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.:	F9L98
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	6	✓	
3. **SDG Cover Sheet/Traffic Report**	n/a		✓	
4. **Trace Volatiles Data**				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II VOA-1 and VOA-2)			✓	
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			✓	

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ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2

CASE NO.	45316	SDG NO.:	F9L98
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)			✓	
[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)			✓	
Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA-1, VOA-2)(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)			✓	
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)				
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			✓	

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ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9L98
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)	7	8	✓	
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)	9	9	✓	
GC/MS Instrument Performance Check (Form V SV)	10	14	✓	
Internal Standard Area and RT Summary (Form VIII SV-1 and SV-2)	15	20	✓	
b. Sample Data	21	873		
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)	874	963		
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	964	978	✓	
Blank Data	979	1000	✓	
MS/MSD Data (if requested by USEPA Region)	n/a		✓	
e. Raw GPC Data	1001	1003	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9L98
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.]	1004	1343	✓	
7. Pesticides Data				
a. QC Summary				
Surrogate Recovery Summary (Form II PEST-1 and PEST-2)	n/a		✓	
Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III PEST-1 and PEST-2)			✓	
Laboratory Control Sample Recovery (Form III Pest-3 and PEST-4)			✓	
Method Blank Summary (Form IV PEST)			✓	
b. Sample Data				
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				
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)			✓	

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ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG No	F9L98
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	n/a		✓	
Matrix Spike/Matrix Spike Duplicate Data			✓	
Laboratory Control Sample Data			✓	
e. Raw GPC Data			✓	
f. Raw Florisil Data			✓	
8. **Aroclor Data**				
a. QC Summary				
Surrogate Recovery Summary (Form II ARO-1 and ARO-2)			✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III ARO-1 and ARO-2)			✓	
Laboratory Control Sample Recovery (Form III ARO-3 and ARO-4)			✓	
Method Blank Summary (Form IV ARO)			✓	
b. Sample Data				
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)			✓	

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

CASE NO.	45316	SDG NO.:	F9L98
SDG NOs. TO FOLLOW	N/A		
MOD. REF. NO.	N/A		

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
c. Standards Data	n/a			
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			✓	
Matrix Spike/Matrix Spike Duplicate Data			✓	
Laboratory Control Sample (LCS) Data			✓	
e. Raw GPC Data (if performed)			✓	
9. Miscellaneous Data				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	1344	1352	✓	
Internal sample and sample extract transfer chain-of-custody records	n/a		✓	
Screening records			✓	
All instrument output, including strip charts from screening activities (describe or list)				
Method Check/QC Reports/LCS			✓	
Percent Solids Determinations			✓	
10. EPA Shipping/Receiving Documents				
Airbills (no. of shipments _____)			✓	
Chain of Custody Records (Copies)			✓	
Sample Tags	1353	1353	✓	
Sample Log-in Sheet (Lab & DC-1)	n/a		✓	
Miscellaneous Shipping/Receiving Records (describe or list)				
DCL Cooler Receipt Checklist	NA		✓	
DCL Sample Work Orders	NA		✓	

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ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2 (CON'T)

CASE NO.	45316	SDG NO.:	F9L98
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	1354	1354	✓	
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)	7/17/15 (Date)
Verified by: (CLP Lab)	Roxanne Olson (Signature)	Roxanne Olson/Manager (Printed Name/Title)	7/17/15 (Date)
Audited by: (USEPA)	(Signature)	(Printed Name/Title)	(Date)

960 W. LeVoy Drive
Salt Lake City, UT 84123
T: +1 801 266 7700
F: +1 801 268 9992
www.alsglobal.com

SDG Administrative Narrative

Contract: EPW11037

Case: 45316

SDG: F9L98

WO No(s):

Cooler # and Temperatures of each (upon receipt)

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

07/17/2015
DH

Communications:

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

Comments:

None

Signature: Denise Hill
Document Control Officer

Date: 07/17/2015

SDG Narrative
Semivolatiles Fraction

Contract Number: EPW11037
Case Number: 45316
SDG Number: F9L98
SOW Number: SOM01.2
Laboratory Name: ALS Environmental

Sample Number	ALS Sample ID	Dilution	Fraction
EPA ID	Lab ID	Dilution	Fraction
F9L98	1515375001	10	SVOA
F9L98	1515375001	40	SVOA SIM
F9L99	1515375004	10	SVOA
F9L99	1515375004	40	SVOA SIM
F9M00	1515375005	10	SVOA
F9M00	1515375005	50	SVOA SIM
F9M01	1515375006	10	SVOA
F9M01	1515375006	40	SVOA SIM
F9M02	1515375007	10	SVOA
F9M02	1515375007	50	SVOA SIM
F9M03	1515375008	10	SVOA
F9M03	1515375008	30	SVOA SIM
F9M04	1515375009	2	SVOA
F9M04	1515375009	10	SVOA SIM
F9M05	1515375010	4	SVOA
F9M05	1515375010	10	SVOA SIM
F9M06	1515375011	10	SVOA
F9M06	1515375011	50	SVOA SIM
F9M07	1515375012	10	SVOA
F9M07	1515375012	20	SVOA SIM
F9M08	1515375013	4	SVOA
F9M08	1515375013	10	SVOA SIM
F9M09	1515375014	10	SVOA
F9M09	1515375014	30	SVOA SIM
F9M10	1515375015	20	SVOA
F9M10	1515375015	100	SVOA SIM
F9M11	1515375016	10	SVOA
F9M11	1515375016	50	SVOA SIM
F9M12	1515375017	10	SVOA
F9M12	1515375017	50	SVOA SIM
F9M13	1515375018	10	SVOA
F9M13	1515375018	30	SVOA SIM
F9M14	1515375019	10	SVOA
F9M14	1515375019	10	SVOA SIM
F9M17	1515375020	10	SVOA
F9M17	1515375020	10	SVOA SIM
F9M18	1515375021		SVOA
F9M18	1515375021	2	SVOA SIM
F9M19	1515375022		SVOA
F9M19	1515375022		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. As per EPA Region 6, selected samples were reanalyzed at lesser dilutions for full scan and SIM. Samples were reanalyzed out of holding time.

Instrumentation: Agilent GC/MS system (ID 5975-G for full scan, 5975-D for SIM)
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. The ampules were prepared as per the included instructions.

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. The compounds that the ending failed for are known problem analytes as noted with the advisory limits set forth in the new EPA SOW for ending calibration standards. Knowing that these analytes often fail and with the documentation of this problem in the new SOW, no reanalysis was performed. Sample color ranged from light brown to dark brown.

Blank Analysis: The extraction blank met method criteria for the SIM analysis and for full scan.

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

MS/MSD Analysis: An MS/MSD analysis was not requested for this SDG.

Dilutions: Any dilutions noted above were needed to bring analyte concentrations within the range of the curve or to protect the integrity of the instrument.

Miscellaneous Comments: 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 D Section 11.2.1.2 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: 1,4-Dioxane and 1,4-Dioxane-d8 are split peaks and need to be manually integrated. 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. 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 dibenz(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-stop	
SSTD040GX	Caprolactam	812	841
SSTD080GX	Caprolactam	814	850
SSTD020GN	Benzo(b)fluoranthene	2582	2599
SSTD020N1	Indeno(1,2,3-c,d)pyrene	3145	3176
F9L98	Benzo(b)fluoranthene	2581	2597
F9L99	Benzo(k)fluoranthene	2598	2609
F9M00	Benzo(k)fluoranthene	2598	2609
F9M01	Benzo(b)fluoranthene	2586	2599
F9M02	Benzo(k)fluoranthene	2598	2608
F9M02	Dibenzo(a,h)anthrecene	3166	3187
F9M02	Benzo(k)fluoranthene	2625	2633
F9M03	Benzo(b)fluoranthene	2585	2598
F9M03	Benzo(a)pyrene	2690	2704
F9M04	Phenol-d5	403	417
F9M05	Phenol-d5	405	417
F9M06	Benzo(b)fluoranthene	2586	2600
F9M07	Phenol-d5	417	427
F9M07	Benzo(b)fluoranthene	2311	2320
F9M07	Benzo(k)fluoranthene	2320	2331
F9M08	Chrysene	2319	2330
F9M09	Benzo(k)fluoranthene	2599	2607
F9M09	Benzo(a)pyrene	2691	2704
F9M10	Benzo(b)fluoranthene	2587	2601
F9M10	Benzo(a)pyrene	2692	2707
F9M11	Naphthalene	711	719
F9M11	Benzo(b)fluoranthene	2588	2600
F9M11	Benzo(k)fluoranthene	2600	2607
F9M11	Indeno(1,2,3-c,d)pyrene	3158	3190
F9M12	Naphthalene	710	719
F9M12	Benzo(b)fluoranthene	2586	2600
F9M13	Benzo(b)fluoranthene	2599	2607
F9M18	Benzo(a)pyrene	2691	2705

For SIM analysis:

Sample	Analyte	Scan start-stop	
SSTD0.4DL	Naphthalene-d8	141	159
SSTD0.4DL	Naphthalene	145	162
SSTD0.4DL	2Methylnaphthalene	337	355
SSTD0.4DL	Chrysene-d12	2023	2042
SSTD0.4DL	Pyrene	1692	1710
SSTD0.4DL	Benzo(a)anthracene	2018	2035
SSTD0.4DL	Chrysene	2035	2049
F9L98	Fluoranthene-d10	1615	1626
F9L98	Benzo(b)fluoranthene	2344	2359
F9L98	Benzo(k)fluoranthene	2359	2367
F9L99	Benzo(k)fluoranthene	2358	2368
F9M00	Benzo(k)fluoranthene	2358	2367
F9M01	Fluoranthene-d10	1615	1626
F9M01	Benzo(b)fluoranthene	2343	2359
F9M01	Benzo(k)fluoranthene	2359	2368
F9M02	Benzo(k)fluoranthene	2358	2368
F9M03	Benzo(k)fluoranthene	2359	2367
F9M04	Anthracene	1242	1252
F9M04	Benzo(b)fluoranthene	2344	2358
F9M05	Naphthalene	199	208
F9M05	Pyrene	1738	1748
F9M05	Benzo(b)fluoranthene	2406	2425
F9M06	Benzo(b)fluoranthene	2344	2359
F9M06	Benzo(k)fluoranthene	2359	2368
F9M07	Naphthalene	150	160
F9M07	Benzo(b)fluoranthene	2346	2361
F9M08	Benzo(b)fluoranthene	2408	2426
F9M09	Benzo(k)fluoranthene	2359	2367
F9M10	Naphthalene	151	159
F9M10	Benzo(b)fluoranthene	2344	2360
F9M10	Benzo(k)fluoranthene	2360	2368
F9M11	Naphthalene	150	159
F9M11	Fluoranthene-d10	1616	1627
F9M11	Benzo(b)fluoranthene	2344	2360
F9M11	Benzo(k)fluoranthene	2360	2369
F9M12	Naphthalene	150	160
F9M12	Benzo(b)fluoranthene	2343	2359
F9M12	Benzo(k)fluoranthene	2359	2368
F9M13	Benzo(k)fluoranthene	2358	2367
F9M14	Benzo(b)fluoranthene	2344	2359
F9M14	Benzo(k)fluoranthene	2359	2370
F9M18	Benzo(k)fluoranthene	2359	2371
F9M19	Anthracene	1244	1251

F9M19	Benzo(k)fluoranthene	2359	2368
F9M02DL	Benzo(k)fluoranthene	2359	2368
F9M07DL	Naphthalene	150	160
F9M07DL	Benzo(b)fluoranthene	2346	2360
F9M12DL	Benzo(b)fluoranthene	2344	2359
F9M12DL	Benzo(k)fluoranthene	2359	2368

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.

July 17, 2015

Steven Yourstone
Chemist
Semivolatile Organic Analysis Section

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.: F9L98

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	F9L98	42	63	65	18	73	74	63	0 D
02	F9L99	45	66	70	24	75	73	68	0 D
03	F9M00	37	65	68	20	74	76	65	0 D
04	F9M01	41	75	86	65	86	86	85	0 D
05	F9M02	46	77	83	54	85	86	90	0 D
06	F9M03	30	64	65	24	70	70	70	0 D
07	F9M04	66	59	66	49	66	70	69	6
08	F9M05	59	53	60	44	63	64	62	10
09	F9M06	19	66	73	58	73	75	76	14
10	F9M07	67	105 D	78	48	89	81	79	99
11	F9M08	63	67	64	43	70	64	74	24
12	F9M09	25	62	70	41	71	71	78	15
13	F9M10	13 D	100 D	53	61	99	53	63	520 D
14	F9M11	20	100 D	79	65	99	80	84	177 D
15	F9M12	25	123 D	76	49	92	74	82	97
16	F9M13	27	65	74	22	73	71	80	12
17	F9M14	61	62	69	19	74	69	71	7
18	F9M17	10 D	39	37	1 D	50	49	39	3
19	F9M18	46	46	52	2 *	55	54	62	0 *
20	F9M19	29	30	36	1 *	40	36	49	1 *
21	SBLK65	70	69	76	43	80	82	75	3
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.: F9L98

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	F9L98	91	84	0 D	90	60	86	91	84	0
02	F9L99	87	83	0 D	88	47	85	85	77	0
03	F9M00	86	81	0 D	89	40	84	86	78	0
04	F9M01	98	94	0 D	101	43	95	93	94	0
05	F9M02	100	97	0 D	97	39	99 D	102	95	0
06	F9M03	86	83	0 D	90	29	86	90	86	0
07	F9M04	79	72	73	78	56	73	78	72	0
08	F9M05	77	67	56	78	49	75	76	74	0
09	F9M06	91	88	1 D	94	33	91	87	85	0
10	F9M07	100	93	7 D	103	37	98	95	93	0
11	F9M08	88	78	79	89	17	84	88	85	0
12	F9M09	92	85	5 D	95	13	88	87	86	0
13	F9M10	65	67	14 D	74	45	71	72	69	0
14	F9M11	94	90	7 D	101	22	94	98	92	0
15	F9M12	96	89	5 D	96	8	93	97	95	0
16	F9M13	97	90	1 D	97	7	95	101	93	0
17	F9M14	94	86	1 D	92	7	87	93	85	0
18	F9M17	71	61	0 D	70	7	63	69	56	0
19	F9M18	73	66	69	74	10	61	74	56	2
20	F9M19	61	55	38	64	9	54	65	48	2
21	SBLK65	95	86	96	92	97	94	101	101	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.: SBLK65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Lab File ID: GBG02BLK Lab Sample ID: 449965

Instrument ID: 5975-G Date Extracted: 06/04/2015

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/09/2015

Level: (LOW/MED) LOW Time Analyzed: 10:25

Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9L98	1515375001	GCN02F01	07/07/2015
02	F9L99	1515375004	GCN03F04	07/07/2015
03	F9M00	1515375005	GCN04F05	07/07/2015
04	F9M01	1515375006	GCN05F06	07/07/2015
05	F9M02	1515375007	GCN06F07	07/07/2015
06	F9M03	1515375008	GCN07F08	07/07/2015
07	F9M04	1515375009	GC002F09	07/08/2015
08	F9M05	1515375010	GC003F10	07/08/2015
09	F9M06	1515375011	GC004F11	07/08/2015
10	F9M07	1515375012	GC005F12	07/08/2015
11	F9M08	1515375013	GC006F13	07/08/2015
12	F9M09	1515375014	GC007F14	07/08/2015
13	F9M10	1515375015	GC008F15	07/08/2015
14	F9M11	1515375016	GC009F16	07/08/2015
15	F9M12	1515375017	GC010F17	07/08/2015
16	F9M13	1515375018	GC011F18	07/08/2015
17	F9M14	1515375019	GC012F19	07/08/2015
18	F9M17	1515375020	GC013F20	07/08/2015
19	F9M18	1515375021	GC014F21	07/08/2015
20	F9M19	1515375022	GC015F22	07/08/2015
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.: F9L98

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					
09					
10					
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12					
13					
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21					

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: DFTPPGG

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Lab File ID: GBG01S20 DFTPP Injection Date: 06/09/2015

Instrument ID: 5975-G DFTPP Injection Time: 09:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.8
68	Less than 2.0% of mass 69	0.7 (2.0) 1
69	Mass 69 relative abundance	36.0
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.5
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	25.6
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than mass 443	13.2
442	50.0 - 100% of mass 198	89.7
443	15.0 - 24.0% of mass 442	17.1 (19.0) 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	SSTD020GG	SSTD020GG	GBG01S20	06/09/2015	09:41
02	SBLK65	449965	GBG02BLK	06/09/2015	10:25
03	SSTD020G1	SSTD020G1	GBG10S20	06/09/2015	14:53
04					
05					
06					
07					
08					
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16					
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19					
20					
21					

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.

DFTPPGT

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Lab File ID: GBV01S20 DFTPP Injection Date: 06/20/2015

Instrument ID: 5975-G DFTPP Injection Time: 10:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	60.6
68	Less than 2.0% of mass 69	0.6 (1.3) 1
69	Mass 69 relative abundance	47.2
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	46.8
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	18.8
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than mass 443	8.7
442	50.0 - 100% of mass 198	56.9
443	15.0 - 24.0% of mass 442	10.8 (19.0) 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	SSTD005GV	SSTD005GV	GBV03S05	06/20/2015	11:10
02	SSTD010GV	SSTD010GV	GBV04S10	06/20/2015	11:43
03	SSTD020GV	SSTD020GV	GBV05S20	06/20/2015	12:16
04	SSTD040GV	SSTD040GV	GBV06S40	06/20/2015	12:49
05	SSTD080GV	SSTD080GV	GBV07S80	06/20/2015	13:22
06					
07					
08					
09					
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18					
19					
20					
21					

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: DFTPPGN

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Lab File ID: GCN01S20 DFTPP Injection Date: 07/07/2015

Instrument ID: 5975-G DFTPP Injection Time: 14:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	67.5
68	Less than 2.0% of mass 69	0.5 (1.1) 1
69	Mass 69 relative abundance	48.5
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	47.0
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	18.7
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than mass 443	8.7
442	50.0 - 100% of mass 198	54.1
443	15.0 - 24.0% of mass 442	10.7 (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	SSTD020GN	SSTD020GN	GCN01S20	07/07/2015	14:43
02	F9L98	1515375001	GCN02F01	07/07/2015	15:15
03	F9L99	1515375004	GCN03F04	07/07/2015	15:48
04	F9M00	1515375005	GCN04F05	07/07/2015	16:21
05	F9M01	1515375006	GCN05F06	07/07/2015	16:54
06	F9M02	1515375007	GCN06F07	07/07/2015	17:26
07	F9M03	1515375008	GCN07F08	07/07/2015	17:59
08	SSTD020N1	SSTD020N1	GCN08S20	07/07/2015	18:32
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

5B - FORM V SV
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.: DFTPPGO

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Lab File ID: GC001S20 DFTPP Injection Date: 07/08/2015

Instrument ID: 5975-G DFTPP Injection Time: 08:11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	67.8
68	Less than 2.0% of mass 69	0.7 (1.4) 1
69	Mass 69 relative abundance	48.8
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	47.1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	19.0
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than mass 443	8.8
442	50.0 - 100% of mass 198	55.8
443	15.0 - 24.0% of mass 442	10.7 (19.1) 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	SSTD020GO	SSTD020GO	GC001S20	07/08/2015	08:11
02	F9M04	1515375009	GC002F09	07/08/2015	08:43
03	F9M05	1515375010	GC003F10	07/08/2015	09:17
04	F9M06	1515375011	GC004F11	07/08/2015	09:50
05	F9M07	1515375012	GC005F12	07/08/2015	10:23
06	F9M08	1515375013	GC006F13	07/08/2015	10:56
07	F9M09	1515375014	GC007F14	07/08/2015	11:30
08	F9M10	1515375015	GC008F15	07/08/2015	12:03
09	F9M11	1515375016	GC009F16	07/08/2015	12:35
10	F9M12	1515375017	GC010F17	07/08/2015	13:08
11	F9M13	1515375018	GC011F18	07/08/2015	13:42
12	F9M14	1515375019	GC012F19	07/08/2015	14:14
13	F9M17	1515375020	GC013F20	07/08/2015	14:47
14	F9M18	1515375021	GC014F21	07/08/2015	15:20
15	F9M19	1515375022	GC015F22	07/08/2015	15:54
16	SSTD02001	SSTD02001	GC016S20	07/08/2015	16:27
17					
18					
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.: F9L98

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GG Date Analyzed: 06/09/2015

Lab File ID (Standard): GBG01S20 Time Analyzed: 09:41

Instrument ID: 5975-G

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	321173	4.96	1187363	6.37	661049	9.02
	UPPER LIMIT	642346	5.46	2374726	6.87	1322098	9.52
	LOWER LIMIT	160587	4.46	593682	5.87	330525	8.52
	EPA SAMPLE NO.						
01	SBLK65	337273	4.96	1274619	6.37	721445	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.: F9L98

EPA Sample No.(SSTD020##): SSTD020GG Date Analyzed: 06/09/2015

Lab File ID (Standard): GBG01S20 Time Analyzed: 09:41

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	1080027	11.66	1039220	15.84	1020606	18.26
	UPPER LIMIT	2160054	12.16	2078440	16.34	2041212	18.76
	LOWER LIMIT	540014	11.16	519610	15.34	510303	17.76
	EPA SAMPLE NO.						
01	SBLK65	1191573	11.66	1154951	15.83	1120640	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.: F9L98

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GN Date Analyzed: 07/07/2015

Lab File ID (Standard): GCN01S20 Time Analyzed: 14:43

Instrument ID: 5975-G

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	325237	4.87	1270588	6.27	736346	8.90
	UPPER LIMIT	650474	5.37	2541176	6.77	1472692	9.40
	LOWER LIMIT	162619	4.37	635294	5.77	368173	8.40
	EPA SAMPLE NO.						
01	F9L98	309313	4.87	1173931	6.26	697381	8.89
02	F9L99	330141	4.87	1280379	6.26	773338	8.89
03	F9M00	319465	4.87	1215096	6.26	727528	8.89
04	F9M01	295232	4.87	1157038	6.26	695633	8.89
05	F9M02	323413	4.87	1209139	6.26	727876	8.89
06	F9M03	300793	4.87	1133692	6.26	680819	8.89
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.: F9L98

EPA Sample No.(SSTD020##): SSTD020GN Date Analyzed: 07/07/2015

Lab File ID (Standard): GCN01S20 Time Analyzed: 14:43

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	1264476	11.52	1249905	15.73	1085532	18.08
	UPPER LIMIT	2528952	12.02	2499810	16.23	2171064	18.58
	LOWER LIMIT	632238	11.02	624953	15.23	542766	17.58
	EPA SAMPLE NO.						
01	F9L98	1192650	11.52	1204043	15.72	1039806	18.07
02	F9L99	1286638	11.52	1265545	15.72	1104500	18.07
03	F9M00	1227953	11.52	1245381	15.72	1075469	18.07
04	F9M01	1191692	11.52	1140904	15.73	842995	18.07
05	F9M02	1207783	11.52	1177695	15.73	775914	18.07
06	F9M03	1157806	11.52	1137623	15.73	860178	18.07
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.: F9L98

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020G0 Date Analyzed: 07/08/2015

Lab File ID (Standard): GC001S20 Time Analyzed: 08:11

Instrument ID: 5975-G

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	376995	4.87	1417420	6.27	811566	8.90
	UPPER LIMIT	753990	5.37	2834840	6.77	1623132	9.40
	LOWER LIMIT	188498	4.37	708710	5.77	405783	8.40
	EPA SAMPLE NO.						
01	F9M04	345512	4.87	1298240	6.26	749383	8.89
02	F9M05	318492	4.87	1148916	6.26	660246	8.89
03	F9M06	308429	4.87	1171343	6.26	688825	8.89
04	F9M07	342487	4.87	1283681	6.27	766734	8.90
05	F9M08	323500	4.87	1195883	6.26	715969	8.89
06	F9M09	329693	4.87	1285284	6.26	769996	8.89
07	F9M10	339265	4.87	1209419	6.27	717877	8.90
08	F9M11	356949	4.87	1286057	6.27	786170	8.90
09	F9M12	333976	4.87	1263943	6.26	749529	8.89
10	F9M13	319000	4.87	1227248	6.26	748091	8.89
11	F9M14	327836	4.87	1221709	6.26	747077	8.89
12	F9M17	330224	4.87	1288234	6.26	788643	8.89
13	F9M18	335660	4.87	1321565	6.26	797427	8.89
14	F9M19	346531	4.87	1303843	6.26	778078	8.89
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.: F9L98

EPA Sample No.(SSTD020##): SSTD020G0 Date Analyzed: 07/08/2015

Lab File ID (Standard): GC001S20 Time Analyzed: 08:11

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	1355063	11.52	1384777	15.73	1185014	18.08
	UPPER LIMIT	2710126	12.02	2769554	16.23	2370028	18.58
	LOWER LIMIT	677532	11.02	692389	15.23	592507	17.58
	EPA SAMPLE NO.						
01	F9M04	1250049	11.52	1283811	15.73	1138299	18.07
02	F9M05	1112120	11.52	1171938	15.73	1038498	18.08
03	F9M06	1198523	11.52	1186470	15.73	768918	18.08
04	F9M07	1332132	11.53	1356782	15.74	884195	18.10
05	F9M08	1237794	11.52	1253630	15.73	937274	18.08
06	F9M09	1345245	11.52	1343511	15.73	873730	18.07
07	F9M10	1254956	11.52	1224726	15.73	832609	18.08
08	F9M11	1359119	11.52	1281259	15.73	682166	18.09
09	F9M12	1282687	11.52	1220704	15.73	708017	18.07
10	F9M13	1283462	11.52	1190999	15.73	649225	18.07
11	F9M14	1265871	11.52	1203804	15.73	695906	18.07
12	F9M17	1350953	11.52	1283437	15.73	776910	18.07
13	F9M18	1365987	11.52	1236125	15.73	650623	18.07
14	F9M19	1314479	11.52	1183685	15.73	650379	18.07
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.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

F9L98

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375001

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCN02F01

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	2100	U
108-95-2	Phenol	2100	U
111-44-4	Bis(2-chloroethyl)ether	2100	U
95-57-8	2-Chlorophenol	2100	U
95-48-7	2-Methylphenol	2100	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2100	U
98-86-2	Acetophenone	2100	U
106-44-5	4-Methylphenol	2100	U
621-64-7	N-Nitroso-di-n-propylamine	2100	U
67-72-1	Hexachloroethane	2100	U
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	U
88-75-5	2-Nitrophenol	2100	U
105-67-9	2,4-Dimethylphenol	2100	U
111-91-1	Bis(2-chloroethoxy)methane	2100	U
120-83-2	2,4-Dichlorophenol	2100	U
91-20-3	Naphthalene	2100	U
106-47-8	4-Chloroaniline	2100	U
87-68-3	Hexachlorobutadiene	2100	U
105-60-2	Caprolactam	2100	U
59-50-7	4-Chloro-3-methylphenol	2100	U
91-57-6	2-Methylnaphthalene	2100	U
77-47-4	Hexachlorocyclopentadiene	2100	U
88-06-2	2,4,6-Trichlorophenol	2100	U
95-95-4	2,4,5-Trichlorophenol	2100	U
92-52-4	1,1'-Biphenyl	2100	U
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	4100	U
131-11-3	Dimethylphthalate	2100	U
606-20-2	2,6-Dinitrotoluene	2100	U
208-96-8	Acenaphthylene	2100	U
99-09-2	3-Nitroaniline	4100	U
83-32-9	Acenaphthene	2100	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9L98

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375001
Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCN02F01
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 21. Decanted: (Y/N) N Date Received: 06/02/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015
GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	4100	U
100-02-7	4-Nitrophenol	4100	U
132-64-9	Dibenzofuran	2100	U
121-14-2	2,4-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	2100	U
86-73-7	Fluorene	2100	U
7005-72-3	4-Chlorophenyl-phenylether	2100	U
100-01-6	4-Nitroaniline	4100	U
534-52-1	4,6-Dinitro-2-methylphenol	4100	U
86-30-6	N-Nitrosodiphenylamine[1]	2100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2100	U
101-55-3	4-Bromophenyl-phenylether	2100	U
118-74-1	Hexachlorobenzene	2100	U
1912-24-9	Atrazine	2100	U
87-86-5	Pentachlorophenol	4100	U
85-01-8	Phenanthrene	1300	J
120-12-7	Anthracene	2100	U
86-74-8	Carbazole	2100	U
84-74-2	Di-n-butylphthalate	2100	U
206-44-0	Fluoranthene	270	J
129-00-0	Pyrene	1100	J
85-68-7	Butylbenzylphthalate	2100	U
91-94-1	3,3'-Dichlorobenzidine	2100	U
56-55-3	Benzo(a)anthracene	670	J
218-01-9	Chrysene	1300	J
117-81-7	Bis(2-ethylhexyl)phthalate	2100	U
117-84-0	Di-n-octylphthalate	2100	U
205-99-2	Benzo(b)fluoranthene	400	J
207-08-9	Benzo(k)fluoranthene	2100	U
50-32-8	Benzo(a)pyrene	450	J
193-39-5	Indeno(1,2,3-cd)pyrene	210	J
53-70-3	Dibenzo(a,h)anthracene	2100	U
191-24-2	Benzo(g,h,i)perylene	380	J
58-90-2	2,3,4,6-Tetrachlorophenol	2100	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC -
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

F9L98

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375001

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCN02F01

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015

GPC Cleanup: (Y/N) Y pH: 7.3 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-	3.48	12000	JB
02		Unknown 1H-Pyrrole-2,5-dione	4.28	1500	J
03		Unknown Nonanal	5.48	960	J
04		Unknown Hexanamide	10.35	1200	J
05	2531-84-2	Phenanthrene, 2-methyl-	12.45	840	JN
06	2531-84-2	Phenanthrene, 2-methyl-	12.50	1300	JN
07	638-58-4	Tetradecanamide	12.76	1700	JN
08	1120-16-7	Dodecanamide	14.15	5000	JN
09	301-02-0	9-Octadecenamide, (Z)-	15.08	32000	JNB
10	1120-16-7	Dodecanamide	15.17	1800	JN
11	638-58-4	Tetradecanamide	15.86	1500	JN
12	301-02-0	9-Octadecenamide, (Z)-	15.93	2400	JNB
13		Unknown 9-Octadecenamide, (Z)-	16.04	1200	JB
14		Unknown cis-Cyclohexane-1,3-dicarboxamide	16.20	2900	J
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	2700	J

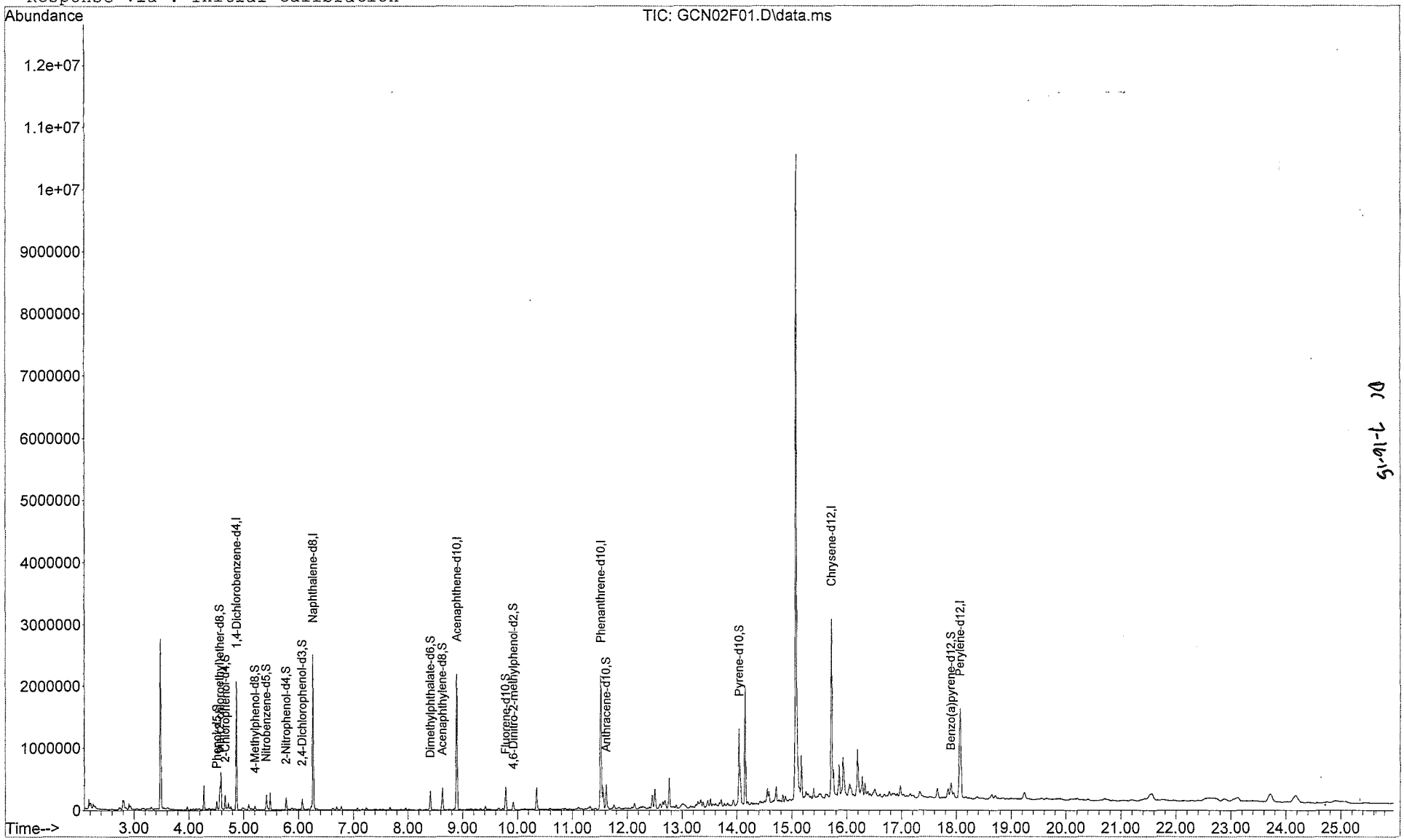
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 16 08:11:13 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration



JC 7-16-15

Quantitation Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 08:11:13 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	309313	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1173931	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	697381	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1192650	20.00 ug/ml
73) Chrysene-d12	15.72	240	1204043	20.00 ug/ml
81) Perylene-d12	18.07	264	1039806	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	45579	1.693ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	53105	2.532ug/mL
7) 2-Chlorophenol-d4	4.66	132	58974	2.595ug/ml
13) 4-Methylphenol-d8	5.20	113	12785	0.710ug/mL
17) Nitrobenzene-d5	5.42	128	30005	2.910ug/ml
21) 2-Nitrophenol-d4	5.77	143	32211	2.955ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	42521	2.505ug/mL
28) 4-Chloroaniline-d4	6.33	131	4635	0.250ug/mL
42) Dimethylphthalate-d6	8.41	166	159463	3.647ug/mL
45) Acenaphthylene-d8	8.63	160	199558	3.358ug/mL
50) 4-Nitrophenol-d4	9.15	143	1071	0.120ug/mL
57) Fluorene-d10	9.78	176	134576	3.604ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	20427	2.413ug/mL
69) Anthracene-d10	11.62	188	217826	3.444ug/mL
75) Pyrene-d10	14.03	212	218268	3.633ug/mL
86) Benzo(a)pyrene-d12	17.90	264	167931	3.370ug/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

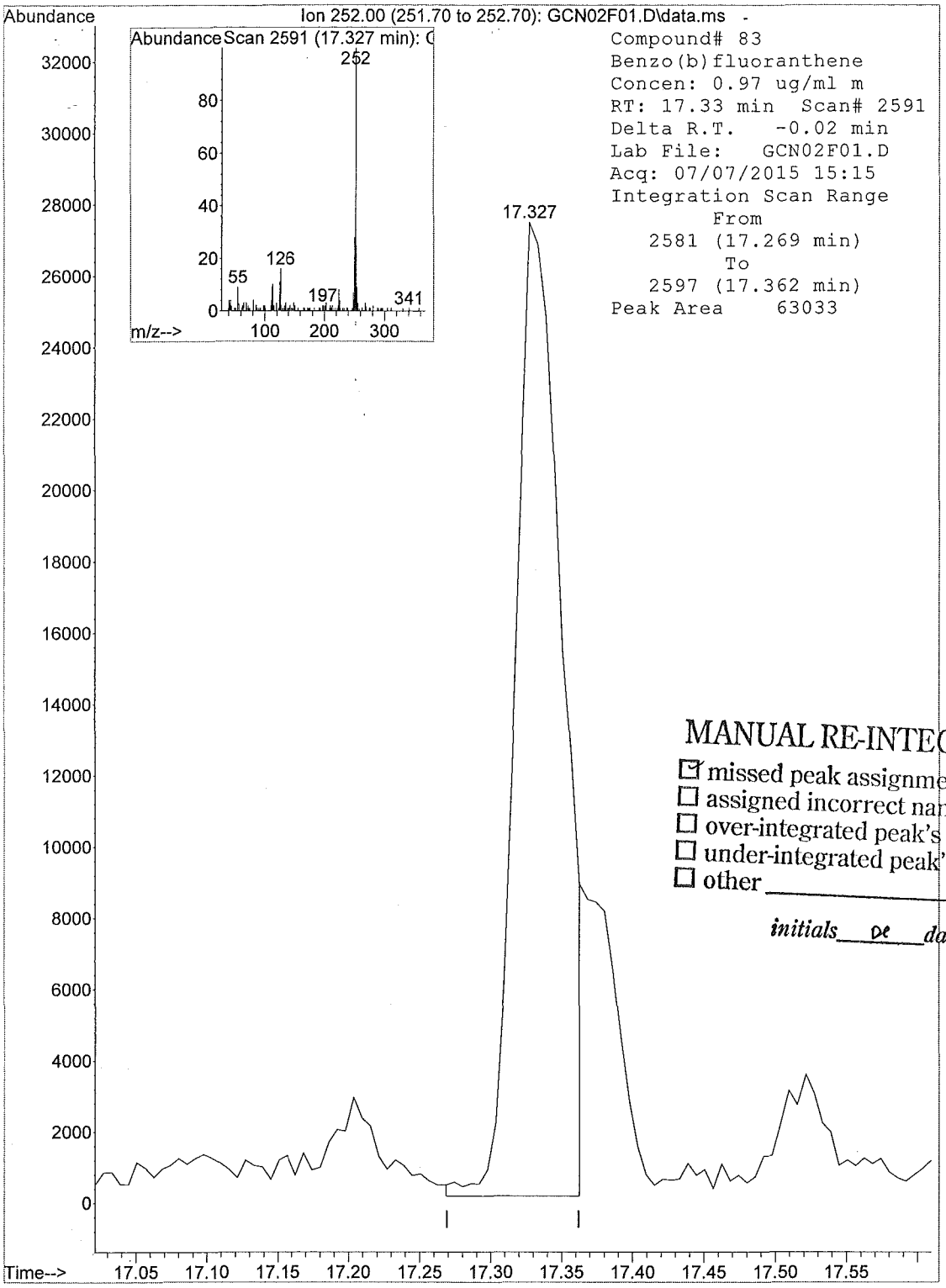
Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 08:11:13 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 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	11.56	178	193945	3.049ug/ml	99
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	13.71	202	44981	0.642ug/ml	99
74)	Pyrene	14.06	202	196621	2.565ug/ml	95
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.71	228	117080	1.603ug/ml	85
79)	Chrysene	15.76	228	210200	3.187ug/ml	92
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.33	252	63033	0.968ug/ml m	94
84)	Benzo(k)fluoranthene	0.00	252		Not Detected DC 7-16-15	
85)	Benzo(a)pyrene	17.95	252	65690	1.072ug/ml	98
87)	Indeno(1,2,3-c,d)pyrene	20.70	276	27433	0.506ug/ml	90
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	21.52	276	48614	0.911ug/ml	72

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

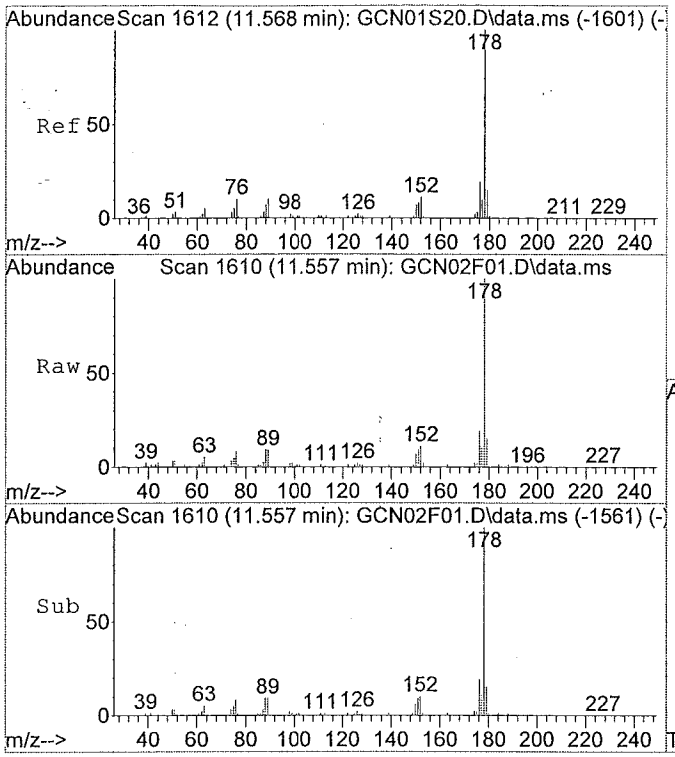
M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

