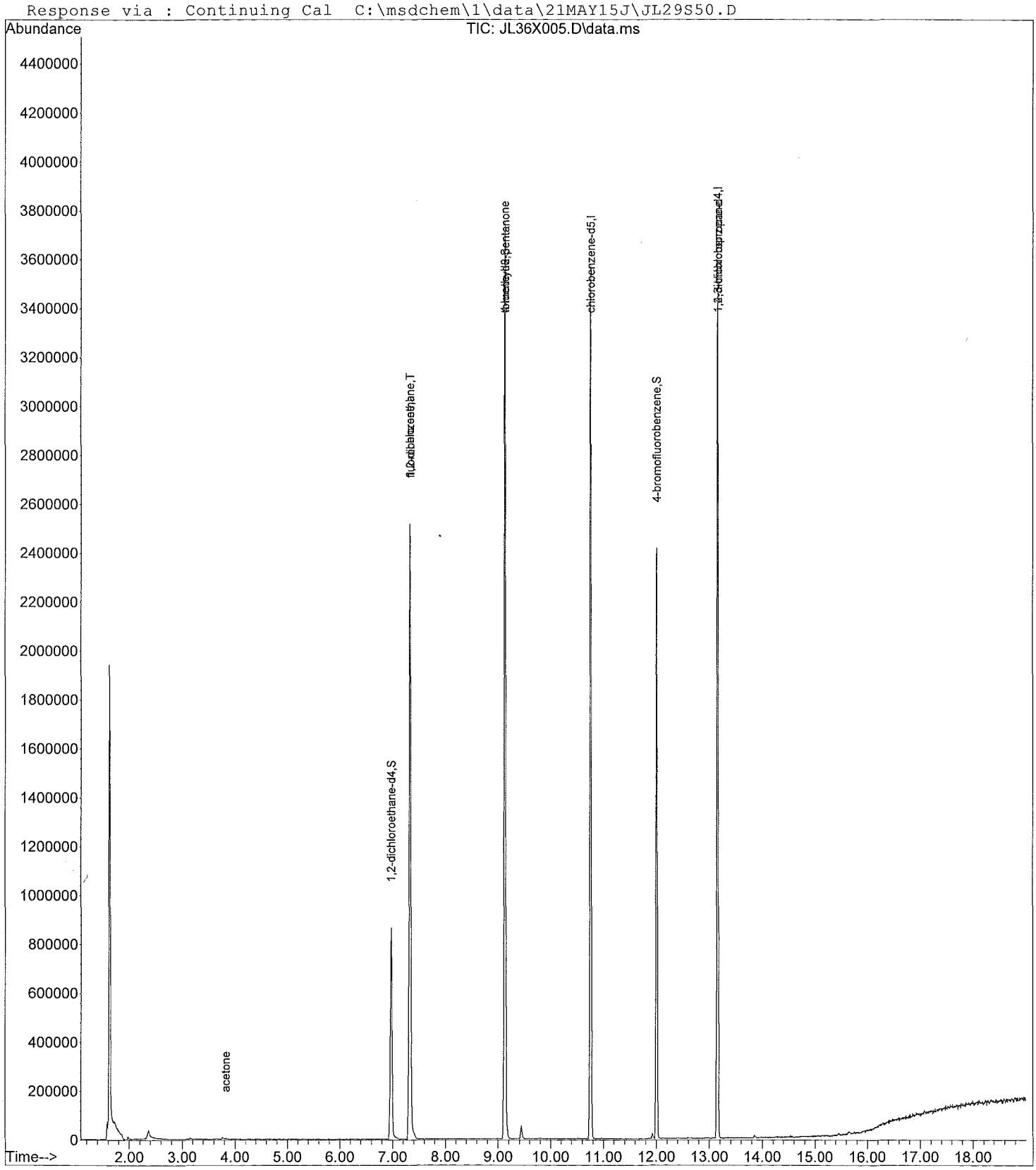
: 81586

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X005.D Vial: 35
Acq Time : 05/23/2015 02:25 Operator: CQC
Sample : F9L62 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 02:44:36 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X006.D Vial: 36
Acq Time : 05/23/2015 02:50 Operator: CQC
Sample : F9L63 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 03:09:26 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2501885	50.0000 ug/Kg	95.55
42) chlorobenzene-d5	10.76	117	2012181	50.0000 ug/Kg	97.81
61) 1,4-dichlorobenzene-d4	13.16	152	1052066	50.0000 ug/Kg	97.28
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	689874	51.8590 ug/Kg	103.72%
43) toluene-d8	9.13	98	2445779	49.8207 ug/Kg	99.64%
63) 4-bromofluorobenzene	12.01	95	882316	50.8046 ug/Kg	101.61%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.83	43	5917	0.7191 ug/Kg#	81
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	7.33	62	36613	2.3547 ug/Kg#	77
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	22836	4.5811 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

61586

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X006.D Vial: 36
Acq Time : 05/23/2015 02:50 Operator: CQC
Sample : F9L63 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 03:09:26 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	0.00	93		Not Detected	
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.16	110	2877	0.6865 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

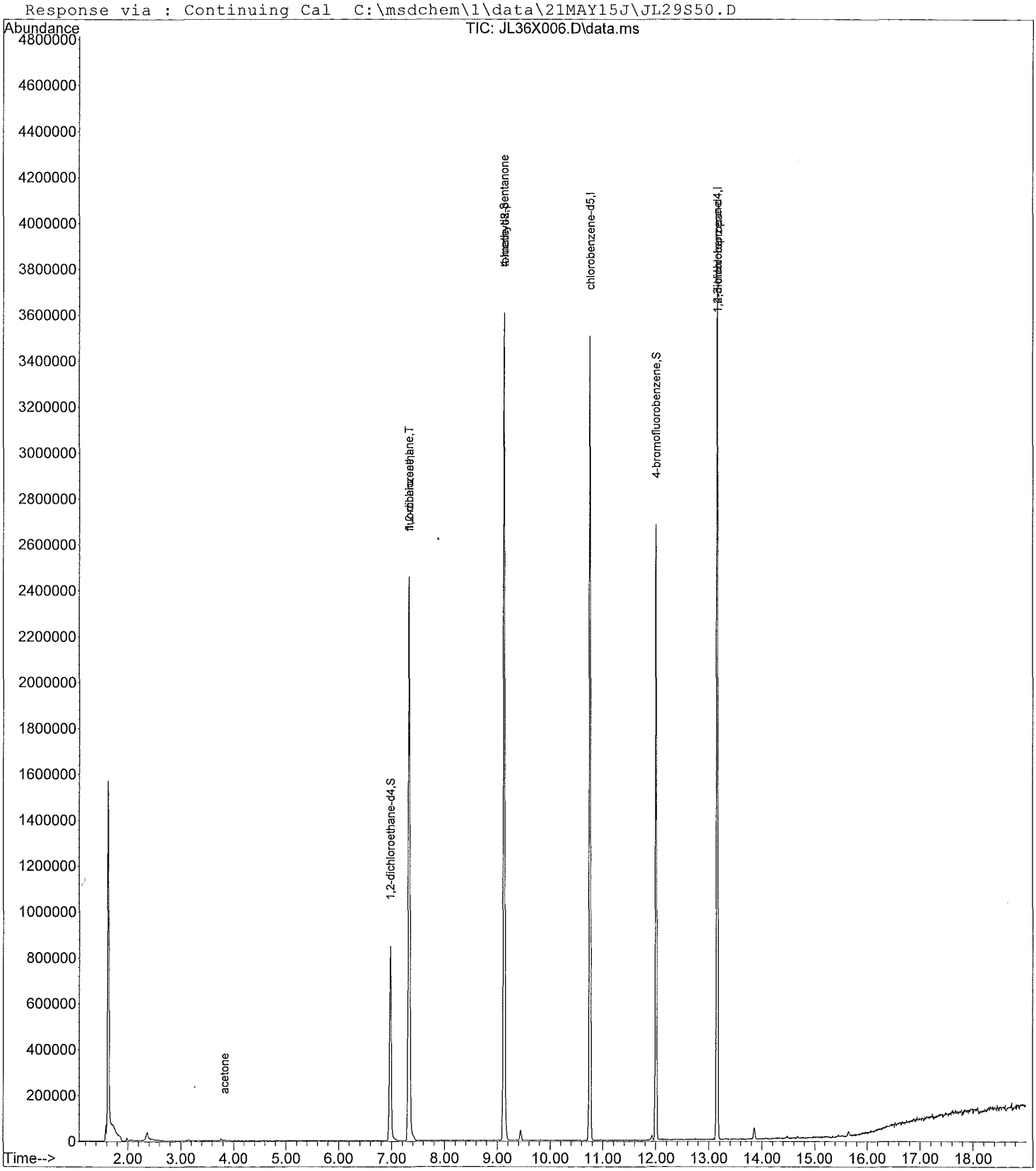
01569

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X006.D Vial: 36
Acq Time : 05/23/2015 02:50 Operator: CQC
Sample : F9L63 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 03:09:26 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X007.D Vial: 37
Acq Time : 05/23/2015 03:15 Operator: CQC
Sample : F9L64 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 03:34:18 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2506025	50.0000 ug/Kg	95.71
42) chlorobenzene-d5	10.76	117	2012245	50.0000 ug/Kg	97.81
61) 1,4-dichlorobenzene-d4	13.16	152	1014337	50.0000 ug/Kg	93.79
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	686524	51.5219 ug/Kg	103.04%
43) toluene-d8	9.13	98	2434747	49.5944 ug/Kg	99.19%
63) 4-bromofluorobenzene	12.01	95	781441	46.6698 ug/Kg	93.34%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.83	43	6347	0.7700 ug/Kg#	49
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	0.00	62		Not Detected	
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	23183	4.6430 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X007.D Vial: 37
Acq Time : 05/23/2015 03:15 Operator: CQC
Sample : F9L64 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 03:34:18 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	0.00	93		Not Detected	
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.16	110	2996	0.7415 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

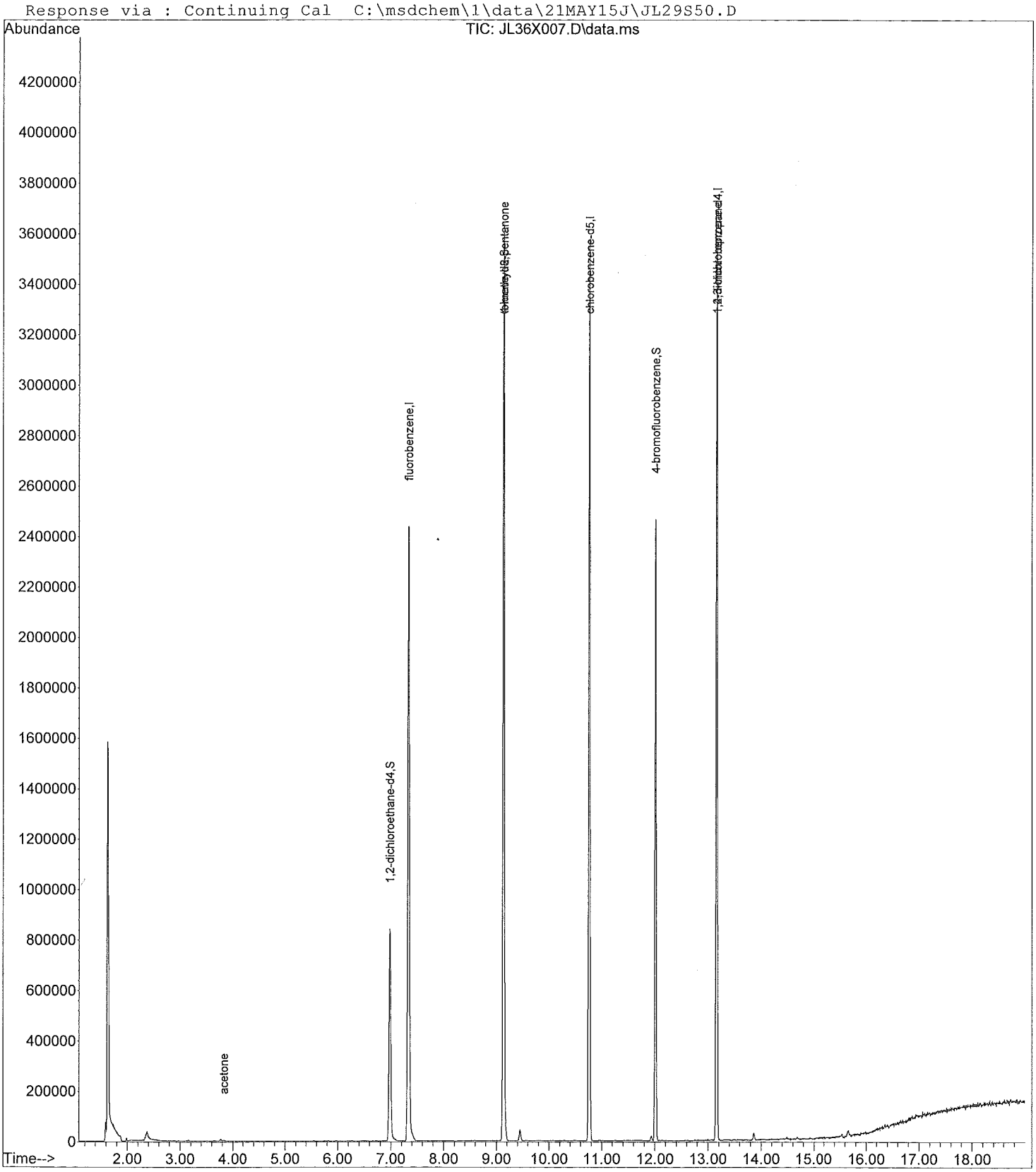
01552

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X007.D Vial: 37
Acq Time : 05/23/2015 03:15 Operator: CQC
Sample : F9L64 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 03:34:18 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X008.D Vial: 38
Acq Time : 05/23/2015 03:40 Operator: CQC
Sample : F9L65 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 03:59:11 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2483204	50.0000 ug/Kg	94.84
42) chlorobenzene-d5	10.76	117	1845516	50.0000 ug/Kg	89.71
61) 1,4-dichlorobenzene-d4	13.16	152	970073	50.0000 ug/Kg	89.70
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	679853	51.4902 ug/Kg	102.98%
43) toluene-d8	9.13	98	2416189	53.6628 ug/Kg	107.33%
63) 4-bromofluorobenzene	12.01	95	773704	48.3162 ug/Kg	96.63%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	0.00	43		Not Detected	
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	0.00	62		Not Detected	
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	22636	4.5751 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X008.D Vial: 38
Acq Time : 05/23/2015 03:40 Operator: CQC
Sample : F9L65 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 03:59:11 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	0.00	93		Not Detected	
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.17	110	2584	0.6687 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