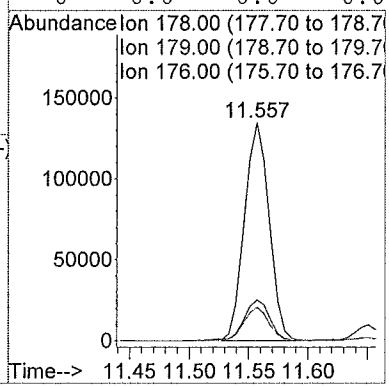
initials DE *date* 7-16-15

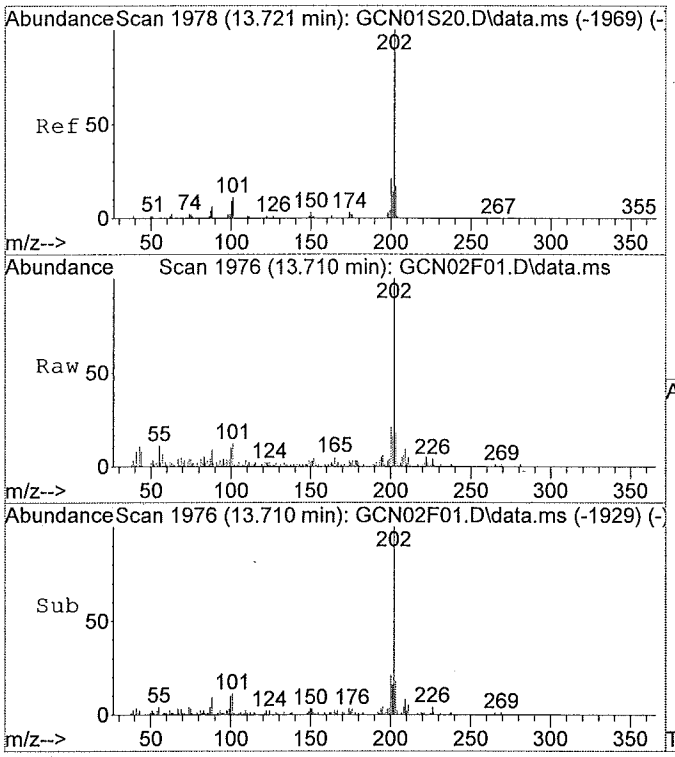


#67
Phenanthrene
Concen: 3.05 ug/ml
RT: 11.56 min Scan# 1610
Delta R.T. -0.01 min
Lab File: GCN02F01.D
Acq: 07/07/2015 15:15

Tgt Ion:178 Resp: 193945

Ion	Ratio	Lower	Upper
178	100		
179	15.8	10.6	19.8
176	19.0	13.2	24.4
0	0.0	0.0	0.0

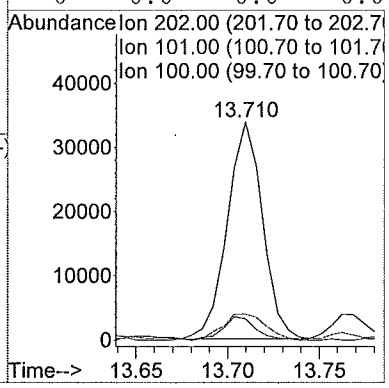


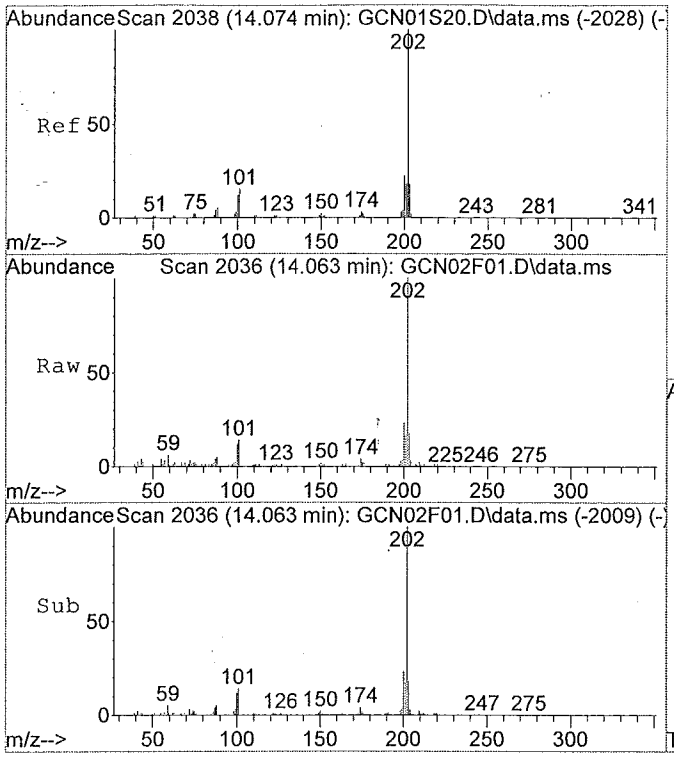


#72
Fluoranthene
Concen: 0.64 ug/ml
RT: 13.71 min Scan# 1976
Delta R.T. -0.01 min
Lab File: GCN02F01.D
Acq: 07/07/2015 15:15

Tgt Ion:202 Resp: 44981

Ion	Ratio	Lower	Upper
202	100		
101	14.9	10.5	19.5
100	10.2	7.4	13.8
0	0.0	0.0	0.0

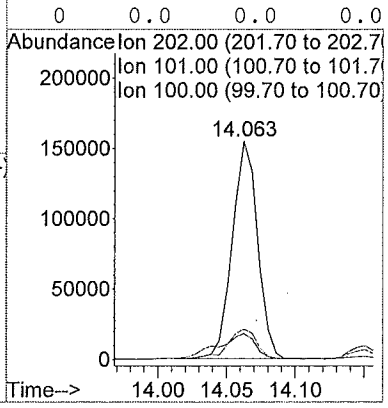


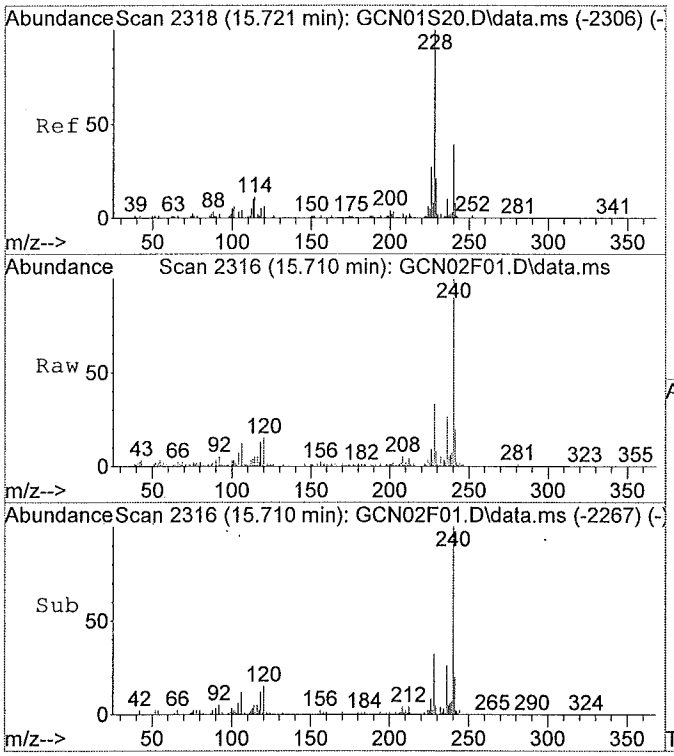


#74
Pyrene
Concen: 2.57 ug/ml
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: GCN02F01.D
Acq: 07/07/2015 15:15

Tgt Ion:202 Resp: 196621

Ion	Ratio	Lower	Upper
202	100		
101	17.7	12.2	22.7
100	18.6	10.1	18.7
0	0.0	0.0	0.0

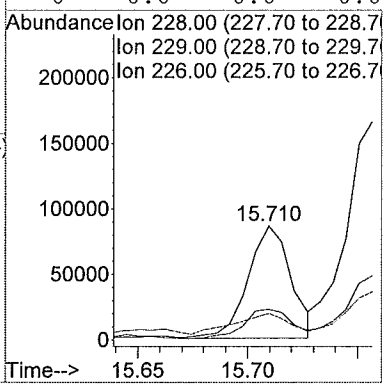


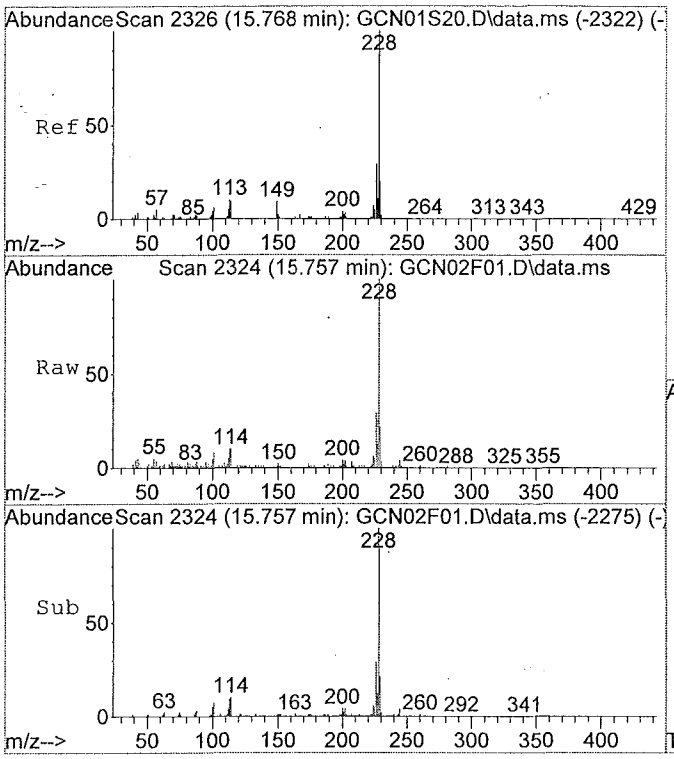


#78
Benzo(a)anthracene
Concen: 1.60 ug/ml
RT: 15.71 min Scan# 2316
Delta R.T. -0.01 min
Lab File: GCN02F01.D
Acq: 07/07/2015 15:15

Tgt Ion:228 Resp: 117080

Ion	Ratio	Lower	Upper
228	100		
229	31.2	13.7	25.5#
226	29.9	18.2	33.8
0	0.0	0.0	0.0

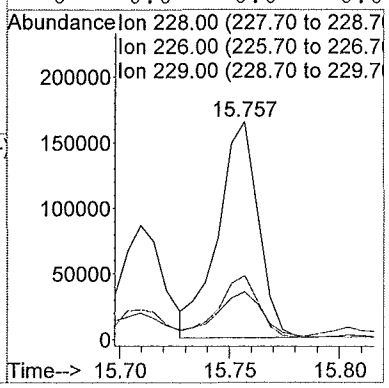


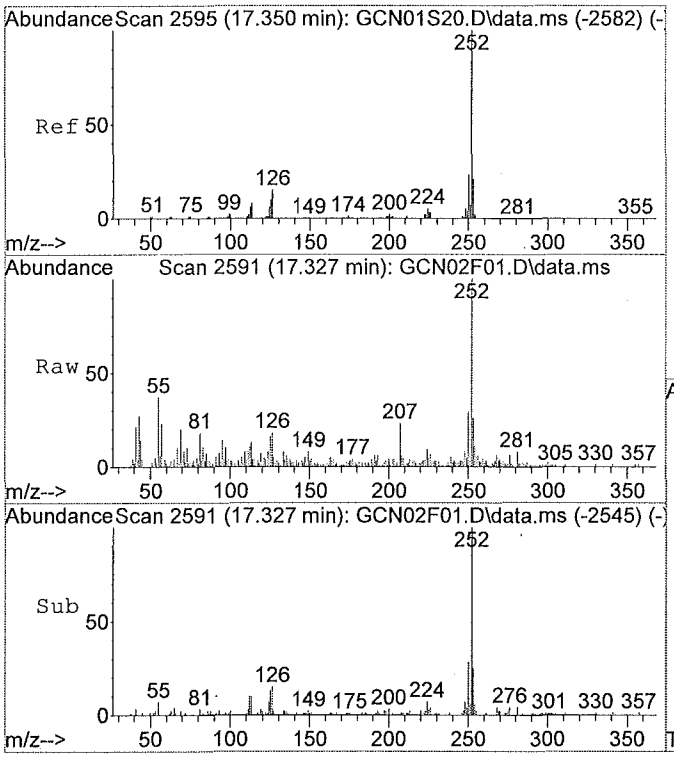


#79
Chrysene
Concen: 3.19 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCN02F01.D
Acq: 07/07/2015 15:15

Tgt Ion:228 Resp: 210200

Ion	Ratio	Lower	Upper
228	100		
226	31.6	20.1	37.3
229	25.1	13.7	25.5
0	0.0	0.0	0.0

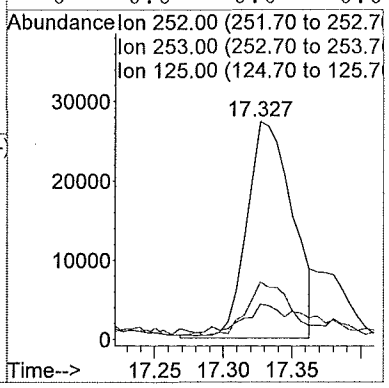


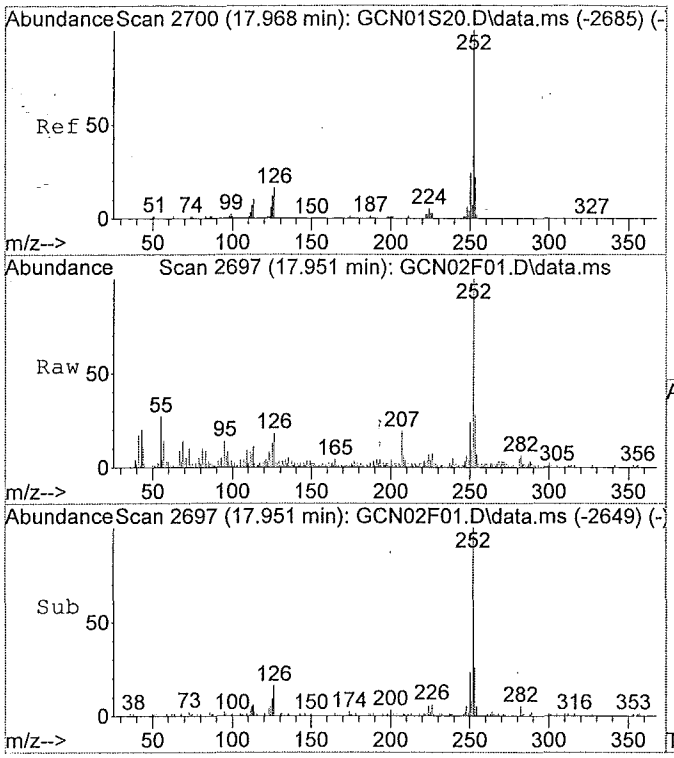


#83
Benzo(b)fluoranthene
Concen: 0.97 ug/ml m
RT: 17.33 min Scan# 2591
Delta R.T. -0.02 min
Lab File: GCN02F01.D
Acq: 07/07/2015 15:15

Tgt Ion:252 Resp: 63033

Ion	Ratio	Lower	Upper
252	100		
253	28.8	15.1	28.1#
125	14.5	10.6	19.8
0	0.0	0.0	0.0

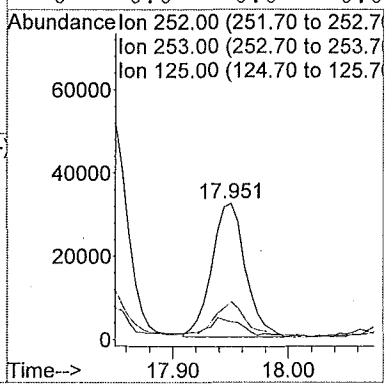


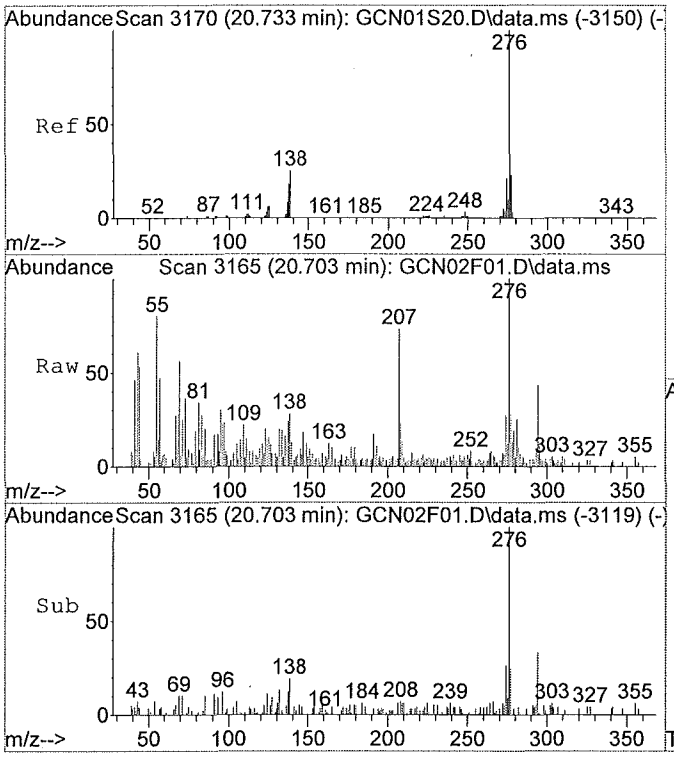


#85
Benzo(a)pyrene
Concen: 1.07 ug/ml
RT: 17.95 min Scan# 2697
Delta R.T. -0.02 min
Lab File: GCN02F01.D
Acq: 07/07/2015 15:15

Tgt Ion:252 Resp: 65690

Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.2	28.2
125	17.8	11.8	21.8
0	0.0	0.0	0.0

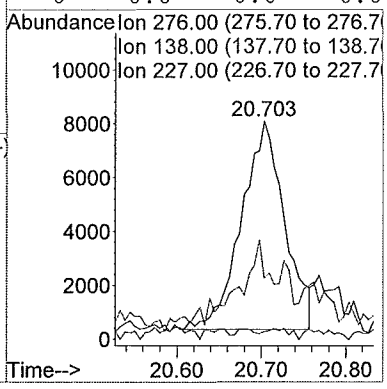


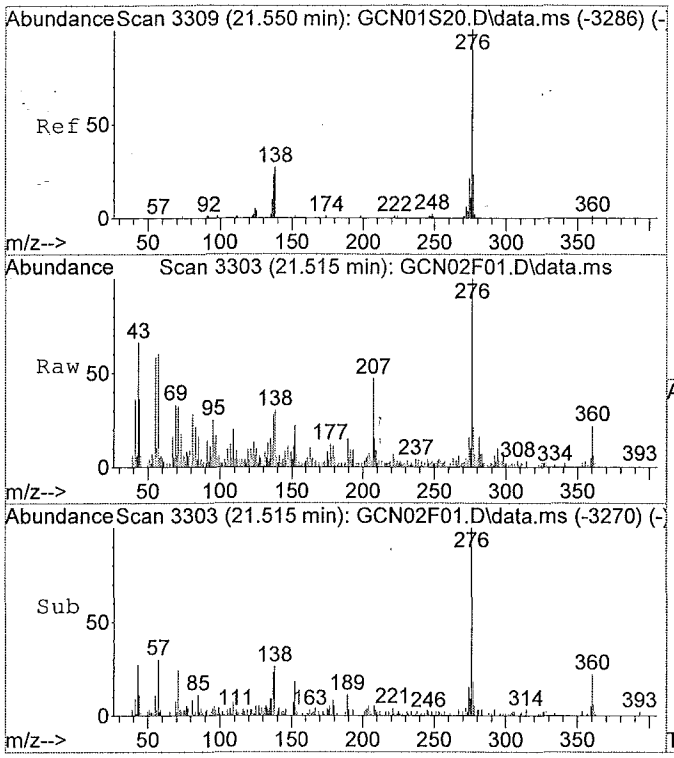


#87
Indeno(1,2,3-c,d)pyrene
Concen: 0.51 ug/ml
RT: 20.70 min Scan# 3165
Delta R.T. -0.03 min
Lab File: GCN02F01.D
Acq: 07/07/2015 15:15

Tgt Ion:276 Resp: 27433

Ion	Ratio	Lower	Upper
276	100		
138	26.2	22.3	41.5
227	2.8	0.1	0.1#
0	0.0	0.0	0.0

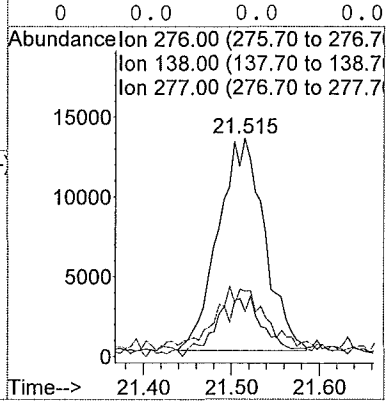




#89
Benzo(g,h,i)perylene
Concen: 0.91 ug/ml
RT: 21.52 min Scan# 3303
Delta R.T. -0.04 min
Lab File: GCN02F01.D
Acq: 07/07/2015 15:15

Tgt Ion:276 Resp: 48614

Ion	Ratio	Lower	Upper
276	100		
138	11.6	24.1	44.7#
277	29.2	16.7	30.9
0	0.0	0.0	0.0



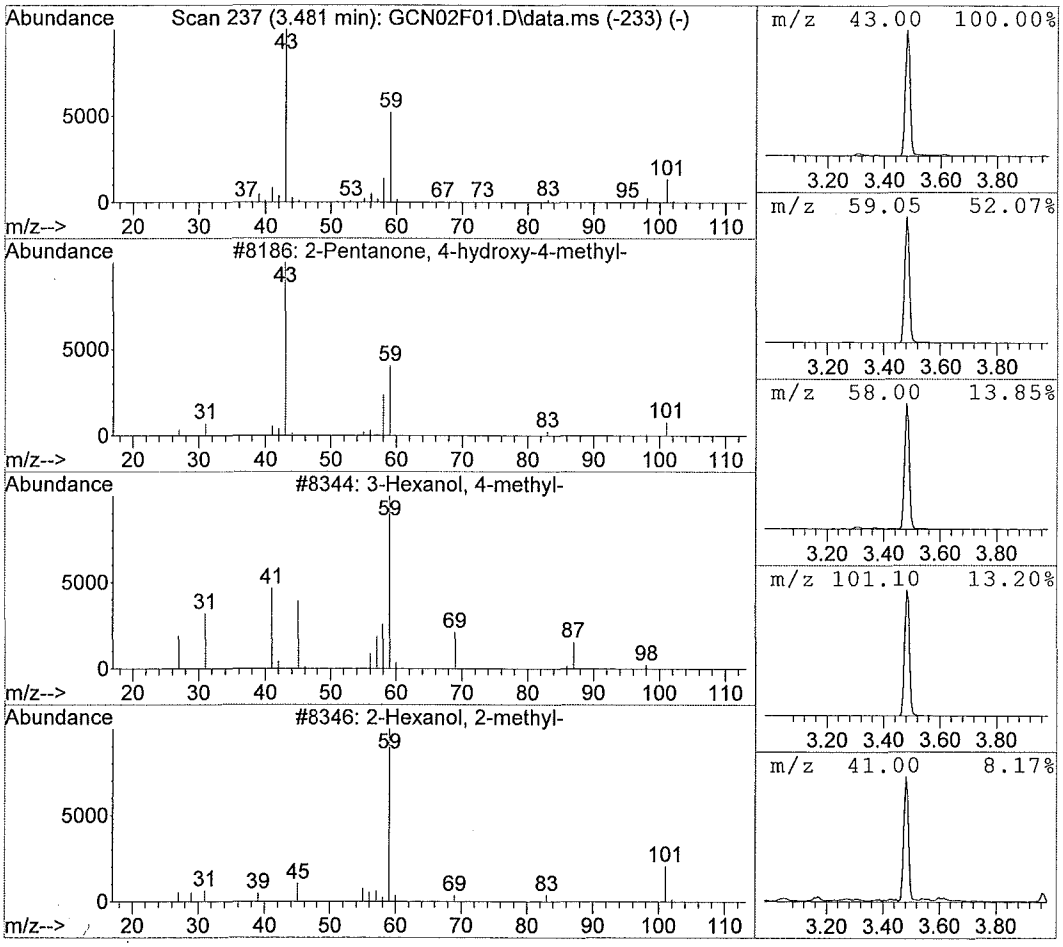
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.48	29.12 ug/ml	3156516	1,4-Dichlorobenzene-d4	2168093

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
4	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
5	Oxetane, 2,2,4-trimethyl-	3910	023120-44-7	9.00



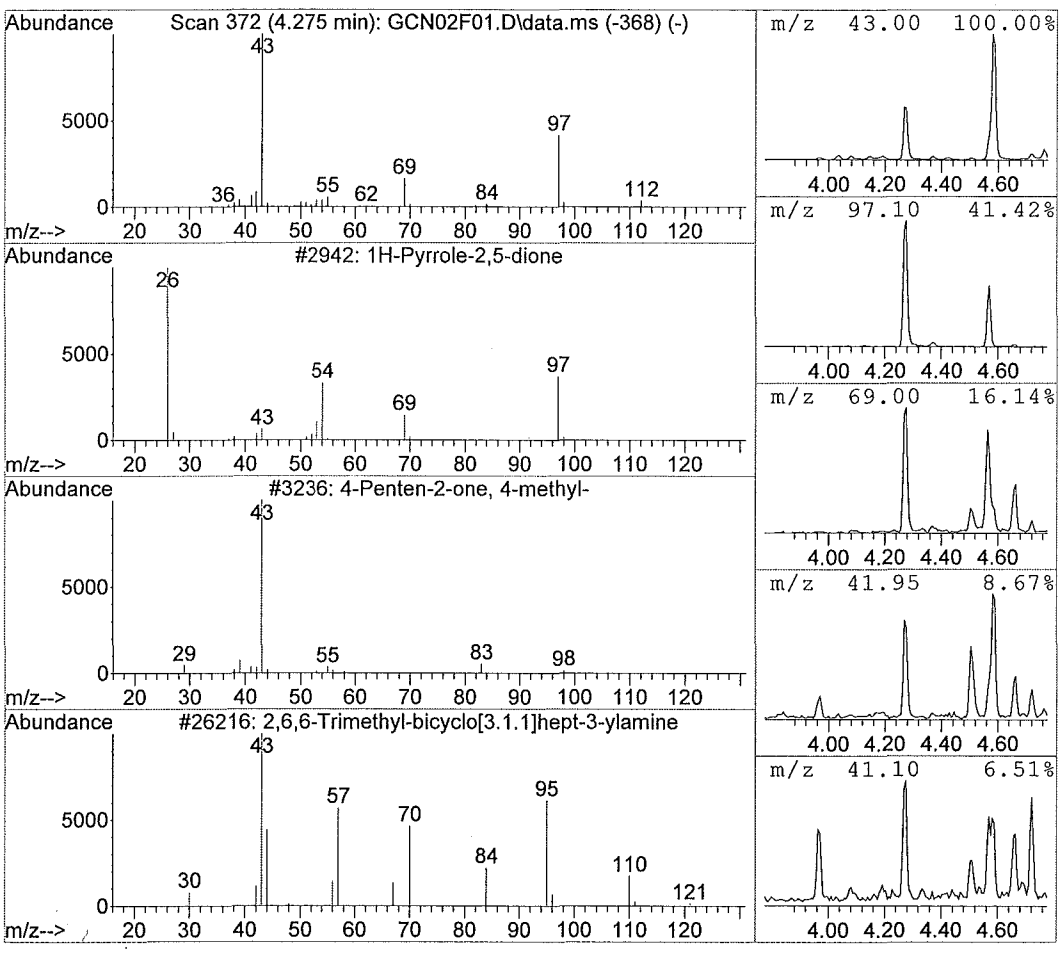
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.27	3.57 ug/ml	386517	1,4-Dichlorobenzene-d4	2168093

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	2,6,6-Trimethyl-bicyclo[3.1.1]hept-	26216	069460-11-3	9.00
4	2-Vinylethyl acetate	7190	001576-84-7	8.00
5	Acetyl cyanide	478	000631-57-2	7.00



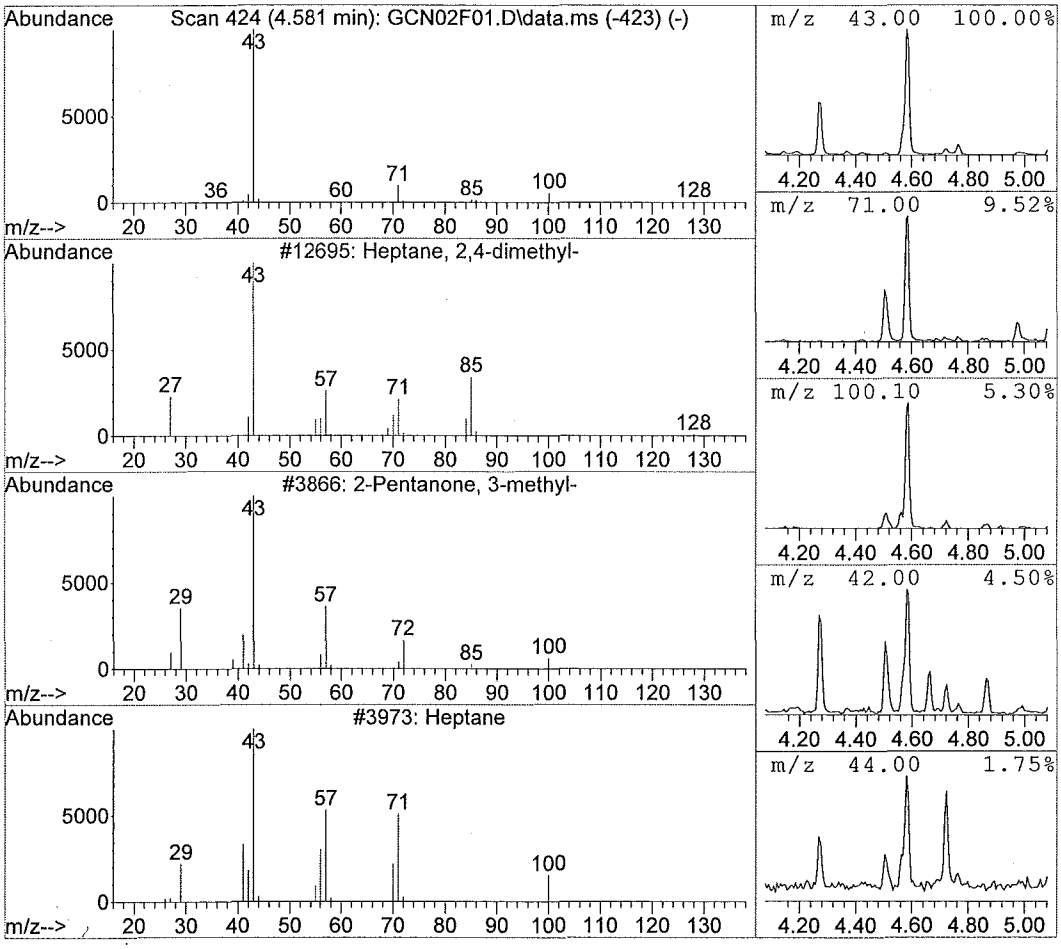
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.58	4.51 ug/ml	488606	1,4-Dichlorobenzene-d4	2168093

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
2	2-Pentanone, 3-methyl-	3866	000565-61-7	5.00
3	Heptane	3973	000142-82-5	4.00
4	Pentane, 2-methyl-	1823	000107-83-5	4.00
5	Butanal, 2-ethyl-	3808	000097-96-1	4.00



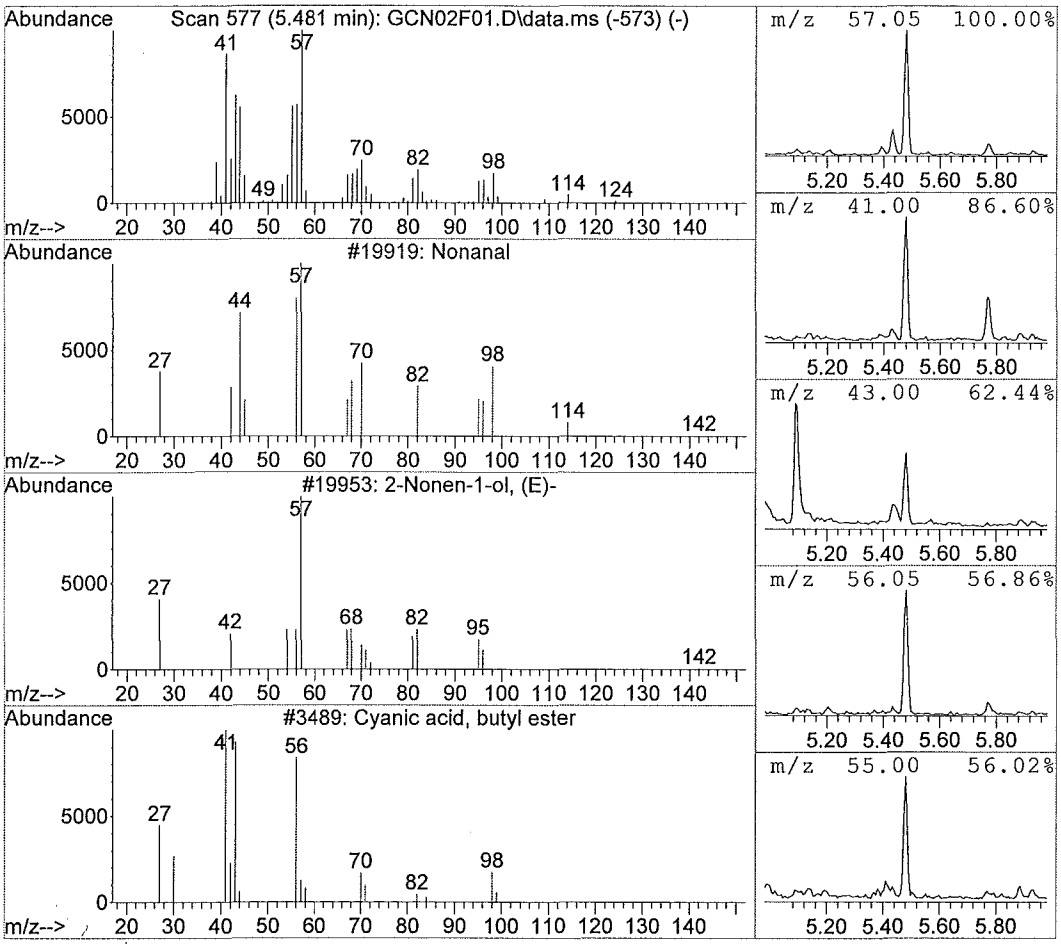
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.48	2.30 ug/ml	248918	1,4-Dichlorobenzene-d4	2168093

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonanal	19919	000124-19-6	59.00
2	2-Nonen-1-ol, (E)-	19953	031502-14-4	35.00
3	Cyanic acid, butyl ester	3489	001768-24-7	30.00
4	Octyl chloroformate	55020	007452-59-7	27.00
5	Butane, 1-isocyanato-	3485	000111-36-4	27.00



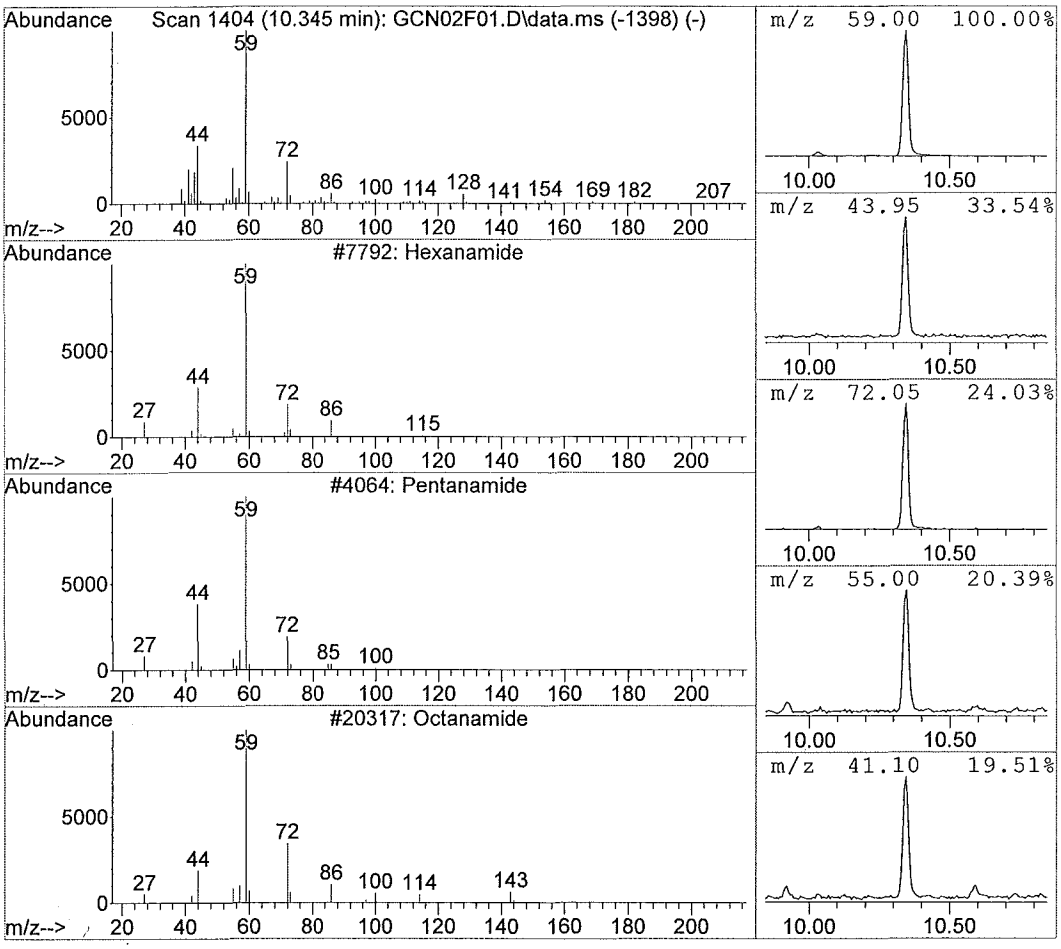
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.35	2.95 ug/ml	486388	Phenanthrene-d10	3293629

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexanamide	7792	000628-02-4	80.00
2	Pentanamide	4064	000626-97-1	78.00
3	Octanamide	20317	000629-01-6	78.00
4	Nonanamide	29478	001120-07-6	74.00
5	Dodecanamide	60439	001120-16-7	72.00



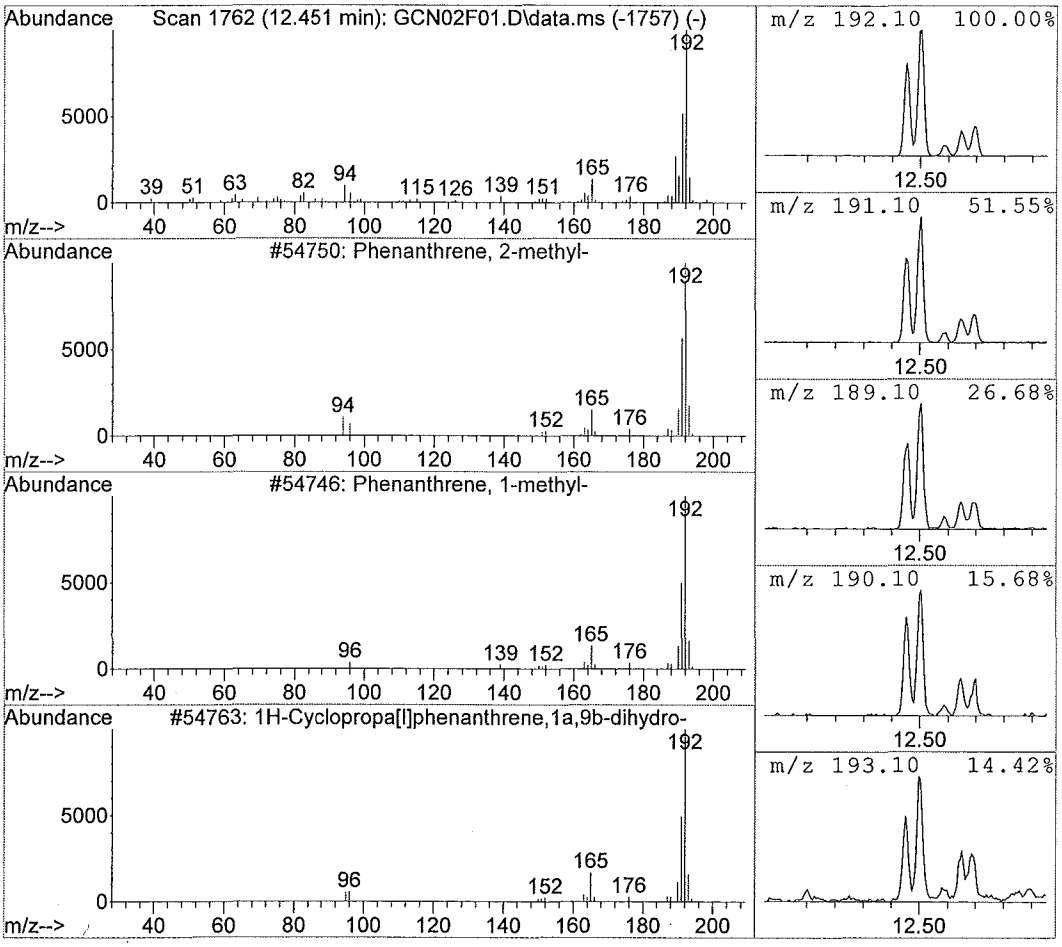
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.45	2.00 ug/ml	329893	Phenanthrene-d10	3293629