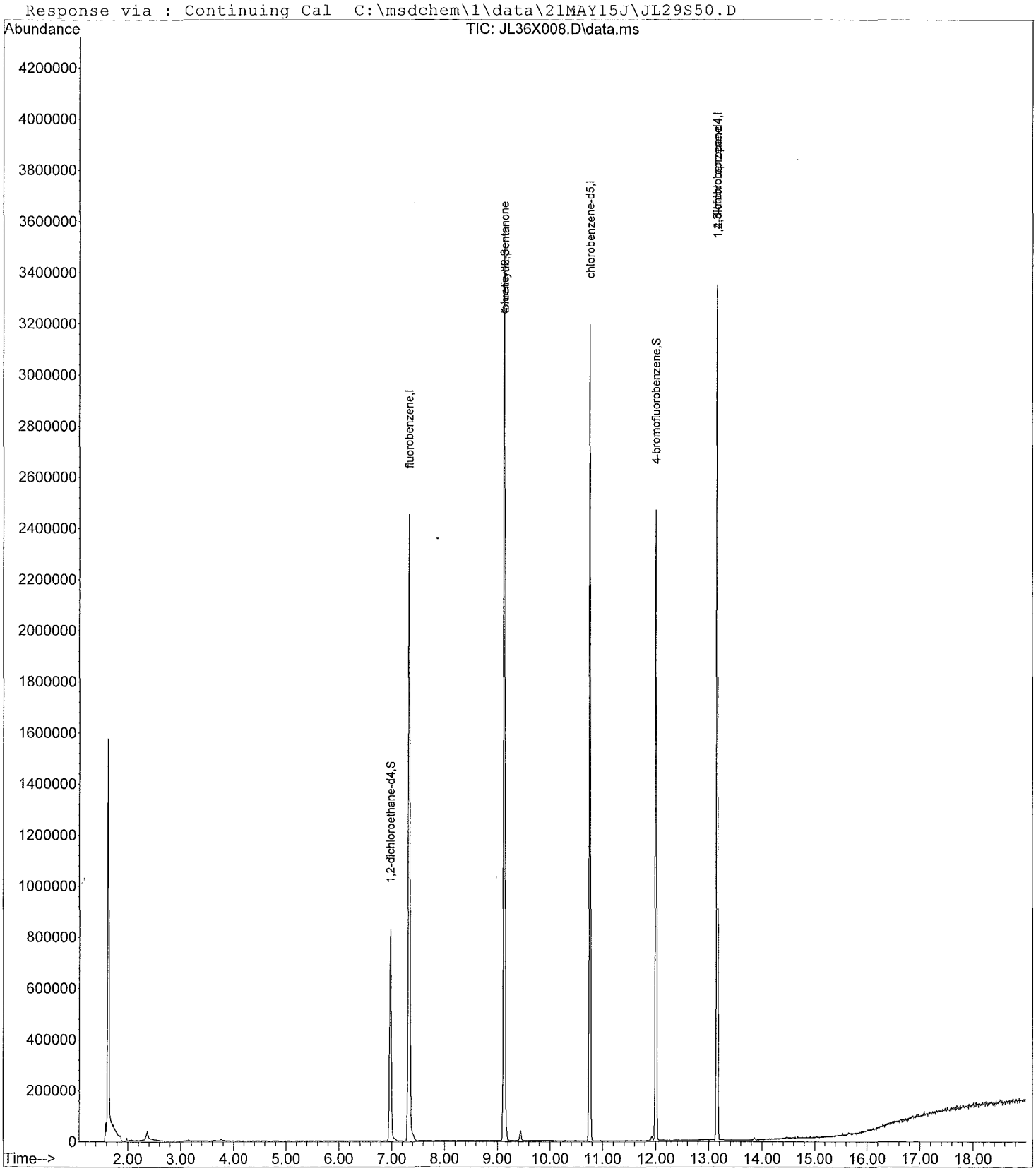
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X008.D Vial: 38
Acq Time : 05/23/2015 03:40 Operator: CQC
Sample : F9L65 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 03:59:11 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X009.D Vial: 39
Acq Time : 05/23/2015 04:05 Operator: CQC
Sample : F9L66 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 04:24:08 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2463376	50.0000 ug/Kg	94.08
42) chlorobenzene-d5	10.76	117	2010947	50.0000 ug/Kg	97.75
61) 1,4-dichlorobenzene-d4	13.16	152	1005101	50.0000 ug/Kg	92.94
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	687358	52.4776 ug/Kg	104.96%
43) toluene-d8	9.13	98	2429678	49.5231 ug/Kg	99.05%
63) 4-bromofluorobenzene	12.01	95	753054	45.3877 ug/Kg	90.78%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.83	43	7371	0.9098 ug/Kg#	65
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	7.33	62	37464	2.4471 ug/Kg#	79
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	23979	4.8856 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

01357

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X009.D Vial: 39
Acq Time : 05/23/2015 04:05 Operator: CQC
Sample : F9L66 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 04:24:08 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	0.00	93		Not Detected	
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.16	110	2854	0.7128 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

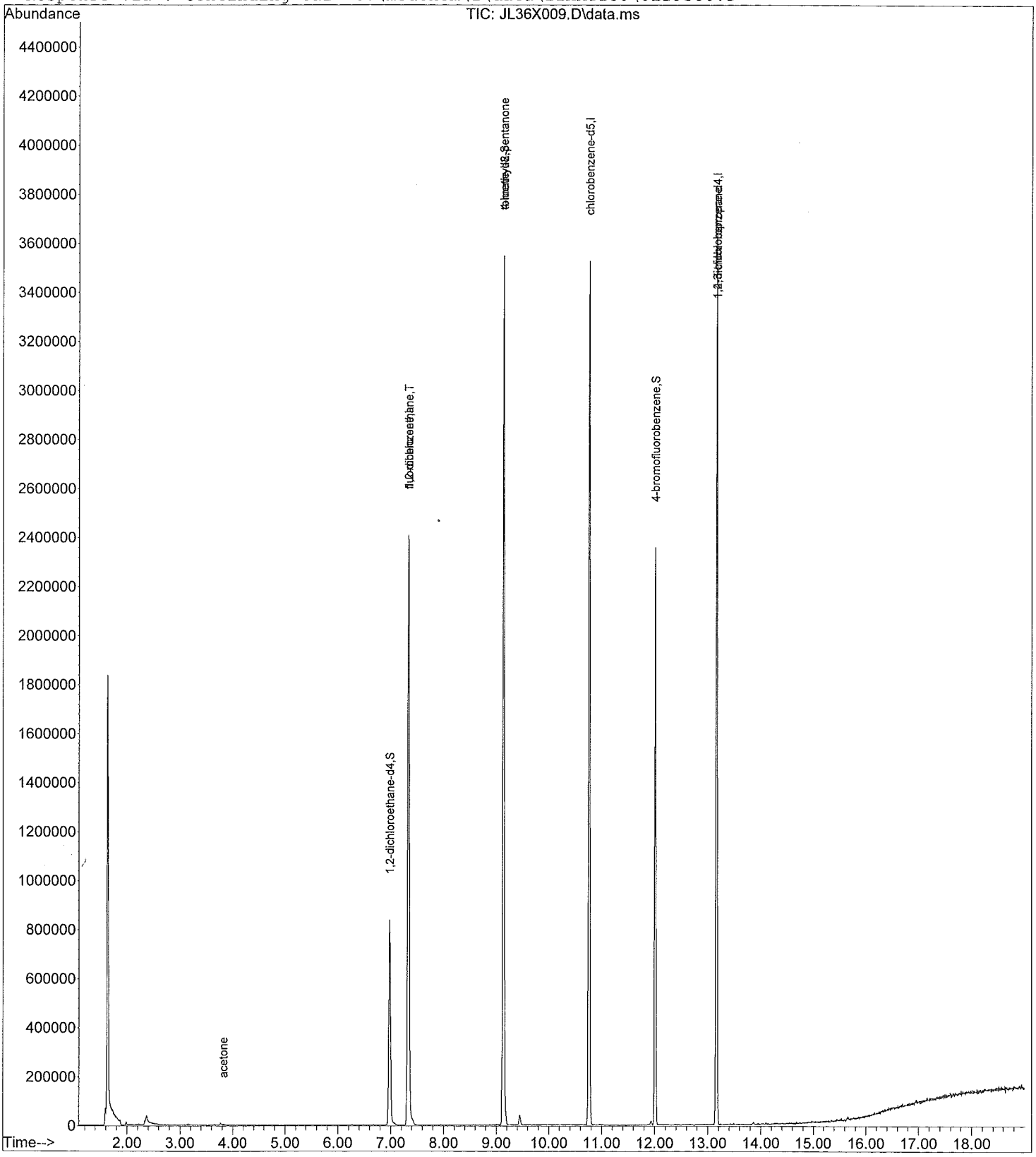
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X009.D Vial: 39
Acq Time : 05/23/2015 04:05 Operator: CQC
Sample : F9L66 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 04:24:08 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X012.D Vial: 40
Acq Time : 05/23/2015 04:29 Operator: CQC
Sample : F9L67 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 04:49:01 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2400487	50.0000 ug/Kg	91.68
42) chlorobenzene-d5	10.76	117	1927011	50.0000 ug/Kg	93.67
61) 1,4-dichlorobenzene-d4	13.16	152	880097	50.0000 ug/Kg	81.38
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	654712	51.2947 ug/Kg	102.59%
43) toluene-d8	9.13	98	2333425	49.6329 ug/Kg	99.27%
63) 4-bromofluorobenzene	12.01	95	748051	51.4900 ug/Kg	102.98%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.83	43	5583	0.7071 ug/Kg#	70
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	7.33	62	36354	2.4368 ug/Kg#	78
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	22786	4.7642 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X012.D Vial: 40
Acq Time : 05/23/2015 04:29 Operator: CQC
Sample : F9L67 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 04:49:01 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	0.00	93		Not Detected	
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.16	110	2336	0.6663 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

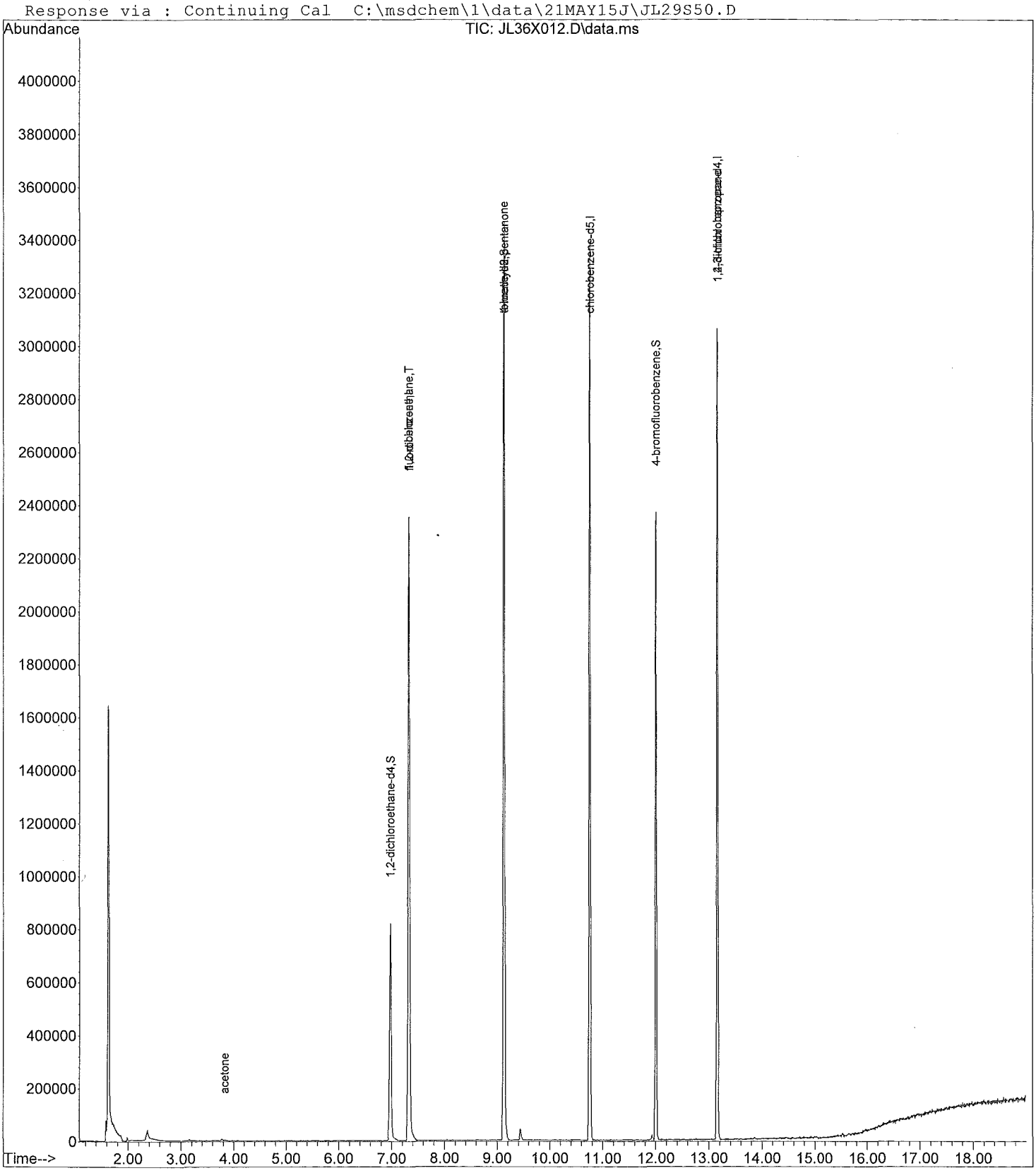
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X012.D Vial: 40
Acq Time : 05/23/2015 04:29 Operator: CQC
Sample : F9L67 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 04:49:01 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X013.D Vial: 41
Acq Time : 05/23/2015 04:54 Operator: CQC
Sample : F9L68 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 05:13:57 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2407366	50.0000 ug/Kg	91.94
42) chlorobenzene-d5	10.76	117	1745962	50.0000 ug/Kg	84.87
61) 1,4-dichlorobenzene-d4	13.16	152	982181	50.0000 ug/Kg	90.82
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	669346	52.2914 ug/Kg	104.58%
43) toluene-d8	9.13	98	2144780	50.3510 ug/Kg	100.70%
63) 4-bromofluorobenzene	12.01	95	766482	47.2751 ug/Kg	94.55%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.83	43	6778	0.8560 ug/Kg#	66
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	0.00	62		Not Detected	
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	19521	4.0698 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X013.D Vial: 41
Acq Time : 05/23/2015 04:54 Operator: CQC
Sample : F9L68 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 05:13:57 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	0.00	93		Not Detected	
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.16	110	2509	0.6413 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

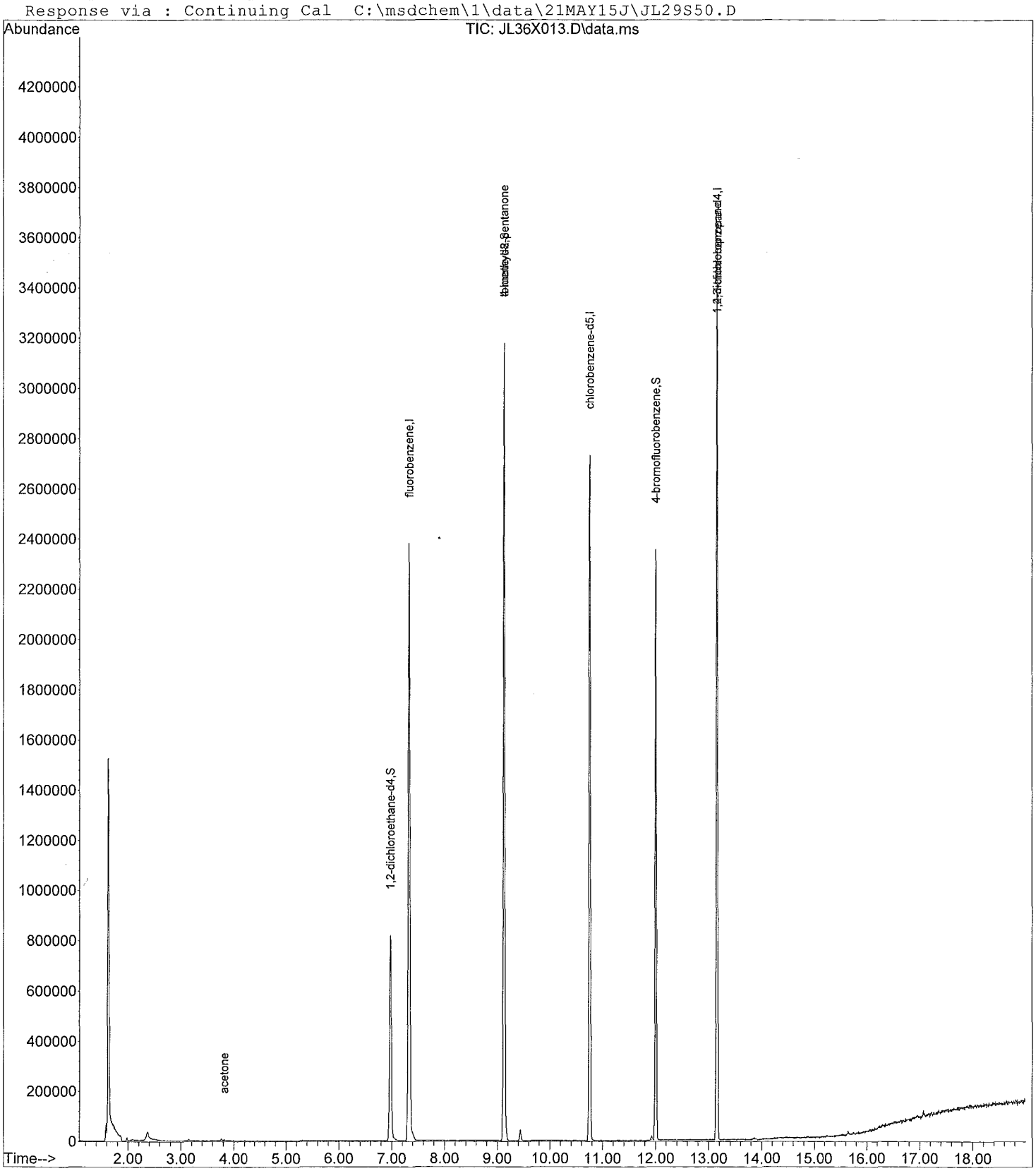
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X013.D Vial: 41
Acq Time : 05/23/2015 04:54 Operator: CQC
Sample : F9L68 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 05:13:57 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X014.D Vial: 42
Acq Time : 05/23/2015 05:19 Operator: CQC
Sample : F9L69 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 05:38:53 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2375934	50.0000 ug/Kg	90.74
42) chlorobenzene-d5	10.76	117	1934010	50.0000 ug/Kg	94.01
61) 1,4-dichlorobenzene-d4	13.16	152	1002703	50.0000 ug/Kg	92.72
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	649309	51.3971 ug/Kg	102.79%
43) toluene-d8	9.13	98	2320831	49.1864 ug/Kg	98.37%
63) 4-bromofluorobenzene	12.01	95	835496	50.4771 ug/Kg	100.95%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.83	43	6755	0.8644 ug/Kg#	75
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	7.33	62	36501	2.4719 ug/Kg#	77
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	21804	4.6060 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