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2-methyl-	54750	002531-84-2	98.00
2	Phenanthrene, 1-methyl-	54746	000832-69-9	96.00
3	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	96.00
4	Anthracene, 2-methyl-	54735	000613-12-7	94.00
5	Anthracene, 1-methyl-	54739	000610-48-0	93.00



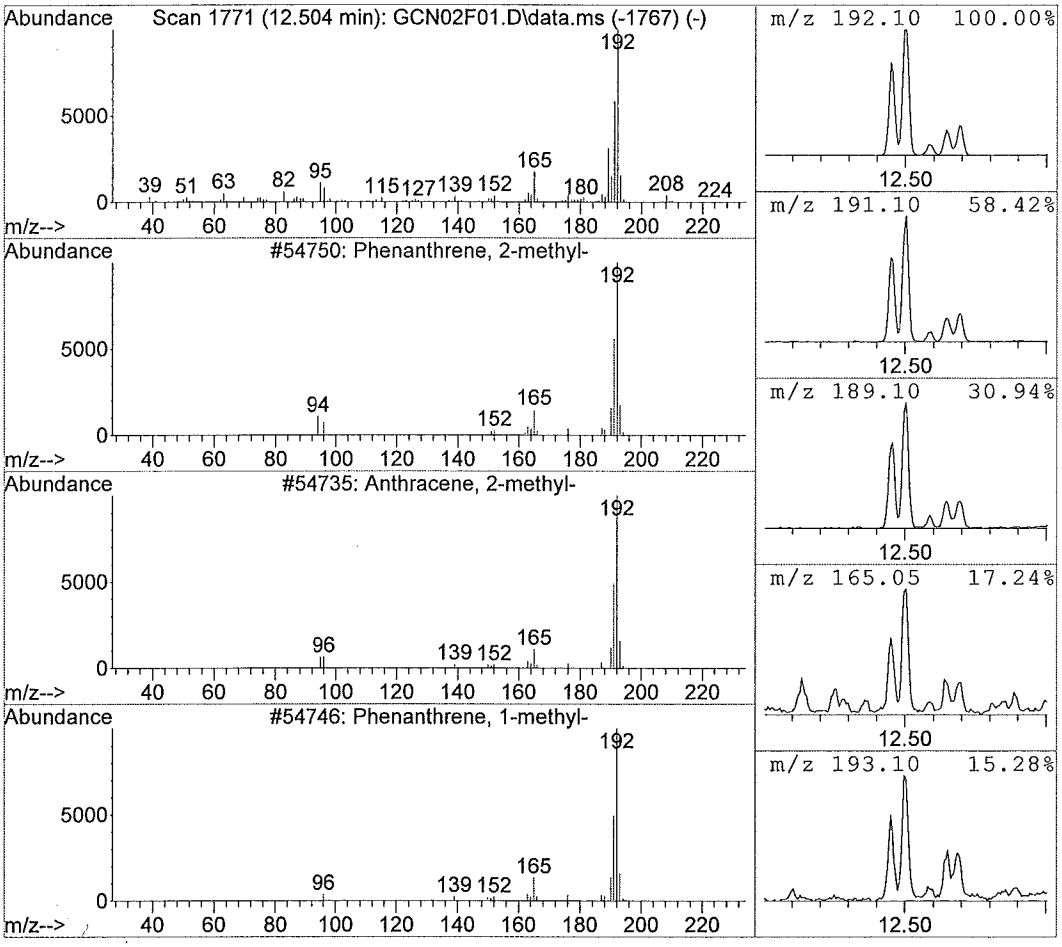
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.50	3.01 ug/ml	495443	Phenanthrene-d10	3293629

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2-methyl-	54750	002531-84-2	97.00
2	Anthracene, 2-methyl-	54735	000613-12-7	96.00
3	Phenanthrene, 1-methyl-	54746	000832-69-9	95.00
4	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	95.00
5	1H-Indene, 2-phenyl-	54730	004505-48-0	94.00



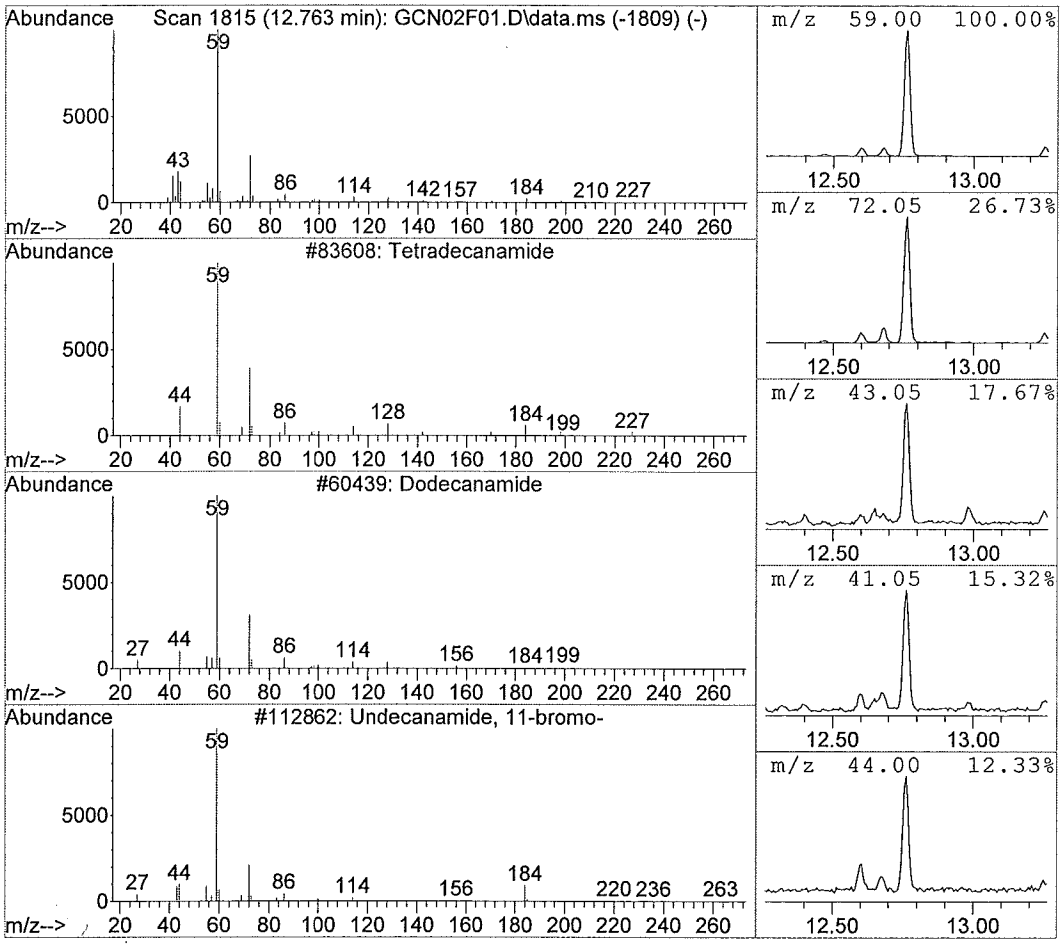
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.76	4.09 ug/ml	673994	Phenanthrene-d10	3293629

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	94.00
2	Dodecanamide	60439	001120-16-7	90.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
4	Decanamide-	38977	002319-29-1	83.00
5	Pentanamide	4064	000626-97-1	80.00



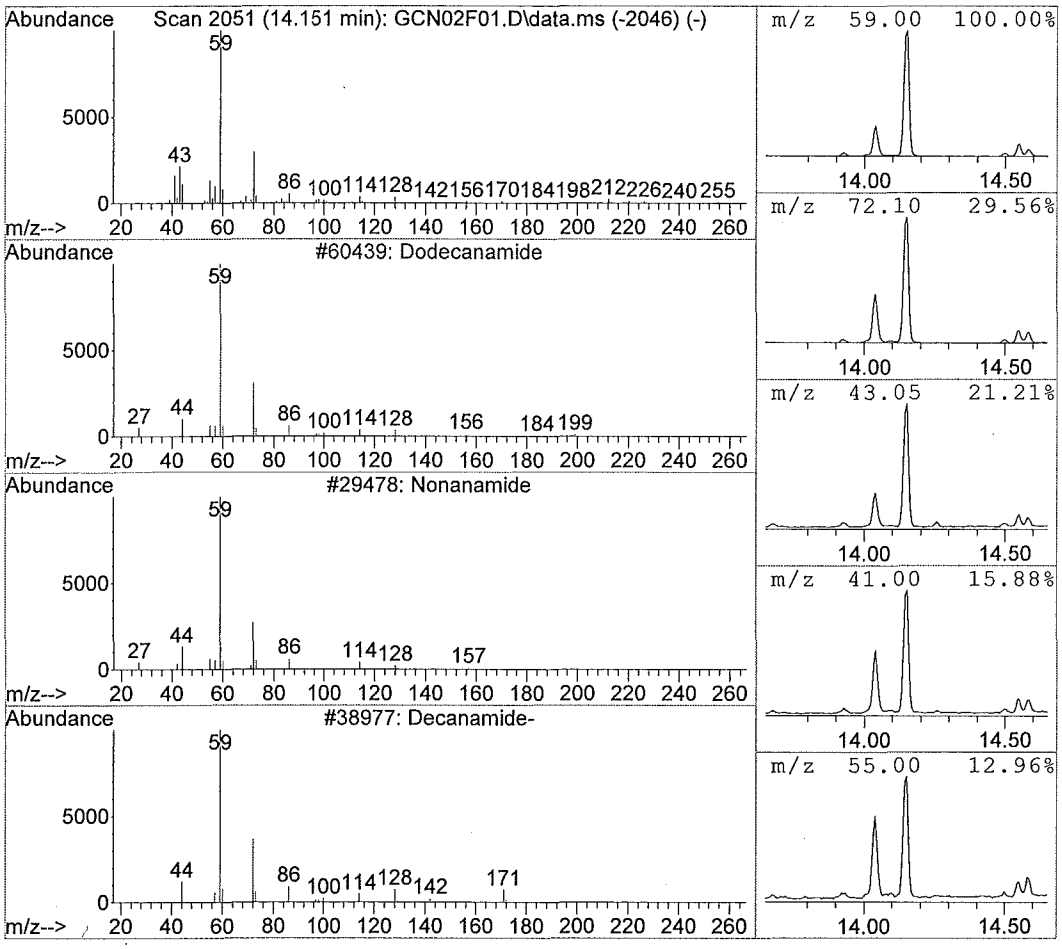
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	11.91 ug/ml	2273662	Chrysene-d12	3818899

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Nonanamide	29478	001120-07-6	78.00
3	Decanamide-	38977	002319-29-1	74.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	72.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00



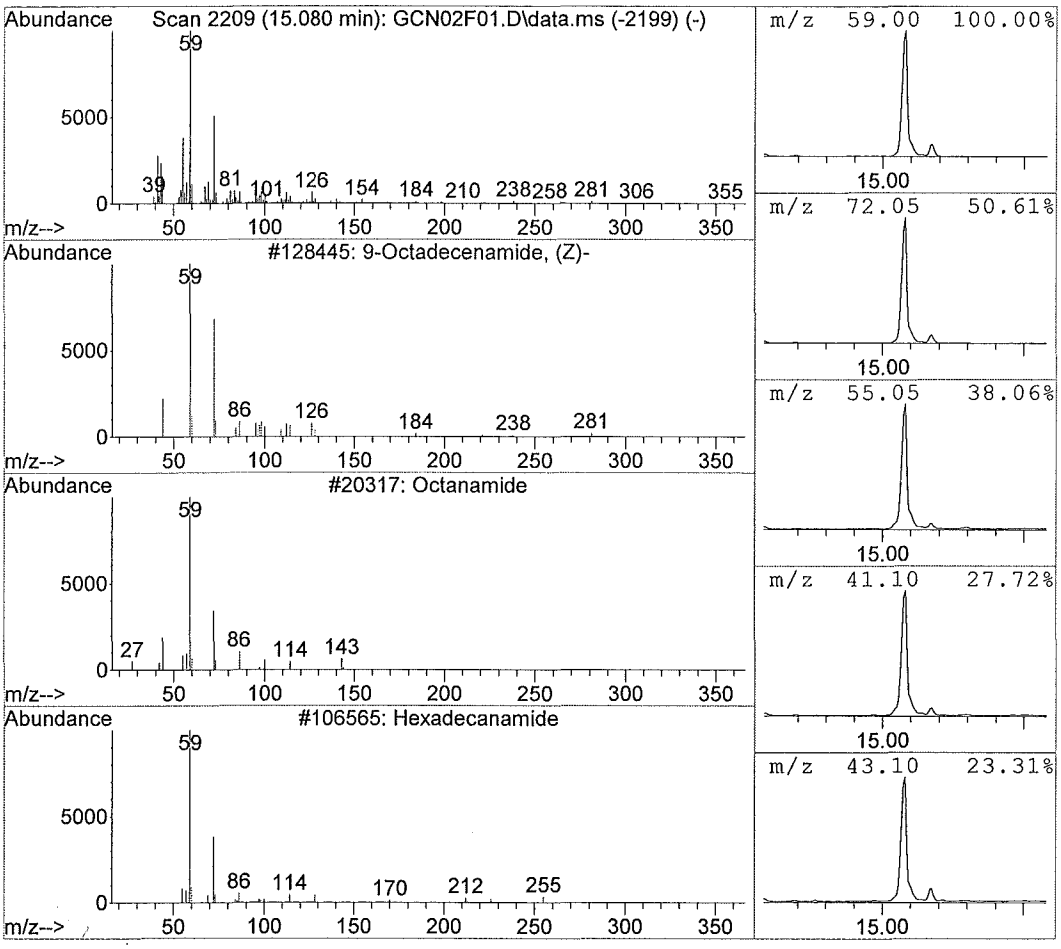
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.08	76.87 ug/ml	14678702	Chrysene-d12	3818899

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Octanamide	20317	000629-01-6	72.00
3	Hexadecanamide	106565	000629-54-9	72.00
4	Tetradecanamide	83608	000638-58-4	56.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	53.00



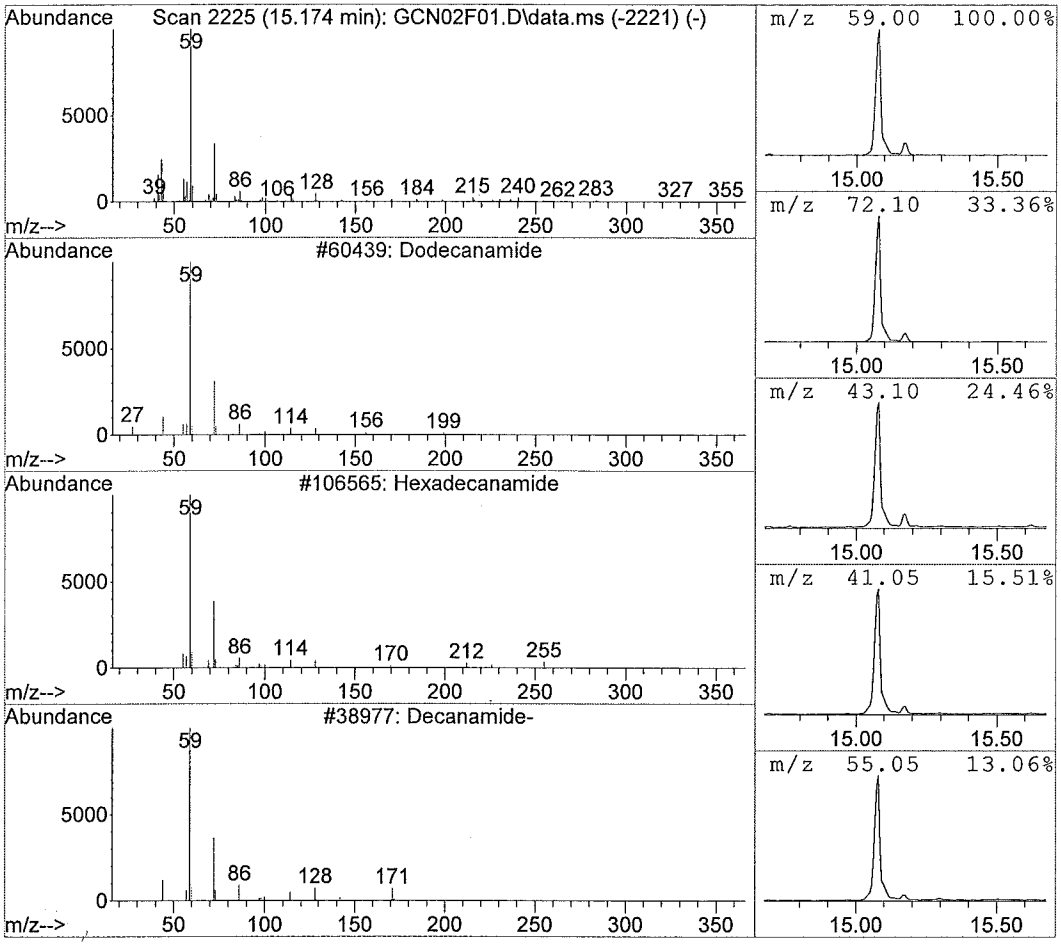
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	4.43 ug/ml	845221	Chrysene-d12	3818899

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	86.00
2	Hexadecanamide	106565	000629-54-9	86.00
3	Decanamide-	38977	002319-29-1	78.00
4	Nonanamide	29478	001120-07-6	72.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	72.00



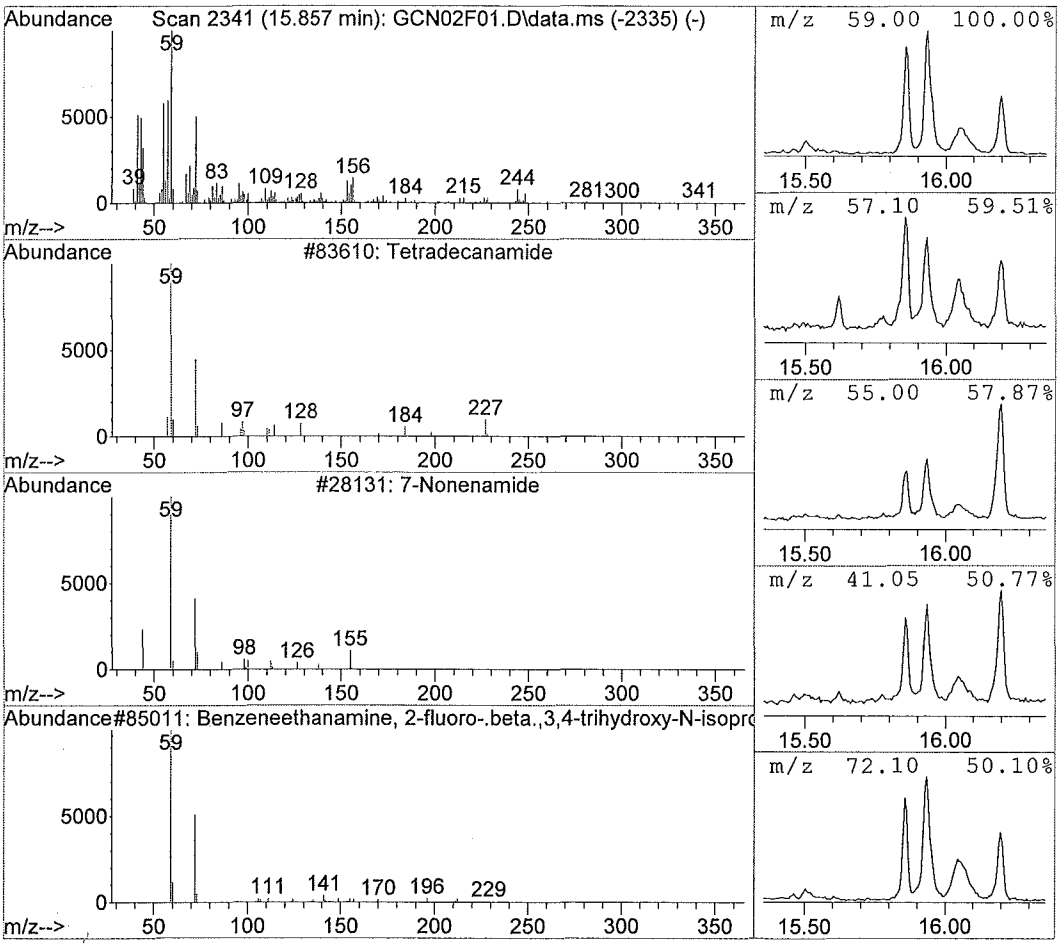
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.86	3.68 ug/ml	702275	Chrysene-d12	3818899

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	86.00
2	7-Nonenamide	28131	090949-53-4	70.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	58.00
4	Hexadecanamide	106565	000629-54-9	53.00
5	Decanamide-	38977	002319-29-1	53.00



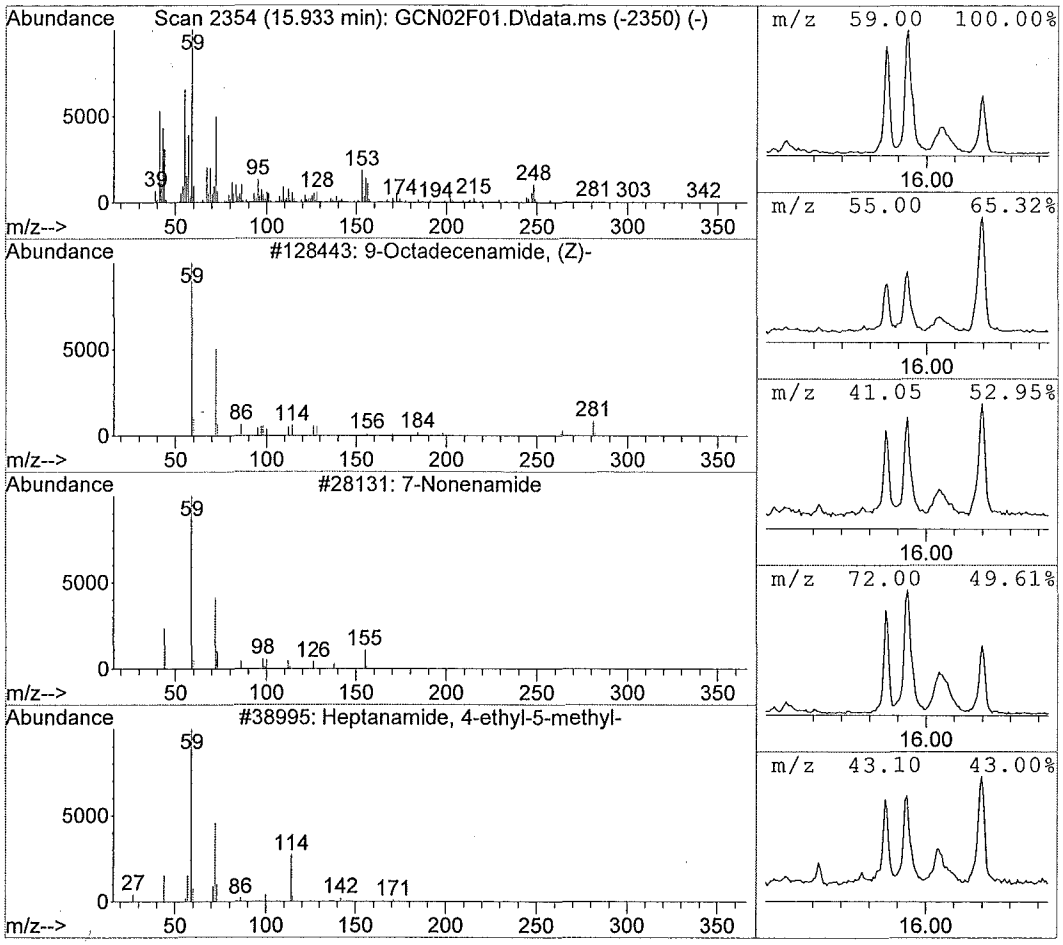
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.93	5.82 ug/ml	1111163	Chrysene-d12	3818899

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	86.00
2	7-Nonenamide	28131	090949-53-4	70.00
3	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	50.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	50.00
5	Tetradecanamide	83609	000638-58-4	50.00



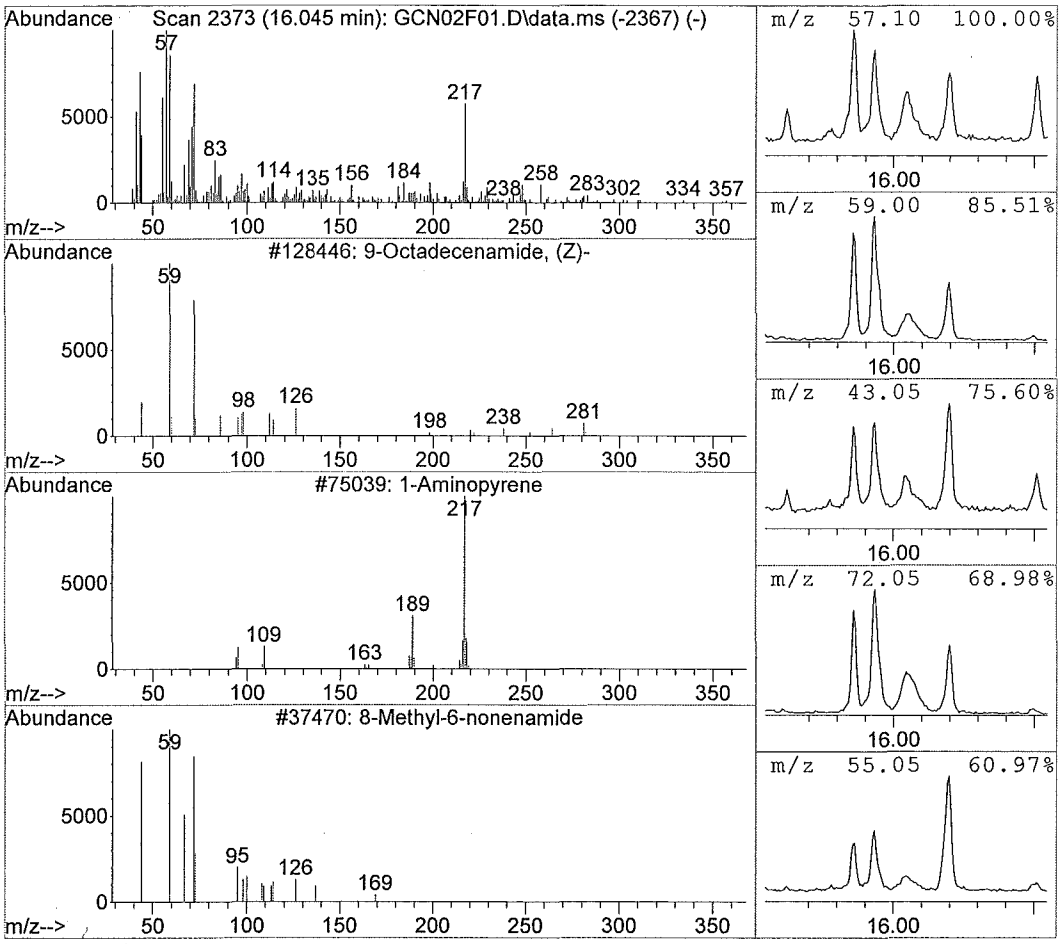
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.04	2.85 ug/ml	543485	Chrysene-d12	3818899

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128446	000301-02-0	49.00
2	1-Aminopyrene	75039	001606-67-3	47.00
3	8-Methyl-6-nonenamide	37470	1000293-20-9	43.00
4	Nonadecanamide	142051	058185-32-3	41.00
5	3-Fluoranthenamine	75043	002693-46-1	25.00



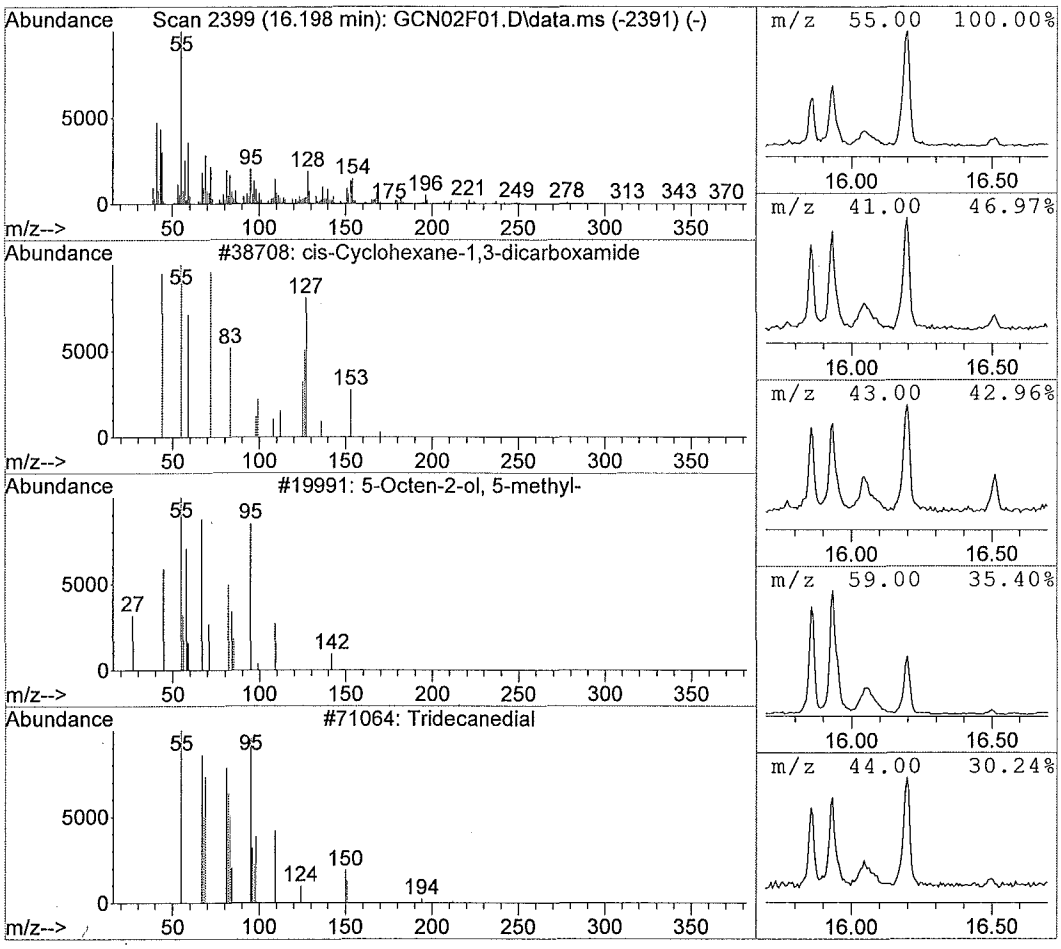
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	7.02 ug/ml	1339818	Chrysene-d12	3818899

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	cis-Cyclohexane-1,3-dicarboxamide	38708	1000143-74-8	14.00
2	5-Octen-2-ol, 5-methyl-	19991	118989-20-1	11.00
3	Tridecanedial	71064	063521-76-6	10.00
4	Cyclododecanol, 1-aminomethyl-	71955	000832-29-1	10.00
5	N-(3-Methylbutyl)acetamide	12959	013434-12-3	10.00



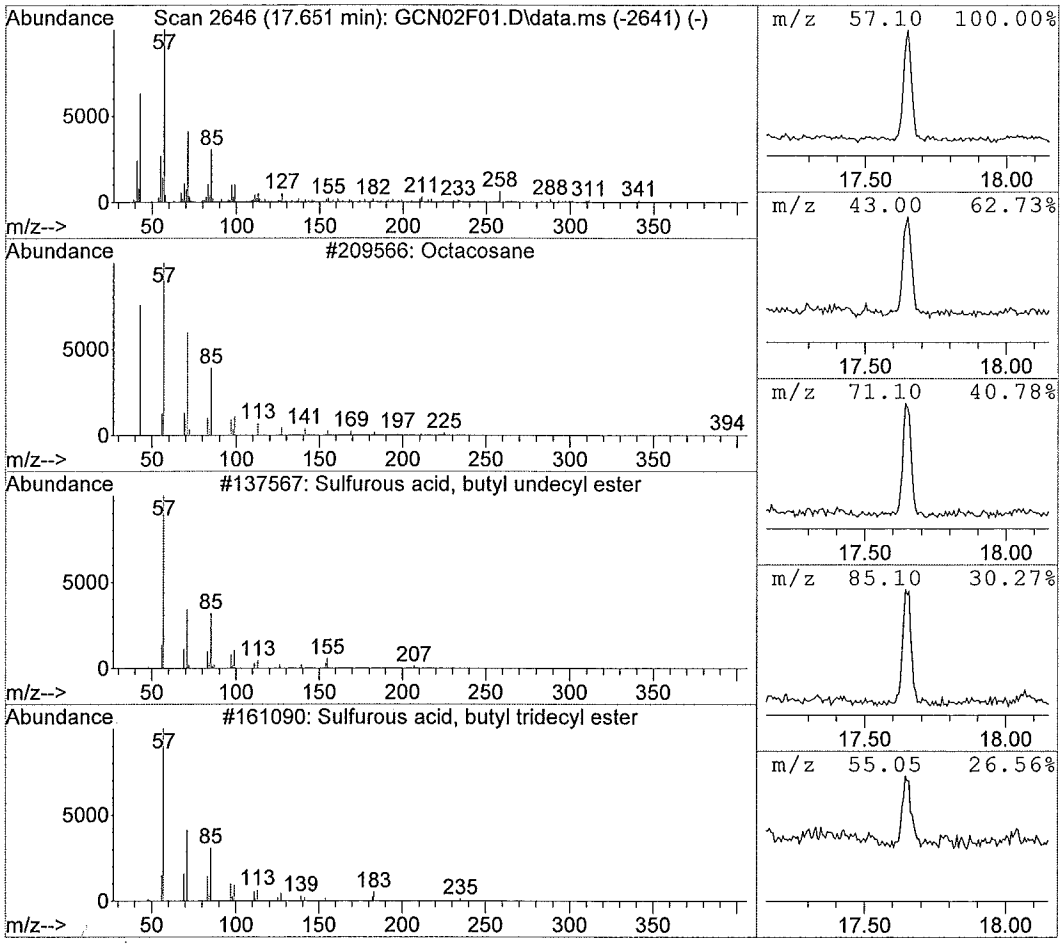
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN02F01.D Vial: 2
Acq On : 07/07/2015 15:15 Operator: TJM
Sample : 1515375001 F9L98 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.65	2.06 ug/ml	312917	Perylene-d12	3045175

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosane	209566	000630-02-4	83.00
2	Sulfurous acid, butyl undecyl ester	137567	1000309-17-8	80.00
3	Sulfurous acid, butyl tridecyl este	161090	1000309-18-0	80.00
4	Hexadecane, 1-bromo-	147850	000112-82-3	70.00
5	Tetratetracontane	241527	007098-22-8	68.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L99

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375004

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCN03F04

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	2100	U
108-95-2	Phenol	2100	U
111-44-4	Bis(2-chloroethyl)ether	2100	U
95-57-8	2-Chlorophenol	2100	U
95-48-7	2-Methylphenol	2100	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2100	U
98-86-2	Acetophenone	2100	U
106-44-5	4-Methylphenol	2100	U
621-64-7	N-Nitroso-di-n-propylamine	2100	U
67-72-1	Hexachloroethane	2100	U
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	U
88-75-5	2-Nitrophenol	2100	U
105-67-9	2,4-Dimethylphenol	2100	U
111-91-1	Bis(2-chloroethoxy)methane	2100	U
120-83-2	2,4-Dichlorophenol	2100	U
91-20-3	Naphthalene	2100	U
106-47-8	4-Chloroaniline	2100	U
87-68-3	Hexachlorobutadiene	2100	U
105-60-2	Caprolactam	2100	U
59-50-7	4-Chloro-3-methylphenol	2100	U
91-57-6	2-Methylnaphthalene	2100	U
77-47-4	Hexachlorocyclopentadiene	2100	U
88-06-2	2,4,6-Trichlorophenol	2100	U
95-95-4	2,4,5-Trichlorophenol	2100	U
92-52-4	1,1'-Biphenyl	2100	U
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	4000	U
131-11-3	Dimethylphthalate	2100	U
606-20-2	2,6-Dinitrotoluene	2100	U
208-96-8	Acenaphthylene	170	J
99-09-2	3-Nitroaniline	4000	U
83-32-9	Acenaphthene	2100	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L99

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375004

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCN03F04

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	4000	U
100-02-7	4-Nitrophenol	4000	U
132-64-9	Dibenzofuran	2100	U
121-14-2	2,4-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	2100	U
86-73-7	Fluorene	2100	U
7005-72-3	4-Chlorophenyl-phenylether	2100	U
100-01-6	4-Nitroaniline	4000	U
534-52-1	4,6-Dinitro-2-methylphenol	4000	U
86-30-6	N-Nitrosodiphenylamine[1]	2100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2100	U
101-55-3	4-Bromophenyl-phenylether	2100	U
118-74-1	Hexachlorobenzene	2100	U
1912-24-9	Atrazine	2100	U
87-86-5	Pentachlorophenol	4000	U
85-01-8	Phenanthrene	760	J
120-12-7	Anthracene	160	J
86-74-8	Carbazole	2100	U
84-74-2	Di-n-butylphthalate	2100	U
206-44-0	Fluoranthene	720	J
129-00-0	Pyrene	1100	J
85-68-7	Butylbenzylphthalate	2100	U
91-94-1	3,3'-Dichlorobenzidine	2100	U
56-55-3	Benzo(a)anthracene	680	J
218-01-9	Chrysene	1100	J
117-81-7	Bis(2-ethylhexyl)phthalate	240	J
117-84-0	Di-n-octylphthalate	2100	U
205-99-2	Benzo(b)fluoranthene	1300	J
207-08-9	Benzo(k)fluoranthene	370	J
50-32-8	Benzo(a)pyrene	700	J
193-39-5	Indeno(1,2,3-cd)pyrene	540	J
53-70-3	Dibenzo(a,h)anthracene	170	J
191-24-2	Benzo(g,h,i)perylene	520	J
58-90-2	2,3,4,6-Tetrachlorophenol	2100	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC -
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: F9L99

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375004

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GCN03F04

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015

GPC Cleanup: (Y/N) Y pH: 7.7 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-	3.49	12000	JB
02		Unknown 1H-Pyrrole-2,5-dione	4.27	1400	J
03	629-01-6	Octanamide	10.35	830	JN
04	57-10-3	n-Hexadecanoic acid	12.66	2200	JN
05	1120-16-7	Dodecanamide	12.76	2000	JN
06	1120-16-7	Dodecanamide	14.15	6000	JN
07	301-02-0	9-Octadecenamide, (Z)-	15.09	50000	JNB
08		Unknown Decanamide-	15.17	2100	J
09		Unknown Tetradecanamide	15.86	1200	J
10		Unknown 7-Nonenamide	15.93	2200	J
11		Unknown 6-Nitroundec-5-ene	16.20	2600	J
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	3100	J

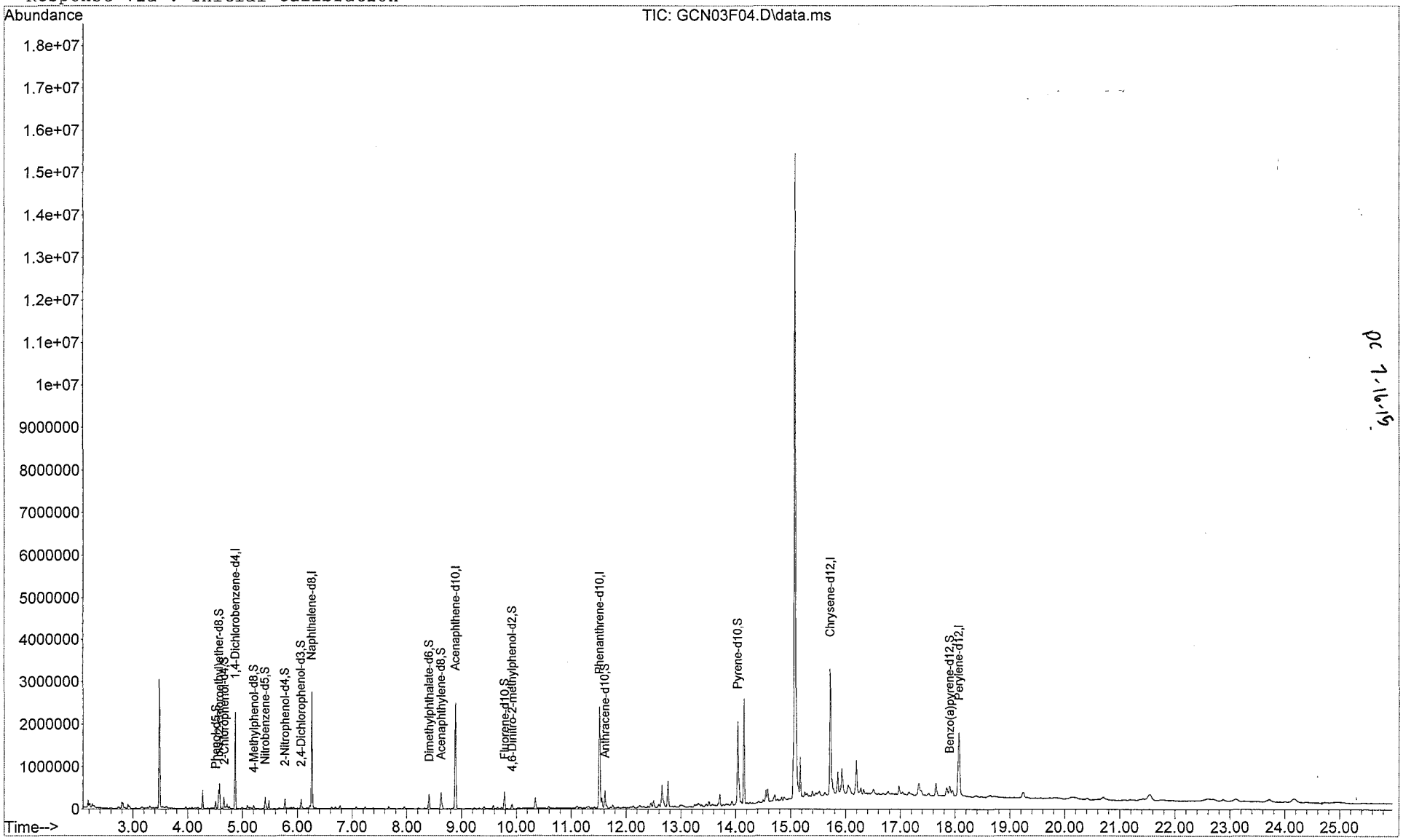
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN03F04.D Vial: 3
Acq On : 07/07/2015 15:48 Operator: TJM
Sample : 1515375004 F9L99 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 16 08:12:53 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration



GCN03F04.D GSOM01D6.M Thu Jul 16 08:23:30 2015 Page 3

7-16-15

Quantitation Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN03F04.D Vial: 3
Acq On : 07/07/2015 15:48 Operator: TJM
Sample : 1515375004 F9L99 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 08:12:53 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	330141	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1280379	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	773338	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1286638	20.00 ug/ml
73) Chrysene-d12	15.72	240	1265545	20.00 ug/ml
81) Perylene-d12	18.07	264	1104500	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	51678	1.799ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	59004	2.635ug/mL
7) 2-Chlorophenol-d4	4.66	132	68256	2.814ug/ml
13) 4-Methylphenol-d8	5.20	113	18589	0.967ug/mL
17) Nitrobenzene-d5	5.42	128	33636	2.990ug/ml
21) 2-Nitrophenol-d4	5.77	143	34761	2.924ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	50676	2.737ug/mL
28) 4-Chloroaniline-d4	6.33	131	5254	0.260ug/mL
42) Dimethylphthalate-d6	8.41	166	169624	3.498ug/mL
45) Acenaphthylene-d8	8.63	160	219400	3.329ug/mL
50) 4-Nitrophenol-d4	9.16	143	81	0.008ug/mL
57) Fluorene-d10	9.78	176	144959	3.500ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	17051	1.867ug/mL
69) Anthracene-d10	11.62	188	232103	3.402ug/mL
75) Pyrene-d10	14.03	212	214764	3.400ug/mL
86) Benzo(a)pyrene-d12	17.90	264	162735	3.075ug/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

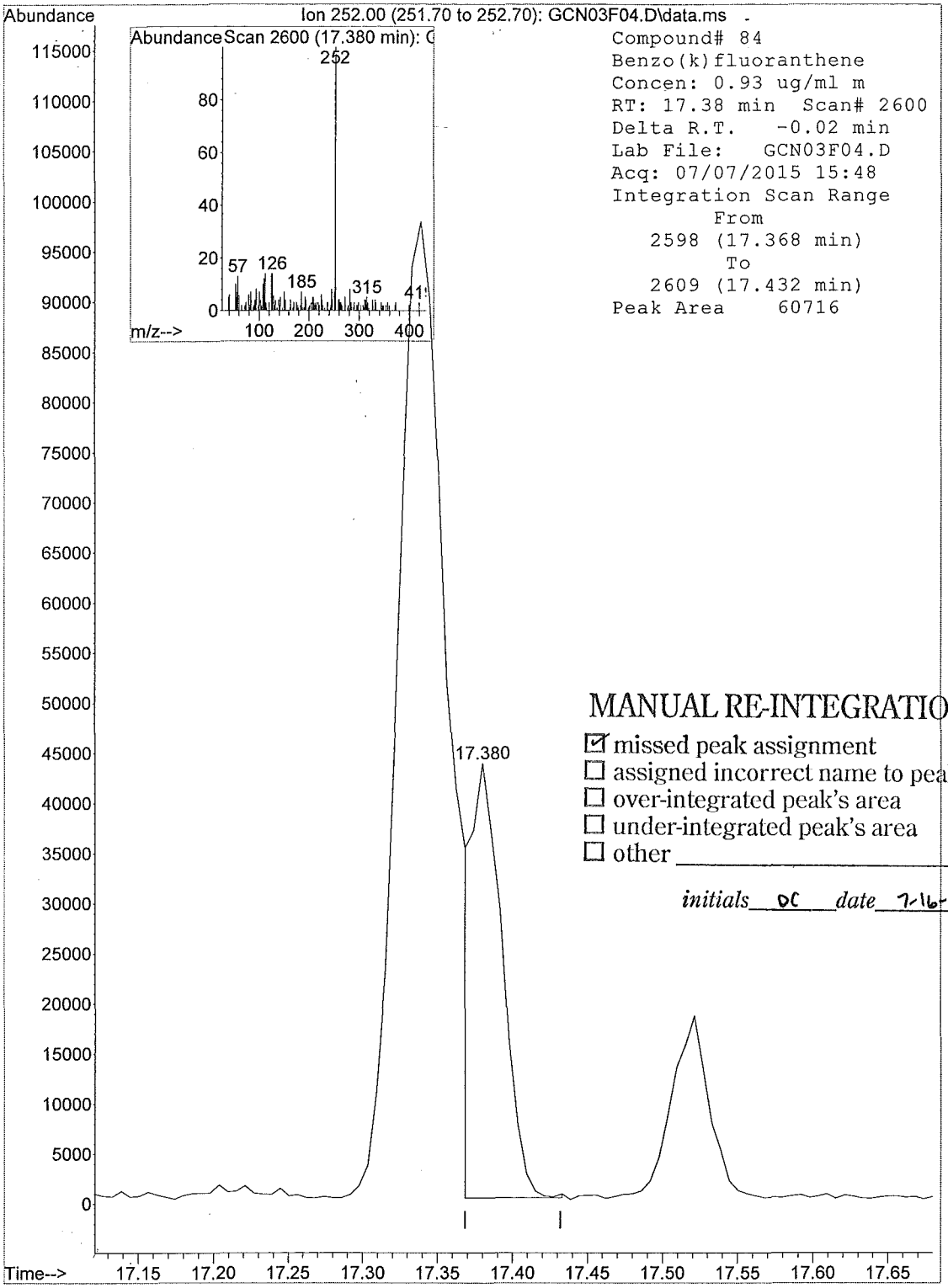
Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN03F04.D Vial: 3
Acq On : 07/07/2015 15:48 Operator: TJM
Sample : 1515375004 F9L99 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 08:12:53 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	8.65	152	28919	0.413ug/ml	97
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	11.56	178	129740	1.891ug/ml	98
68)	Anthracene	11.65	178	28441	0.406ug/ml	91
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	13.71	202	134434	1.778ug/ml	98
74)	Pyrene	14.06	202	223274	2.772ug/ml	93
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.71	228	129923	1.692ug/ml	78
79)	Chrysene	15.76	228	194356	2.803ug/ml	95
80)	Bis-(2-ethylhexyl)phthalat	15.78	149	36979	0.591ug/ml	97
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.34	252	223842	3.236ug/ml	96
84)	Benzo(k)fluoranthene	17.38	252	60716	0.929ug/ml m	96
85)	Benzo(a)pyrene	17.95	252	112939	1.735ug/ml DC 7-16-15	94
87)	Indeno(1,2,3-c,d)pyrene	20.70	276	77750	1.351ug/ml	86
88)	Dibenzo(a,h)anthracene	20.76	278	24011	0.417ug/ml	84
89)	Benzo(g,h,i)perylene	21.51	276	72721	1.283ug/ml	91

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

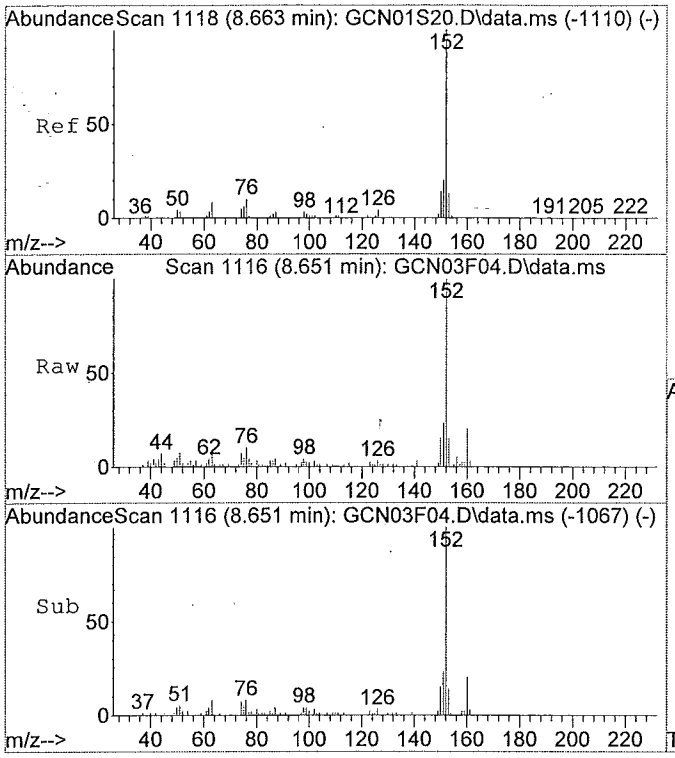
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☑ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

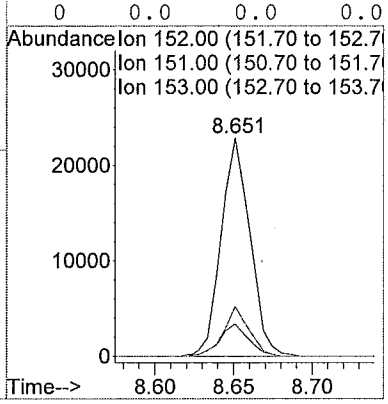
initials DC *date* 7-16-15

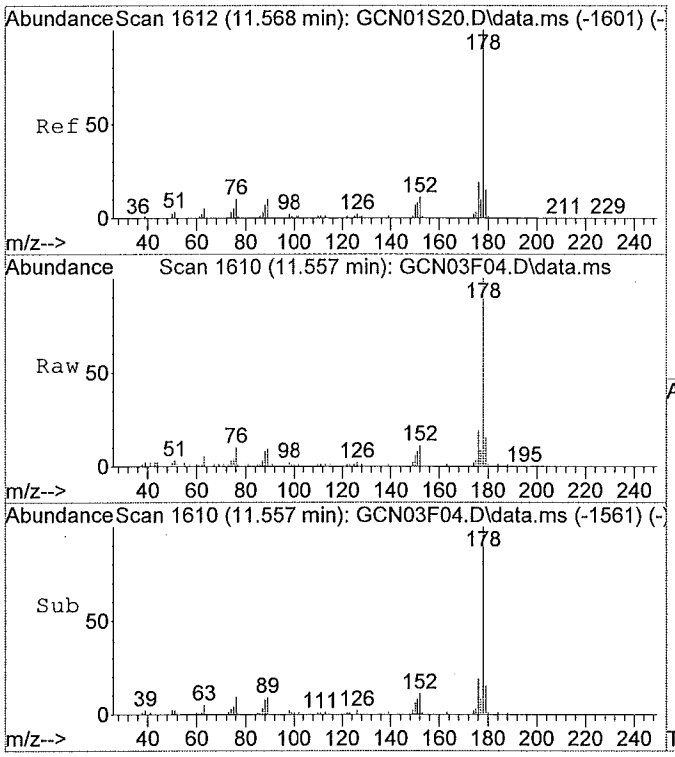


#44
Acenaphthylene
Concen: 0.41 ug/ml
RT: 8.65 min Scan# 1116
Delta R.T. -0.01 min
Lab File: GCN03F04.D
Acq: 07/07/2015 15:48

Tgt Ion:152 Resp: 28919

Ion	Ratio	Lower	Upper
152	100		
151	20.1	13.4	25.0
153	15.0	9.1	16.9
0	0.0	0.0	0.0

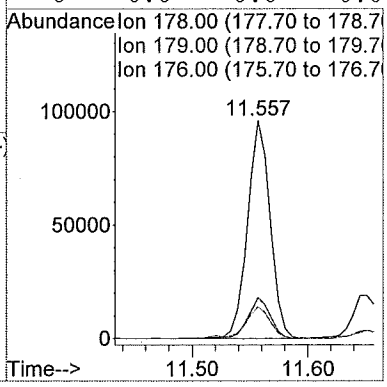


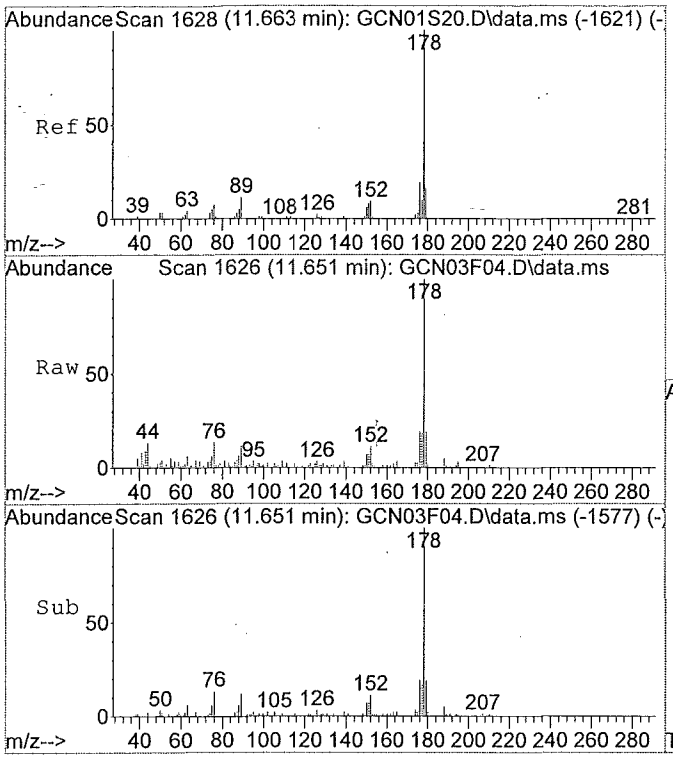


#67
Phenanthrene
Concen: 1.89 ug/ml
RT: 11.56 min Scan# 1610
Delta R.T. -0.01 min
Lab File: GCN03F04.D
Acq: 07/07/2015 15:48

Tgt Ion:178 Resp: 129740

Ion	Ratio	Lower	Upper
178	100		
179	16.2	10.6	19.8
176	18.3	13.2	24.4
0	0.0	0.0	0.0

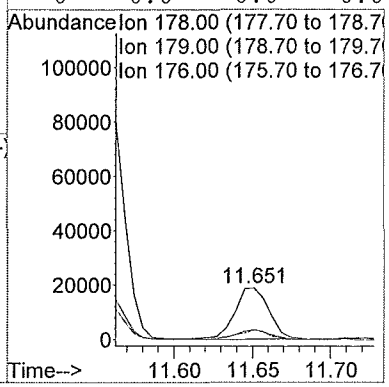


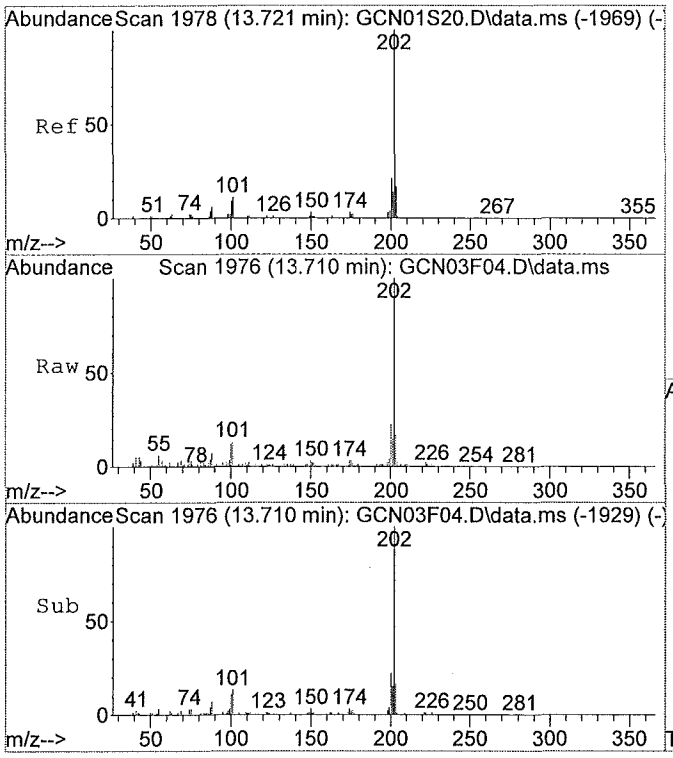


#68
Anthracene
Concen: 0.41 ug/ml
RT: 11.65 min Scan# 1626
Delta R.T. -0.01 min
Lab File: GCN03F04.D
Acq: 07/07/2015 15:48

Tgt Ion:178 Resp: 28441

Ion	Ratio	Lower	Upper
178	100		
179	21.5	10.5	19.5#
176	19.4	12.7	23.5
0	0.0	0.0	0.0

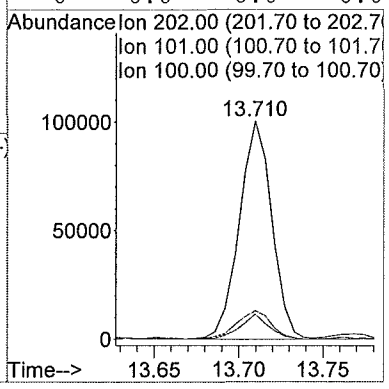


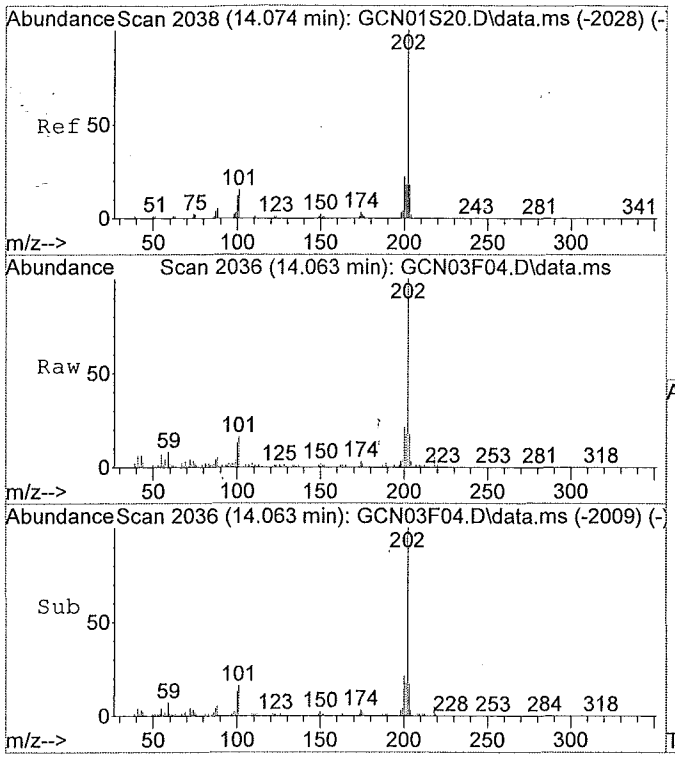


#72
Fluoranthene
Concen: 1.78 ug/ml
RT: 13.71 min Scan# 1976
Delta R.T. -0.01 min
Lab File: GCN03F04.D
Acq: 07/07/2015 15:48

Tgt Ion:202 Resp: 134434

Ion	Ratio	Lower	Upper
202	100		
101	14.0	10.5	19.5
100	10.2	7.4	13.8
0	0.0	0.0	0.0

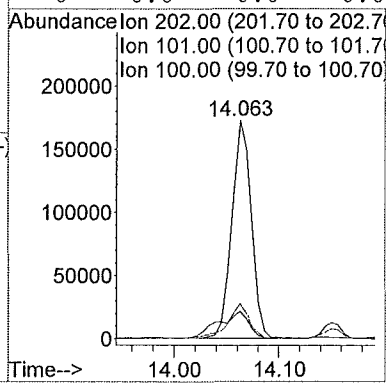


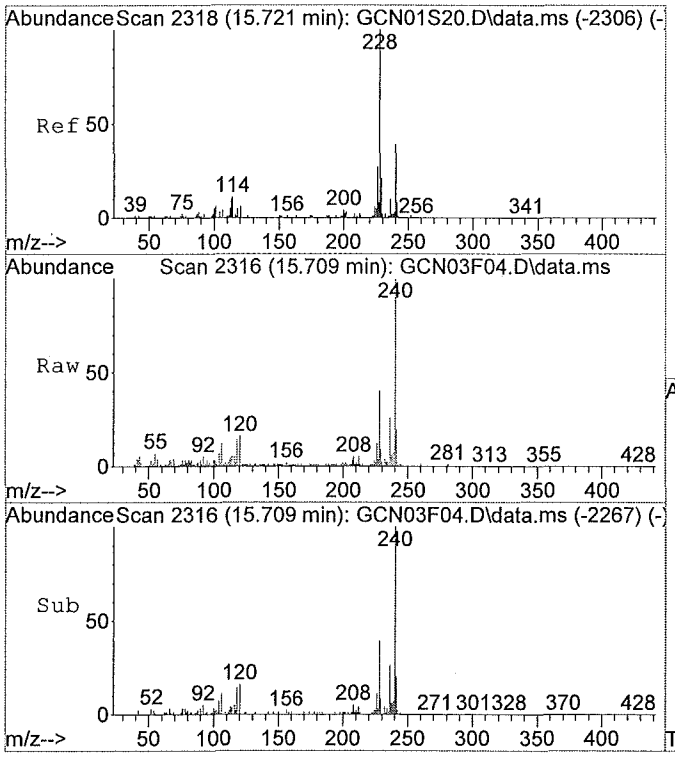


#74
Pyrene
Concen: 2.77 ug/ml
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: GCN03F04.D
Acq: 07/07/2015 15:48

Tgt Ion:202 Resp: 223274

Ion	Ratio	Lower	Upper
202	100		
101	18.2	12.2	22.7
100	19.9	10.1	18.7#
0	0.0	0.0	0.0

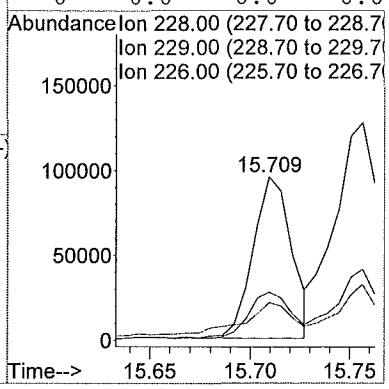


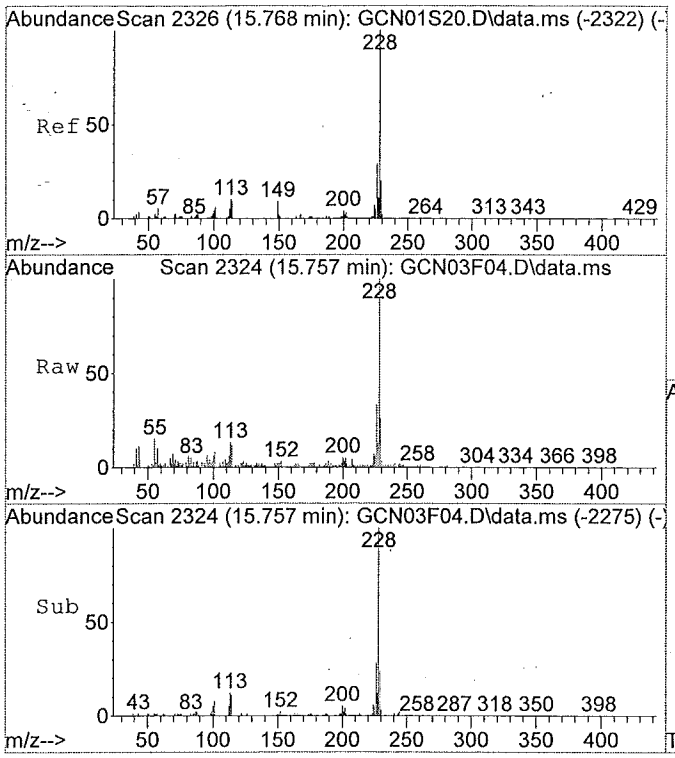


#78
Benzo(a)anthracene
Concen: 1.69 ug/ml
RT: 15.71 min Scan# 2316
Delta R.T. -0.01 min
Lab File: GCN03F04.D
Acq: 07/07/2015 15:48

Tgt Ion:228 Resp: 129923

Ion	Ratio	Lower	Upper
228	100		
229	36.6	13.7	25.5#
226	31.5	18.2	33.8
0	0.0	0.0	0.0

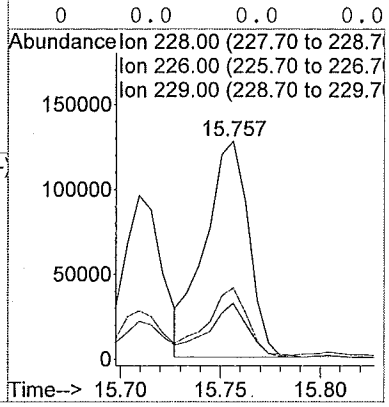


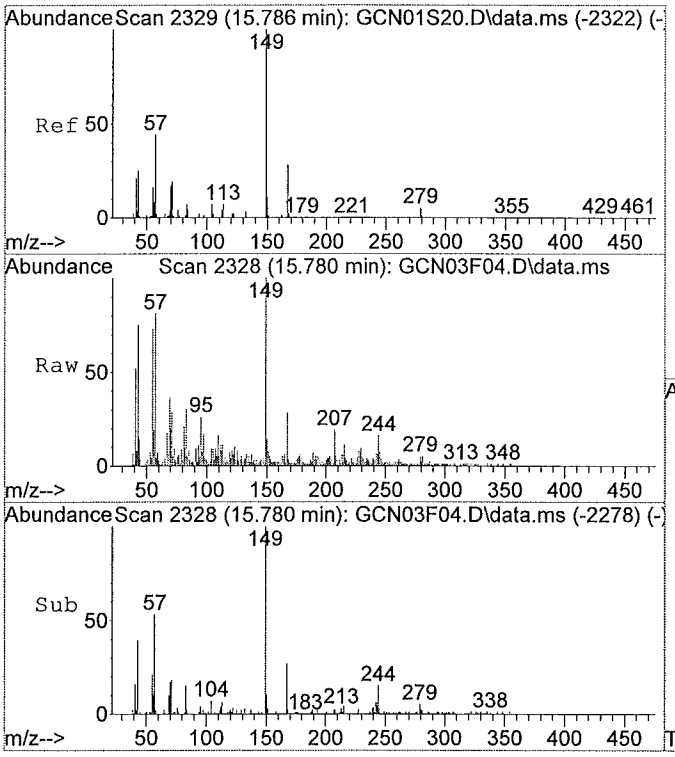


#79
Chrysene
Concen: 2.80 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCN03F04.D
Acq: 07/07/2015 15:48

Tgt Ion:228 Resp: 194356

Ion	Ratio	Lower	Upper
228	100		
226	30.7	20.1	37.3
229	22.9	13.7	25.5
0	0.0	0.0	0.0

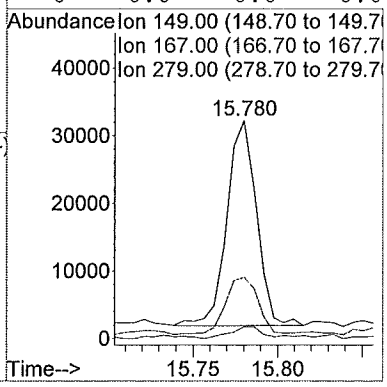


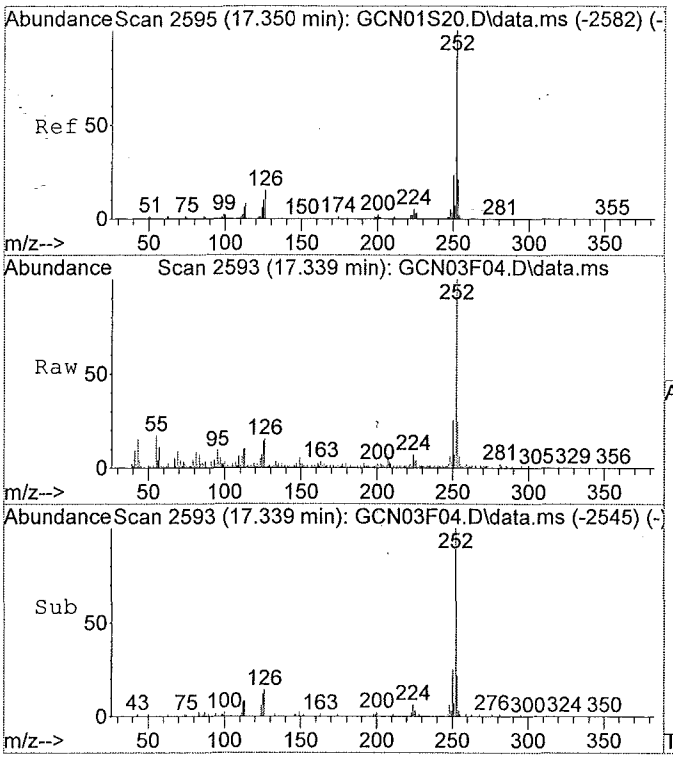


#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.59 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.01 min
Lab File: GCN03F04.D
Acq: 07/07/2015 15:48

Tgt Ion:149 Resp: 36979

Ion	Ratio	Lower	Upper
149	100		
167	29.7	22.0	40.8
279	7.3	5.0	9.2
0	0.0	0.0	0.0

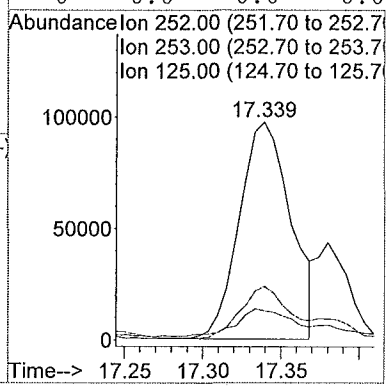


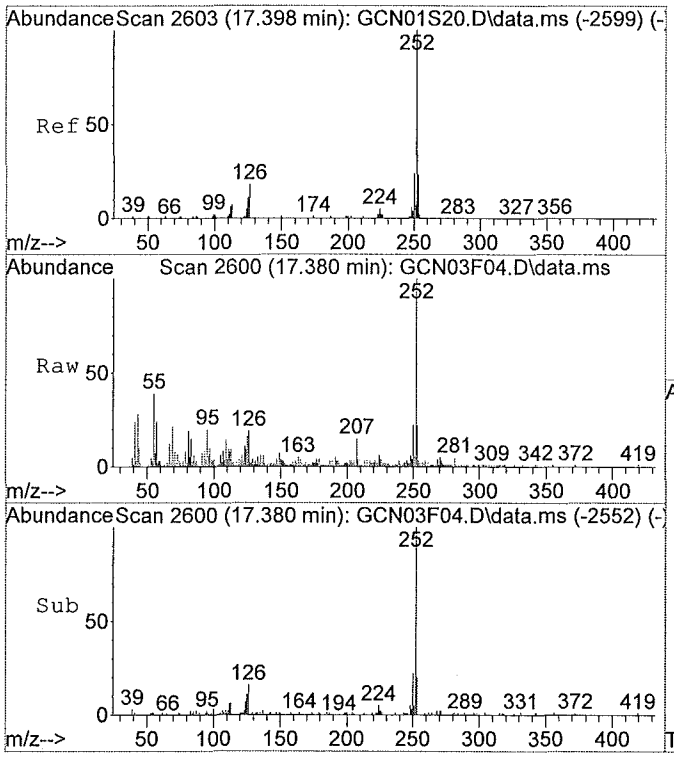


#83
Benzo(b)fluoranthene
Concen: 3.24 ug/ml
RT: 17.34 min Scan# 2593
Delta R.T. -0.01 min
Lab File: GCN03F04.D
Acq: 07/07/2015 15:48

Tgt Ion:252 Resp: 223842

Ion	Ratio	Lower	Upper
252	100		
253	22.8	15.1	28.1
125	12.9	10.6	19.8
0	0.0	0.0	0.0

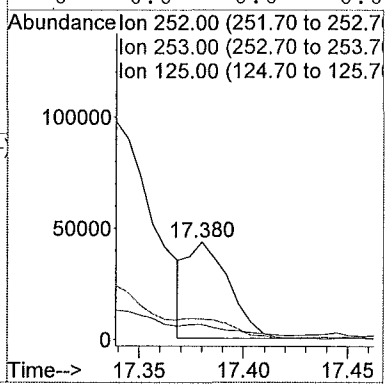


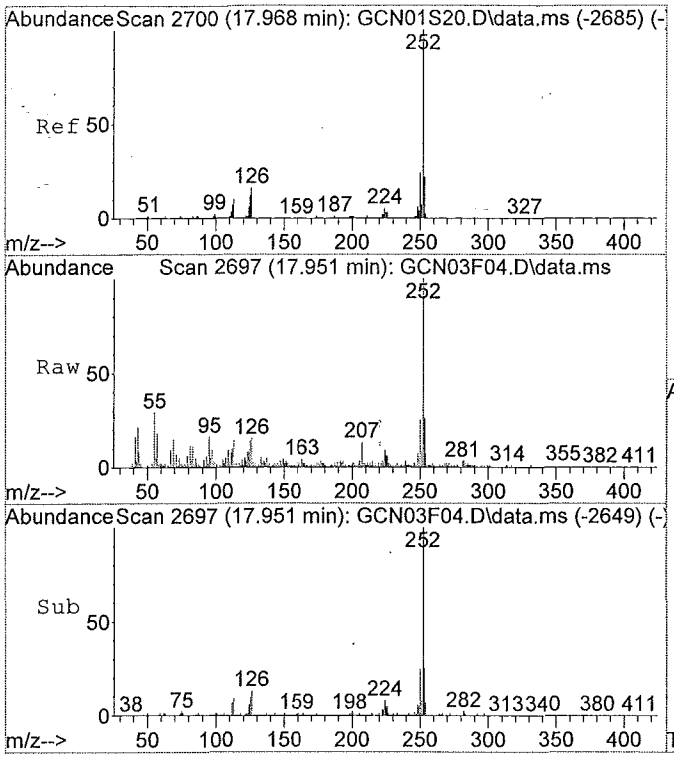


#84
Benzo(k)fluoranthene
Concen: 0.93 ug/ml m
RT: 17.38 min Scan# 2600
Delta R.T. -0.02 min
Lab File: GCN03F04.D
Acq: 07/07/2015 15:48

Tgt Ion:252 Resp: 60716

Ion	Ratio	Lower	Upper
252	100		
253	83.9	15.1	28.1#
125	47.5	10.7	19.9#
0	0.0	0.0	0.0

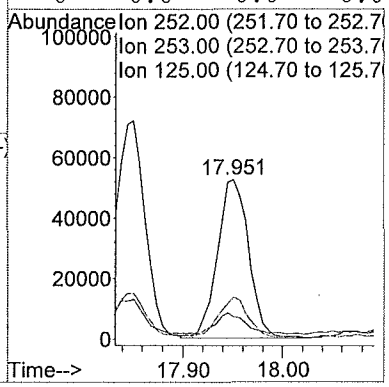


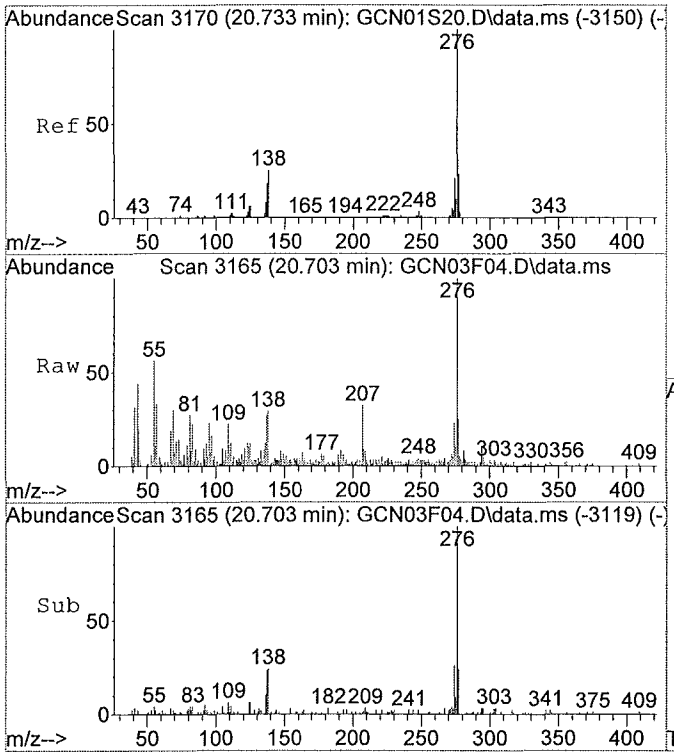


#85
Benzo(a)pyrene
Concen: 1.73 ug/ml
RT: 17.95 min Scan# 2697
Delta R.T. -0.02 min
Lab File: GCN03F04.D
Acq: 07/07/2015 15:48

Tgt Ion:252 Resp: 112939

Ion	Ratio	Lower	Upper
252	100		
253	23.4	15.2	28.2
125	12.7	11.8	21.8
0	0.0	0.0	0.0

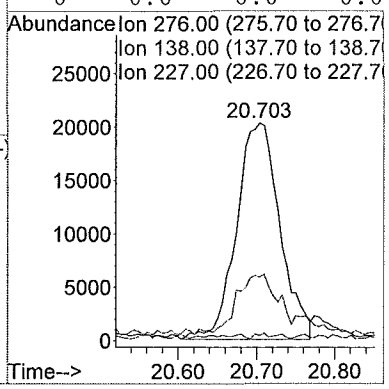


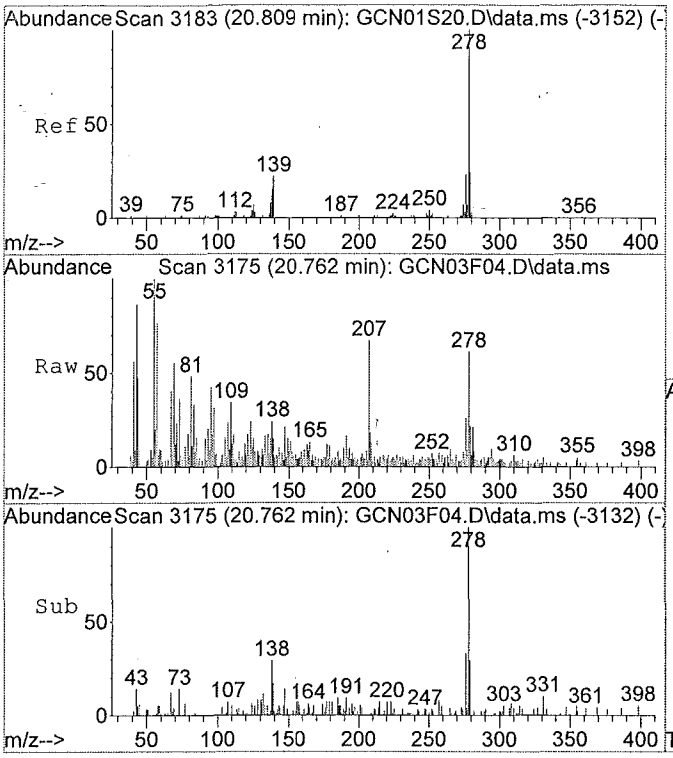


#87
Indeno(1,2,3-c,d)pyrene
Concen: 1.35 ug/ml
RT: 20.70 min Scan# 3165
Delta R.T. -0.03 min
Lab File: GCN03F04.D
Acq: 07/07/2015 15:48