01605

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X014.D Vial: 42
Acq Time : 05/23/2015 05:19 Operator: CQC
Sample : F9L69 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 05:38:53 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	0.00	93		Not Detected	
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.16	110	3196	0.8002 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

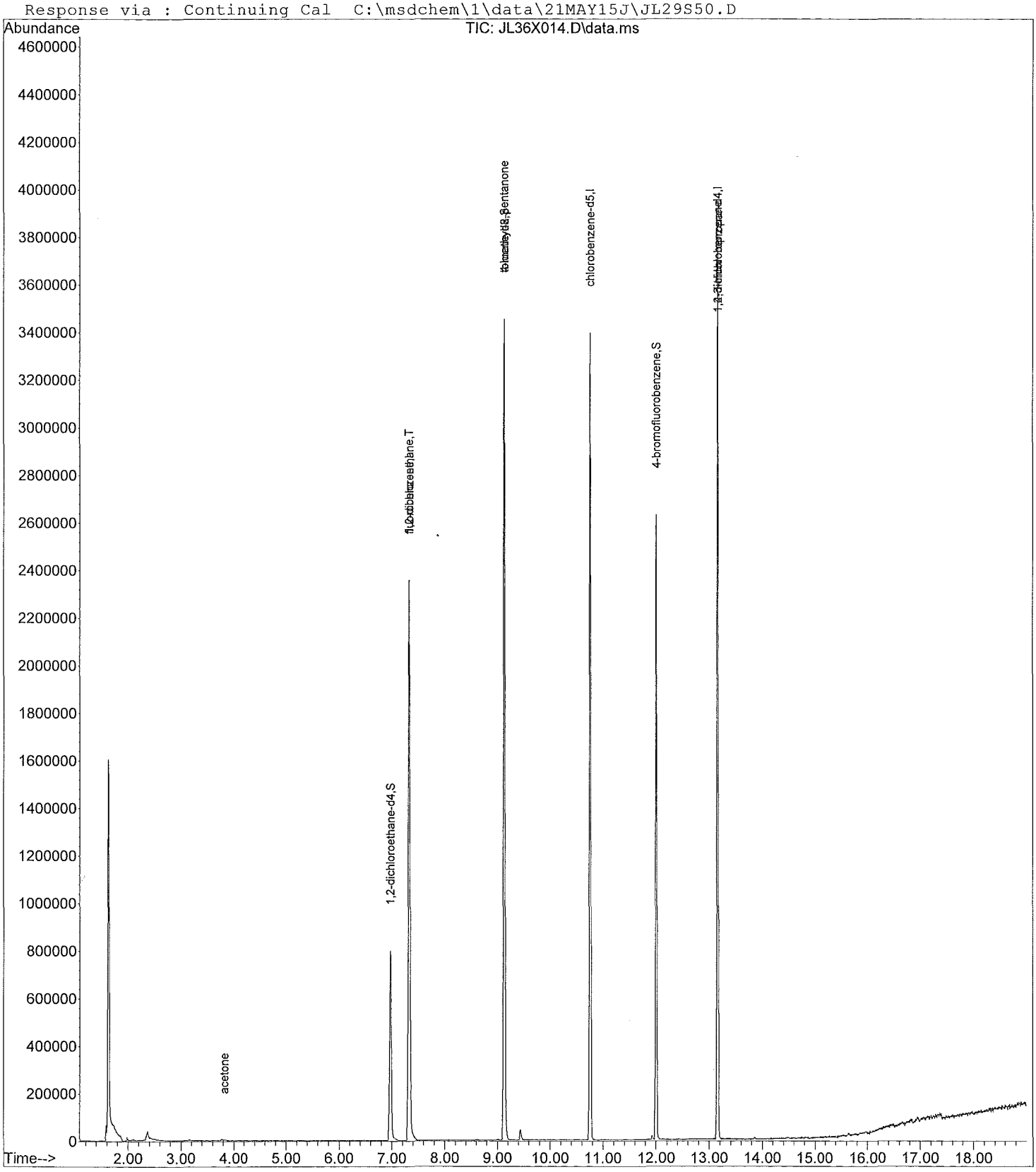
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X014.D Vial: 42
Acq Time : 05/23/2015 05:19 Operator: CQC
Sample : F9L69 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 05:38:53 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X015.D Vial: 43
Acq Time : 05/23/2015 05:44 Operator: CQC
Sample : F9L70 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 06:03:55 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2461885	50.0000 ug/Kg	94.02
42) chlorobenzene-d5	10.76	117	2008624	50.0000 ug/Kg	97.64
61) 1,4-dichlorobenzene-d4	13.16	152	1055064	50.0000 ug/Kg	97.56
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	689807	52.6965 ug/Kg	105.39%
43) toluene-d8	9.13	98	2413222	49.2446 ug/Kg	98.49%
63) 4-bromofluorobenzene	12.01	95	880750	50.5704 ug/Kg	101.14%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.83	43	7770	0.9596 ug/Kg#	57
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	0.00	62		Not Detected	
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	23232	4.7363 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X015.D Vial: 43
Acq Time : 05/23/2015 05:44 Operator: CQC
Sample : F9L70 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 06:03:55 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	0.00	93		Not Detected	
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.16	110	3162	0.7524 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

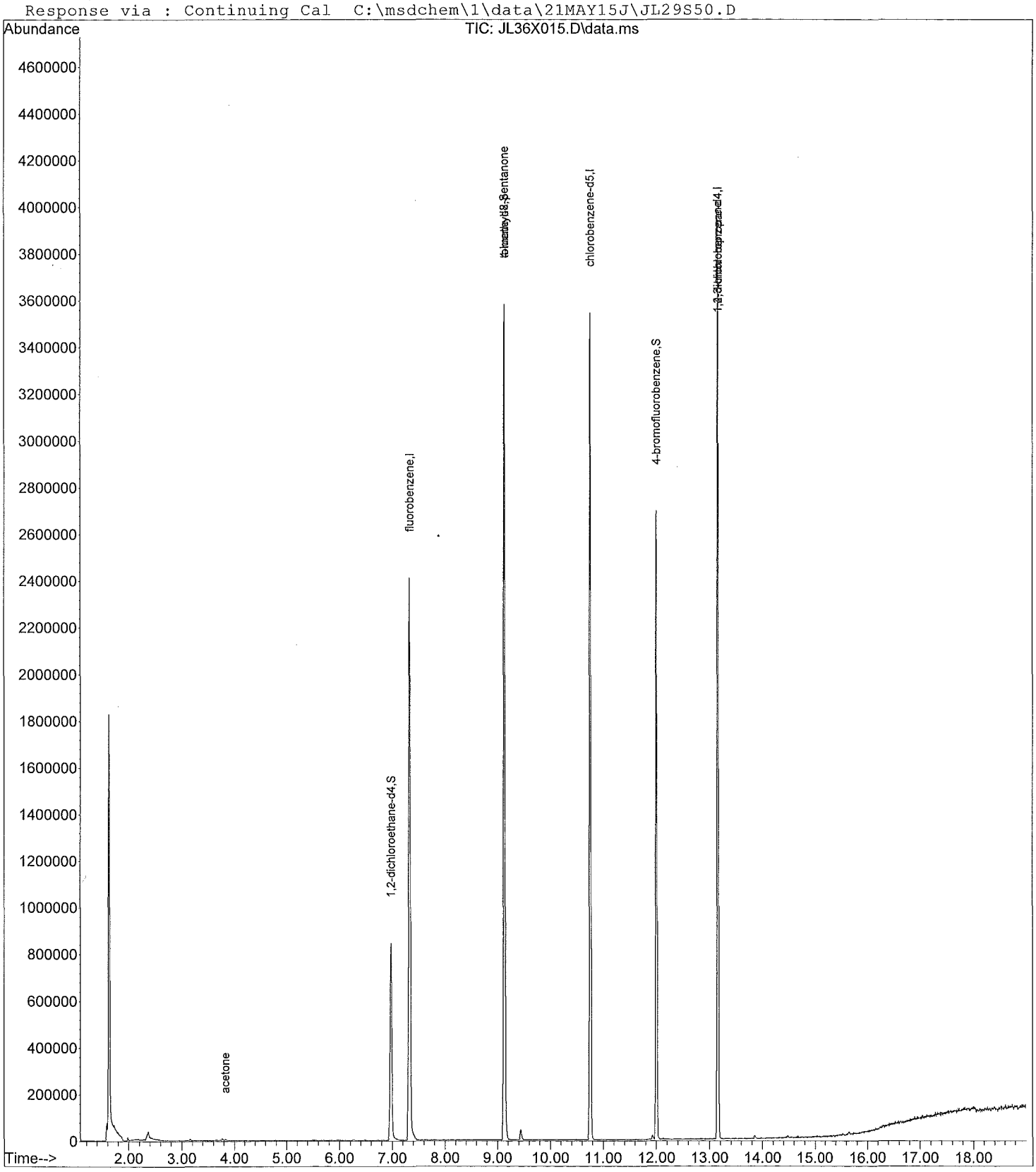
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X015.D Vial: 43
Acq Time : 05/23/2015 05:44 Operator: CQC
Sample : F9L70 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 06:03:55 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X016.D Vial: 44
Acq Time : 05/23/2015 06:09 Operator: CQC
Sample : F9L71 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 06:28:47 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2381284	50.0000 ug/Kg	90.95
42) chlorobenzene-d5	10.76	117	1921433	50.0000 ug/Kg	93.40
61) 1,4-dichlorobenzene-d4	13.16	152	965695	50.0000 ug/Kg	89.29
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	658366	51.9970 ug/Kg	103.99%
43) toluene-d8	9.13	98	2334501	49.7999 ug/Kg	99.60%
63) 4-bromofluorobenzene	12.01	95	842790	52.8690 ug/Kg	105.74%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.84	43	5882	0.7510 ug/Kg#	69
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	7.33	62	35315	2.3863 ug/Kg#	82
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	22056	4.6487 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X016.D Vial: 44
Acq Time : 05/23/2015 06:09 Operator: CQC
Sample : F9L71 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 06:28:47 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	0.00	93		Not Detected	
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.16	110	2865	0.7448 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

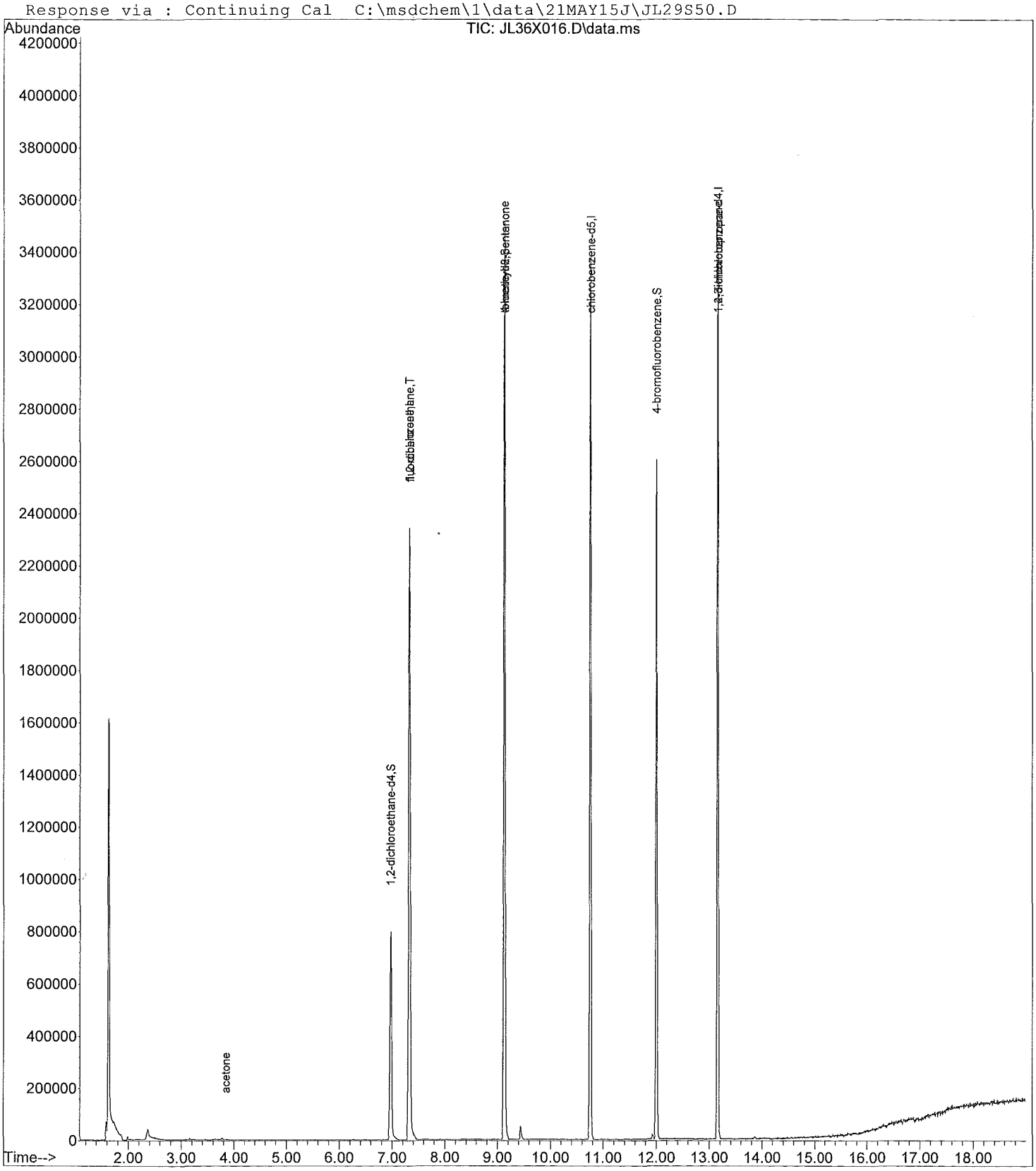
01515

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X016.D Vial: 44
Acq Time : 05/23/2015 06:09 Operator: CQC
Sample : F9L71 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 06:28:47 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X017.D Vial: 45
Acq Time : 05/23/2015 06:34 Operator: CQC
Sample : F9L72 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 06:53:42 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2391058	50.0000 ug/Kg	91.32
42) chlorobenzene-d5	10.76	117	1950665	50.0000 ug/Kg	94.82
61) 1,4-dichlorobenzene-d4	13.16	152	941644	50.0000 ug/Kg	87.07
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.97	65	657635	51.7269 ug/Kg	103.45%
43) toluene-d8	9.13	98	2339104	49.1504 ug/Kg	98.30%
63) 4-bromofluorobenzene	12.01	95	747909	48.1154 ug/Kg	96.23%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.82	43	6471	0.8228 ug/Kg#	60
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	7.33	62	37174	2.5016 ug/Kg#	79
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	22101	4.6392 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X017.D Vial: 45
Acq Time : 05/23/2015 06:34 Operator: CQC
Sample : F9L72 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 06:53:42 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	0.00	93		Not Detected	
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.15	110	2544	0.6782 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