Tgt Ion:276 Resp: 77750

Ion	Ratio	Lower	Upper
276	100		
138	24.3	22.3	41.5
227	0.7	0.1	0.1#
0	0.0	0.0	0.0

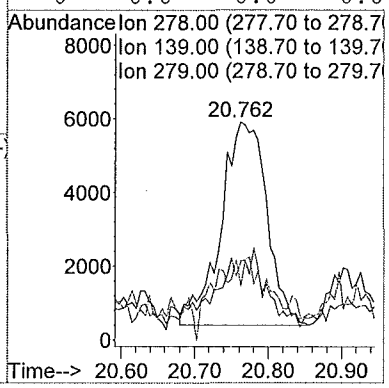


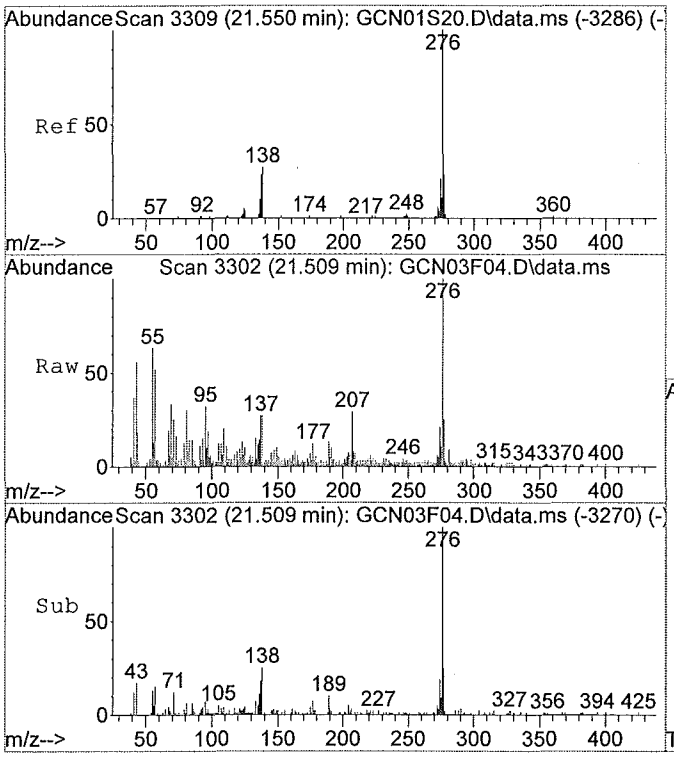


#88
Dibenzo(a,h)anthracene
Concen: 0.42 ug/ml
RT: 20.76 min Scan# 3175
Delta R.T. -0.05 min
Lab File: GCN03F04.D
Acq: 07/07/2015 15:48

Tgt Ion:278 Resp: 24011

Ion	Ratio	Lower	Upper
278	100		
139	15.5	17.3	32.1#
279	16.7	16.3	30.3
0	0.0	0.0	0.0

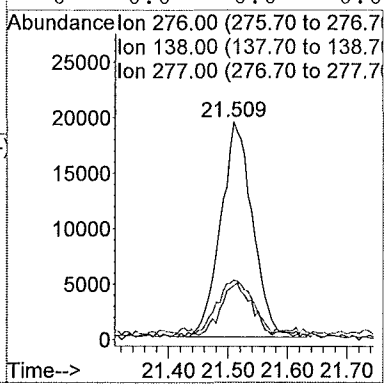




#89
Benzo(g,h,i)perylene
Concen: 1.28 ug/ml
RT: 21.51 min Scan# 3302
Delta R.T. -0.04 min
Lab File: GCN03F04.D
Acq: 07/07/2015 15:48

Tgt Ion:276 Resp: 72721

Ion	Ratio	Lower	Upper
276	100		
138	27.5	24.1	44.7
277	26.3	16.7	30.9
0	0.0	0.0	0.0



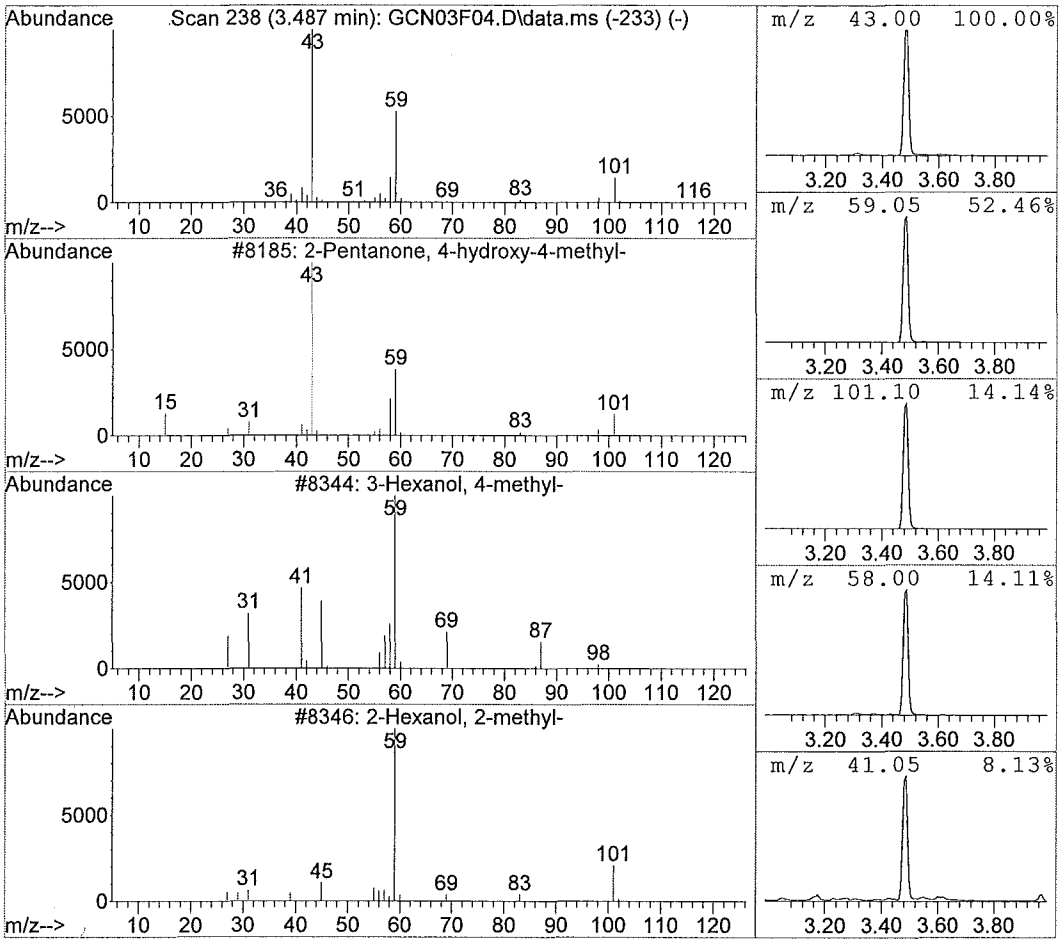
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN03F04.D Vial: 3
Acq On : 07/07/2015 15:48 Operator: TJM
Sample : 1515375004 F9L99 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.49	30.92 ug/ml	3661203	1,4-Dichlorobenzene-d4	2368114

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	59.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	2,3-Butanedione, monooxime	4030	000057-71-6	9.00



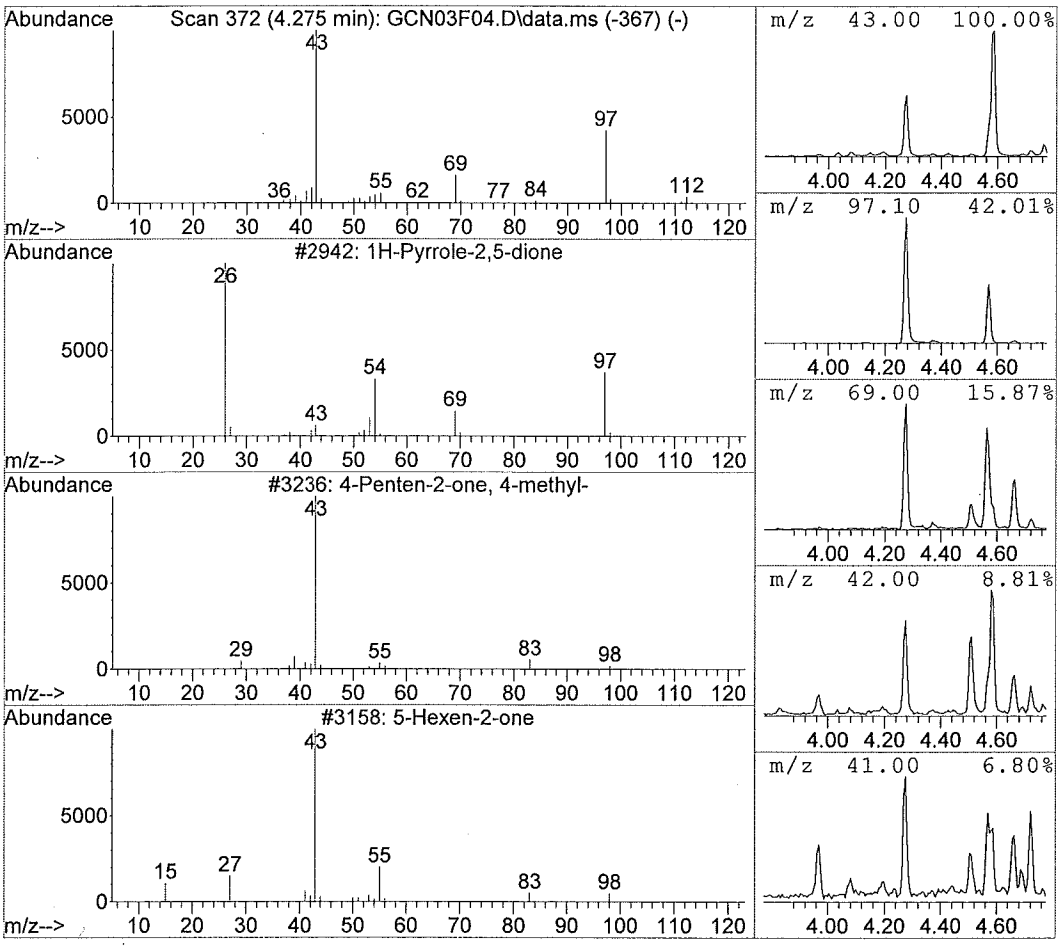
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN03F04.D Vial: 3
Acq On : 07/07/2015 15:48 Operator: TJM
Sample : 1515375004 F9L99 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.27	3.44 ug/ml	407209	1,4-Dichlorobenzene-d4	2368114

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	5-Hexen-2-one	3158	000109-49-9	9.00
4	2-Vinylethyl acetate	7190	001576-84-7	9.00
5	5-Hexen-2-one, 5-methyl-	6517	003240-09-3	5.00



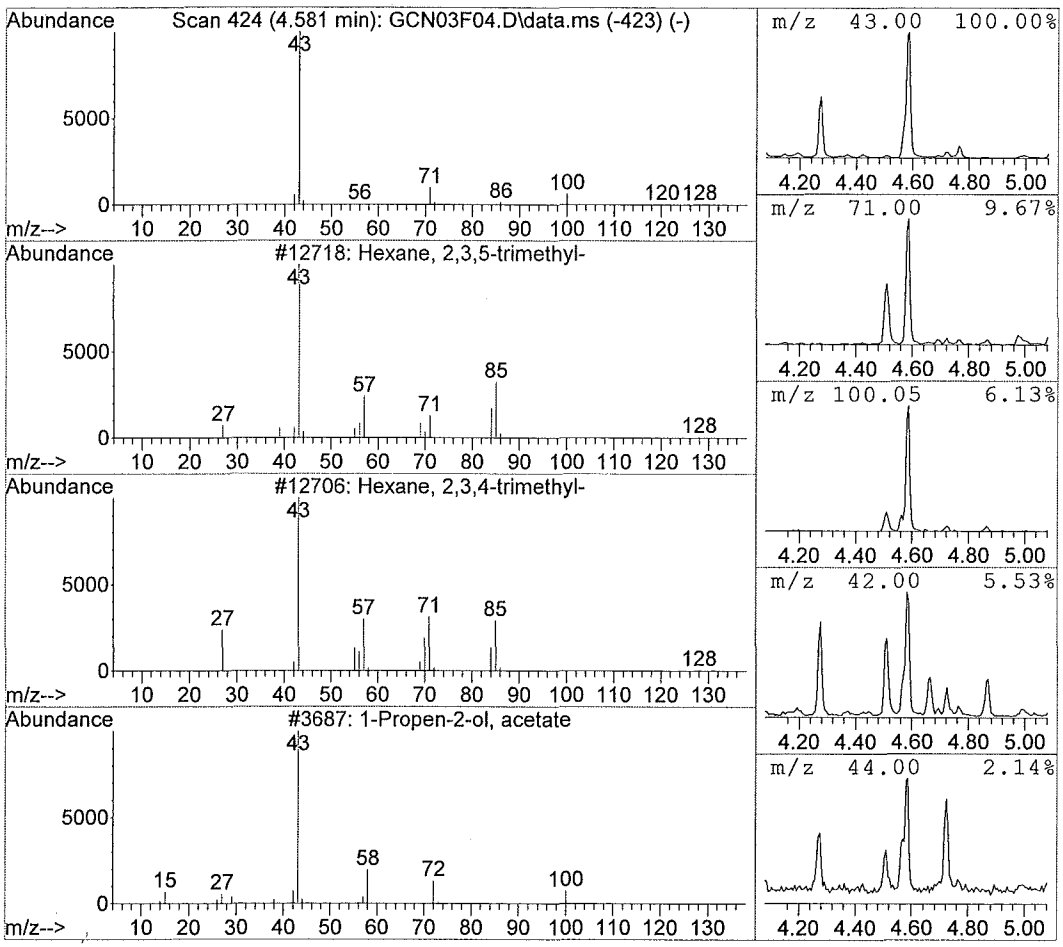
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN03F04.D Vial: 3
Acq On : 07/07/2015 15:48 Operator: TJM
Sample : 1515375004 F9L99 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.58	4.39 ug/ml	519964	1,4-Dichlorobenzene-d4	2368114

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl- B.A.	12718	001069-53-0	7.00
2	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	7.00
3	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
4	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
5	3-Hexanone	3774	000589-38-8	5.00



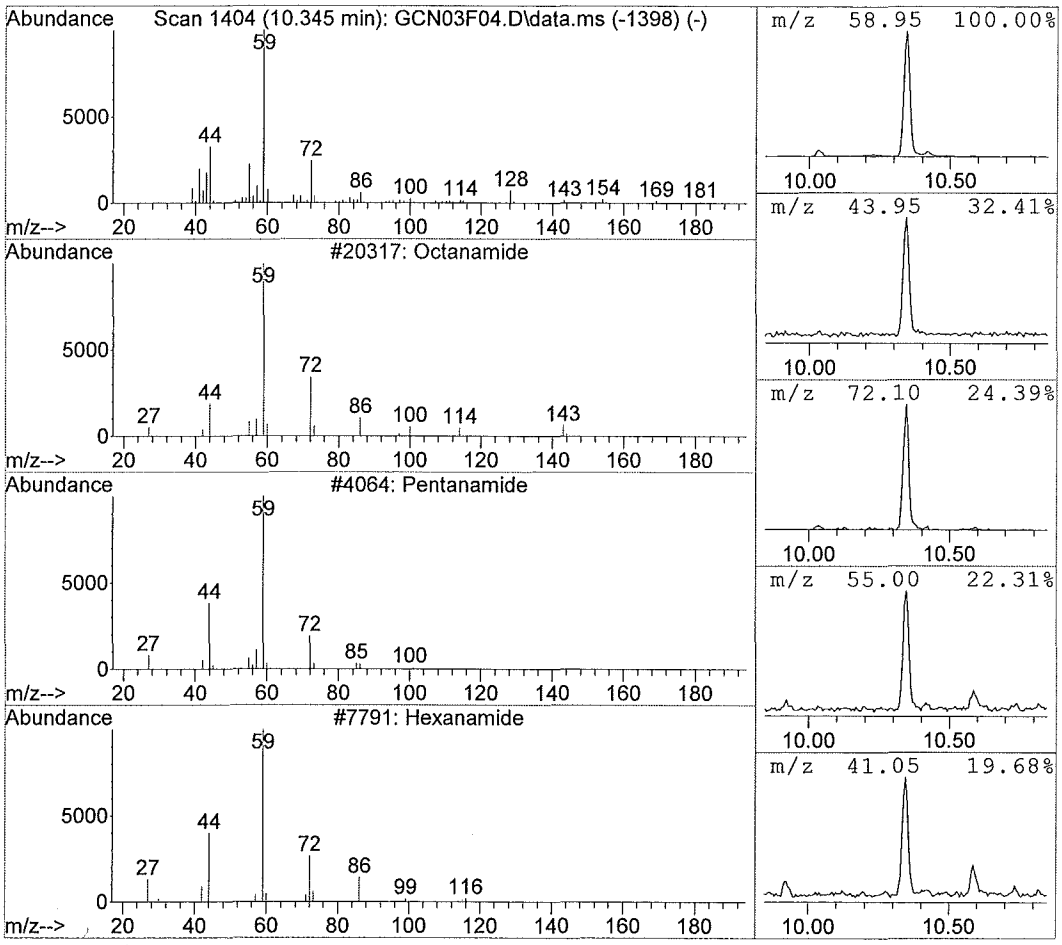
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN03F04.D Vial: 3
Acq On : 07/07/2015 15:48 Operator: TJM
Sample : 1515375004 F9L99 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.35	2.05 ug/ml	369133	Phenanthrene-d10	3599526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octanamide	20317	000629-01-6	91.00
2	Pentanamide	4064	000626-97-1	78.00
3	Hexanamide	7791	000628-02-4	72.00
4	Dodecanamide	60439	001120-16-7	72.00
5	Butanamide, 3-methyl-	4085	000541-46-8	64.00



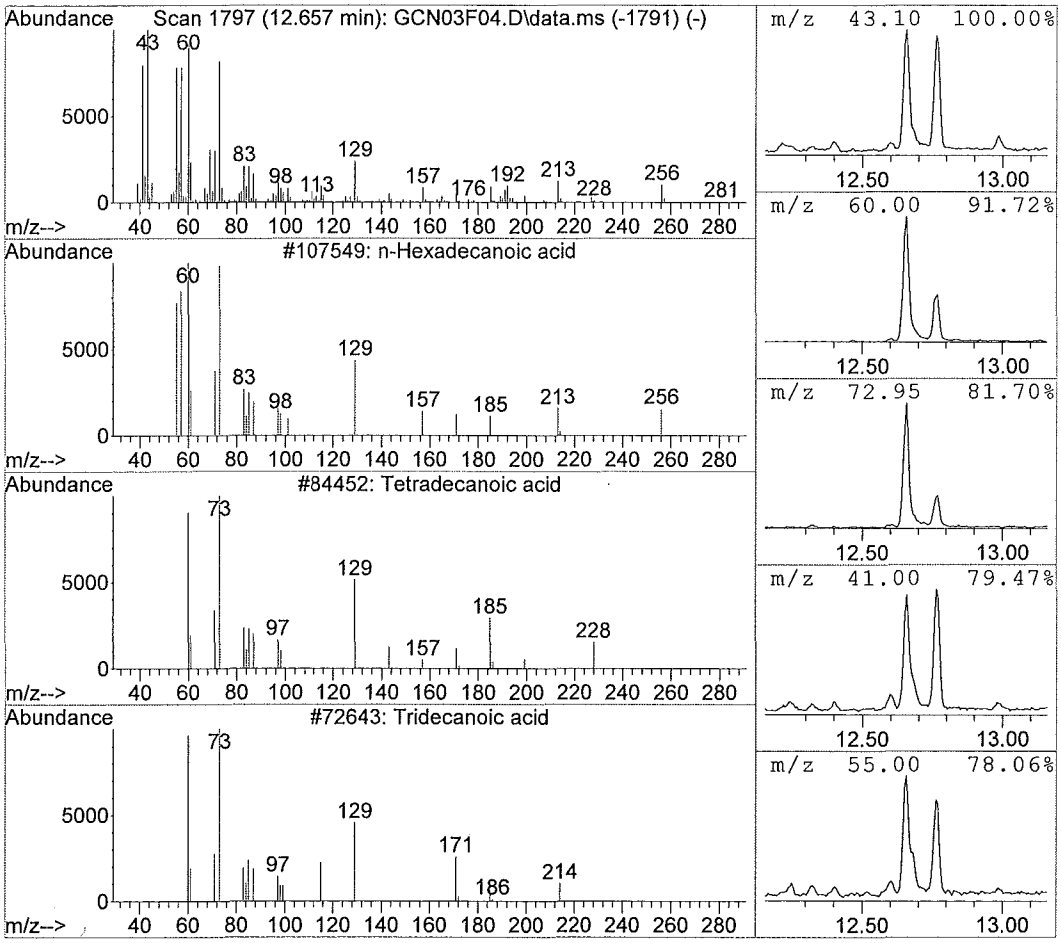
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN03F04.D Vial: 3
Acq On : 07/07/2015 15:48 Operator: TJM
Sample : 1515375004 F9L99 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.66	5.48 ug/ml	986285	Phenanthrene-d10	3599526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Tetradecanoic acid	84452	000544-63-8	80.00
3	Tridecanoic acid	72643	000638-53-9	76.00
4	Undecanoic acid	50052	000112-37-8	72.00
5	Dodecanoic acid	61120	000143-07-7	72.00



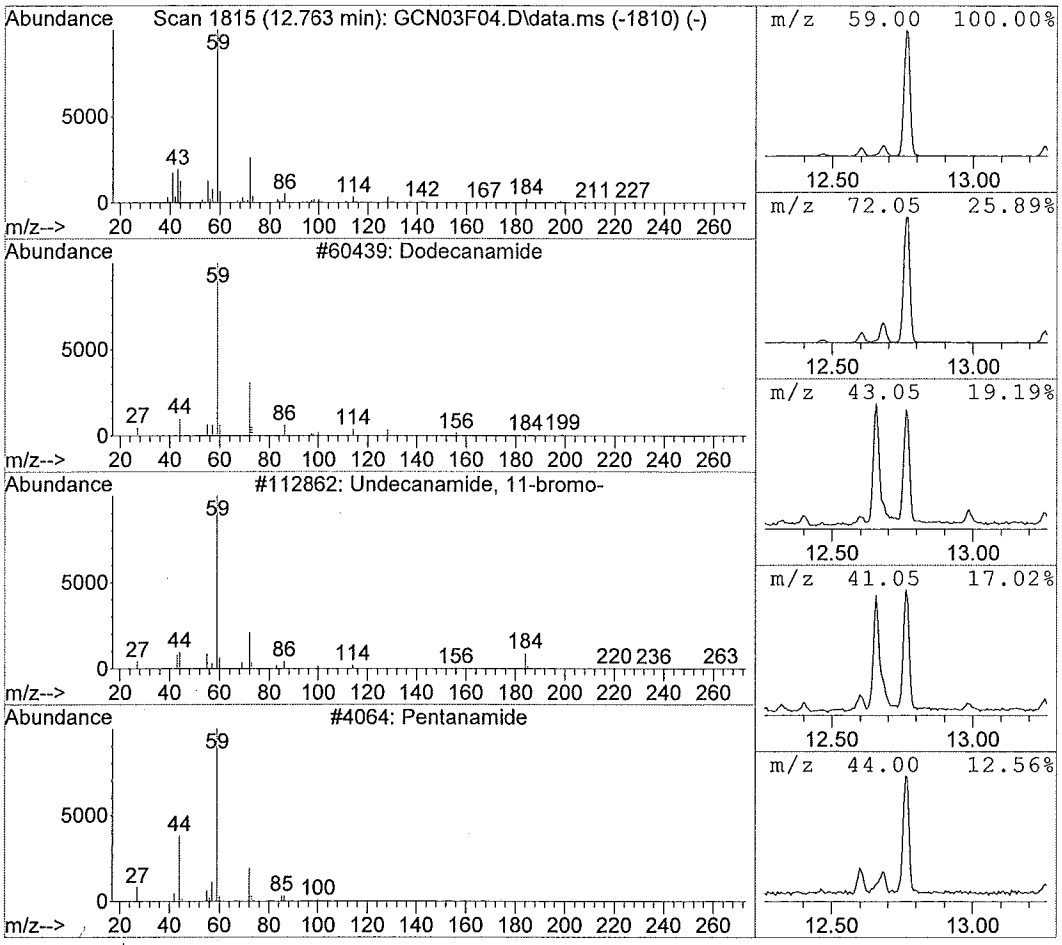
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN03F04.D Vial: 3
Acq On : 07/07/2015 15:48 Operator: TJM
Sample : 1515375004 F9L99 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.76	4.97 ug/ml	894082	Phenanthrene-d10	3599526

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	91.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
3	Pentanamide	4064	000626-97-1	80.00
4	Octanamide	20317	000629-01-6	78.00
5	Decanamide-	38977	002319-29-1	74.00



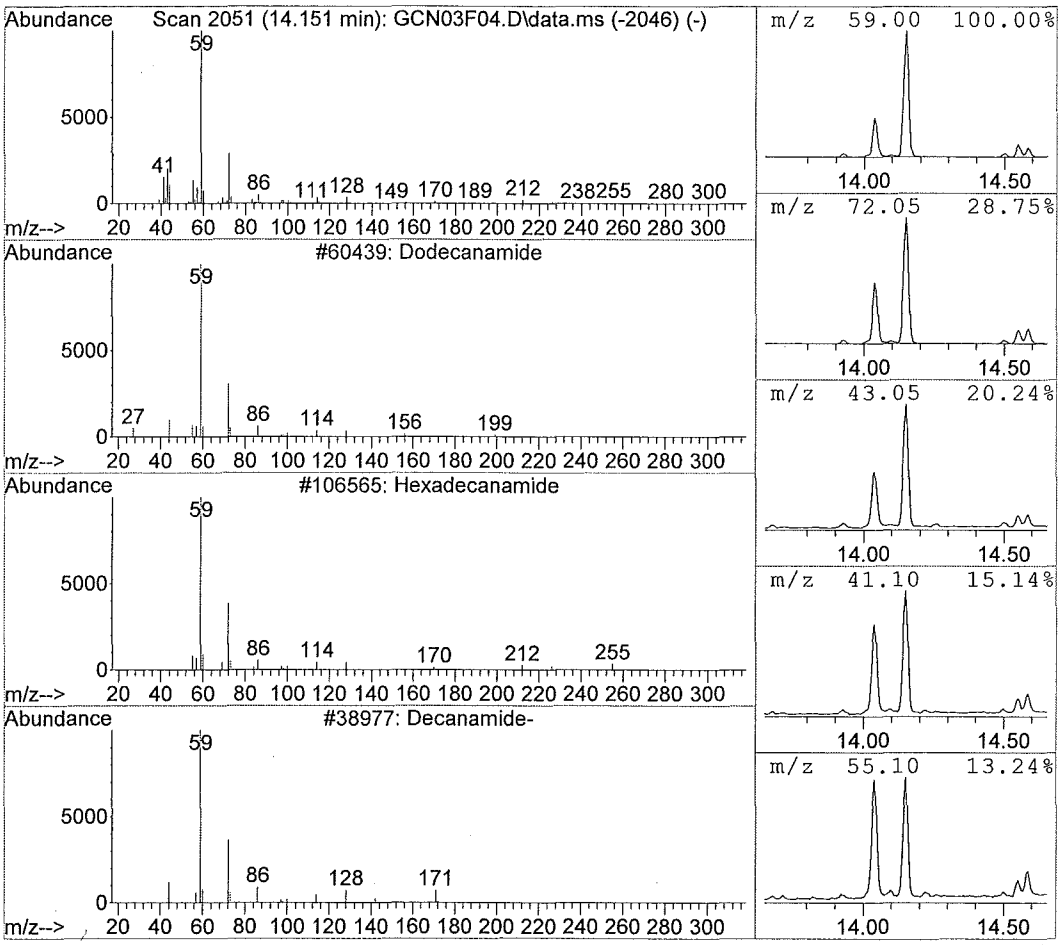
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN03F04.D Vial: 3
Acq On : 07/07/2015 15:48 Operator: TJM
Sample : 1515375004 F9L99 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	14.88 ug/ml	2976849	Chrysene-d12	4001440

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Hexadecanamide	106565	000629-54-9	87.00
3	Decanamide-	38977	002319-29-1	83.00
4	Tetradecanamide	83609	000638-58-4	78.00
5	Nonanamide	29478	001120-07-6	78.00



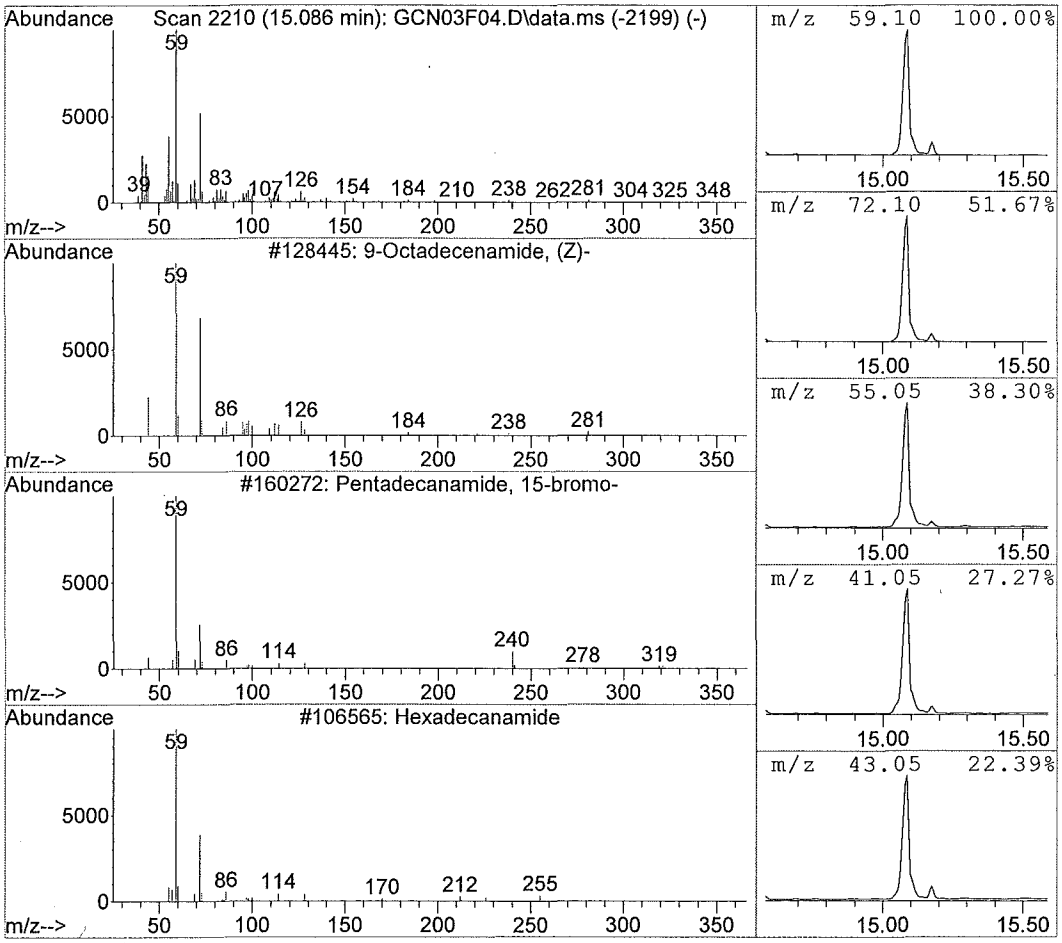
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN03F04.D Vial: 3
Acq On : 07/07/2015 15:48 Operator: TJM
Sample : 1515375004 F9L99 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.09	124.62 ug/ml	24932067	Chrysene-d12	4001440

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	80.00
3	Hexadecanamide	106565	000629-54-9	56.00
4	Decanamide-	38977	002319-29-1	56.00
5	Dodecanamide	60440	001120-16-7	45.00



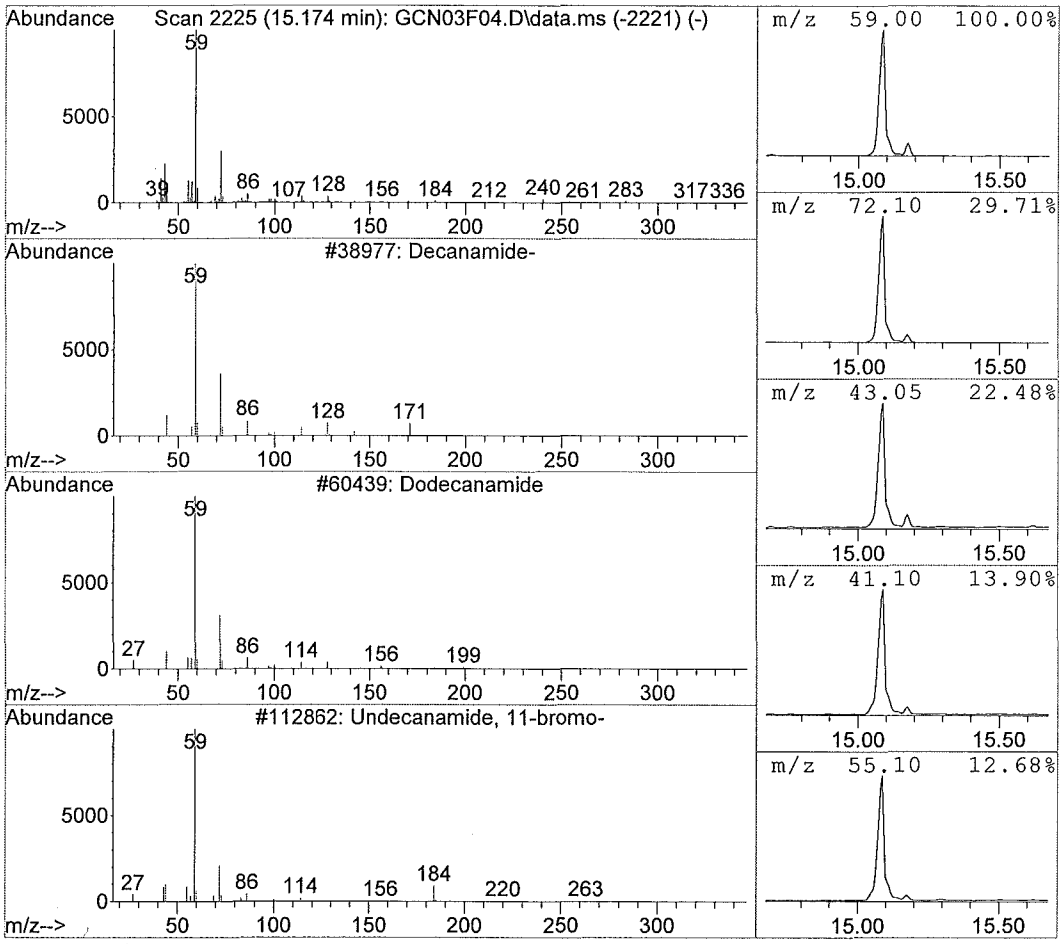
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN03F04.D Vial: 3
Acq On : 07/07/2015 15:48 Operator: TJM
Sample : 1515375004 F9L99 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	5.23 ug/ml	1046556	Chrysene-d12	4001440

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decanamide-	38977	002319-29-1	83.00
2	Dodecanamide	60439	001120-16-7	83.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
4	Hexadecanamide	106565	000629-54-9	72.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	64.00



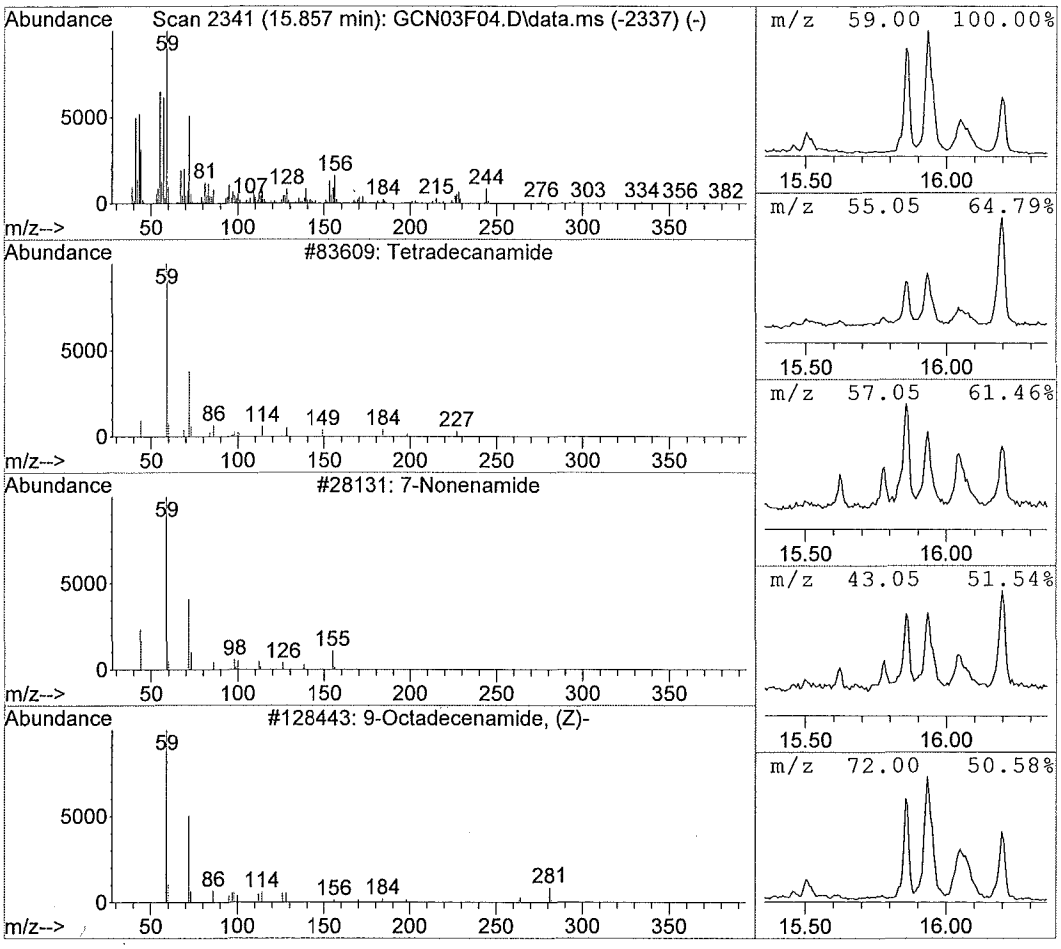
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN03F04.D Vial: 3
Acq On : 07/07/2015 15:48 Operator: TJM
Sample : 1515375004 F9L99 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.86	3.07 ug/ml	614065	Chrysene-d12	4001440

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83609	000638-58-4	70.00
2	7-Nonenamide	28131	090949-53-4	64.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	58.00
4	Octadecanamide	130204	000124-26-5	53.00
5	Hexadecanamide	106565	000629-54-9	53.00



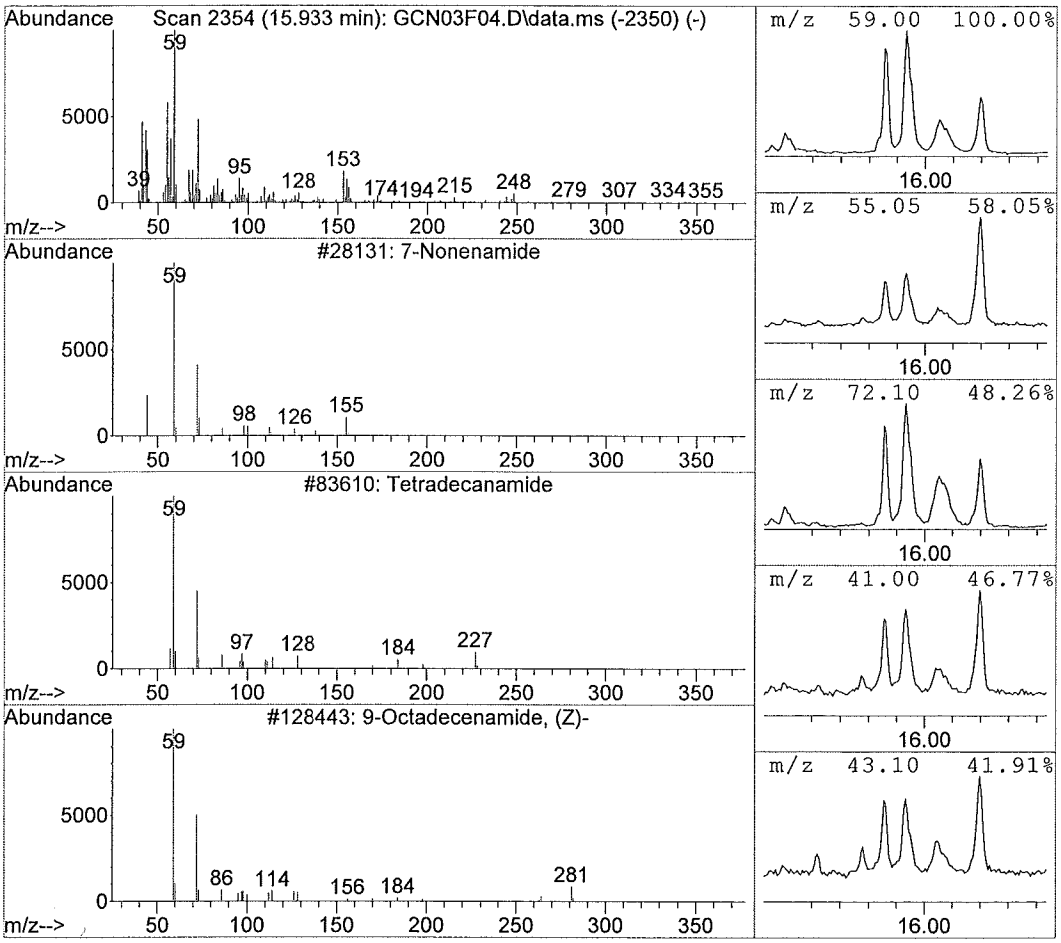
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN03F04.D Vial: 3
Acq On : 07/07/2015 15:48 Operator: TJM
Sample : 1515375004 F9L99 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.93	5.47 ug/ml	1094987	Chrysene-d12	4001440

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	81.00
2	Tetradecanamide	83610	000638-58-4	64.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	59.00
4	Hexadecanamide	106565	000629-54-9	59.00
5	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	53.00



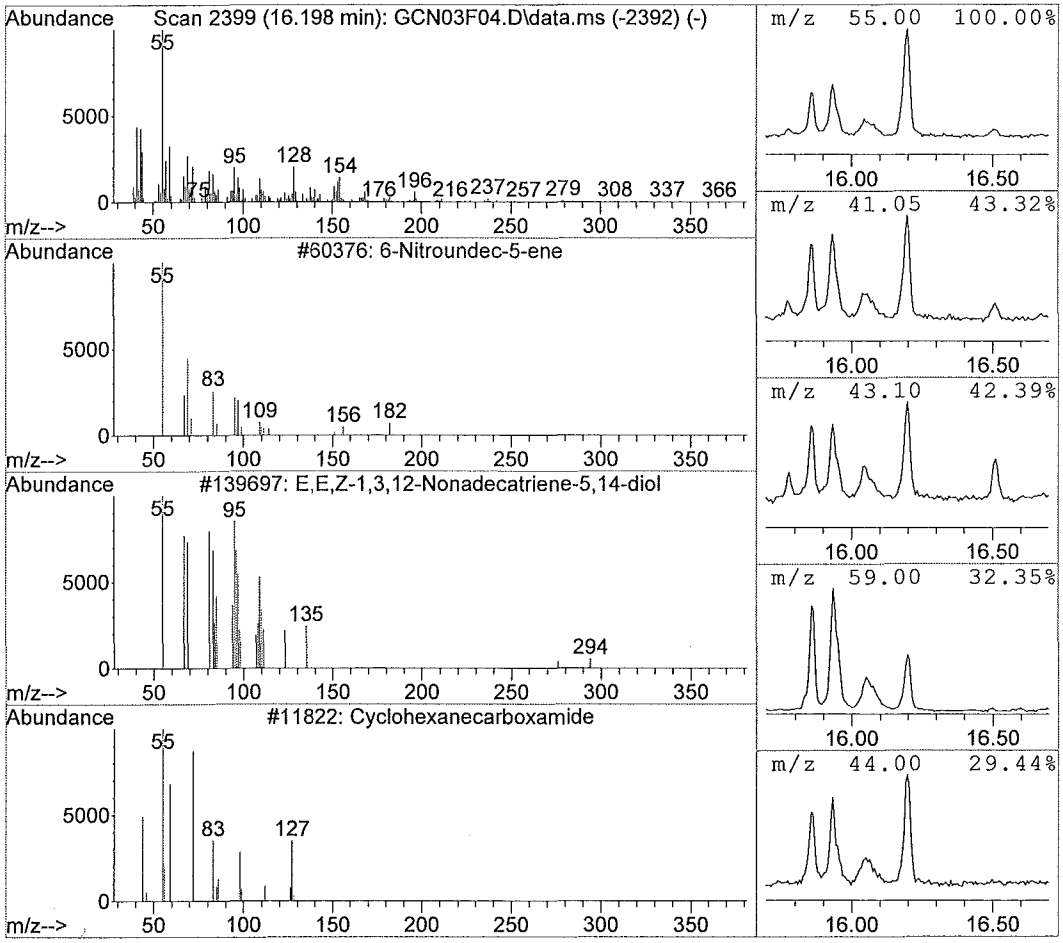
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN03F04.D Vial: 3
Acq On : 07/07/2015 15:48 Operator: TJM
Sample : 1515375004 F9L99 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	6.53 ug/ml	1305523	Chrysene-d12	4001440

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	6-Nitroundec-5-ene	60376	1000192-40-3	18.00
2	E,E,Z-1,3,12-Nonadecatriene-5,14-di	139697	1000131-11-4	18.00
3	Cyclohexanecarboxamide	11822	001122-56-1	14.00
4	5-Undecene, (Z)-	27029	000764-96-5	11.00
5	2-Undecene, (E)-	27034	000693-61-8	11.00



Library Search Compound Report

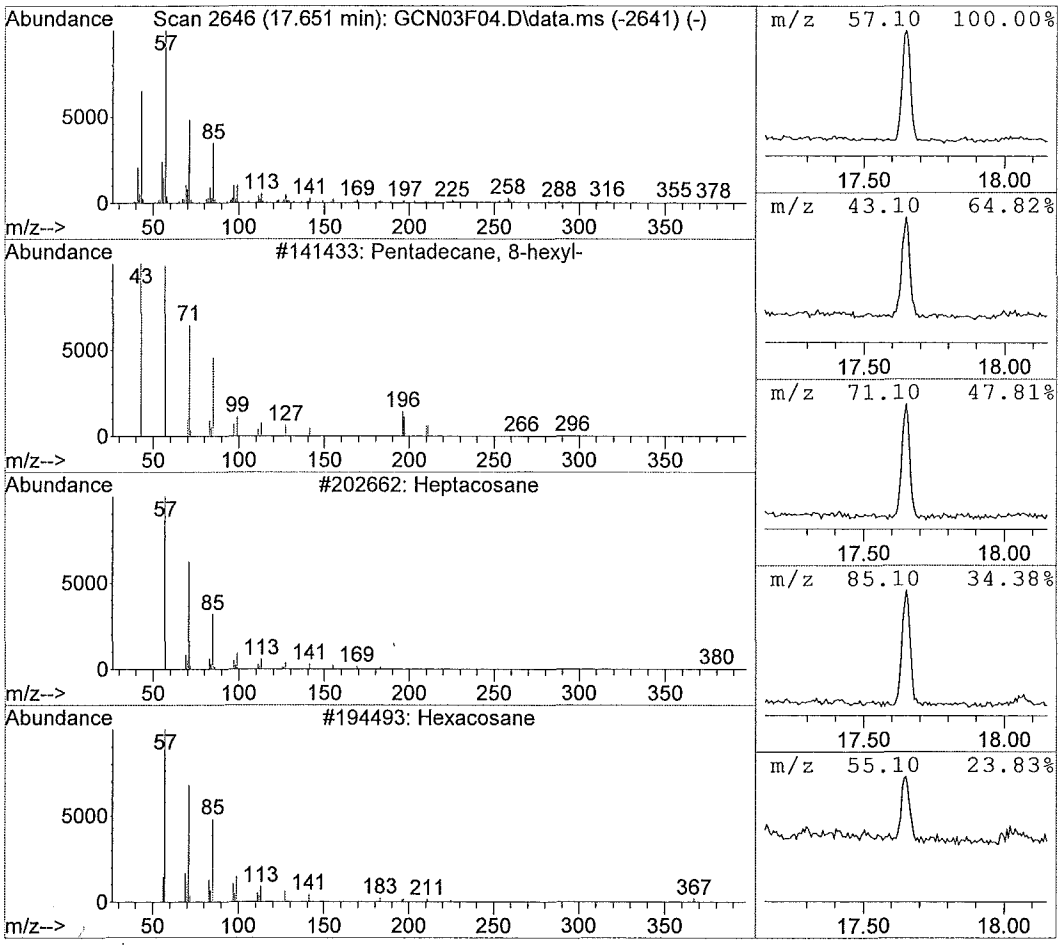
Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN03F04.D Vial: 3
Acq On : 07/07/2015 15:48 Operator: TJM
Sample : 1515375004 F9L99 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.65	3.35 ug/ml	554154	Perylene-d12	3309518

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane, 8-hexyl-	141433	013475-75-7	89.00
2	Heptacosane	202662	000593-49-7	87.00
3	Hexacosane	194493	000630-01-3	87.00
4	Heneicosane, 10-methyl-	153229	013287-25-7	86.00
5	1-Iodo-2-methylundecane	140553	073105-67-6	83.00

B.A.



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9M00

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375005

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCN04F05

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	2100	U
108-95-2	Phenol	2100	U
111-44-4	Bis(2-chloroethyl)ether	2100	U
95-57-8	2-Chlorophenol	2100	U
95-48-7	2-Methylphenol	2100	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2100	U
98-86-2	Acetophenone	2100	U
106-44-5	4-Methylphenol	2100	U
621-64-7	N-Nitroso-di-n-propylamine	2100	U
67-72-1	Hexachloroethane	2100	U
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	U
88-75-5	2-Nitrophenol	2100	U
105-67-9	2,4-Dimethylphenol	2100	U
111-91-1	Bis(2-chloroethoxy)methane	2100	U
120-83-2	2,4-Dichlorophenol	2100	U
91-20-3	Naphthalene	2100	U
106-47-8	4-Chloroaniline	2100	U
87-68-3	Hexachlorobutadiene	2100	U
105-60-2	Caprolactam	2100	U
59-50-7	4-Chloro-3-methylphenol	2100	U
91-57-6	2-Methylnaphthalene	2100	U
77-47-4	Hexachlorocyclopentadiene	2100	U
88-06-2	2,4,6-Trichlorophenol	2100	U
95-95-4	2,4,5-Trichlorophenol	2100	U
92-52-4	1,1'-Biphenyl	2100	U
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	4000	U
131-11-3	Dimethylphthalate	2100	U
606-20-2	2,6-Dinitrotoluene	2100	U
208-96-8	Acenaphthylene	200	J
99-09-2	3-Nitroaniline	4000	U
83-32-9	Acenaphthene	2100	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

F9M00

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375005

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCN04F05

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	4000	U
100-02-7	4-Nitrophenol	4000	U
132-64-9	Dibenzofuran	2100	U
121-14-2	2,4-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	2100	U
86-73-7	Fluorene	2100	U
7005-72-3	4-Chlorophenyl-phenylether	2100	U
100-01-6	4-Nitroaniline	4000	U
534-52-1	4,6-Dinitro-2-methylphenol	4000	U
86-30-6	N-Nitrosodiphenylamine[1]	2100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2100	U
101-55-3	4-Bromophenyl-phenylether	2100	U
118-74-1	Hexachlorobenzene	2100	U
1912-24-9	Atrazine	2100	U
87-86-5	Pentachlorophenol	4000	U
85-01-8	Phenanthrene	650	J
120-12-7	Anthracene	170	J
86-74-8	Carbazole	2100	U
84-74-2	Di-n-butylphthalate	2100	U
206-44-0	Fluoranthene	910	J
129-00-0	Pyrene	1200	J
85-68-7	Butylbenzylphthalate	2100	U
91-94-1	3,3'-Dichlorobenzidine	2100	U
56-55-3	Benzo(a)anthracene	800	J
218-01-9	Chrysene	1300	J
117-81-7	Bis(2-ethylhexyl)phthalate	2100	U
117-84-0	Di-n-octylphthalate	2100	U
205-99-2	Benzo(b)fluoranthene	1500	J
207-08-9	Benzo(k)fluoranthene	440	J
50-32-8	Benzo(a)pyrene	810	J
193-39-5	Indeno(1,2,3-cd)pyrene	650	J
53-70-3	Dibenzo(a,h)anthracene	160	J
191-24-2	Benzo(g,h,i)perylene	570	J
58-90-2	2,3,4,6-Tetrachlorophenol	2100	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC -
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO: F9M00

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375005

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCN04F05

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015

GPC Cleanup: (Y/N) Y pH: 7.7 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-	3.49	12000	JB
02		Unknown 1H-Pyrrole-2,5-dione	4.28	1600	J
03		Unknown Hexanamide	10.35	1100	J
04	638-58-4	Tetradecanamide	12.76	1700	JN
05	1120-16-7	Dodecanamide	14.15	4800	JN
06	301-02-0	9-Octadecenamide, (Z)-	15.08	32000	JNB
07	629-54-9	Hexadecanamide	15.17	1600	JNB
08		Unknown Tetradecanamide	15.86	1400	J
09		Unknown 9-Octadecenamide, (Z)-	15.93	2100	JB
10		Unknown Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimet	16.20	2500	J
11	192-97-2	Benzo[e]pyrene	17.84	930	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	3100	J

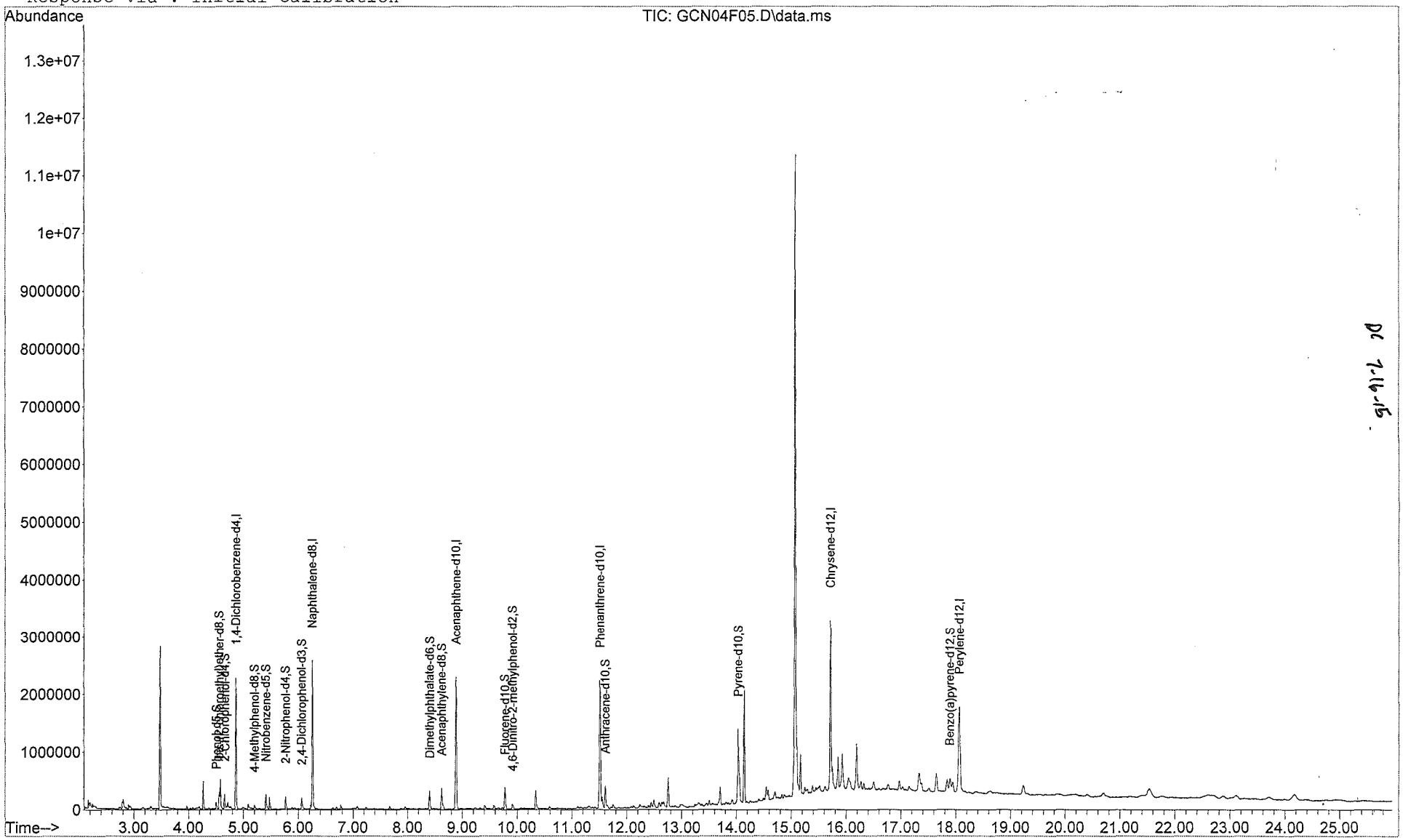
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN04F05.D Vial: 4
Acq On : 07/07/2015 16:21 Operator: TJM
Sample : 1515375005 F9M00 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 16 08:14:43 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration



DC 7-16-15

Quantitation Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN04F05.D Vial: 4
Acq On : 07/07/2015 16:21 Operator: TJM
Sample : 1515375005 F9M00 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 08:14:43 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	319465	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1215096	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	727528	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1227953	20.00 ug/ml
73) Chrysene-d12	15.72	240	1245381	20.00 ug/ml
81) Perylene-d12	18.07	264	1075469	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	41681	1.499ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	56638	2.614ug/mL
7) 2-Chlorophenol-d4	4.66	132	63395	2.701ug/ml
13) 4-Methylphenol-d8	5.20	113	14927	0.803ug/mL
17) Nitrobenzene-d5	5.42	128	31679	2.968ug/ml
21) 2-Nitrophenol-d4	5.77	143	34207	3.032ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	45876	2.611ug/mL
28) 4-Chloroaniline-d4	6.33	131	5194	0.271ug/mL
42) Dimethylphthalate-d6	8.41	166	157605	3.455ug/mL
45) Acenaphthylene-d8	8.63	160	201250	3.246ug/mL
50) 4-Nitrophenol-d4	9.16	143	234	0.025ug/mL
57) Fluorene-d10	9.78	176	138260	3.549ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	13937	1.599ug/mL
69) Anthracene-d10	11.62	188	219333	3.368ug/mL
75) Pyrene-d10	14.03	212	213187	3.430ug/mL
86) Benzo(a)pyrene-d12	17.90	264	161031	3.125ug/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:\DJC\Data\2015\F9L98\07JUL15\GCN04F05.D Vial: 4
Acq On : 07/07/2015 16:21 Operator: TJM
Sample : 1515375005 F9M00 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 08:14:43 2015 Results File: GSOM01D6.RES

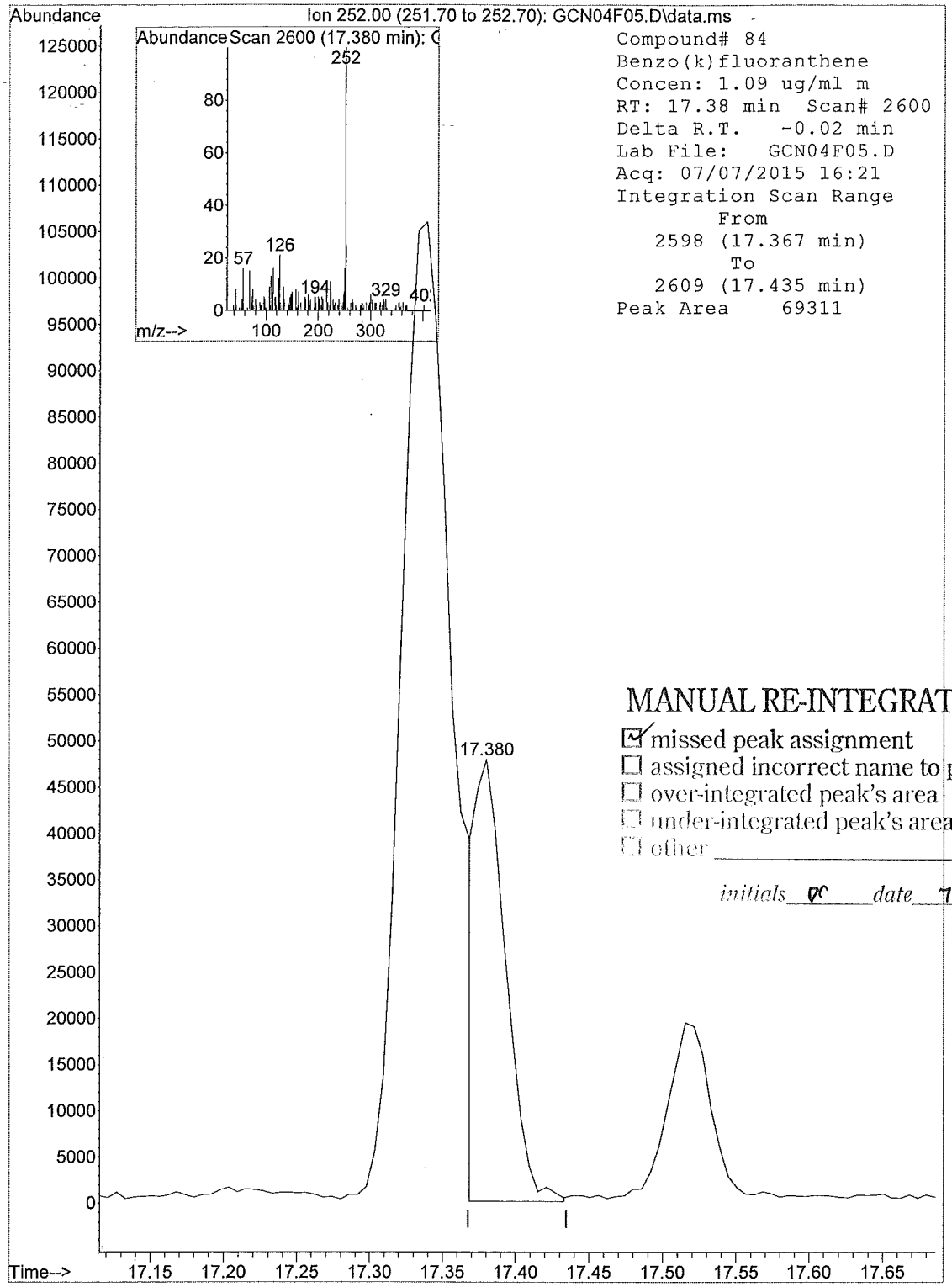
Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	8.65	152	31617	0.480ug/ml	95
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	11.56	178	104306	1.593ug/ml	99
68)	Anthracene	11.65	178	27492	0.411ug/ml	92
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	13.71	202	161861	2.243ug/ml	96
74)	Pyrene	14.06	202	231722	2.923ug/ml	96
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.71	228	148397	1.964ug/ml	82
79)	Chrysene	15.76	228	210019	3.078ug/ml	97
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.34	252	252905	3.754ug/ml	98
84)	Benzo(k)fluoranthene	17.38	252	69311	1.089ug/ml m	98
85)	Benzo(a)pyrene	17.95	252	126059	1.989ug/ml	94
87)	Indeno(1,2,3-c,d)pyrene	20.70	276	88712	1.583ug/ml	96
88)	Dibenzo(a,h)anthracene	20.76	278	22553	0.402ug/ml m	95
89)	Benzo(g,h,i)perylene	21.52	276	76532	1.387ug/ml	78

pc 7-16-15

(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

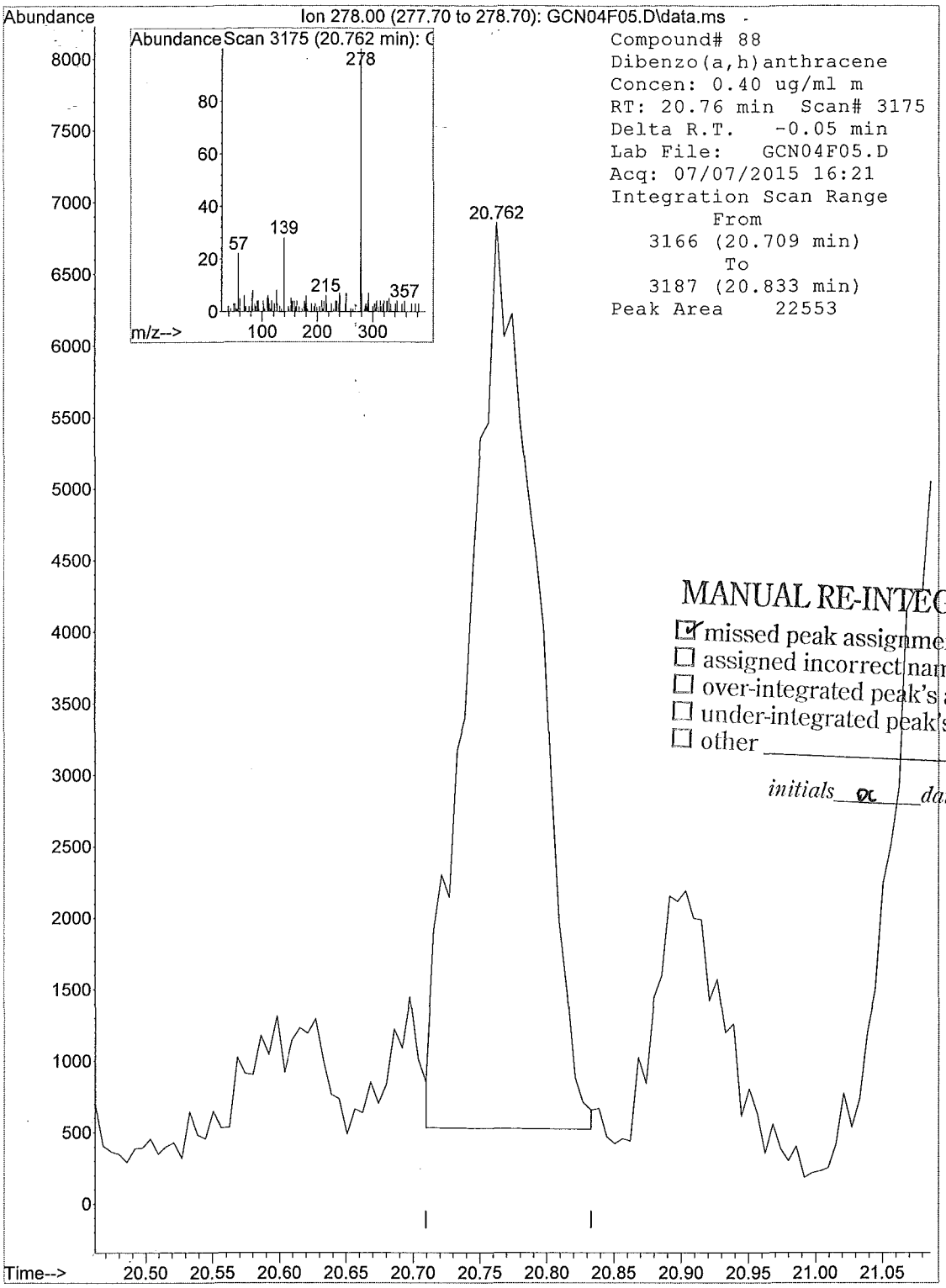


MANUAL RE-INTEGRATION

- [x] missed peak assignment
- [ ] assigned incorrect name to peak
- [ ] over-integrated peak's area
- [ ] under-integrated peak's area
- [ ] other _____

initials DC *date* 7-16-15

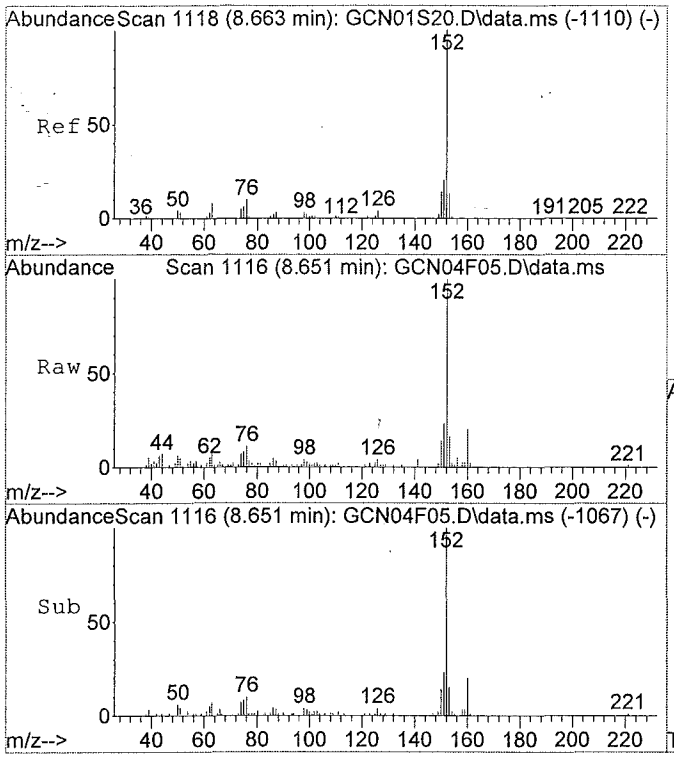
M A N U A L I N T E G R A T I O N FOR Dibenzo(a,h)anthracene



MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

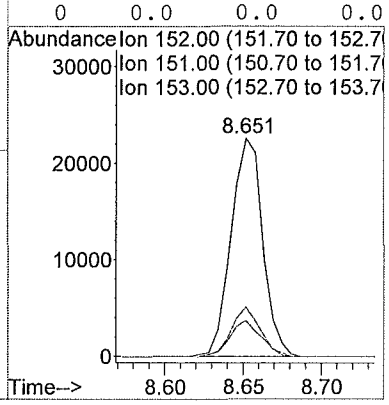
initials OC *date* 7-16-15

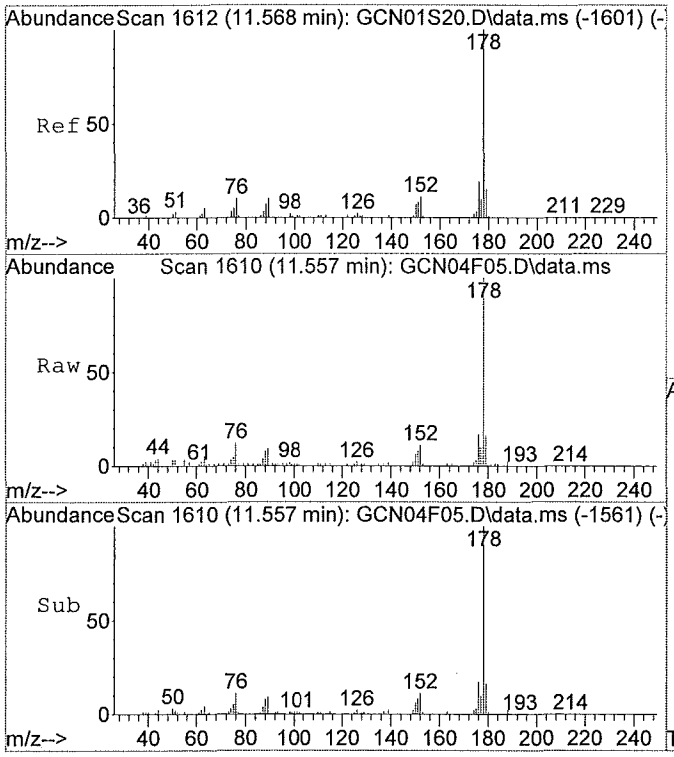


#44
Acenaphthylene
Concen: 0.48 ug/ml
RT: 8.65 min Scan# 1116
Delta R.T. -0.01 min
Lab File: GCN04F05.D
Acq: 07/07/2015 16:21

Tgt Ion:152 Resp: 31617

Ion	Ratio	Lower	Upper
152	100		
151	20.7	13.4	25.0
153	16.0	9.1	16.9
0	0.0	0.0	0.0

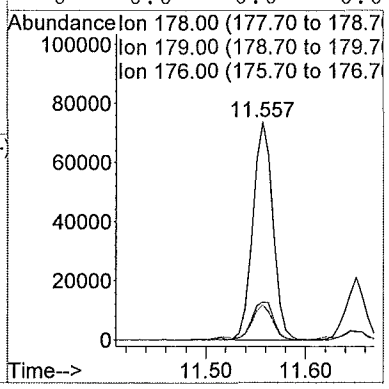


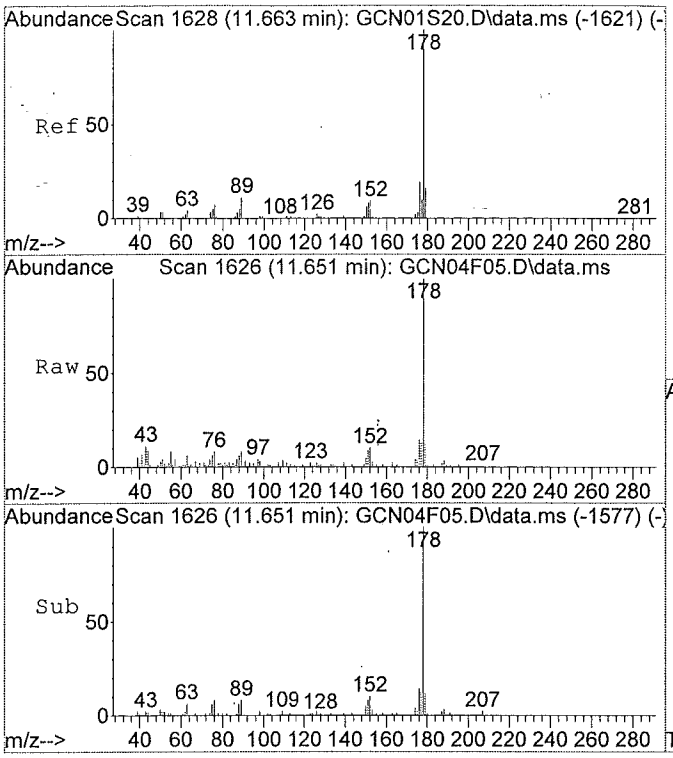


#67
Phenanthrene
Concen: 1.59 ug/ml
RT: 11.56 min Scan# 1610
Delta R.T. -0.01 min
Lab File: GCN04F05.D
Acq: 07/07/2015 16:21

Tgt Ion:178 Resp: 104306

Ion	Ratio	Lower	Upper
178	100		
179	16.4	10.6	19.8
176	19.0	13.2	24.4
0	0.0	0.0	0.0

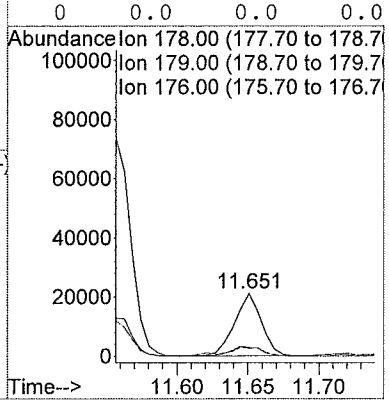


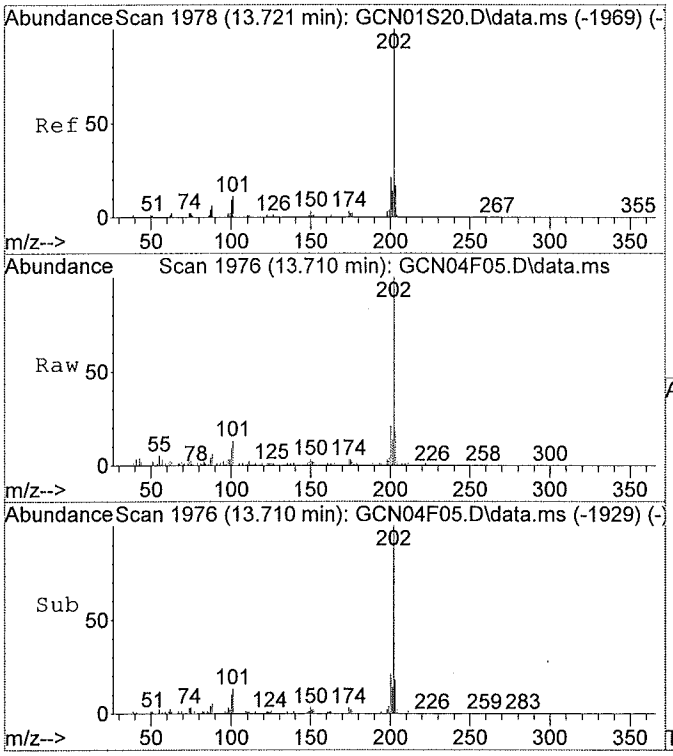


#68
Anthracene
Concen: 0.41 ug/ml
RT: 11.65 min Scan# 1626
Delta R.T. -0.01 min
Lab File: GCN04F05.D
Acq: 07/07/2015 16:21

Tgt Ion:178 Resp: 27492

Ion	Ratio	Lower	Upper
178	100		
179	21.7	10.5	19.5#
176	18.2	12.7	23.5
0	0.0	0.0	0.0

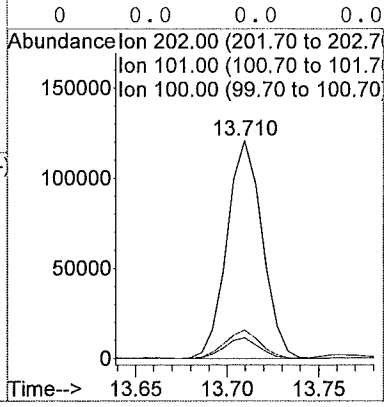


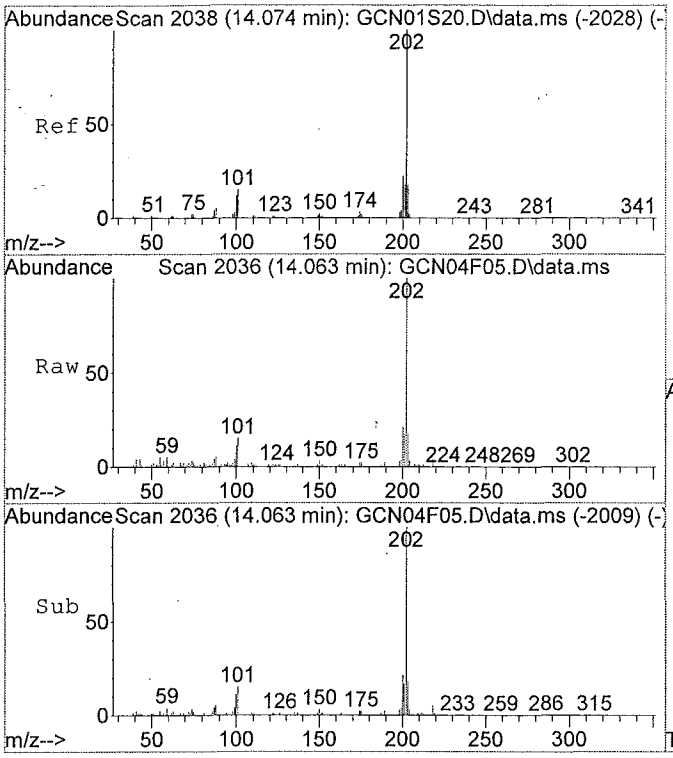


#72
Fluoranthene
Concen: 2.24 ug/ml
RT: 13.71 min Scan# 1976
Delta R.T. -0.01 min
Lab File: GCN04F05.D
Acq: 07/07/2015 16:21

Tgt Ion:202 Resp: 161861

Ion	Ratio	Lower	Upper
202	100		
101	13.2	10.5	19.5
100	9.6	7.4	13.8
0	0.0	0.0	0.0