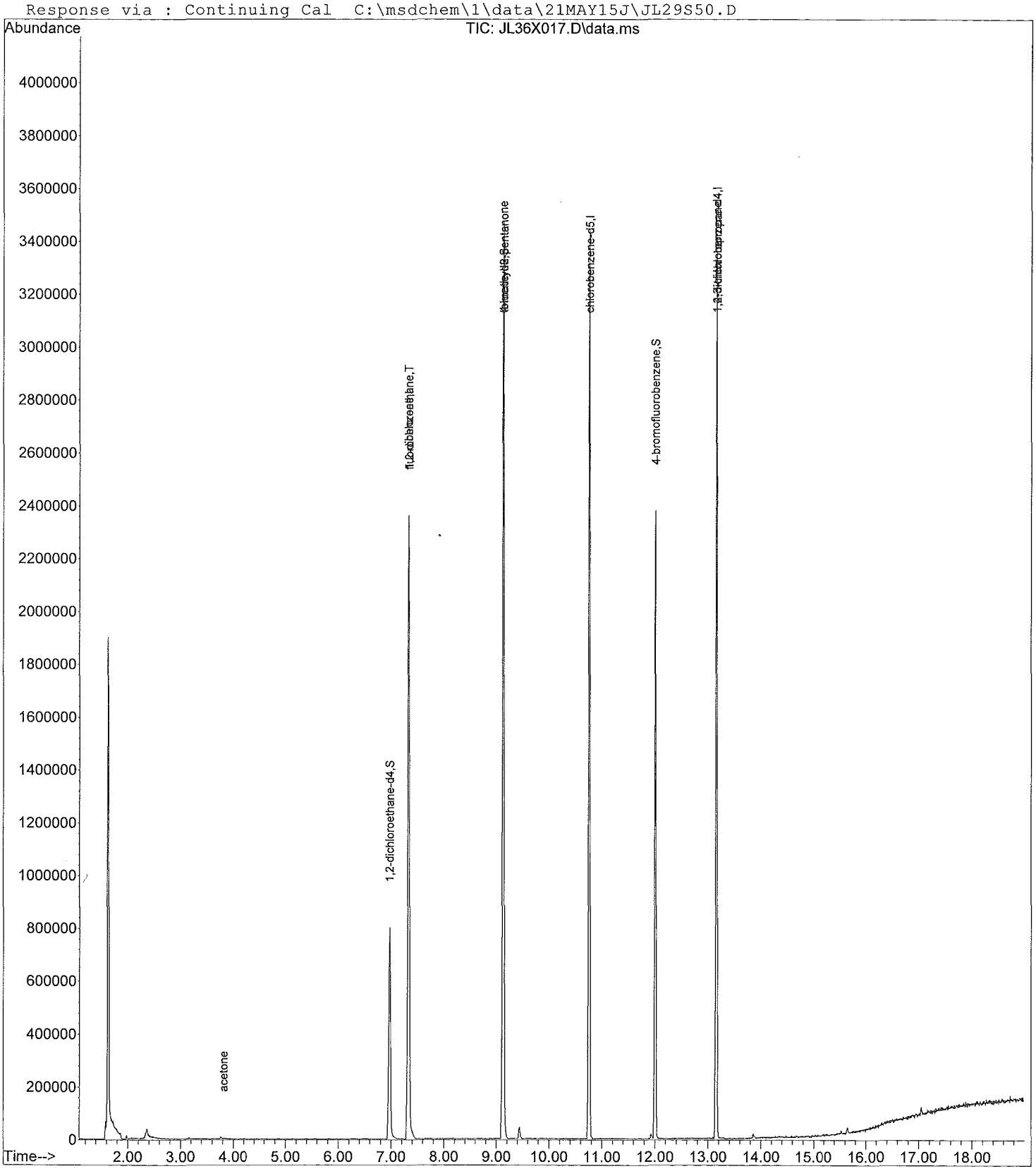
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X017.D Vial: 45
Acq Time : 05/23/2015 06:34 Operator: CQC
Sample : F9L72 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 06:53:42 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X018.D Vial: 46
Acq Time : 05/23/2015 06:59 Operator: CQC
Sample : F9L73 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 07:18:36 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2386965	50.0000 ug/Kg	91.16
42) chlorobenzene-d5	10.76	117	1846559	50.0000 ug/Kg	89.76
61) 1,4-dichlorobenzene-d4	13.16	152	1029938	50.0000 ug/Kg	95.23
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	676636	53.3127 ug/Kg	106.63%
43) toluene-d8	9.13	98	1800938	39.9756 ug/Kg	79.95%
63) 4-bromofluorobenzene	12.01	95	848879	49.9295 ug/Kg	99.86%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.84	43	5964	0.7597 ug/Kg#	81
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	7.34	62	36302	2.4471 ug/Kg#	81
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	14755	3.1025 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

01616

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X018.D Vial: 46
Acq Time : 05/23/2015 06:59 Operator: CQC
Sample : F9L73 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 07:18:36 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	0.00	93		Not Detected	
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.16	110	3283	0.8002 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

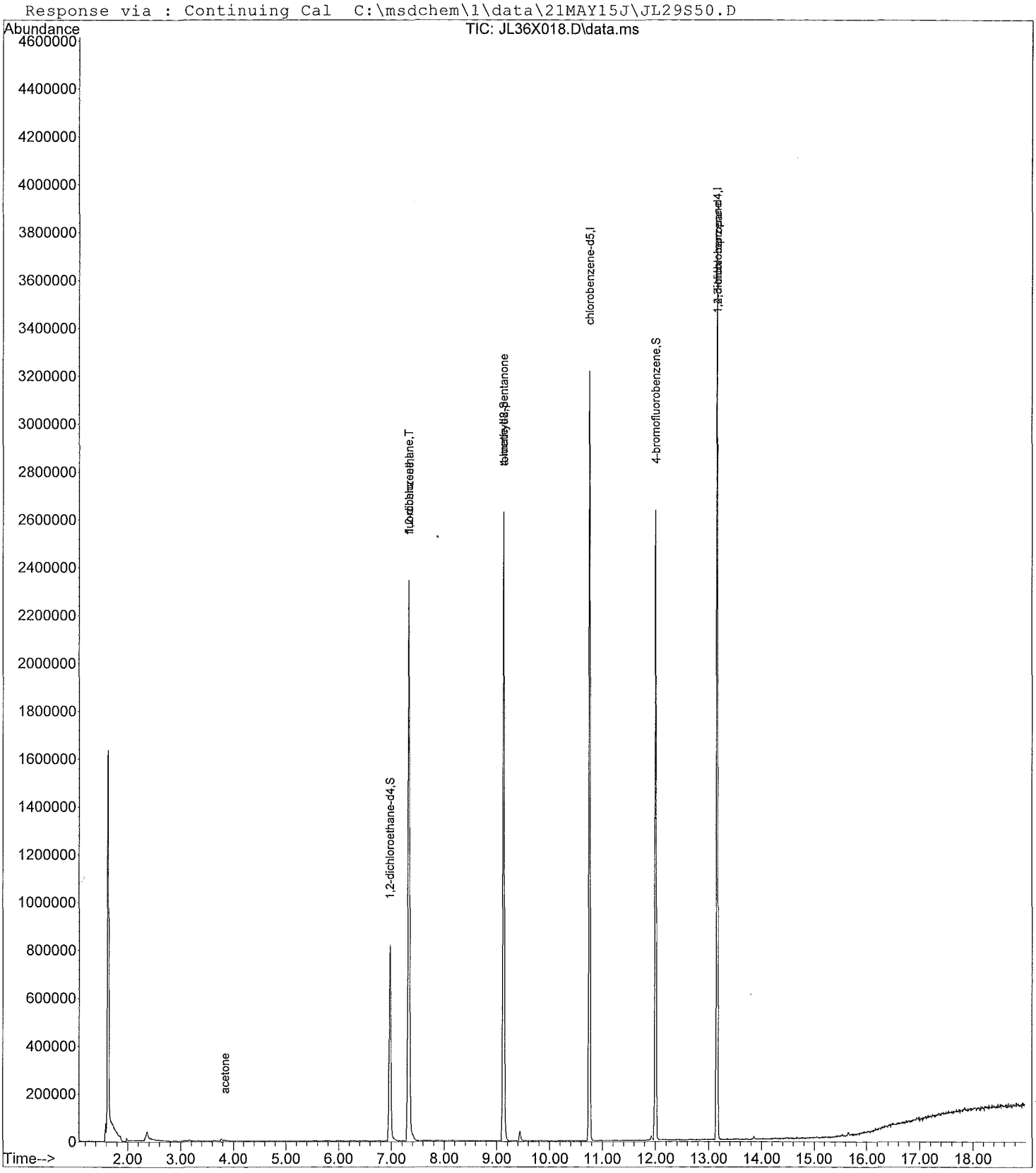
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X018.D Vial: 46
Acq Time : 05/23/2015 06:59 Operator: CQC
Sample : F9L73 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 07:18:36 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X019.D Vial: 47
Acq Time : 05/23/2015 07:24 Operator: CQC
Sample : F9L75 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 07:43:33 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2386409	50.0000 ug/Kg	91.14
42) chlorobenzene-d5	10.76	117	1657222	50.0000 ug/Kg	80.56
61) 1,4-dichlorobenzene-d4	13.16	152	1017221	50.0000 ug/Kg	94.06
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	672214	52.9767 ug/Kg	105.95%
43) toluene-d8	9.13	98	2035536	50.3452 ug/Kg	100.69%
63) 4-bromofluorobenzene	12.01	95	787198	46.8803 ug/Kg	93.76%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.83	43	6723	0.8565 ug/Kg#	78
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	0.00	62		Not Detected	
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	18637	3.9197 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

84621

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X019.D Vial: 47
Acq Time : 05/23/2015 07:24 Operator: CQC
Sample : F9L75 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 07:43:33 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) 2-hexanone	0.00	43		Not Detected	
51) dibromochloromethane	0.00	129		Not Detected	
52) 1,2-dibromoethane	0.00	107		Not Detected	
53) chlorobenzene	0.00	112		Not Detected	
54) 1-chlorohexane	0.00	93		Not Detected	
55) 1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56) ethylbenzene	0.00	106		Not Detected	
57) m,p-xylene	0.00	106		Not Detected	
58) o-xylene	0.00	106		Not Detected	
59) styrene	0.00	104		Not Detected	
60) isopropylbenzene	0.00	105		Not Detected	
62) bromoform	0.00	173		Not Detected	
64) bromobenzene	0.00	156		Not Detected	
65) 1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66) 1,2,3-trichloropropane	13.16	110	3315	0.8181 ug/Kg#	1
67) trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68) pentachloroethane	0.00	167		Not Detected	
69) n-propylbenzene	0.00	91		Not Detected	
70) 2-chlorotoluene	0.00	126		Not Detected	
71) 4-chlorotoluene	0.00	126		Not Detected	
72) 1,3,5-trimethylbenzene	0.00	105		Not Detected	
73) tert-butylbenzene	0.00	119		Not Detected	
74) 1,2,4-trimethylbenzene	0.00	105		Not Detected	
75) sec-butylbenzene	0.00	105		Not Detected	
76) p-isopropyltoluene	0.00	119		Not Detected	
77) 1,3-dichlorobenzene	0.00	146		Not Detected	
78) 1,4-dichlorobenzene	0.00	146		Not Detected	
79) 1,2-dichlorobenzene	0.00	146		Not Detected	
80) n-butylbenzene	0.00	91		Not Detected	
81) 1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82) 1,2,4-trichlorobenzene	0.00	180		Not Detected	
83) hexachlorobutadiene	0.00	225		Not Detected	
84) naphthalene	0.00	128		Not Detected	
85) 1,2,3-trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

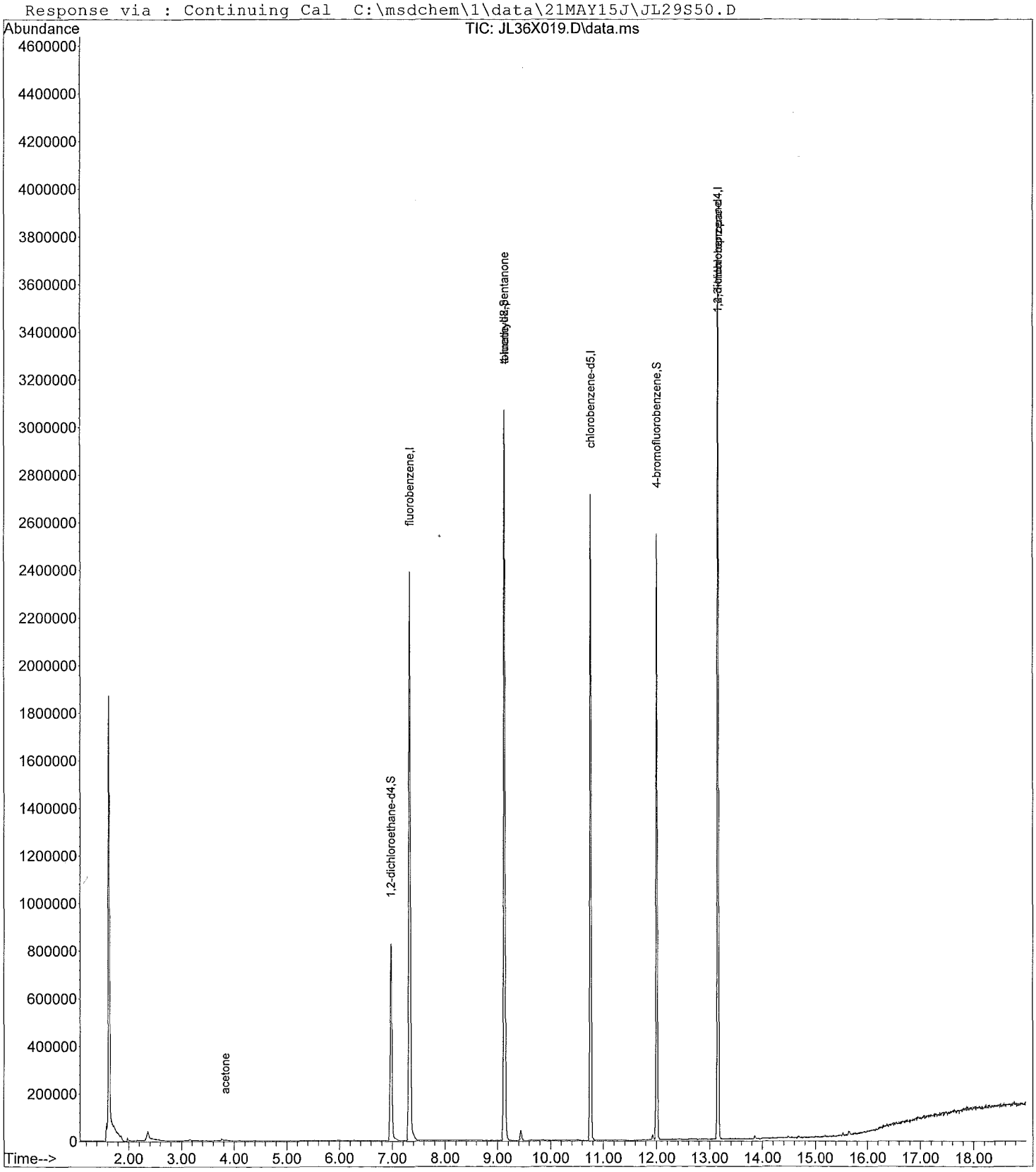
01622

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X019.D Vial: 47
Acq Time : 05/23/2015 07:24 Operator: CQC
Sample : F9L75 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 07:43:33 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X020.D Vial: 48
Acq Time : 05/23/2015 07:49 Operator: CQC
Sample : F9L77 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 08:08:29 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2349612	50.0000 ug/Kg	89.74
42) chlorobenzene-d5	10.76	117	1633511	50.0000 ug/Kg	79.40
61) 1,4-dichlorobenzene-d4	13.16	152	1003847	50.0000 ug/Kg	92.82
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	655928	52.5027 ug/Kg	105.01%
43) toluene-d8	9.13	98	1979625	49.6730 ug/Kg	99.35%
63) 4-bromofluorobenzene	12.01	95	846753	51.0989 ug/Kg	102.20%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.83	43	7065	0.9142 ug/Kg#	76
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	7.33	62	35453	2.4279 ug/Kg#	77
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	17256	3.6861 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X020.D Vial: 48
Acq Time : 05/23/2015 07:49 Operator: CQC
Sample : F9L77 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 08:08:29 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	0.00	93		Not Detected	
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.16	110	3287	0.8220 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

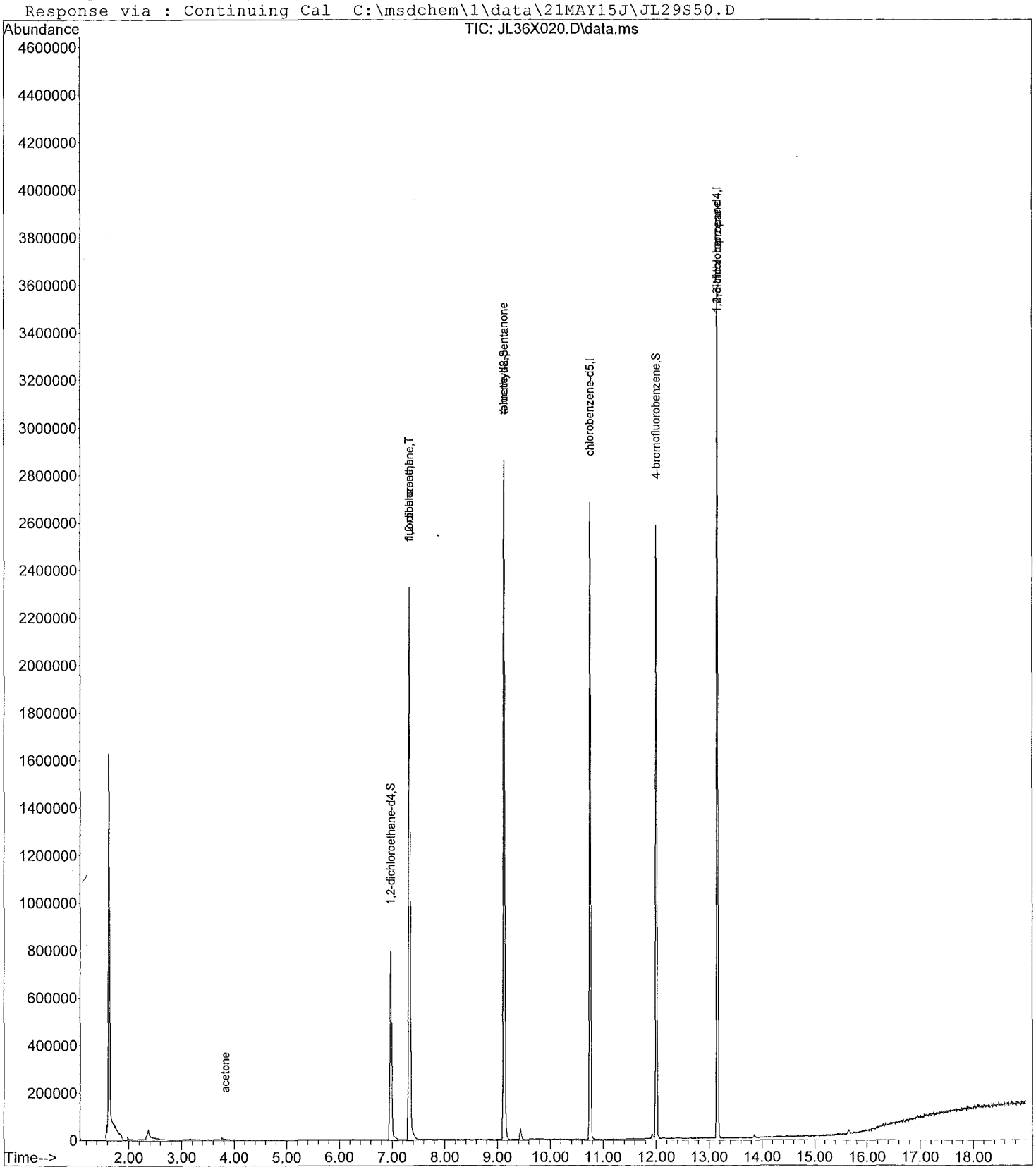
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X020.D Vial: 48
Acq Time : 05/23/2015 07:49 Operator: CQC
Sample : F9L77 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 08:08:29 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



01626

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X021.D Vial: 49
Acq Time : 05/23/2015 08:14 Operator: CQC
Sample : F9L78 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 08:33:24 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2358886	50.0000 ug/Kg	90.09
42) chlorobenzene-d5	10.76	117	1757300	50.0000 ug/Kg	85.42
61) 1,4-dichlorobenzene-d4	13.16	152	1008728	50.0000 ug/Kg	93.27
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	667363	53.2080 ug/Kg	106.42%
43) toluene-d8	9.13	98	2066289	48.1953 ug/Kg	96.39%
63) 4-bromofluorobenzene	12.01	95	695481	41.7670 ug/Kg	83.53%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.82	43	6465	0.8333 ug/Kg#	81
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	0.00	62		Not Detected	
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	19176	4.0801 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

01627

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X021.D Vial: 49
Acq Time : 05/23/2015 08:14 Operator: CQC
Sample : F9L78 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 08:33:24 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	0.00	93		Not Detected	
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.17	110	3120	0.7765 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

(#) = qualifier out of range (m) = manual integration

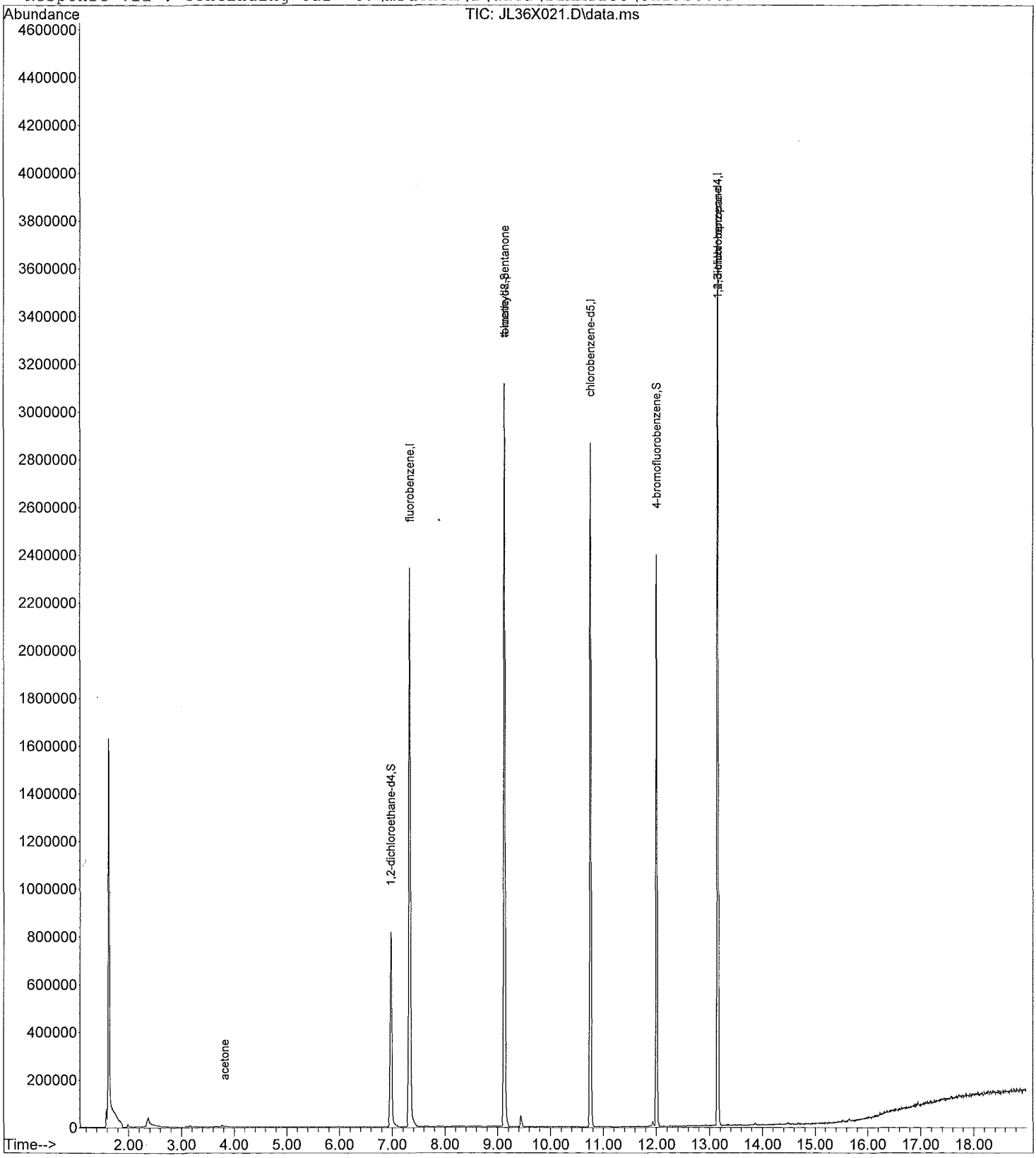
61628

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X021.D Vial: 49
Acq Time : 05/23/2015 08:14 Operator: CQC
Sample : F9L78 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 08:33:24 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X022.D Vial: 50
Acq Time : 05/23/2015 08:39 Operator: CQC
Sample : F9L79 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 08:58:23 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

Internal Standards	R.T.	QIon	Response	Conc Units	Area%
1) fluorobenzene	7.33	96	2330245	50.0000 ug/Kg	89.00
42) chlorobenzene-d5	10.76	117	1742637	50.0000 ug/Kg	84.71
61) 1,4-dichlorobenzene-d4	13.16	152	986290	50.0000 ug/Kg	91.20
System Monitoring Compounds					%Recovery
32) 1,2-dichloroethane-d4	6.98	65	651254	52.5619 ug/Kg	105.12%
43) toluene-d8	9.13	98	1825159	42.9293 ug/Kg	85.86%
63) 4-bromofluorobenzene	12.01	95	824620	50.6491 ug/Kg	101.30%
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85		Not Detected	
3) chloromethane	0.00	50		Not Detected	
4) vinyl chloride	0.00	62		Not Detected	
5) bromomethane	0.00	94		Not Detected	
6) chloroethane	0.00	64		Not Detected	
7) dichlorofluoromethane	0.00	67		Not Detected	
8) trichlorofluoromethane	0.00	101		Not Detected	
9) ethyl ether	0.00	59		Not Detected	
10) 1,1-dichloroethene	0.00	96		Not Detected	
11) freon 113	0.00	151		Not Detected	
12) acetone	3.82	43	5265	0.6870 ug/Kg#	62
13) iodomethane	0.00	142		Not Detected	
14) carbon disulfide	0.00	76		Not Detected	
15) allyl chloride	0.00	41		Not Detected	
16) methyl acetate	0.00	43		Not Detected	
17) methylene chloride	0.00	84		Not Detected	
18) trans-1,2-dichloroethene	0.00	96		Not Detected	
19) methyl-t-butyl-ether	0.00	73		Not Detected	
20) 1,1-dichloroethane	0.00	63		Not Detected	
21) 2,2-dichloropropane	0.00	77		Not Detected	
22) cis-1,2-dichloroethene	0.00	96		Not Detected	
23) 2-butanone	0.00	72		Not Detected	
24) ethyl acetate	0.00	43		Not Detected	
25) bromochloromethane	0.00	128		Not Detected	
26) tetrahydrofuran	0.00	72		Not Detected	
27) chloroform	0.00	83		Not Detected	
28) 1,1,1-trichloroethane	0.00	97		Not Detected	
29) cyclohexane	0.00	56		Not Detected	
30) 1,1-dichloropropene	0.00	75		Not Detected	
31) carbon tetrachloride	0.00	117		Not Detected	
33) benzene	0.00	78		Not Detected	
34) 1,2-dichloroethane	7.33	62	35970	2.4837 ug/Kg#	80
35) trichloroethene	0.00	130		Not Detected	
36) methylcyclohexane	0.00	83		Not Detected	
37) 1,2-dichloropropane	0.00	63		Not Detected	
38) dibromomethane	0.00	93		Not Detected	
39) bromodichloromethane	0.00	83		Not Detected	
40) cis-1,3-dichloropropene	0.00	75		Not Detected	
41) 4-methyl-2-pentanone	9.13	58	15947	3.4347 ug/Kg#	1
44) toluene	0.00	91		Not Detected	
45) trans-1,3-dichloropropene	0.00	75		Not Detected	
46) ethyl methacrylate	0.00	69		Not Detected	
47) 1,1,2-trichloroethane	0.00	97		Not Detected	
48) tetrachloroethene	0.00	164		Not Detected	
49) 1,3-dichloropropane	0.00	76		Not Detected	

(#) = qualifier out of range (m) = manual integration

01636

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X022.D Vial: 50
Acq Time : 05/23/2015 08:39 Operator: CQC
Sample : F9L79 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 08:58:23 2015 Results File: JSCREENS.RES

Quant Method : C:\MSDCHEM\1\METHODS\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:16 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D
DataAcq Meth : JSCREENS.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	0.00	43		Not Detected	
51)	dibromochloromethane	0.00	129		Not Detected	
52)	1,2-dibromoethane	0.00	107		Not Detected	
53)	chlorobenzene	0.00	112		Not Detected	
54)	1-chlorohexane	0.00	93		Not Detected	
55)	1,1,1,2-tetrachloroethane	0.00	131		Not Detected	
56)	ethylbenzene	0.00	106		Not Detected	
57)	m,p-xylene	0.00	106		Not Detected	
58)	o-xylene	0.00	106		Not Detected	
59)	styrene	0.00	104		Not Detected	
60)	isopropylbenzene	0.00	105		Not Detected	
62)	bromoform	0.00	173		Not Detected	
64)	bromobenzene	0.00	156		Not Detected	
65)	1,1,2,2-tetrachloroethane	0.00	83		Not Detected	
66)	1,2,3-trichloropropane	13.16	110	2901	0.7384 ug/Kg#	1
67)	trans-1,4-dichloro-2-buten	0.00	88		Not Detected	
68)	pentachloroethane	0.00	167		Not Detected	
69)	n-propylbenzene	0.00	91		Not Detected	
70)	2-chlorotoluene	0.00	126		Not Detected	
71)	4-chlorotoluene	0.00	126		Not Detected	
72)	1,3,5-trimethylbenzene	0.00	105		Not Detected	
73)	tert-butylbenzene	0.00	119		Not Detected	
74)	1,2,4-trimethylbenzene	0.00	105		Not Detected	
75)	sec-butylbenzene	0.00	105		Not Detected	
76)	p-isopropyltoluene	0.00	119		Not Detected	
77)	1,3-dichlorobenzene	0.00	146		Not Detected	
78)	1,4-dichlorobenzene	0.00	146		Not Detected	
79)	1,2-dichlorobenzene	0.00	146		Not Detected	
80)	n-butylbenzene	0.00	91		Not Detected	
81)	1,2-dibromo-3-chloropropan	0.00	75		Not Detected	
82)	1,2,4-trichlorobenzene	0.00	180		Not Detected	
83)	hexachlorobutadiene	0.00	225		Not Detected	
84)	naphthalene	0.00	128		Not Detected	
85)	1,2,3-trichlorobenzene	0.00	180		Not Detected	