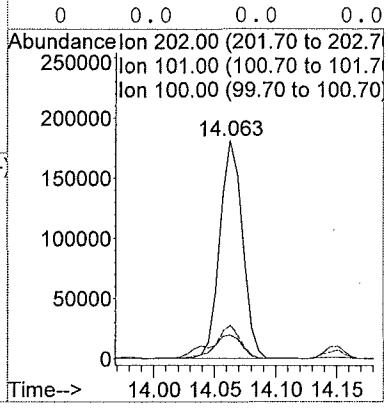


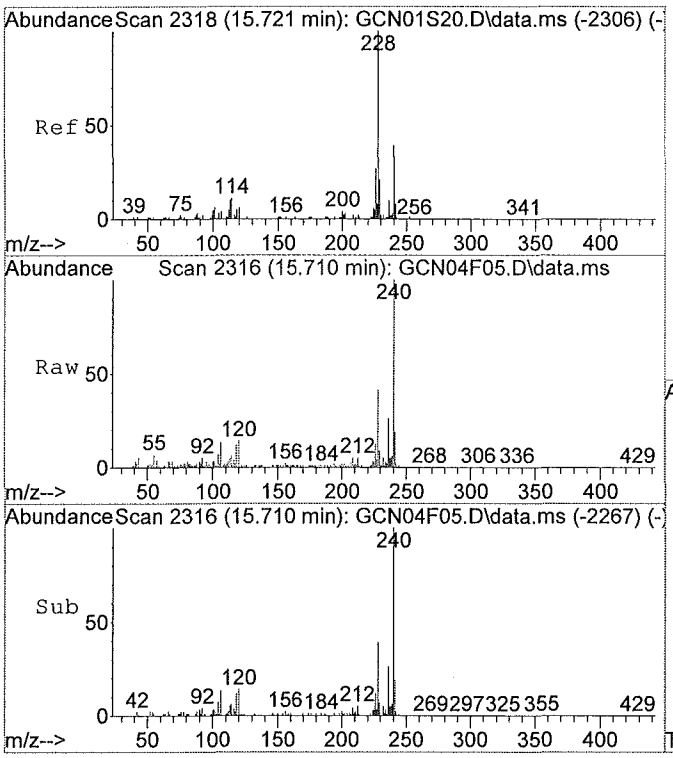


#74
Pyrene
Concen: 2.92 ug/ml
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: GCN04F05.D
Acq: 07/07/2015 16:21

Tgt Ion:202 Resp: 231722

Ion	Ratio	Lower	Upper
202	100		
101	17.2	12.2	22.7
100	17.9	10.1	18.7
0	0.0	0.0	0.0

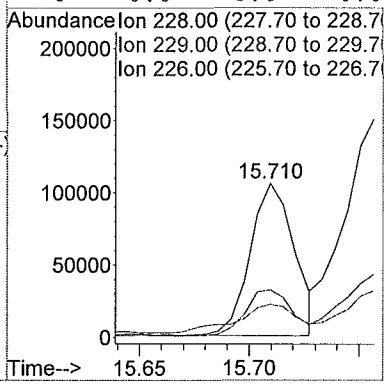


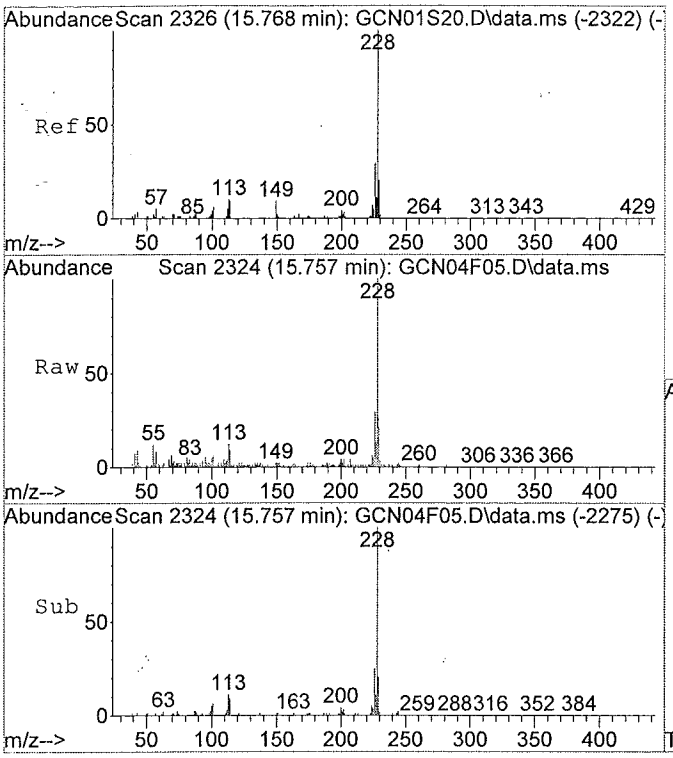


#78
Benzo(a)anthracene
Concen: 1.96 ug/ml
RT: 15.71 min Scan# 2316
Delta R.T. -0.01 min
Lab File: GCN04F05.D
Acq: 07/07/2015 16:21

Tgt Ion:228 Resp: 148397

Ion	Ratio	Lower	Upper
228	100		
229	30.4	13.7	25.5#
226	32.7	18.2	33.8
0	0.0	0.0	0.0

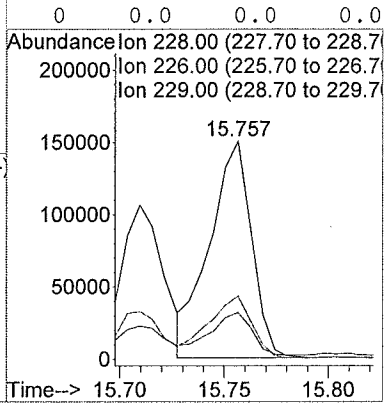


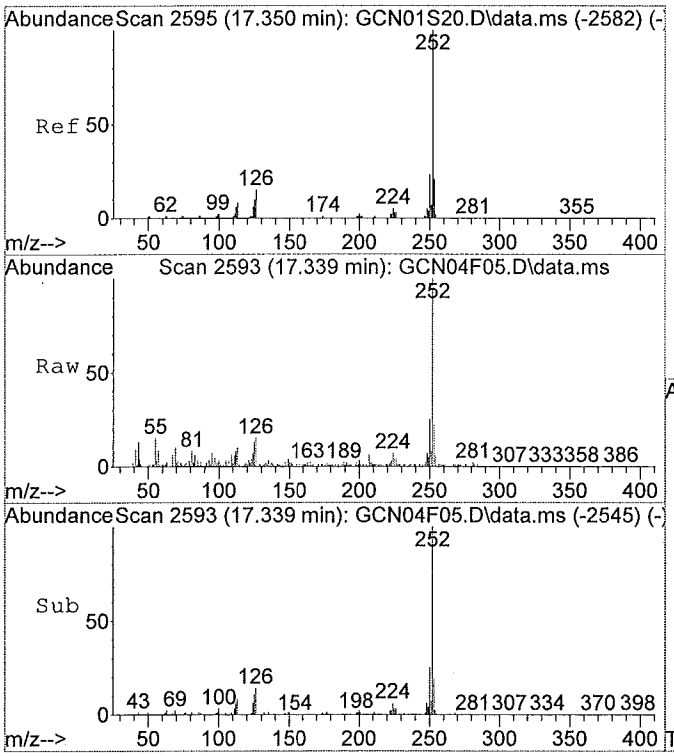


#79
Chrysene
Concen: 3.08 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCN04F05.D
Acq: 07/07/2015 16:21

Tgt Ion:228 Resp: 210019

Ion	Ratio	Lower	Upper
228	100		
226	29.7	20.1	37.3
229	22.2	13.7	25.5
0	0.0	0.0	0.0

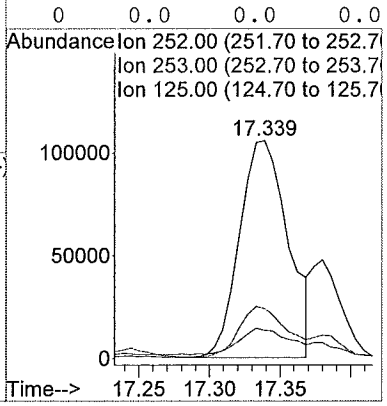


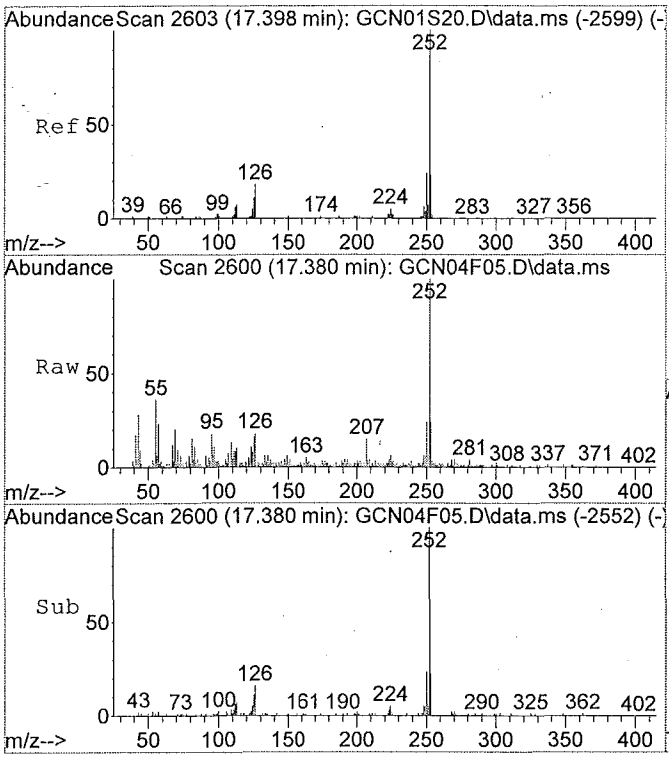


#83
Benzo(b)fluoranthene
Concen: 3.75 ug/ml
RT: 17.34 min Scan# 2593
Delta R.T. -0.01 min
Lab File: GCN04F05.D
Acq: 07/07/2015 16:21

Tgt Ion:252 Resp: 252905

Ion	Ratio	Lower	Upper
252	100		
253	22.6	15.1	28.1
125	16.2	10.6	19.8
0	0.0	0.0	0.0

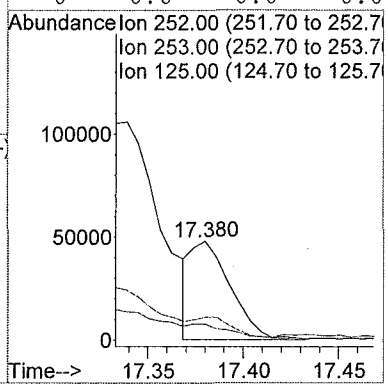


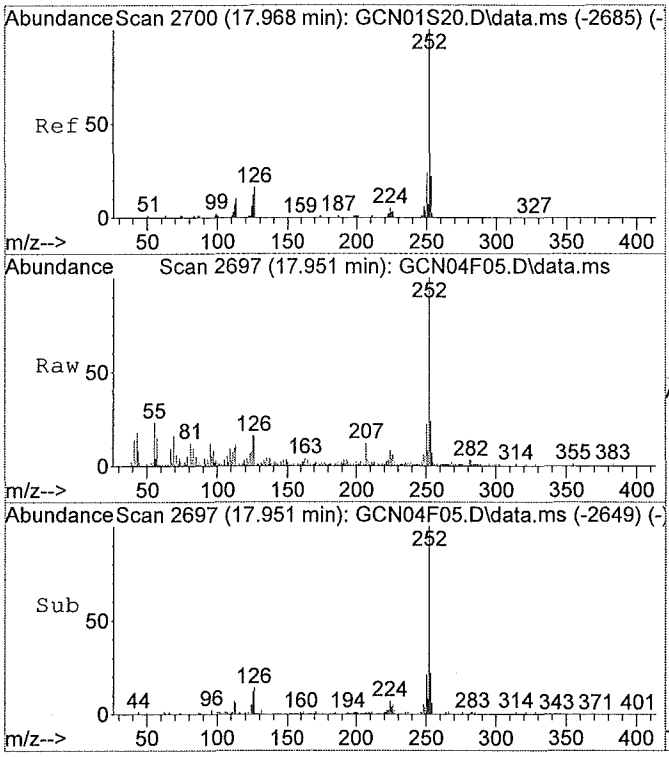


#84
Benzo(k)fluoranthene
Concen: 1.09 ug/ml m
RT: 17.38 min Scan# 2600
Delta R.T. -0.02 min
Lab File: GCN04F05.D
Acq: 07/07/2015 16:21

Tgt Ion:252 Resp: 69311

Ion	Ratio	Lower	Upper
252	100		
253	82.5	15.1	28.1#
125	59.1	10.7	19.9#
0	0.0	0.0	0.0

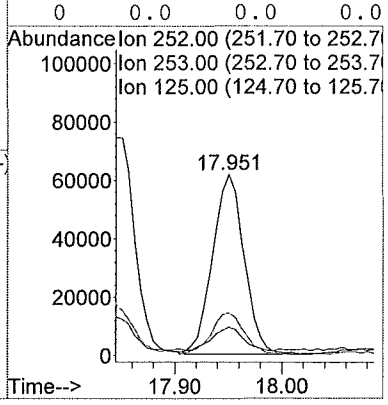


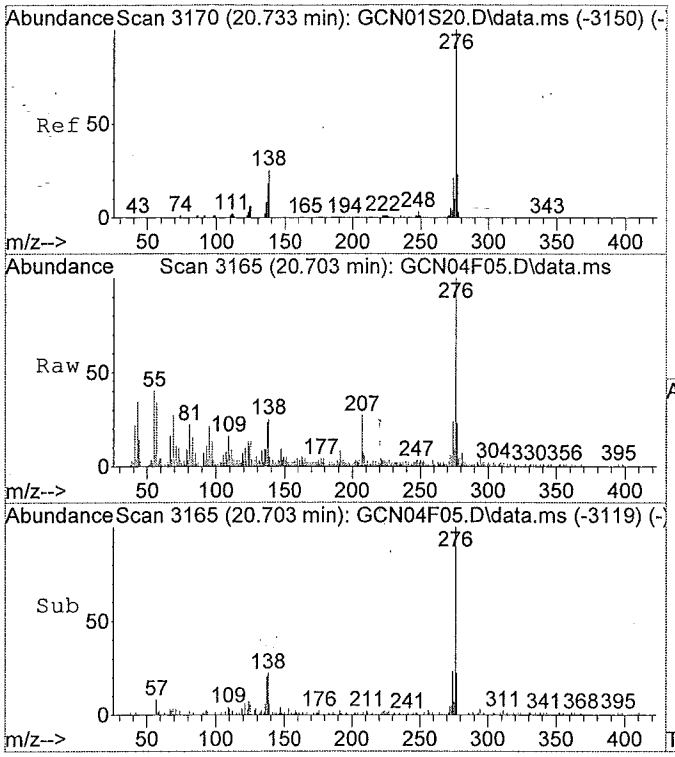


#85
Benzo(a)pyrene
Concen: 1.99 ug/ml
RT: 17.95 min Scan# 2697
Delta R.T. -0.02 min
Lab File: GCN04F05.D
Acq: 07/07/2015 16:21

Tgt Ion:252 Resp: 126059

Ion	Ratio	Lower	Upper
252	100		
253	24.2	15.2	28.2
125	13.4	11.8	21.8
0	0.0	0.0	0.0

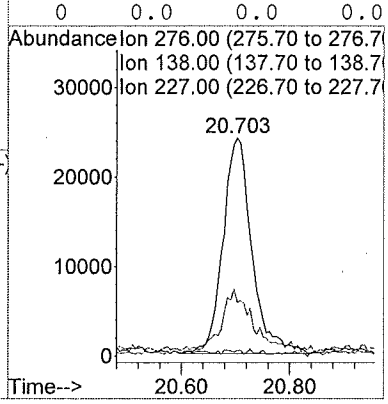


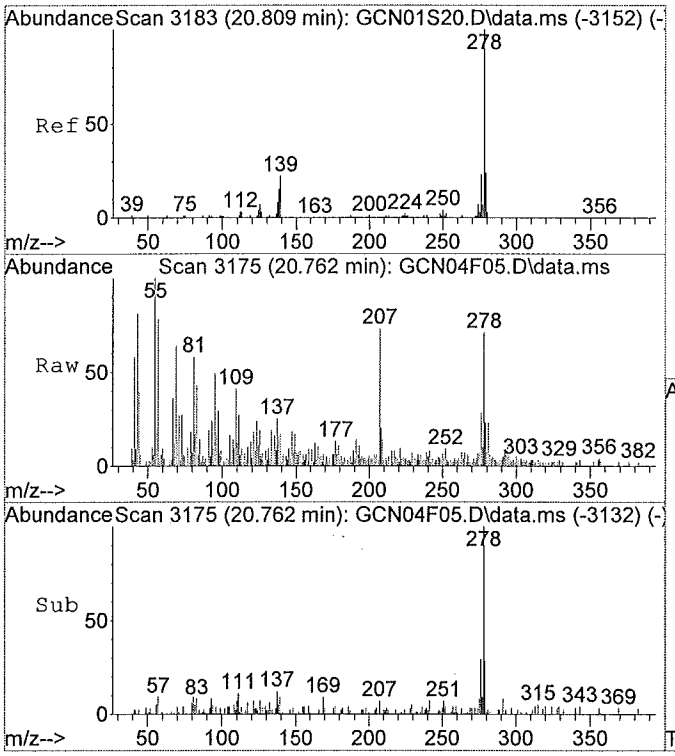


#87
Indeno(1,2,3-c,d)pyrene
Concen: 1.58 ug/ml
RT: 20.70 min Scan# 3165
Delta R.T. -0.03 min
Lab File: GCN04F05.D
Acq: 07/07/2015 16:21

Tgt Ion:276 Resp: 88712

Ion	Ratio	Lower	Upper
276	100		
138	29.6	22.3	41.5
227	0.7	0.1	0.1#
0	0.0	0.0	0.0

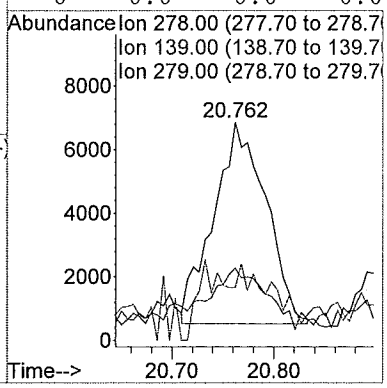


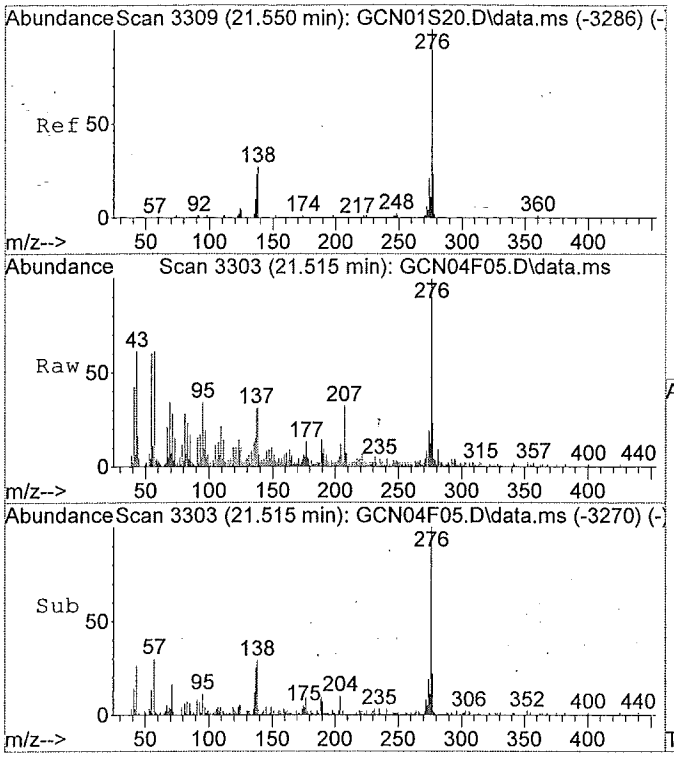


#88
Dibenzo(a,h)anthracene
Concen: 0.40 ug/ml m
RT: 20.76 min Scan# 3175
Delta R.T. -0.05 min
Lab File: GCN04F05.D
Acq: 07/07/2015 16:21

Tgt Ion:278 Resp: 22553

Ion	Ratio	Lower	Upper
278	100		
139	1.3	17.3	32.1#
279	1.0	16.3	30.3#
0	0.0	0.0	0.0

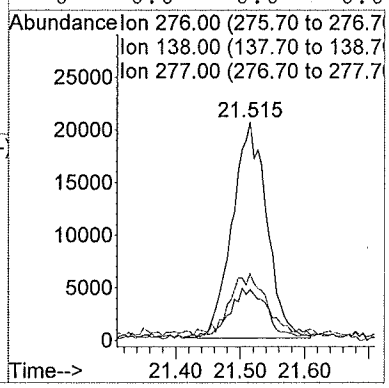




#89
Benzo(g,h,i)perylene
Concen: 1.39 ug/ml
RT: 21.52 min Scan# 3303
Delta R.T. -0.04 min
Lab File: GCN04F05.D
Acq: 07/07/2015 16:21

Tgt Ion:276 Resp: 76532

Ion	Ratio	Lower	Upper
276	100		
138	13.2	24.1	44.7#
277	23.4	16.7	30.9
0	0.0	0.0	0.0



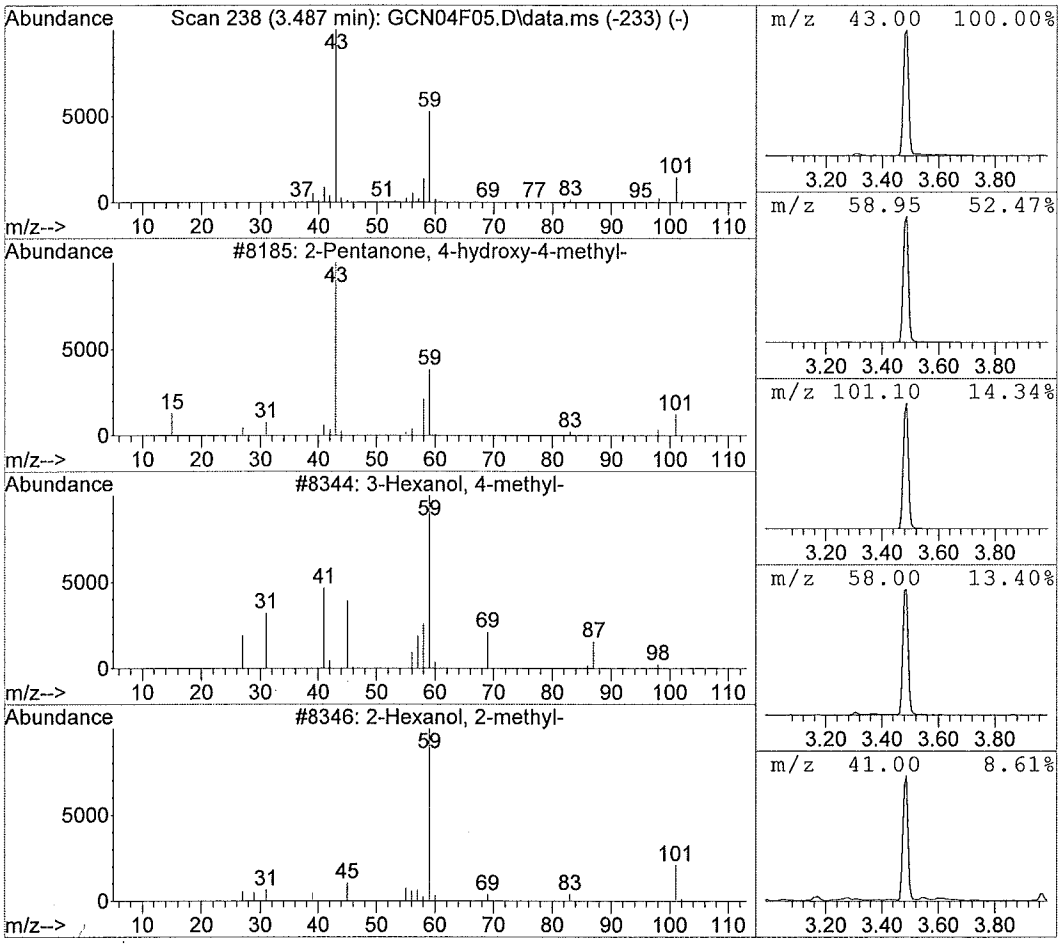
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN04F05.D Vial: 4
Acq On : 07/07/2015 16:21 Operator: TJM
Sample : 1515375005 F9M00 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.49	30.28 ug/ml	3484280	1,4-Dichlorobenzene-d4	2301549

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	23.00
5	2,3-Butanedione, monooxime	4030	000057-71-6	9.00



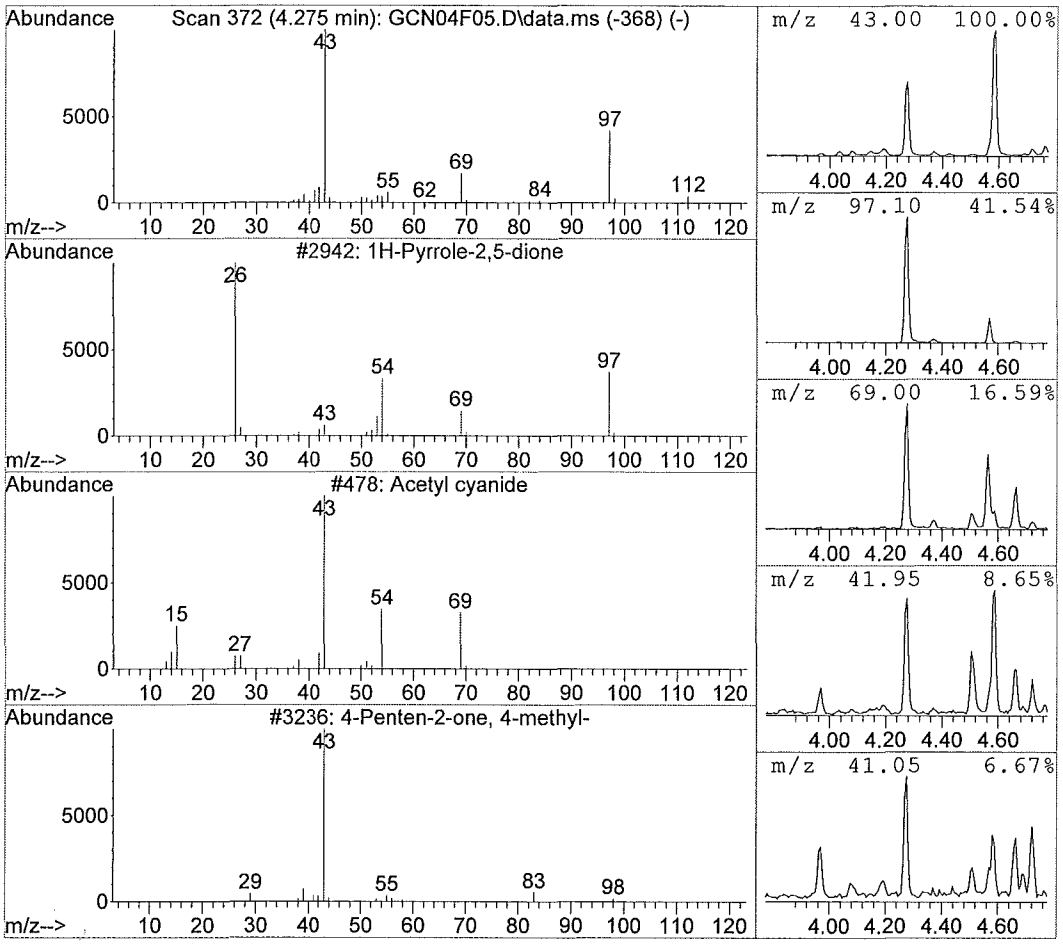
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN04F05.D Vial: 4
Acq On : 07/07/2015 16:21 Operator: TJM
Sample : 1515375005 F9M00 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.28	3.94 ug/ml	453426	1,4-Dichlorobenzene-d4	2301549

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	42.00
2	Acetyl cyanide	478	000631-57-2	9.00
3	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
4	2,6,6-Trimethyl-bicyclo[3.1.1]hept-	26216	069460-11-3	9.00
5	5-Hexen-2-one	3158	000109-49-9	9.00



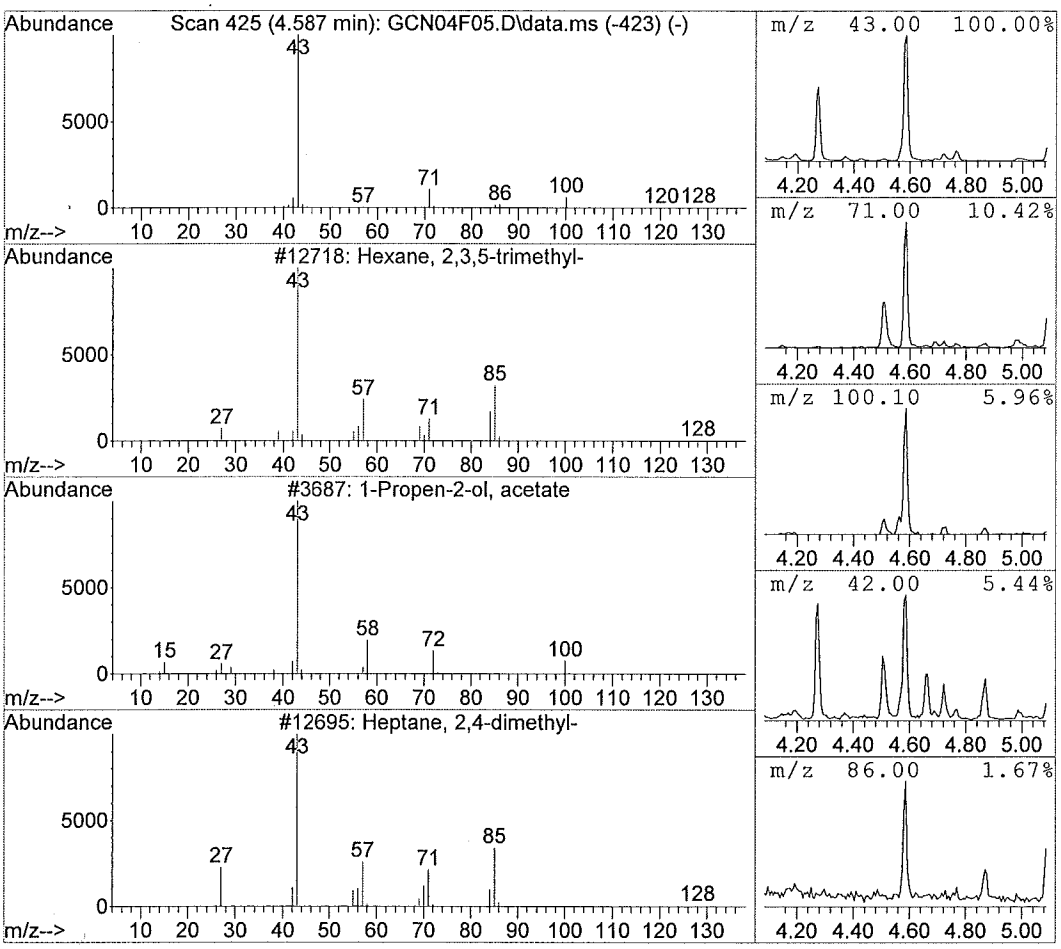
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN04F05.D Vial: 4
Acq On : 07/07/2015 16:21 Operator: TJM
Sample : 1515375005 F9M00 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.59	3.92 ug/ml	450850	1,4-Dichlorobenzene-d4	2301549

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	9.00
2	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
3	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
4	Heptane	3971	000142-82-5	5.00
5	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00



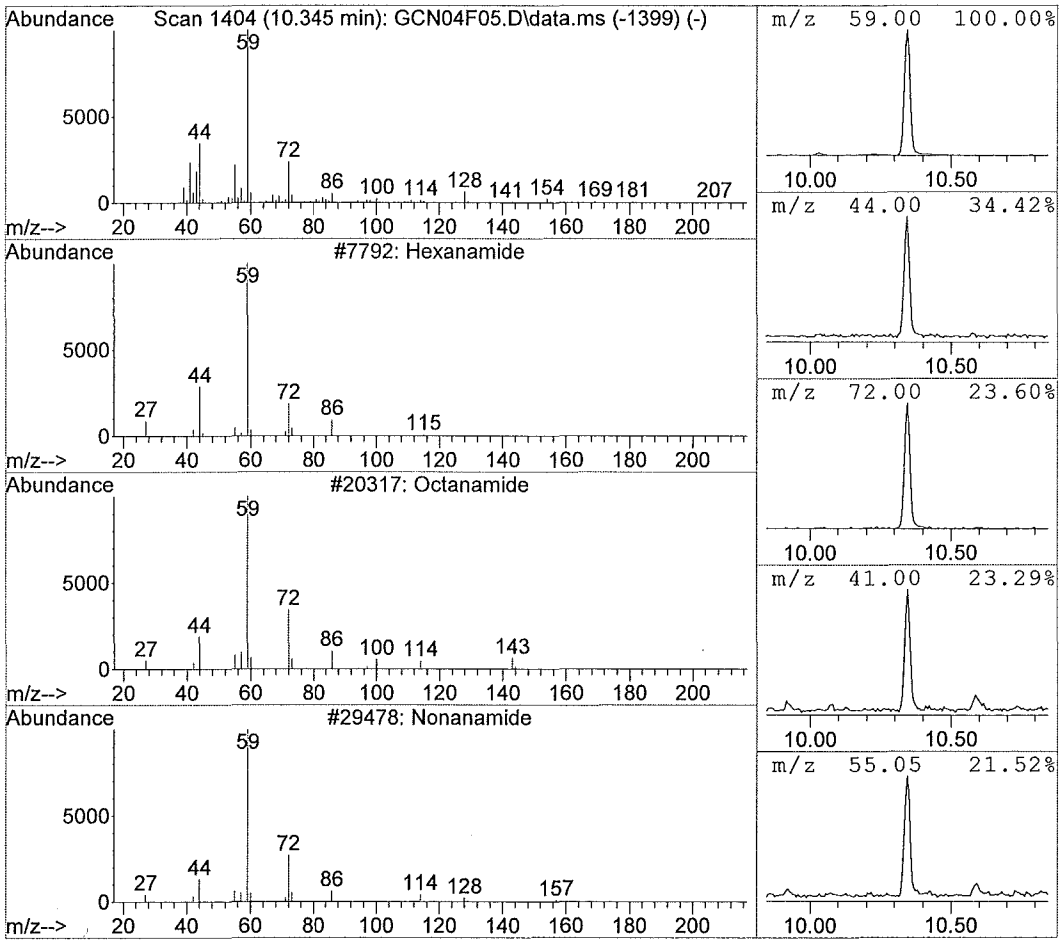
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN04F05.D Vial: 4
Acq On : 07/07/2015 16:21 Operator: TJM
Sample : 1515375005 F9M00 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.35	2.63 ug/ml	450094	Phenanthrene-d10	3426124

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexanamide	7792	000628-02-4	80.00
2	Octanamide	20317	000629-01-6	78.00
3	Nonanamide	29478	001120-07-6	74.00
4	Dodecanamide	60439	001120-16-7	72.00
5	Pentanamide	4064	000626-97-1	72.00



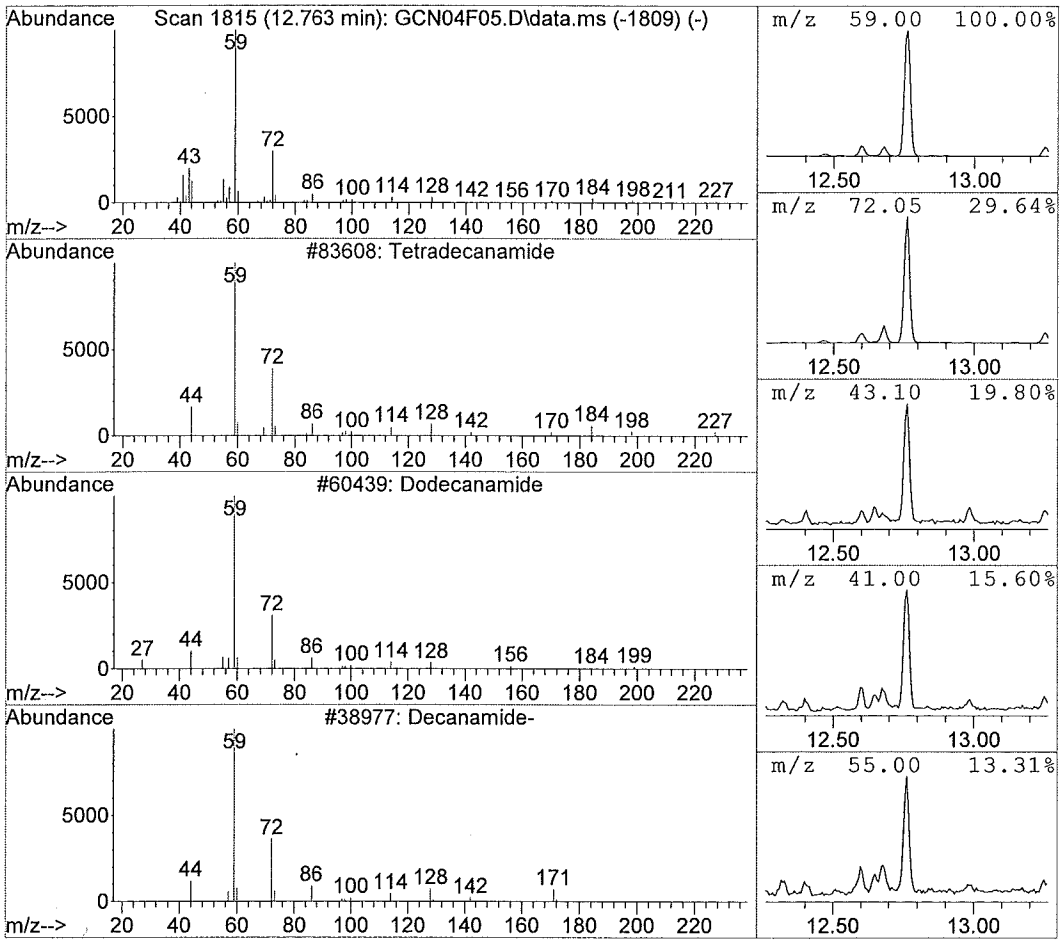
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN04F05.D Vial: 4
Acq On : 07/07/2015 16:21 Operator: TJM
Sample : 1515375005 F9M00 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.76	4.07 ug/ml	696967	Phenanthrene-d10	3426124

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	94.00
2	Dodecanamide	60439	001120-16-7	90.00
3	Decanamide-	38977	002319-29-1	83.00
4	Nonanamide	29478	001120-07-6	72.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	72.00



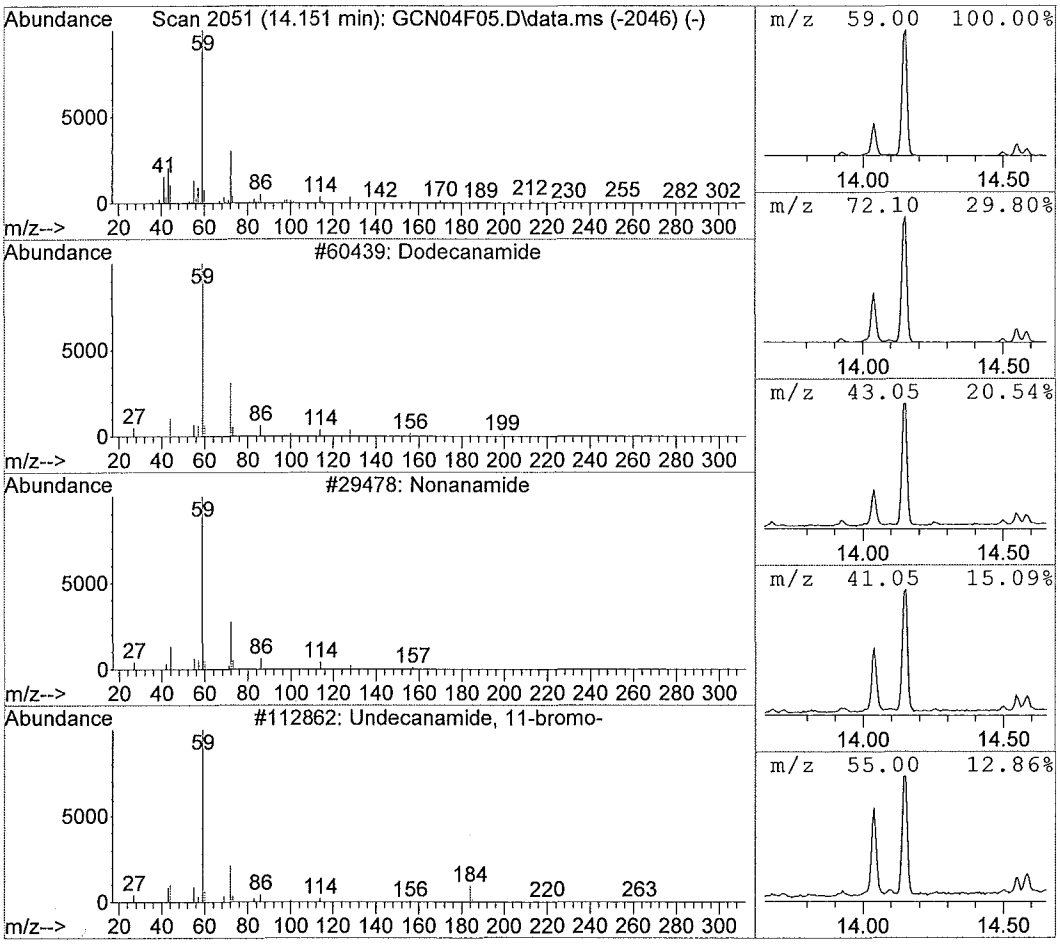
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN04F05.D Vial: 4
Acq On : 07/07/2015 16:21 Operator: TJM
Sample : 1515375005 F9M00 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	11.68 ug/ml	2364154	Chrysene-d12	4047556