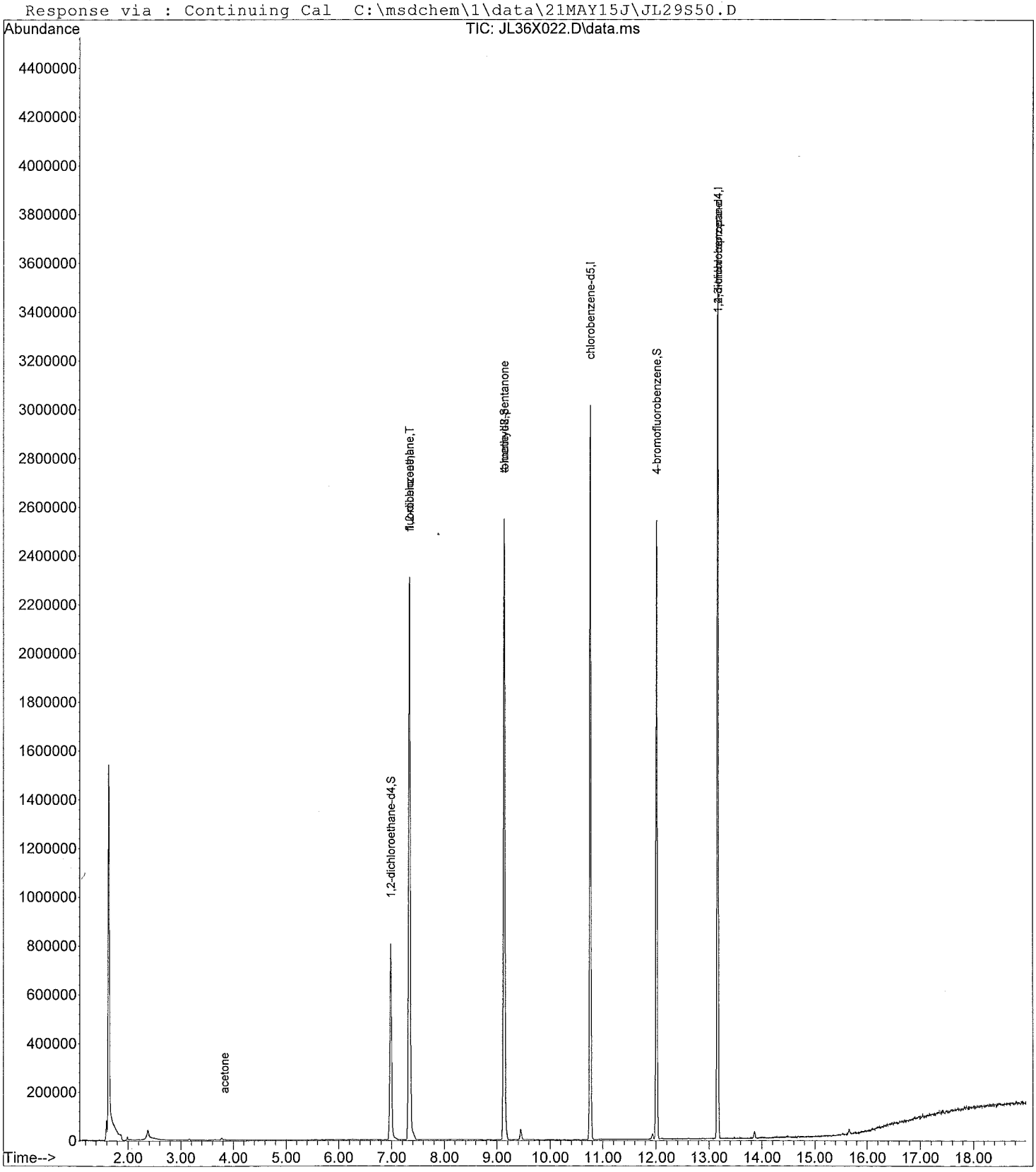
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\msdchem\1\data\22MAY15J\JL36X022.D Vial: 50
Acq Time : 05/23/2015 08:39 Operator: CQC
Sample : F9L79 Inst : 5975-J
Misc : 1514293 25 uL Multiplr: 1.00
MS Integration Params: RTEINT.P Column ID: Rtx-VMS

Quant Time: May 23 08:58:23 2015 Results File: JSCREENS.RES

Method : C:\msdchem\1\methods\JSCREENS.M (RTE Integrator)
Title : VOA COMPOUND LIST
Last Update : Thu May 21 20:59:15 2015
Response via : Continuing Cal C:\msdchem\1\data\21MAY15J\JL29S50.D



% Moistures & Solids

Analyst: IJO
Queue: EGRV
Batch: 5188
Instrument: GRAV03

Oven Start Time	05/26/2015 11:00	**Start Oven Temp:**	105°	**Start Desiccator:**	05/27/2015 07:00
Oven Finish Time	05/27/2015 07:00	**End Oven Temp:**	105°	**End Desiccator:**	05/27/2015 07:35

Workorder	Dish#	Lab Sample ID	Dish (g)	Dish + Soil (g)	Soil Weight (g)	Dish + DS (g)	Dry Soil (g)	% Solids	% Moistures
1514293	1	1514293001	1.3102	9.6219	8.3117	8.1994	6.8892	82.8856%	17.1144%
1514293	2	1514293002	1.3153	9.8760	8.5607	8.5739	7.2586	84.7898%	15.2102%
1514293	3	1514293003	1.3162	9.6761	8.3599	8.0788	6.7626	80.8933%	19.1067%
1514293	4	1514293004	1.3189	9.9831	8.6642	8.6213	7.3024	84.2824%	15.7176%
1514293	5	1514293005	1.3218	9.7735	8.4517	8.5123	7.1905	85.0776%	14.9224%
1514293	6	1514293006	1.3061	9.8686	8.5625	7.9472	6.6411	77.5603%	22.4397%
1514293	7	1514293007	1.3126	9.9811	8.6685	8.9122	7.5996	87.6691%	12.3309%
1514293	8	1514293008	1.3172	9.5523	8.2351	8.6199	7.3027	88.6777%	11.3223%
1514293	9	1514293009	1.3158	9.7543	8.4385	8.4806	7.1648	84.9061%	15.0939%
1514293	10	448305	1.3159	9.7233	8.4074	8.5627	7.2468	86.1955%	13.8045%
1514293	11	1514293012	1.3250	9.6002	8.2752	8.3768	7.0518	85.2161%	14.7839%
1514293	12	1514293013	1.3207	9.8632	8.5425	8.9083	7.5876	88.8218%	11.1782%
1514293	13	1514293014	1.3164	9.6592	8.3428	8.6953	7.3789	88.4463%	11.5537%
1514293	14	1514293015	1.3071	9.9268	8.6197	9.0065	7.6994	89.3233%	10.6767%
1514293	15	1514293016	1.3154	9.6366	8.3212	8.4202	7.1048	85.3819%	14.6181%
1514293	16	1514293017	1.3146	9.6218	8.3072	8.3864	7.0718	85.1286%	14.8714%
1514293	17	1514293018	1.3159	9.5591	8.2432	8.4159	7.1000	86.1316%	13.8684%
1514293	18	1514293019	1.3188	9.8191	8.5003	8.7067	7.3879	86.9134%	13.0866%
1514293	19	1514293020	1.3186	9.8702	8.5516	8.9148	7.5962	88.8278%	11.1722%
1514293	20	1514293021	1.3030	9.8424	8.5394	8.6584	7.3554	86.1349%	13.8651%
1514293	21	1514293022	1.3041	9.9343	8.6302	8.9222	7.6181	88.2726%	11.7274%

From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J151215022303uv

Ship Date: 21MAY15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

5/22/2015 8:38

FRI - 22 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7736 6235 9606

XH BTFA

84123
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SLC

537J3/C918/EE4B

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Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J151215022303uv

Ship Date: 21MAY15
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CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street .

Salt Lake City, UT 84123

Ref # 20406.016.005.0919.01
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5/22/15 18:38

FRI - 22 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 7736 5328 8329
0201

XH BTFA

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From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J1512150223030v

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

Ship Date: 21MAY15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

FRI - 22 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7736 6187 8241

XH BTFA

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Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J151215022303JW

Ship Date: 21MAY15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

Ref # 20406.016.005.0919.01
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PO #
Dept #

MH 5/22/205 / 838

FRI - 22 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7736 5329 7378

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Derrick Cobb
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5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J1512150223030v

Ship Date: 21MAY15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

5/22/2015 8:37

FRI - 22 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7736 5331 6333

XH BTFA

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From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J1512150023O3uv

Ship Date: 21MAY15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

SHIP TO: (801) 266-7700 BILL SENDER

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ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

Ref # 20406.016.005.0919.01
Invoice #
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MLE 5/22/2015 1858

FRI - 22 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7736 6187 1692

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From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J15121502303uv

Ship Date: 21MAY15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

Ref # 20406.016.005.0919.01
Invoice #
PO #
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MR 5/22/2015 8:38

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

FRI - 22 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7736 5332 6724

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From: (832) 347-4180
Derrick Cobb
Weston Solutions, Inc
5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

Origin ID: HOUA

FedEx Express

J151215022303nv

Ship Date: 21MAY15
ActWgt: 70.0 LB
CAD: 2557584/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

MR 5/22/2015 / 888

FRI - 22 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7736 6186 5425

XH BTFA

84123
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Ship Date: 21MAY15
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CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

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Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

NR 5/22/2015/838

FRI - 22 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 7736 5332 2843
0201

XH BTFA

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FedEx Express

J15121502303uv

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CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

MA 5/22/2015 1838

FRI - 22 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7736 6188 2440

XH BTFA

84123
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5599 San Felipe St
Ste. 700
HOUSTON, TX 77056

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FedEx Express

J1512150223030v

Ship Date: 21MAY15
ActWgt: 70.0 LB
CAD: 2557564/INET3610

Dims: 22 X 16 X 14 IN

Delivery Address Bar Code

SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

Ref # 20406.016.005.0919.01
Invoice #
PO #
Dept #

MN 5/22/15 1838

FRI - 22 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7736 5327 6760

XH BTFA

84123
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SHIP TO: (801) 266-7700 BILL SENDER

Meredith Edwards
ALS Laboratory Group - Salt Lake
960 West Levoy Street

Salt Lake City, UT 84123

5/22/2015 KSB

FRI - 22 MAY 10:30A
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TRK# 7736 5334 2812
0201

XH BTFA

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1514293

USEPA CLP COC (LAB COPY)

DateShipped: 5/21/2015

CarrierName: FedEx

AirbillNo: 773662359606

CHAIN OF CUSTODY RECORD

F9L58

Case #: 45316

Cooler #:

No: 6-052115-180330-0062

Lab: ALS Laboratory Group - Salt Lake City

Lab Contact: Meredith Edwards

Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-005-44-20150521	F9L56	Water/ START	Grab	VOA(21)	1119 (HCl) (3)	FieldQC	05/21/2015 07:50	
WO-017-001-06-51	F9L58	Soil/ START	Composite	VOA(21)	1122 (Ice) (3)	017	05/21/2015 08:20	
WO-017-001-12-51	F9L59	Soil/ START	Composite	VOA(21)	1127 (Ice) (3)	017	05/21/2015 08:25	
WO-017-002-06-51	F9L60	Soil/ START	Composite	VOA(21)	1132 (Ice) (3)	017	05/21/2015 08:45	
WO-017-002-12-51	F9L61	Soil/ START	Composite	VOA(21)	1147 (Ice) (3)	017	05/21/2015 08:50	
WO-017-002-24-51	F9L62	Soil/ START	Composite	VOA(21)	1142 (Ice) (3)	017	05/21/2015 08:55	
WO-017-003-06-51	F9L63	Soil/ START	Composite	VOA(21)	1152 (Ice) (3)	017	05/21/2015 09:30	
WO-017-003-12-51	F9L64	Soil/ START	Composite	VOA(21)	1157 (Ice) (3)	017	05/21/2015 09:35	
WO-017-003-12-52	F9L65	Soil/ START	Composite	VOA(21)	1162 (Ice) (3)	017	05/21/2015 09:40	
WO-017-003-24-51	F9L66	Soil/ START	Composite	VOA(21)	1167 (Ice) (3)	017	05/21/2015 09:45	

Special Instructions: No Lab QC on VOA Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: VOA=CLP VOA	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
32/samples	FED/weston	5/21/15 2100	Fedex	5/21/15 2100	
	FedEx	5/22/15 838	Meredith Edwards DATHC	5/22/15 838	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773662359606

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

No: 6-052115-180330-0062
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-004-06-51	F9L67	Soil/ START	Composite	VOA(21)	1172 (Ice) (3)	017	05/21/2015 10:05	
WO-017-004-12-51	F9L68	Soil/ START	Composite	VOA(21)	1177 (Ice) (3)	017	05/21/2015 10:10	
WO-017-004-24-51	F9L69	Soil/ START	Composite	VOA(21)	1182 (Ice) (3)	017	05/21/2015 10:15	
WO-005-001-06-51	F9L70	Soil/ START	Composite	VOA(21)	1187 (Ice) (3)	017	05/21/2015 11:05	
WO-005-001-12-51	F9L71	Soil/ START	Composite	VOA(21)	1192 (Ice) (3)	017	05/21/2015 11:10	
WO-005-001-24-51	F9L72	Soil/ START	Composite	VOA(21)	1197 (Ice) (3)	017	05/21/2015 11:15	
WO-005-001-24-52	F9L73	Soil/ START	Composite	VOA(21)	1202 (Ice) (3)	017	05/21/2015 11:20	
WO-005-003-06-51	F9L75	Soil/ START	Composite	VOA(21)	1211 (Ice) (3)	017	05/21/2015 14:00	
WO-005-003-12-51	F9L76	Soil/ START	Composite	VOA(21)	1216 (Ice) (3)	017	05/21/2015 14:05	
WO-005-003-24-51	F9L77	Soil/ START	Composite	VOA(21)	1221 (Ice) (3)	017	05/21/2015 14:10	

Special Instructions: No Lab QC on VOA Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: VOA=CLP VOA	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
32/samples	Weston	5/21/15 2100	Fedex	5/21/15 2100	
	Fedex	5/22/15 838	DATAC	5/22/15 838	good

USEPA CLP COC (LAB COPY)

DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773662359606

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

No: 6-052115-180330-0062

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-002-06-51	F9L78	Soil/ START	Composite	VOA(21)	1226 (Ice) (3)	017	05/21/2015 14:30	
WO-005-002-12-51	F9L79	Soil/ START	Composite	VOA(21)	1231 (Ice) (3)	017	05/21/2015 14:35	
WO-005-002-24-51	F9L80	Soil/ START	Composite	VOA(21)	1236 (Ice) (3)	017	05/21/2015 14:40	
WO-005-002-24-52	F9L81	Soil/ START	Composite	VOA(21)	1241 (Ice) (3)	017	05/21/2015 14:45	
WO-005-004-06-51	F9L82	Soil/ START	Composite	VOA(21)	1246 (Ice) (3)	017	05/21/2015 15:10	
WO-005-004-12-51	F9L83	Soil/ START	Composite	VOA(21)	1251 (Ice) (3)	017	05/21/2015 15:15	
WO-005-004-24-51	F9L84	Soil/ START	Composite	VOA(21)	1256 (Ice) (3)	017	05/21/2015 15:15	
WO-005-006-06-51	F9L85	Soil/ START	Composite	VOA(21)	1261 (Ice) (3)	017	05/21/2015 15:30	
WO-005-006-12-51	F9L86	Soil/ START	Composite	VOA(21)	1266 (Ice) (3)	017	05/21/2015 15:35	
WO-005-006-24-51	F9L87	Soil/ START	Composite	VOA(21)	1271 (Ice) (3)	017	05/21/2015 15:40	

Special Instructions: No Lab QC on VOA Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: VOA=CLP VOA	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
32 samples	TB / Weston	5/21/15 2100	Fedex	5/21/15 2100	
	FedEx	5/22/2015 8:38	Meredith Edwards DATAC	5/22/2015 8:38	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773653288329

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-155708-0053
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-001-06-51	F9L58	Soil/ START	Composite	CLP Moisture(21)	1125 (Ice) (1)	017	05/21/2015 08:20	
WO-017-001-12-51	F9L59	Soil/ START	Composite	CLP Moisture(21)	1130 (Ice) (1)	017	05/21/2015 08:25	
WO-017-002-06-51	F9L60	Soil/ START	Composite	CLP Moisture(21)	1135 (Ice) (1)	017	05/21/2015 08:45	
WO-017-002-12-51	F9L61	Soil/ START	Composite	CLP Moisture(21)	1150 (Ice) (1)	017	05/21/2015 08:50	
WO-017-002-24-51	F9L62	Soil/ START	Composite	CLP Moisture(21)	1145 (Ice) (1)	017	05/21/2015 08:55	
WO-017-003-06-51	F9L63	Soil/ START	Composite	CLP Moisture(21)	1155 (Ice) (1)	017	05/21/2015 09:30	
WO-017-003-12-51	F9L64	Soil/ START	Composite	CLP Moisture(21)	1160 (Ice) (1)	017	05/21/2015 09:35	
WO-017-003-12-52	F9L65	Soil/ START	Composite	CLP Moisture(21)	1165 (Ice) (1)	017	05/21/2015 09:40	
WO-017-003-24-51	F9L66	Soil/ START	Composite	CLP Moisture(21)	1170 (Ice) (1)	017	05/21/2015 09:45	
WO-017-004-06-51	F9L67	Soil/ START	Composite	CLP Moisture(21)	1175 (Ice) (1)	017	05/21/2015 10:05	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: CLP Moisture=CLP % Moisture

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
10/Samples	[signature] Weston	5/21/15 @ 2100	FedEx [signature]	5/21/15 @ 2100	
	FedEx	5/22/2015 838	[signature] DATAL	5/22/2015 838	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773653288329

CHAIN OF CUSTODY RECORD F9L68

Case #: 45316
Cooler #:

No: 6-052115-155708-0053
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-004-12-51	F9L68	Soil/ START	Composite	CLP Moisture(21)	1180 (Ice) (1)	017	05/21/2015 10:10	
WO-017-004-24-51	F9L69	Soil/ START	Composite	CLP Moisture(21)	1185 (Ice) (1)	017	05/21/2015 10:15	
WO-005-001-06-51	F9L70	Soil/ START	Composite	CLP Moisture(21)	1190 (Ice) (1)	017	05/21/2015 11:05	
WO-005-001-12-51	F9L71	Soil/ START	Composite	CLP Moisture(21)	1195 (Ice) (1)	017	05/21/2015 11:10	
WO-005-001-24-51	F9L72	Soil/ START	Composite	CLP Moisture(21)	1200 (Ice) (1)	017	05/21/2015 11:15	
WO-005-001-24-52	F9L73	Soil/ START	Composite	CLP Moisture(21)	1205 (Ice) (1)	017	05/21/2015 11:20	
WO-005-003-06-51	F9L75	Soil/ START	Composite	CLP Moisture(21)	1214 (Ice) (1)	017	05/21/2015 14:00	
WO-005-003-24-51	F9L77	Soil/ START	Composite	CLP Moisture(21)	1224 (Ice) (1)	017	05/21/2015 14:10	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: CLP Moisture=CLP % Moisture	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
8/Samples	Weston	5/21/15 @ 2100	FedEx	5/21/15 @ 2100	
	FedEx	5/22/2015 838	Meredith Edwards DATAC	5/22/2015 1838	Good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773661878241

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-173253-0058
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-003-12-51	F9L76	Soil/ START	Composite	CLP Moisture(21)	1219 (Ice) (1)	017	05/21/2015 14:05	
WO-005-002-06-51	F9L78	Soil/ START	Composite	CLP Moisture(21)	1229 (Ice) (1)	017	05/21/2015 14:30	
WO-005-002-12-51	F9L79	Soil/ START	Composite	CLP Moisture(21)	1234 (Ice) (1)	017	05/21/2015 14:35	
WO-005-002-24-51	F9L80	Soil/ START	Composite	CLP Moisture(21)	1239 (Ice) (1)	017	05/21/2015 14:40	
WO-005-002-24-52	F9L81	Soil/ START	Composite	CLP Moisture(21)	1244 (Ice) (1)	017	05/21/2015 14:45	
WO-005-004-06-51	F9L82	Soil/ START	Composite	CLP Moisture(21)	1249 (Ice) (1)	017	05/21/2015 15:10	
WO-005-004-12-51	F9L83	Soil/ START	Composite	CLP Moisture(21)	1254 (Ice) (1)	017	05/21/2015 15:15	
WO-005-004-24-51	F9L84	Soil/ START	Composite	CLP Moisture(21)	1259 (Ice) (1)	017	05/21/2015 15:15	
WO-005-006-06-51	F9L85	Soil/ START	Composite	CLP Moisture(21)	1264 (Ice) (1)	017	05/21/2015 15:30	
WO-005-006-12-51	F9L86	Soil/ START	Composite	CLP Moisture(21)	1269 (Ice) (1)	017	05/21/2015 15:35	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: CLP Moisture=CLP % Moisture

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples Analysis	[signature] Weston	5/21/15 2100	FedEx	5/21/15 2100	
	FedEx	5/22/2015 1538	[signature] DATAL	5/22/2015 1538	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773653297378

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-155002-0052
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-001-06-51	F9L70	Soil/ START	Composite	SVOA/SVOASIM(21)	1188 (Ice) (2)	017	05/21/2015 11:05	
WO-005-001-24-51	F9L72	Soil/ START	Composite	SVOA/SVOASIM(21)	1198 (Ice) (2)	017	05/21/2015 11:15	
WO-005-001-43-20150521	F9L74	Water/ START	Grab	SVOA/SVOASIM(21)	1206 (Ice) (4)	FieldQC	05/21/2015 11:40	
WO-005-003-06-51	F9L75	Soil/ START	Composite	SVOA/SVOASIM(21)	1212 (Ice) (2)	017	05/21/2015 14:00	
WO-005-003-24-51	F9L77	Soil/ START	Composite	SVOA/SVOASIM(21)	1222 (Ice) (2)	017	05/21/2015 14:10	

Special Instructions: No Lab QC on SVOA/SVOASIM Samples	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples Analysis	[signature] Weston	5/21/15 2100	FedEx	5/21/15 2100	-
	FedEx	5/22/2015 838	Meredith Edwards DATAL	5/22/2015 838	Good

USEPA CLP COC (LAB COPY)

DateShipped: 5/21/2015

CarrierName: FedEx

AirbillNo: 773653316333

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316

Cooler #:

No: 6-052115-115920-0050

Lab: ALS Laboratory Group - Salt Lake City

Lab Contact: Meredith Edwards

Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-003-12-52	F9L65	Soil/ START	Composite	SVOA/SVOASIM(21)	1163 (Ice) (2)	017	05/21/2015 09:40	
WO-017-003-24-51	F9L66	Soil/ START	Composite	SVOA/SVOASIM(21)	1168 (Ice) (2)	017	05/21/2015 09:45	
WO-017-004-06-51	F9L67	Soil/ START	Composite	SVOA/SVOASIM(21)	1173 (Ice) (2)	017	05/21/2015 10:05	
WO-017-004-12-51	F9L68	Soil/ START	Composite	SVOA/SVOASIM(21)	1178 (Ice) (2)	017	05/21/2015 10:10	
WO-017-004-24-51	F9L69	Soil/ START	Composite	SVOA/SVOASIM(21)	1183 (Ice) (2)	017	05/21/2015 10:15	
WO-005-001-12-51	F9L71	Soil/ START	Composite	SVOA/SVOASIM(21)	1193 (Ice) (2)	017	05/21/2015 11:10	
WO-005-001-24-52	F9L73	Soil/ START	Composite	SVOA/SVOASIM(21)	1203 (Ice) (2)	017	05/21/2015 11:20	

Special Instructions: No Lab QC on SVOA/SVOASIM Samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
7/Samples	[signature] / WESTON	5/21/15 2100	FedEx	5/21/15 2100	
	FedEx	5/22/2015 1838	Meredith Edwards DATAC	5/22/2015 1838	good

F9L58

USEPA CLP COC (LAB COPY)

DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773661871692

CHAIN OF CUSTODY RECORD

Case #: 45316
Cooler #:

No: 6-052115-173917-0059

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-002-06-51	F9L78	Soil/ START	Composite	SVOA/SVOASIM(21)	1227 (Ice) (2)	017	05/21/2015 14:30	
WO-005-002-12-51	F9L79	Soil/ START	Composite	SVOA/SVOASIM(21)	1232 (Ice) (2)	017	05/21/2015 14:35	
WO-005-004-06-51	F9L82	Soil/ START	Composite	SVOA/SVOASIM(21)	1247 (Ice) (2)	017	05/21/2015 15:10	
WO-005-006-24-51	F9L87	Soil/ START	Composite	SVOA/SVOASIM(21)	1272 (Ice) (2)	017	05/21/2015 15:40	
WO-005-005-06-51	F9L88	Soil/ START	Composite	SVOA/SVOASIM(21)	1277 (Ice) (2)	017	05/21/2015 16:20	
WO-005-005-12-51	F9L89	Soil/ START	Composite	SVOA/SVOASIM(21)	1282 (Ice) (2)	017	05/21/2015 16:25	

Special Instructions: No Lab QC on SVOA/SVOASIM Samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
d samples	LS/Weston	5/21/15 2100	Fedex	5/21/15 2100	
	FedEx	5/22/2015/838	Meredith Edwards DATAL	5/22/2015/838	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773653326724

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-110210-0048
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-001-06-51	F9L58	Soil/ START	Composite	SVOA/SVOASIM(21)	1123 (Ice) (2)	017	05/21/2015 08:20	
WO-017-001-12-51	F9L59	Soil/ START	Composite	SVOA/SVOASIM(21)	1128 (Ice) (2)	017	05/21/2015 08:25	
WO-017-002-06-51	F9L60	Soil/ START	Composite	SVOA/SVOASIM(21)	1133 (Ice) (2)	017	05/21/2015 08:45	
WO-017-002-12-51	F9L61	Soil/ START	Composite	SVOA/SVOASIM(21)	1148 (Ice) (2)	017	05/21/2015 08:50	
WO-017-002-24-51	F9L62	Soil/ START	Composite	SVOA/SVOASIM(21)	1143 (Ice) (2)	017	05/21/2015 08:55	
WO-017-003-06-51	F9L63	Soil/ START	Composite	SVOA/SVOASIM(21)	1153 (Ice) (2)	017	05/21/2015 09:30	
WO-017-003-12-51	F9L64	Soil/ START	Composite	SVOA/SVOASIM(21)	1158 (Ice) (2)	017	05/21/2015 09:35	

Special Instructions: No Lab QC on SVOA samples

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA/SVOASIM=CLP SVOA/SVOASIM

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	Weston	5/21/15 @ 2100	FedEx	5/21/15 @ 2100	
	FedEx	5/22/2015/8:28	Marcel Edland DATAL	5/22/2015 7:28	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773661865425

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-174424-0060
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-002-06-51	F9L78	Soil/ START	Composite	PEST+ARO(21)	1228 (Ice) (2)	017	05/21/2015 14:30	
WO-005-002-12-51	F9L79	Soil/ START	Composite	PEST+ARO(21)	1233 (Ice) (2)	017	05/21/2015 14:35	
WO-005-006-24-51	F9L87	Soil/ START	Composite	PEST+ARO(21)	1273 (Ice) (2)	017	05/21/2015 15:40	
WO-005-005-06-51	F9L88	Soil/ START	Composite	PEST+ARO(21)	1278 (Ice) (2)	017	05/21/2015 16:20	
WO-005-005-12-51	F9L89	Soil/ START	Composite	PEST+ARO(21)	1283 (Ice) (2)	017	05/21/2015 16:25	

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: PEST+ARO=CLP Pest + ARO

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
5 Samples	Weston	5/21/15 2100	Fedex	5/21/15 2100	
	Fedex	5/22/2015 838	Meredith Edwards DATA	5/22/2015 838	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773653322843

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-115217-0049
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-003-12-52	F9L65	Soil/ START	Composite	PEST+ARO(21)	1164 (Ice) (2)	017	05/21/2015 09:40	
WO-017-003-24-51	F9L66	Soil/ START	Composite	PEST+ARO(21)	1169 (Ice) (4)	017	05/21/2015 09:45	
WO-017-004-06-51	F9L67	Soil/ START	Composite	PEST+ARO(21)	1174 (Ice) (2)	017	05/21/2015 10:05	
WO-017-004-12-51	F9L68	Soil/ START	Composite	PEST+ARO(21)	1179 (Ice) (2)	017	05/21/2015 10:10	
WO-017-004-24-51	F9L69	Soil/ START	Composite	PEST+ARO(21)	1184 (Ice) (2)	017	05/21/2015 10:15	
WO-005-001-12-51	F9L71	Soil/ START	Composite	PEST+ARO(21)	1194 (Ice) (2)	017	05/21/2015 11:10	

Sample(s) to be used for Lab QC: WO-017-003-24-51 Tag 1169

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: PEST+ARO=CLP Pest + ARO

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	Weston	5/21/15 @ 2100	FedEx	5/21/15 @ 2100	
	FedEx	5/22/2015/838	DATPAC	5/22/2015/838	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773661882440

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-171806-0057
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-001-06-51	F9L70	Soil/ START	Composite	PEST+ARO(21)	1189 (Ice) (2)	017	05/21/2015 11:05	
WO-005-002-24-51	F9L80	Soil/ START	Composite	PEST+ARO(21)	1238 (Ice) (2)	017	05/21/2015 14:40	
WO-005-002-24-52	F9L81	Soil/ START	Composite	PEST+ARO(21)	1243 (Ice) (2)	017	05/21/2015 14:45	
WO-005-004-06-51	F9L82	Soil/ START	Composite	PEST+ARO(21)	1248 (Ice) (2)	017	05/21/2015 15:10	
WO-005-004-24-51	F9L84	Soil/ START	Composite	PEST+ARO(21)	1258 (Ice) (2)	017	05/21/2015 15:15	
WO-005-006-06-51	F9L85	Soil/ START	Composite	PEST+ARO(21)	1263 (Ice) (2)	017	05/21/2015 15:30	
WO-005-006-12-51	F9L86	Soil/ START	Composite	PEST+ARO(21)	1268 (Ice) (2)	017	05/21/2015 15:35	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: PEST+ARO=CLP Pest + ARO

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	[signature] Weston	5/21/15 @ 2100	FedEx	5/21/15 @ 2100	
	FedEx	5/22/2015 838	[signature] DATAC	5/22/2015 838	good

USEPA CLP COC (LAB COPY)

DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773653276760

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-164610-0055

Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-005-001-24-51	F9L72	Soil/ START	Composite	PEST+ARO(21)	1199 (Ice) (2)	017	05/21/2015 11:15	
WO-005-001-24-52	F9L73	Soil/ START	Composite	PEST+ARO(21)	1204 (Ice) (2)	017	05/21/2015 11:20	
WO-005-003-06-51	F9L75	Soil/ START	Composite	PEST+ARO(21)	1213 (Ice) (2)	017	05/21/2015 14:00	
WO-005-003-12-51	F9L76	Soil/ START	Composite	PEST+ARO(21)	1218 (Ice) (4)	017	05/21/2015 14:05	
WO-005-003-24-51	F9L77	Soil/ START	Composite	PEST+ARO(21)	1223 (Ice) (2)	017	05/21/2015 14:10	
WO-005-004-12-51	F9L83	Soil/ START	Composite	PEST+ARO(21)	1253 (Ice) (2)	017	05/21/2015 15:15	

Sample(s) to be used for Lab QC: WO-005-003-12-51 Tag 1218

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: PEST+ARO=CLP Pest + ARO

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sample Analysis	D. Pell Weston	5/21/15 2100	Fed Ex	5/21/15 2100	
	FedEx	5/22/2015 8:38	Meredith Edwards DATAC	5/22/2015 8:38	good

USEPA CLP COC (LAB COPY)
DateShipped: 5/21/2015
CarrierName: FedEx
AirbillNo: 773653342812

CHAIN OF CUSTODY RECORD F9L58

Case #: 45316
Cooler #:

No: 6-052115-105709-0047
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
WO-017-001-06-51	F9L58	Soil/ START	Composite	PEST+ARO(21)	1124 (Ice) (2)	017	05/21/2015 08:20	
WO-017-001-12-51	F9L59	Soil/ START	Composite	PEST+ARO(21)	1129 (Ice) (2)	017	05/21/2015 08:25	
WO-017-002-06-51	F9L60	Soil/ START	Composite	PEST+ARO(21)	1134 (Ice) (2)	017	05/21/2015 08:45	
WO-017-002-12-51	F9L61	Soil/ START	Composite	PEST+ARO(21)	1149 (Ice) (2)	017	05/21/2015 08:50	
WO-017-002-24-51	F9L62	Soil/ START	Composite	PEST+ARO(21)	1144 (Ice) (2)	017	05/21/2015 08:55	
WO-017-003-06-51	F9L63	Soil/ START	Composite	PEST+ARO(21)	1154 (Ice) (2)	017	05/21/2015 09:30	
WO-017-003-12-51	F9L64	Soil/ START	Composite	PEST+ARO(21)	1159 (Ice) (2)	017	05/21/2015 09:35	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: PEST+ARO=CLP Pest + ARO

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples/Analysis	Weston	5/21/15 @ 2100	Fedex	5/21/15 @ 2100	
	Fedex	5/22/2015 838	Meredith Edwards DATAC	5/22/2015 838	good

SAMPLE TAG INFORMATION SHEET

There are no Sample Tags included with this SDG

Notations concerning the location of the Sample Tags are included in Forms DC-1,, DC-2 and in the SDG Administrative Narrative (if it is required).

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 2
Received By (Print Name): Meredith Edwards	Log-In Date: 5/22/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L58
Mod. Ref. No.: n/a	

Remarks:		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9L56	n/a	~~1514293 001~~ 5/22/2015	VOA ME 5/22/2015 Soil Water
	Intact/Broken*	58		1514293001	Soil
2. Custody Seal Nos.	n/a	59		002	
	1	60		003	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	61		004	
4. Airbill	Airbill/Sticker	62		005	
	Present/Absent*	63		006	
5. Airbill No.	7736623590606	64		007	
	n/a	65		008	
6. Sample Tags	Present/Absent*	66		009	
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody	67		012	
7. Sample Condition	Intact/Broken*/Leaking*	68		013	
8. Cooler Temperature Indicator Bottle	Present/Absent*	69		014	
9. Cooler Temperature	2	70		015	
10. Does information on TR/COCs, and sample tags agree?	Yes/No*	71		016	
11. Date Received at Laboratory	5/22/2015	72		017	
12. Time Received	8:38	73		018	
Sample Transfer		75		019	
Fraction: VOA TX / VOA S	Fraction	76			
Area #: Storage2 / Storage3	Area #: ME 5/22/2015	77		020	
By: ME	By	78		021	
On: 5/22/2015	On	79		022	

* Contact SMO and attach record of resolution

Reviewed By: J Helle	Logbook No.: Not Applicable
Date: 5/23/15	Logbook Page No.: Not Applicable

SOM01.2 (6/2014)

01662

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 2 of 2
Received By (Print Name): Meredith Edwards	Log-In Date
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.
Mod. Ref. No.: n/a	

Remarks:		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	FMLS0	n/a		VOA Soil
	Intact/Broken*	81			
2. Custody Seal Nos.	n/a	82			
	1	83			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	84			
4. Airbill	Airbill/Sticker Present/Absent*	85			
		86			
5. Airbill No.	773606235960	87			
	n/a	88			
6. Sample Tags	Present/Absent*	89			
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2°		NE 5/22/2015		
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	5/22/2015				
12. Time Received	838				
Sample Transfer					
Fraction: VOA	Fraction: NE 5/22/2015				
Area #: Storage 3	Area #:				
By: NE	By:				
On: 5/22/2015	On:				

* Contact SMO and attach record of resolution

Reviewed By	Logbook No.: Not Applicable
Date: 5/23/15	Logbook Page No.: Not Applicable

81855

SAMPLE LOG-IN SHEET
FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 5/22/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L58
Mod. Ref. No.: n/a	

Remarks:		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9L58	n/a	1514293001	% Moisture Soil
	Intact/Broken*	59		002	
2. Custody Seal Nos.	n/a	60		003	
		61		004	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	62		005	
4. Airbill	Airbill/Sticker	63		006	
	Present/Absent*	64		007	
5. Airbill No.	773653288329	65		008	
	n/a	66		009	
6. Sample Tags	Present/Absent*	67		012	
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody	68		013	
7. Sample Condition	Intact/Broken*/Leaking*	69		014	
8. Cooler Temperature Indicator Bottle	Present/Absent*	70		015	
9. Cooler Temperature	2°	71		016	
10. Does information on TR/COCs, and sample tags agree?	Yes/No*	72		017	
11. Date Received at Laboratory	5/22/2015	73		018	
12. Time Received	838	75		019	
Sample Transfer		77		020	

Fraction: % moisture	Fraction: ME		ME 5/22/2015		
Area #: R33.1	Area #: 5/22/2015				
By: ME	By:				
On: 5/22/2015	On:				

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/23/15	Logbook Page No.: Not Applicable

01664

SAMPLE LOG-IN SHEET
FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 5/22/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L58
Mod. Ref. No.: Ma	

Remarks:		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9L76	n/a		% Moisture Soil
	Intact/Broken*	78		1514293 021	
2. Custody Seal Nos.	n/a	79		1 022	
	1	80			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	81			
4. Airbill	Airbill/Sticker	82			
	Present/Absent*	83			
5. Airbill No.	7736 6187 8241	84			
	n/a	85			
6. Sample Tags	Present/Absent*	86			
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody	87			
7. Sample Condition	Intact/Broken*/Leaking*	88			
8. Cooler Temperature Indicator Bottle	Present/Absent*	89			
9. Cooler Temperature	2°				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	5/22/2015				
12. Time Received	838				

ALE 5/22/2015

Sample Transfer					
Fraction: % moisture	Fraction				
Area #: R331	Area #: ALE 5/22/2015				
By: ALE	By				
On: 5/22/2015	On				

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/23/15	Logbook Page No.: Not Applicable

SOM01.2 (6/2014)

01665

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 5/22/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L58
Mod. Ref. No.: n/a	

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9L 70	n/a	1514293015	SVOA/SVSVM soil
	Intact/Broken*	72		017	
2. Custody Seal Nos.	n/a	74			water
	1	75		019	soil
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	77		020	
4. Airbill	Airbill/Sticker				
	Present/Absent*				
5. Airbill No.	773653297378				
	n/a				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2°				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	5/22/2015				
12. Time Received	838				

Sample Transfer

Fraction: SVOA/SVSVM	Fraction:
Area #: R331	Area #:
By: ME	By: ME 5/22/2015
On: 5/22/2015	On:

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/23/15	Logbook Page No.: Not Applicable

01666

SAMPLE LOG-IN SHEET
FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 5/22/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L58
Mod. Ref. No.: n/a	

Remarks:		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9L65	n/a	1514293008	SVOA/SVSIM 8011
	Intact/Broken*	66		009	
2. Custody Seal Nos.	n/a	67		012	
		68		013	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	69		014	
4. Airbill	Airbill/Sticker	71		016	
	Present/Absent*	73		018	
5. Airbill No.	773653316333				
	n/a				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2°				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	5/22/2015				
12. Time Received	838				

Sample Transfer

Fraction: SVOA/SVSIM	Fraction:				
Area #: R331	Area #:				
By: [signature]	By:				
On: 5/22/2015	On:				

NE 5/22/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/23/15	Logbook Page No.: Not Applicable

SOM01.2 (6/2014)

SAMPLE LOG-IN SHEET
FORM-DC-1

Lab Name: ALS Laboratory Group			Page 1 of 1
Received By (Print Name): Meredith Edwards			Log-In Date: 5/22/2015
Received By (Signature): Meredith Edwards			
Case Number: 45316	Sample Delivery Group No.: F9L58		Mod. Ref. No.: N/a

Remarks:		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9L78	N/a	1514293021	SVOA/SVSM 8001
	Intact/Broken*	79		1 022	
2. Custody Seal Nos.	N/a	82			
	1	87			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	88			
4. Airbill	Airbill/Sticker	89			
	Present/Absent*				
5. Airbill No.	773661871692				
	N/a				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2°				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	5/22/2015				
12. Time Received	838				

Sample Transfer

Fraction: SVOA/SVSM	Fraction:
Area #: R331	Area #:
By: [signature]	By:
On: 5/22/2015	On:

[signature] 5/22/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/23/15	Logbook Page No.: Not Applicable

SOM01.2 (6/2014)

SAMPLE LOG-IN SHEET
FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 5/22/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L58
Mod. Ref. No.: n/a	

Remarks:		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9L58	n/a	1514293001	SVOA/SVSM Soil
	Intact/Broken*	59		002	
2. Custody Seal Nos.	n/a	60		003	
		61		004	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	62		005	
4. Airbill	Airbill/Sticker	63		006	
	Present/Absent*	64		007	
5. Airbill No.	7736 5332 6724				
	n/a				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2°				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	5/22/2015				
12. Time Received	838				

Sample Transfer	
Fraction: SVOA/SVSM	Fraction:
Area #: D331	Area #:
By: [signature]	By: [signature]
On: 5/22/2015	On: 5/22/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/23/15	Logbook Page No.: Not Applicable

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 5/22/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L58
Mod. Ref. No.: n/a	

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9L 78	n/a	1514293021	PEST/ARO 80%
	Intact/Broken*	79		1 022	
2. Custody Seal Nos.	n/a	87			
	1	88			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	89			
4. Airbill	Airbill/Sticker				
	Present/Absent*				
5. Airbill No.	773661865425				
	n/a				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2°				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	5/22/2015				
12. Time Received	838				

Sample Transfer

Fraction: PEST/ARO	Fraction:
Area #: R33-1	Area #:
By: [signature]	By:
On: 5/22/2015	On:

[signature] 5/22/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/23/15	Logbook Page No.: Not Applicable

SOM01.2 (6/2014)

01670

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 5/22/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L58
Mod. Ref. No.: N/a	

Remarks:		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9L65	N/a	1514293 008	PEST/ARO Soil
	Intact/Broken*	66		009, 010, 011	MS/MSD
2. Custody Seal Nos.	N/a	67		012	
	1	68		013	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	69		014	
4. Airbill	Airbill/Sticker Present/Absent*	71		016	
5. Airbill No.	773653322843				
	N/a				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2°				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	5/22/2015				
12. Time Received	838				

Sample Transfer

Fraction: PEST/ARO	Fraction:
Area #: R331	Area #:
By: MR	By:
On: 5/22/2015	On:

MR 5/22/2015

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/23/15	Logbook Page No.: Not Applicable

SOM01.2 (6/2014)

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date:
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L58
Mod. Ref. No.: n/a	

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9L70	n/a	15142930 15	PEST/ARO Soil
	Intact/Broken*	80			
2. Custody Seal Nos.	n/a	81			
	1	82			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	84			
4. Airbill	Airbill/Sticker Present/Absent*	85			
		86			
5. Airbill No.	772941858244 0				
	n/a				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2°				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	5/22/2015				
12. Time Received	838				

Sample Transfer					
Fraction	PEST/ARO	Fraction			
Area #	L231	Area #			
By	MK	By			
On	5/22/2015	On			

* Contact SMO and attach record of resolution

Reviewed By:	Logbook No.: Not Applicable
Date: 5/23/15	Logbook Page No.: Not Applicable

81572

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 5/22/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: F9L58
Mod. Ref. No.: N/a	

Remarks:		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent*	F9L72	N/a	1514293017	PEST/ARO Soil
	Intact/Broken*	73		018	
2. Custody Seal Nos.	N/a	75		019	
		76			
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	77		020	
4. Airbill	Airbill/Sticker	83			
	Present/Absent*				
5. Airbill No.	773653276760				
	N/a				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2°				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	5/22/2015				
12. Time Received	838				

Sample Transfer

Fraction: PEST/ARO	Fraction:
Area #: R331	Area #:
By: [signature]	By: [signature]
On: 5/22/2015	On:

* Contact SMO and attach record of resolution

Reviewed By: [signature]	Logbook No.: Not Applicable
Date: 5/23/15	Logbook Page No.: Not Applicable

SOM01.2 (6/2014)

SAMPLE LOG-IN SHEET

FORM-DC-1

Lab Name: ALS Laboratory Group	Page 1 of 1
Received By (Print Name): Meredith Edwards	Log-In Date: 5/22/2015
Received By (Signature): Meredith Edwards	
Case Number: 45316	Sample Delivery Group No.: FAL58
	Mod. Ref. No.: N/A

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal (s)	Present/Absent* / Intact/Broken*	FAL58	N/A	15142930581	PEST/ARO SOIL
		59		002	
2. Custody Seal Nos.	N/A	60		003	
		61		004	
3. Traffic Report/ Chain-of Custody Records (TR/COCs) or Packing Lists	Present/Absent*	N/A		005	
4. Airbill	Airbill/Sticker Present/Absent*	63		006	
		64		007	
5. Airbill No.	7136573741812				
	N/A				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/Leaking*				
8. Cooler Temperature Indicator Bottle	Present/Absent*				
9. Cooler Temperature	2°				
10. Does information on TR/COCs, and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	5/22/2015				
12. Time Received	838				

Sample Transfer

Fraction	Fraction
PEST/ARO	N/A 5/22/2015
Area # 1331	Area #
By NE	By
On 5/22/2015	On

* Contact SMO and attach record of resolution

Reviewed By: J. Hall	Logbook No.: Not Applicable
Date: 5/23/15	Logbook Page No.: Not Applicable

: 81674

EPA-CLP CHECKING DOCUMENTATION FORM FOR GC/MS ORGANICS ANALYSIS

Case 45316 SDG F9L58 Fraction VLM

DELIVERABLES CHECK - All forms are present and have been checked for completeness and accuracy. All raw data such as quantitation reports, chromatograms, and spectra are included and are in the correct order.

Signature _____ Date 6.9.15

CCS CHECK - The computer-readable data submitted on diskette has been checked using CCS software provided by EPA. Necessary corrections to the diskette have been made if it is possible to correct the deficiency.

Signature _____ Date 6.9.15

CHEMIST CHECK or PEER REVIEW - Target compounds reported have been verified against the reference spectra. For target compounds which have isomers, the relative retention time has been verified against the relative retention time of the continuing standard. All target compounds present are reported on the Form I and the reported values are correct.

Signature Thomas J. Mason Date 6.11.15

MANAGER CHECK - The data package for the fraction includes all samples submitted for the sample delivery group. All QC requirements of the contract were met with the exception of items specifically mentioned in the narrative. All documents necessary for the case file are included.

Signature Thomas J. Mason Date 6.11.15

DOCUMENT CONTROL CHECK - All documents, forms, and data required for reporting are present and in the correct order. All required miscellaneous data (e.g., Traffic reports, Sample tags, Airbills, etc.) are also included.

Signature Deanne Hall Date 06/11/2015

EPA-CLP CHECKING DOCUMENTATION FORM FOR GC/MS ORGANICS ANALYSIS

Case 45316 SDG F9L58 Fraction SVOA

DELIVERABLES CHECK - All forms are present and have been checked for completeness and accuracy. All raw data such as quantitation reports, chromatograms, and spectra are included and are in the correct order.

Signature [signature] Date 6-11-15

CCS CHECK - The computer-readable data submitted on diskette has been checked using CCS software provided by EPA. Necessary corrections to the diskette have been made if it is possible to correct the deficiency.

Signature [signature] Date 6-11-15

CHEMIST CHECK or PEER REVIEW - Target compounds reported have been verified against the reference spectra. For target compounds which have isomers, the relative retention time has been verified against the relative retention time of the continuing standard. All target compounds present are reported on the Form I and the reported values are correct.

Signature Dustin Calder Date 6-11-15

MANAGER CHECK - The data package for the fraction includes all samples submitted for the sample delivery group. All QC requirements of the contract were met with the exception of items specifically mentioned in the narrative. All documents necessary for the case file are included.

Signature Dustin Calder Date 6-11-15

DOCUMENT CONTROL CHECK - All documents, forms, and data required for reporting are present and in the correct order. All required miscellaneous data (e.g., Traffic reports, Sample tags, Airbills, etc.) are also included.

Signature Dustin Hell Date 06/11/2015

EPA-CLP CHECKING DOCUMENTATION FORM

Case 45316 SDG F9L58 Fraction PEST

DELIVERABLES CHECK - All forms are present and have been checked for completeness and accuracy. All raw data such as quantitation reports and chromatograms are included and are in the correct order.

Signature _____ Date 06/09/15

CCS CHECK – The computer-readable data submitted on diskette has been checked using CCS software provided by EPA. Necessary corrections to the diskette have been made if it is possible to correct the deficiency.

Signature _____ Date 06/09/15

CHEMIST CHECK or PEER REVIEW – The entire data package has been reviewed for completeness and accuracy, including a deliverables check as well as review of the QC data. Target compounds reported have been verified against the retention time windows for both columns. All target compounds present are reported on the Form I and the reported values are correct.

Signature _____ Date 06/09/15

MANAGER CHECK – The data package for the fraction includes all samples submitted for the sample delivery group. All QC requirements of the contract were met with the exception of items specifically mentioned in the narrative. All documents necessary for the case file are included.

Signature _____ Date 06/09/15

DOCUMENT CONTROL CHECK – All documents, forms, and data required for reporting are present and in the correct order. All required miscellaneous data (e.g., Traffic reports, Sample tags, Air bills, etc.) are also included.

Signature Desiree Hell Date 06/11/2015

EPA-CLP CHECKING DOCUMENTATION FORM

Case 45316 SDG F9L57 Fraction AROCLORS

DELIVERABLES CHECK - All forms are present and have been checked for completeness and accuracy. All raw data such as quantitation reports and chromatograms are included and are in the correct order.

Signature _____ Date 06/09/15

CCS CHECK – The computer-readable data submitted on diskette has been checked using CCS software provided by EPA. Necessary corrections to the diskette have been made if it is possible to correct the deficiency.

Signature _____ Date 06/09/15

CHEMIST CHECK or PEER REVIEW – The entire data package has been reviewed for completeness and accuracy, including a deliverables check as well as review of the QC data. Target compounds reported have been verified against the retention time windows for both columns. All target compounds present are reported on the Form I and the reported values are correct.

Signature _____ Date 06/10/15

MANAGER CHECK – The data package for the fraction includes all samples submitted for the sample delivery group. All QC requirements of the contract were met with the exception of items specifically mentioned in the narrative. All documents necessary for the case file are included.

Signature _____ Date 06/10/15

DOCUMENT CONTROL CHECK – All documents, forms, and data required for reporting are present and in the correct order. All required miscellaneous data (e.g., Traffic reports, Sample tags, Air bills, etc.) are also included.

Signature Desiree Hall Date 06/11/2015