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	91.00
2	Nonanamide	29478	001120-07-6	83.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
4	Pentanamide	4064	000626-97-1	78.00
5	Decanamide-	38977	002319-29-1	74.00



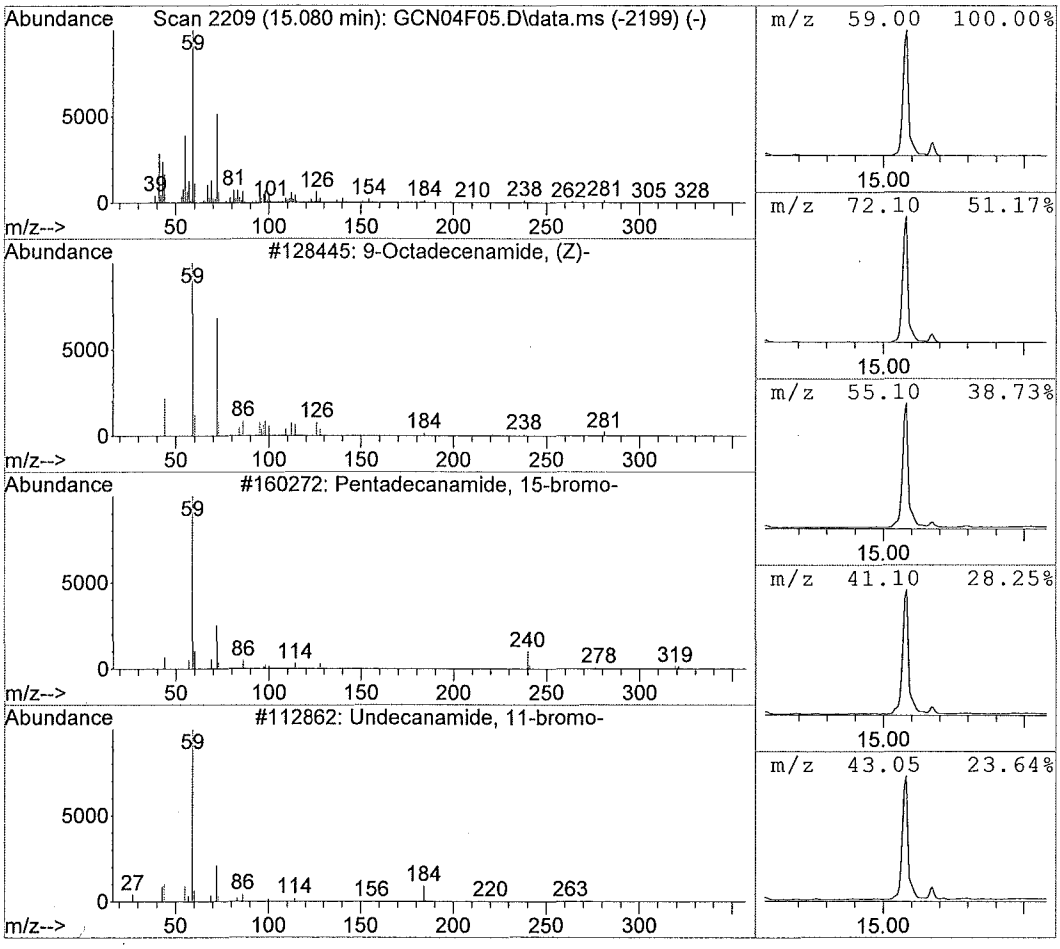
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN04F05.D Vial: 4
Acq On : 07/07/2015 16:21 Operator: TJM
Sample : 1515375005 F9M00 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.08	77.30 ug/ml	15643258	Chrysene-d12	4047556

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	72.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	59.00
4	Hexadecanamide	106565	000629-54-9	56.00
5	7-Nonenamide	28131	090949-53-4	56.00



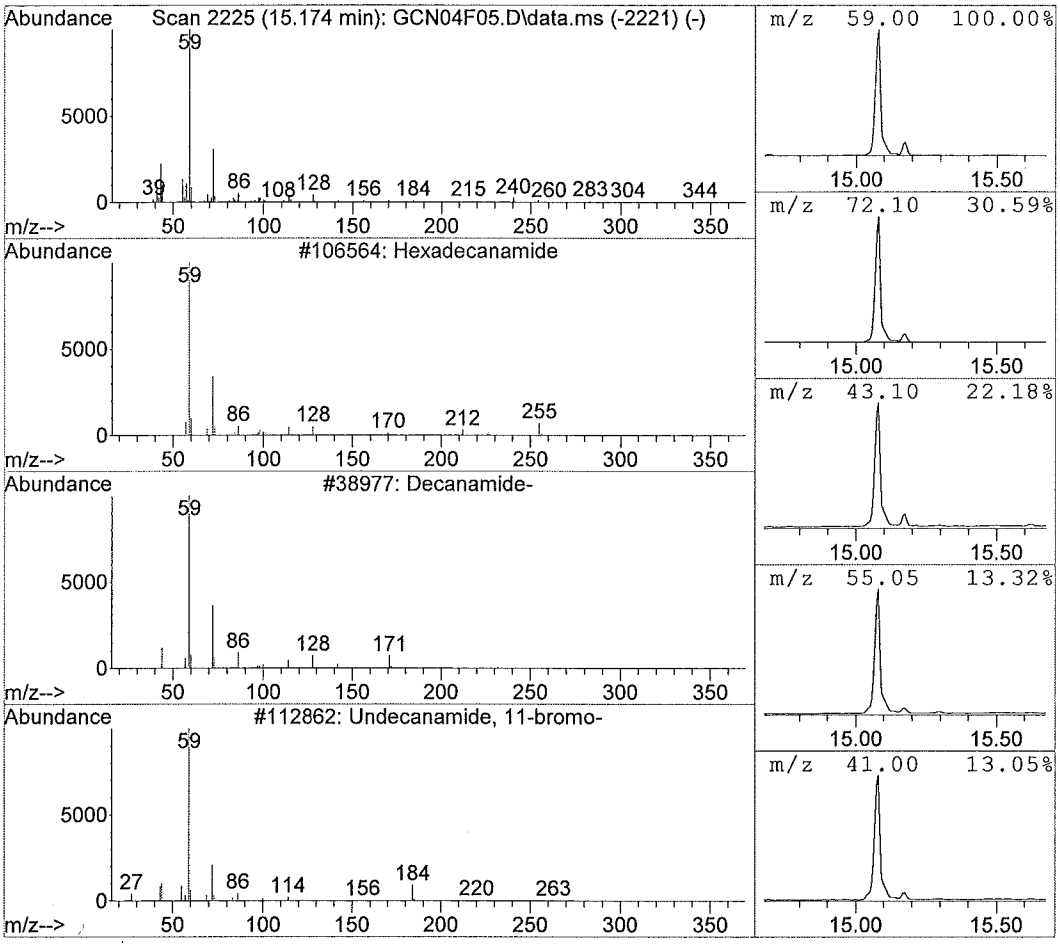
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN04F05.D Vial: 4
Acq On : 07/07/2015 16:21 Operator: TJM
Sample : 1515375005 F9M00 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	4.03 ug/ml	815035	Chrysene-d12	4047556

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	86.00
2	Decanamide-	38977	002319-29-1	83.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
4	Dodecanamide	60439	001120-16-7	74.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	72.00



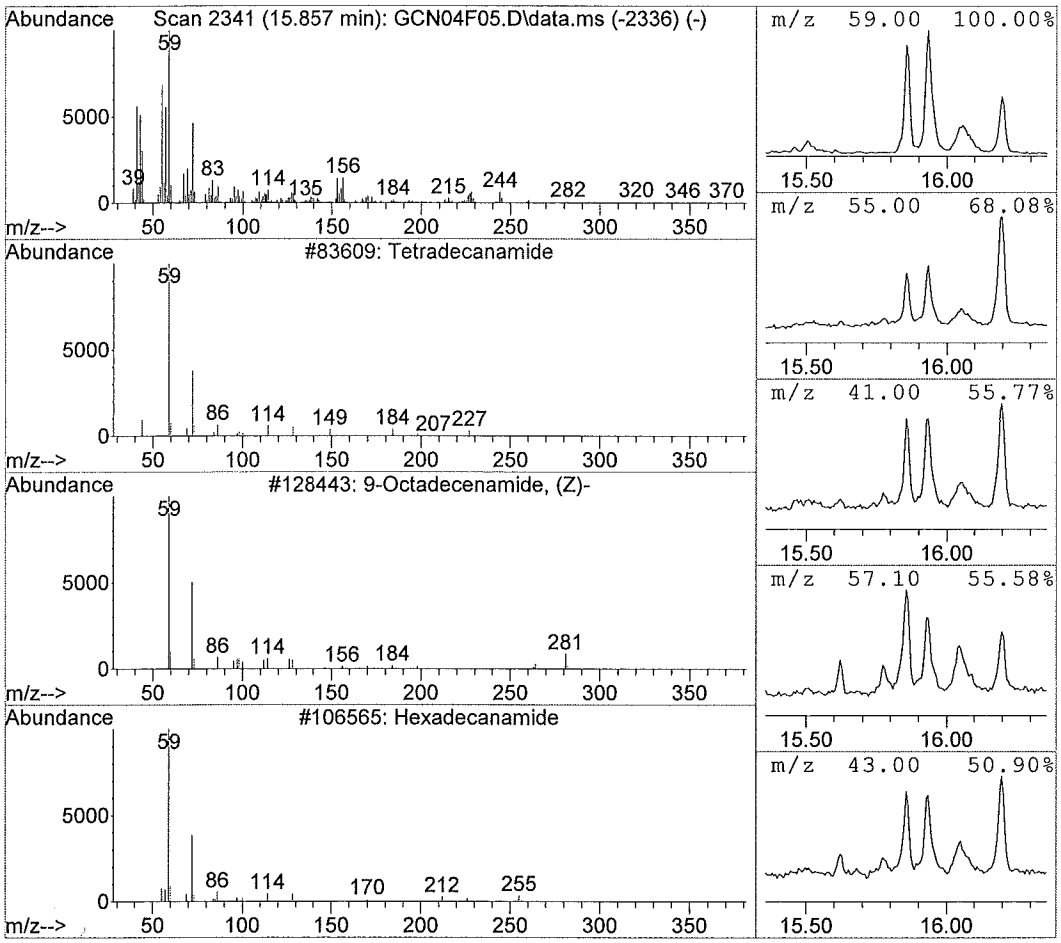
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN04F05.D Vial: 4
Acq On : 07/07/2015 16:21 Operator: TJM
Sample : 1515375005 F9M00 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.86	3.41 ug/ml	689330	Chrysene-d12	4047556

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83609	000638-58-4	76.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	64.00
3	Hexadecanamide	106565	000629-54-9	64.00
4	Decanamide-	38977	002319-29-1	59.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	47.00



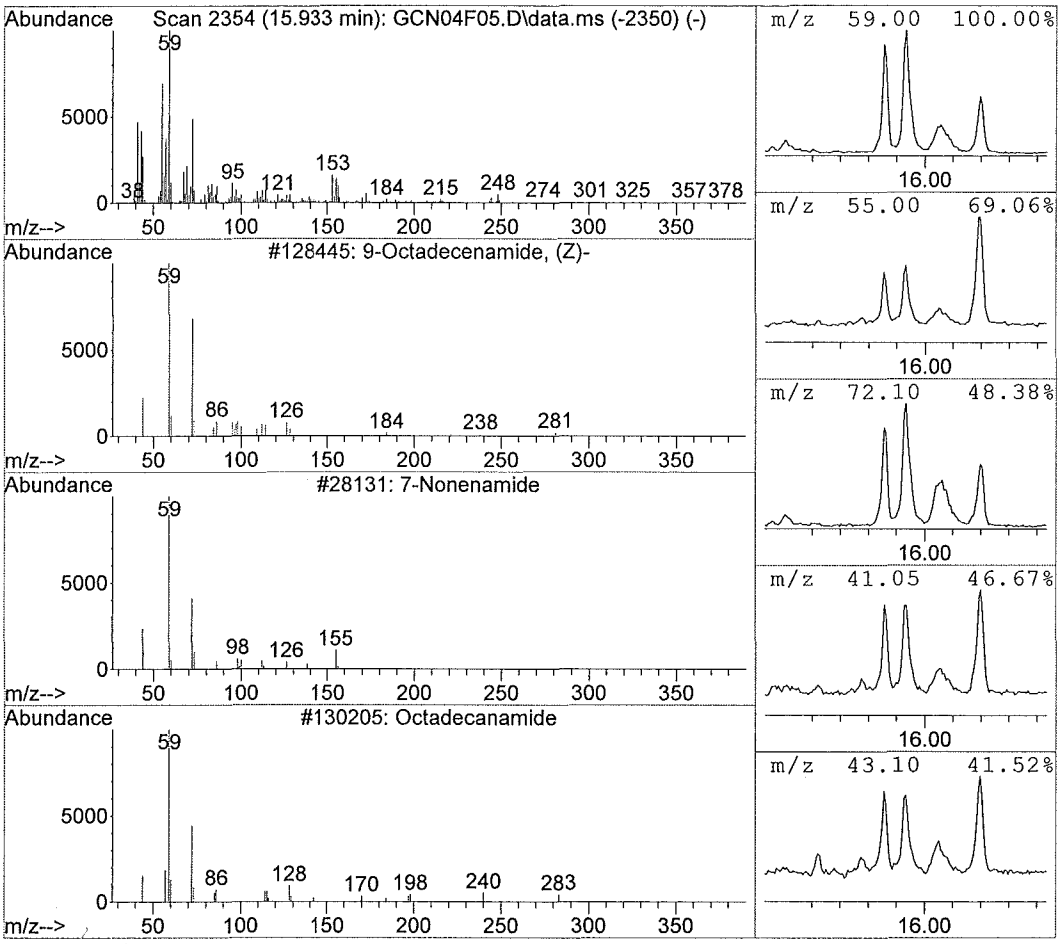
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN04F05.D Vial: 4
Acq On : 07/07/2015 16:21 Operator: TJM
Sample : 1515375005 F9M00 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.93	5.11 ug/ml	1033250	Chrysene-d12	4047556

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	64.00
2	7-Nonenamide	28131	090949-53-4	59.00
3	Octadecanamide	130205	000124-26-5	53.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	50.00
5	Tetradecanamide	83609	000638-58-4	47.00



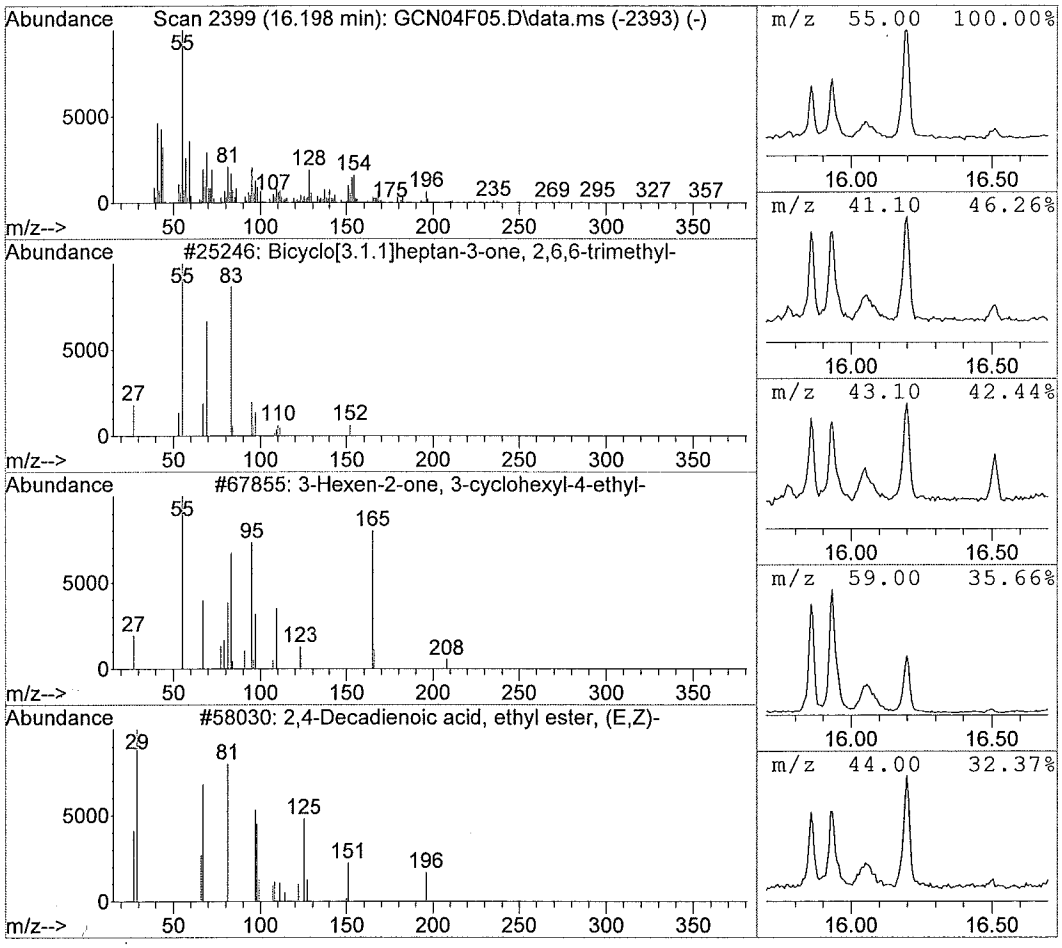
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN04F05.D Vial: 4
Acq On : 07/07/2015 16:21 Operator: TJM
Sample : 1515375005 F9M00 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	6.08 ug/ml	1231356	Chrysene-d12	4047556

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bicyclo[3.1.1]heptan-3-one, 2,6,6-t	25246	018358-53-7	25.00
2	3-Hexen-2-one, 3-cyclohexyl-4-ethyl	67855	1000150-19-1	22.00
3	2,4-Decadienoic acid, ethyl ester,	58030	003025-30-7	18.00
4	Cyclopropane, 1-pentyl-2-propyl-	27088	041977-33-7	15.00
5	cis-9-Hexadecenal	92517	056219-04-6	11.00



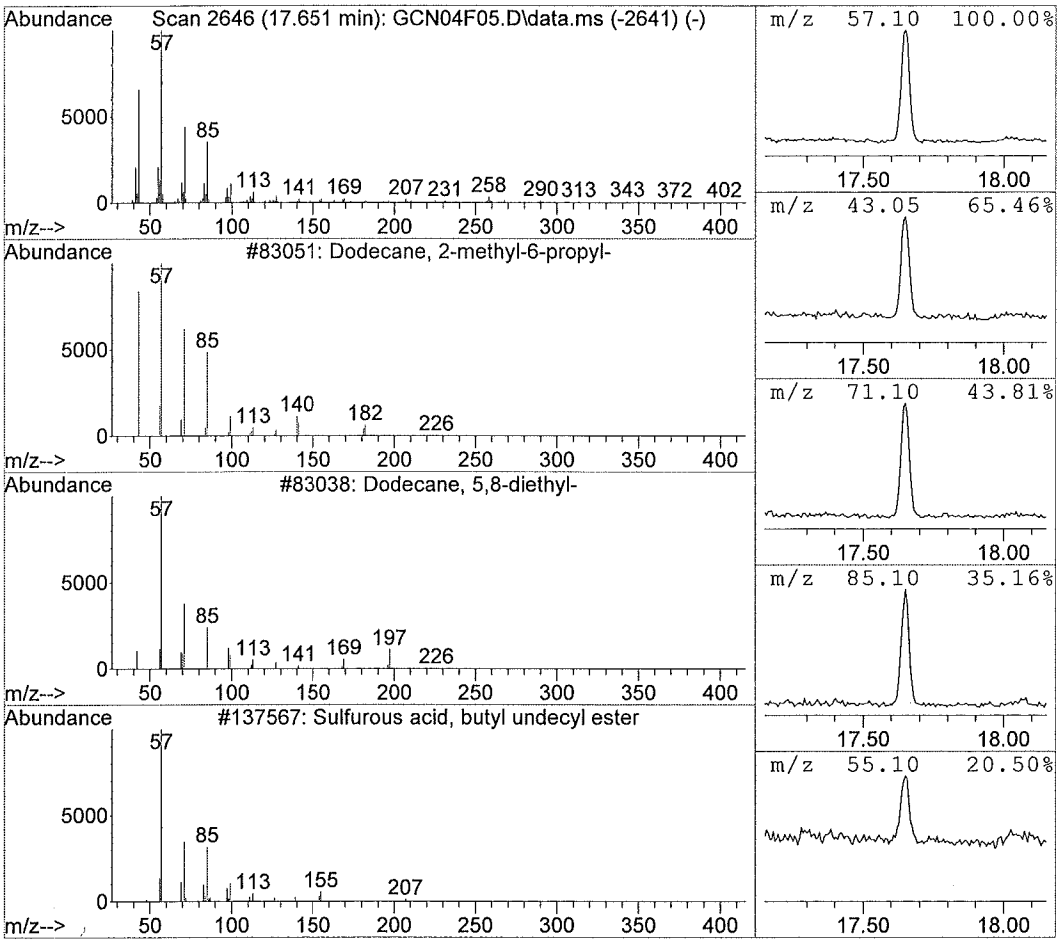
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN04F05.D Vial: 4
Acq On : 07/07/2015 16:21 Operator: TJM
Sample : 1515375005 F9M00 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.65	3.65 ug/ml	590111	Perylene-d12	3230838

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	91.00
2	Dodecane, 5,8-diethyl-	83038	024251-86-3	87.00
3	Sulfurous acid, butyl undecyl ester	137567	1000309-17-8	74.00
4	Octacosane	209566	000630-02-4	74.00
5	Tridecane, 6-methyl-	59895	013287-21-3	74.00



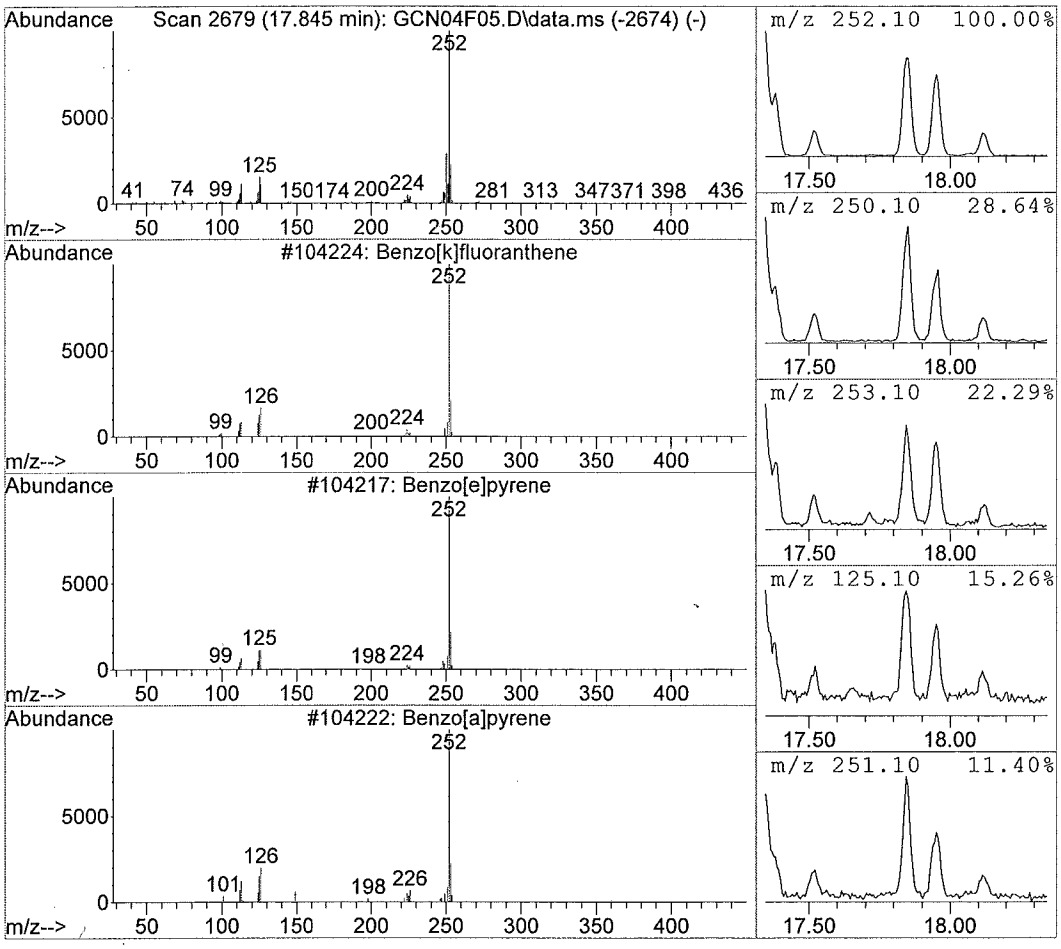
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN04F05.D Vial: 4
Acq On : 07/07/2015 16:21 Operator: TJM
Sample : 1515375005 F9M00 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.84	2.28 ug/ml	368526	Perylene-d12	3230838

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzo[k]fluoranthene	104224	000207-08-9	95.00
2	Benzo[e]pyrene	104217	000192-97-2	95.00
3	Benzo[a]pyrene	104222	000050-32-8	91.00
4	Benz[e]acephenanthrylene	104228	000205-99-2	90.00
5	Perylene	104215	000198-55-0	89.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M01

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375006

Sample wt/vol: 30.5 (g/mL) g Lab File ID: GCN05F06

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	2300	U
108-95-2	Phenol	2300	U
111-44-4	Bis(2-chloroethyl)ether	2300	U
95-57-8	2-Chlorophenol	2300	U
95-48-7	2-Methylphenol	2300	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2300	U
98-86-2	Acetophenone	2300	U
106-44-5	4-Methylphenol	2300	U
621-64-7	N-Nitroso-di-n-propylamine	2300	U
67-72-1	Hexachloroethane	2300	U
98-95-3	Nitrobenzene	2300	U
78-59-1	Isophorone	2300	U
88-75-5	2-Nitrophenol	2300	U
105-67-9	2,4-Dimethylphenol	2300	U
111-91-1	Bis(2-chloroethoxy)methane	2300	U
120-83-2	2,4-Dichlorophenol	2300	U
91-20-3	Naphthalene	210	J
106-47-8	4-Chloroaniline	2300	U
87-68-3	Hexachlorobutadiene	2300	U
105-60-2	Caprolactam	2300	U
59-50-7	4-Chloro-3-methylphenol	2300	U
91-57-6	2-Methylnaphthalene	750	J
77-47-4	Hexachlorocyclopentadiene	2300	U
88-06-2	2,4,6-Trichlorophenol	2300	U
95-95-4	2,4,5-Trichlorophenol	2300	U
92-52-4	1,1'-Biphenyl	2300	U
91-58-7	2-Chloronaphthalene	2300	U
88-74-4	2-Nitroaniline	4500	U
131-11-3	Dimethylphthalate	2300	U
606-20-2	2,6-Dinitrotoluene	2300	U
208-96-8	Acenaphthylene	2300	U
99-09-2	3-Nitroaniline	4500	U
83-32-9	Acenaphthene	2300	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M01

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375006

Sample wt/vol: 30.5 (g/mL) g Lab File ID: GCN05F06

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	4500	U
100-02-7	4-Nitrophenol	4500	U
132-64-9	Dibenzofuran	2300	U
121-14-2	2,4-Dinitrotoluene	2300	U
84-66-2	Diethylphthalate	2300	U
86-73-7	Fluorene	2300	U
7005-72-3	4-Chlorophenyl-phenylether	2300	U
100-01-6	4-Nitroaniline	4500	U
534-52-1	4,6-Dinitro-2-methylphenol	4500	U
86-30-6	N-Nitrosodiphenylamine[1]	2300	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2300	U
101-55-3	4-Bromophenyl-phenylether	2300	U
118-74-1	Hexachlorobenzene	2300	U
1912-24-9	Atrazine	2300	U
87-86-5	Pentachlorophenol	4500	U
85-01-8	Phenanthrene	1400	J
120-12-7	Anthracene	210	J
86-74-8	Carbazole	2300	U
84-74-2	Di-n-butylphthalate	2300	U
206-44-0	Fluoranthene	300	J
129-00-0	Pyrene	1300	J
85-68-7	Butylbenzylphthalate	2300	U
91-94-1	3,3'-Dichlorobenzidine	2300	U
56-55-3	Benzo(a)anthracene	550	J
218-01-9	Chrysene	1100	J
117-81-7	Bis(2-ethylhexyl)phthalate	2300	U
117-84-0	Di-n-octylphthalate	2300	U
205-99-2	Benzo(b)fluoranthene	470	J
207-08-9	Benzo(k)fluoranthene	2300	U
50-32-8	Benzo(a)pyrene	570	J
193-39-5	Indeno(1,2,3-cd)pyrene	240	J
53-70-3	Dibenzo(a,h)anthracene	2300	U
191-24-2	Benzo(g,h,i)perylene	560	J
58-90-2	2,3,4,6-Tetrachlorophenol	2300	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: F9M01

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375006

Sample wt/vol: 30.5 (g/mL) g Lab File ID: GCN05F06

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015

GPC Cleanup: (Y/N) Y pH: 7.9 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-	3.49	17000	JB
02		Unknown 1H-Pyrrole-2,5-dione	4.27	1700	J
03		Unknown Nonanal	5.48	1200	J
04	582-16-1	Naphthalene, 2,7-dimethyl-	8.22	1000	JN
05	475-20-7	Longifolene	8.29	4100	JN
06	77-53-2	Cedrol	10.07	1200	JN
07		Unknown Hexanamide	10.35	1600	J
08	2531-84-2	Phenanthrene, 2-methyl-	12.50	1200	JN
09		Unknown Nonanamide	12.76	2200	J
10	629-54-9	Hexadecanamide	14.15	6800	JN
11	301-02-0	9-Octadecenamide, (Z)-	15.09	50000	JNB
12	629-54-9	Hexadecanamide	15.17	2000	JNB
13		Unknown cis-9,10-Epoxyoctadecanamide	15.86	1500	J
14		Unknown 7-Nonenamide	15.93	2700	J
15		Unknown Cyclododecanone, 2-methyl-	16.20	2600	J
16		Unknown Hexadecanamide	16.98	1600	J
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1800	J

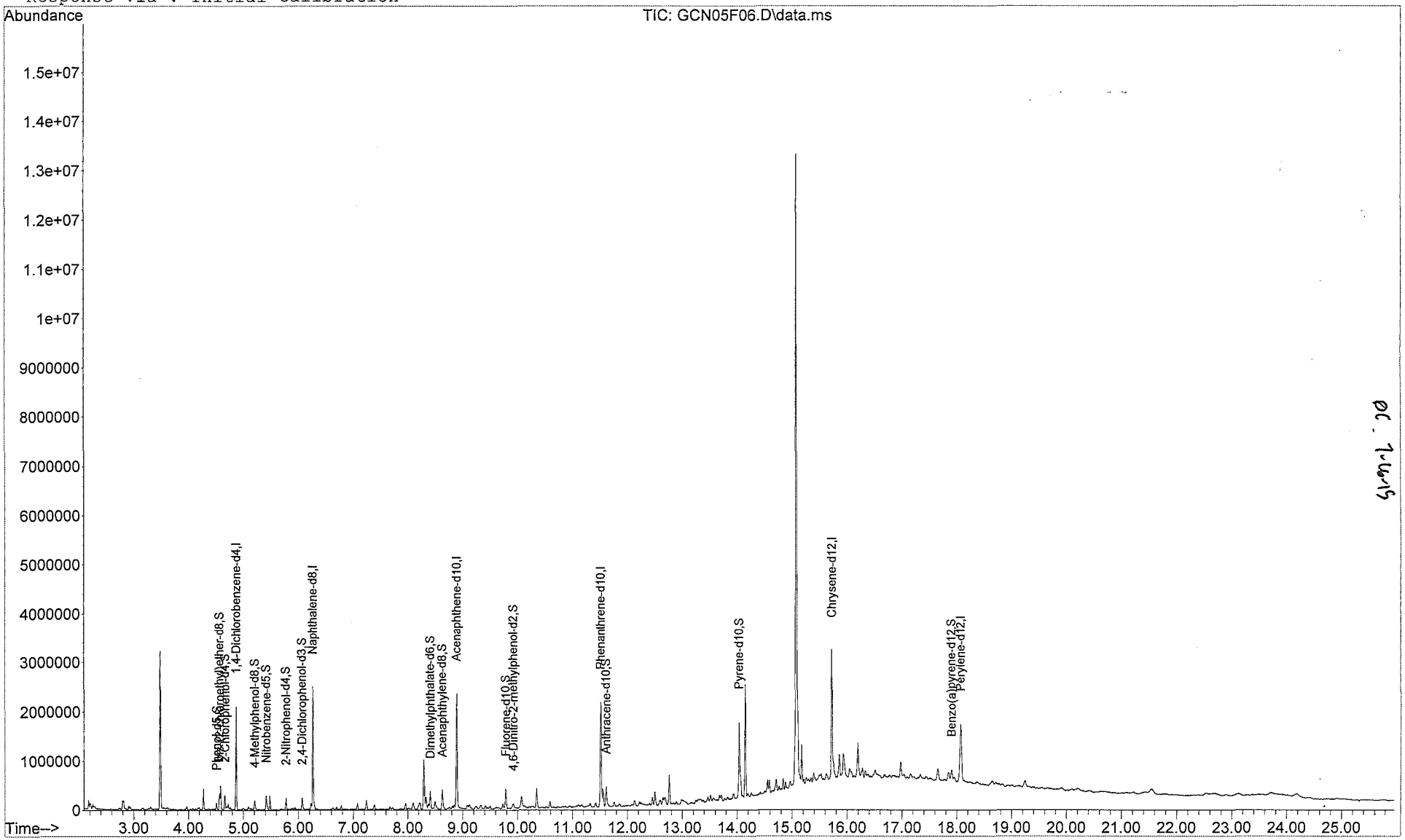
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 16 08:16:19 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration



DC. 7-16-15

Quantitation Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 08:16:19 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	295232	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1157038	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	695633	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1191692	20.00 ug/ml
73) Chrysene-d12	15.73	240	1140904	20.00 ug/ml
81) Perylene-d12	18.07	264	842995	20.00 ug/ml

System Monitoring Compounds				
2) Phenol-d5	4.51	99	42398	1.650ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	60030	2.998ug/mL
7) 2-Chlorophenol-d4	4.66	132	75028	3.459ug/ml
13) 4-Methylphenol-d8	5.20	113	44816	2.608ug/mL
17) Nitrobenzene-d5	5.42	128	34889	3.432ug/ml
21) 2-Nitrophenol-d4	5.77	143	36805	3.426ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	57155	3.416ug/mL
28) 4-Chloroaniline-d4	6.33	131	5631	0.308ug/mL
42) Dimethylphthalate-d6	8.41	166	171128	3.923ug/mL
45) Acenaphthylene-d8	8.63	160	223863	3.776ug/mL
50) 4-Nitrophenol-d4	9.13	143	1196	0.134ug/mL
57) Fluorene-d10	9.78	176	149798	4.021ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	14680	1.736ug/mL
69) Anthracene-d10	11.62	188	239244	3.786ug/mL
75) Pyrene-d10	14.04	212	212050	3.724ug/mL
86) Benzo(a)pyrene-d12	17.90	264	152335	3.771ug/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	6.29	128	26527	0.454ug/ml	99
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	7.24	142	61099	1.651ug/ml	98
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)

00100

Quantitation Report

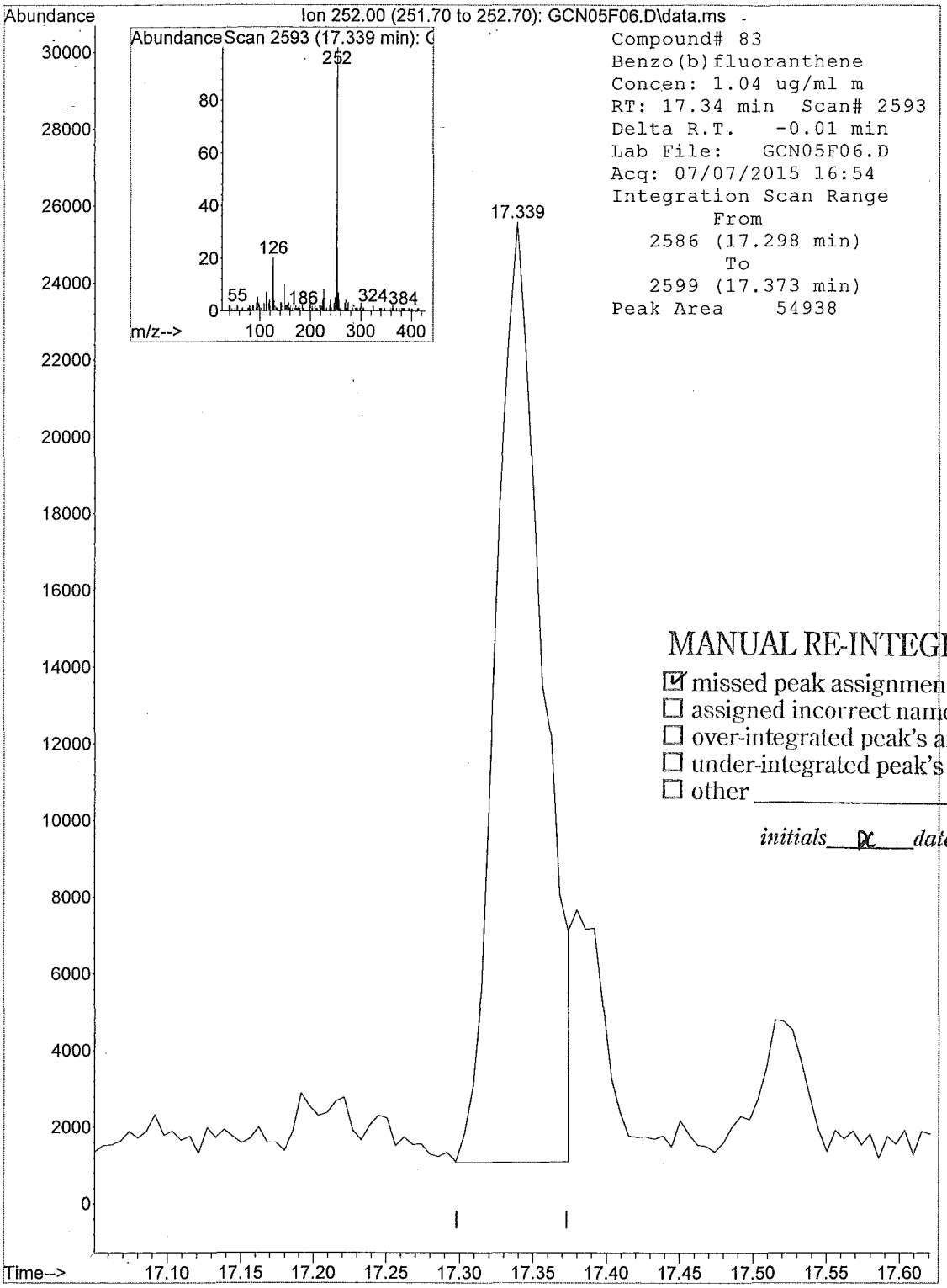
Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 08:16:19 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 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	11.56	178	201008	3.162ug/ml	98
68)	Anthracene	11.65	178	29694	0.458ug/ml	87
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	13.71	202	46616	0.666ug/ml	97
74)	Pyrene	14.06	202	210703	2.901ug/ml	94
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.71	228	84156	1.216ug/ml	80
79)	Chrysene	15.76	228	145960	2.335ug/ml	87
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.34	252	54938	1.040ug/ml m	93
84)	Benzo(k)fluoranthene	0.00	252		Not Detected DC 7-16-15	
85)	Benzo(a)pyrene	17.96	252	62140	1.251ug/ml	97
87)	Indeno(1,2,3-c,d)pyrene	20.70	276	23574	0.537ug/ml	53
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	21.52	276	53559	1.238ug/ml	84

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

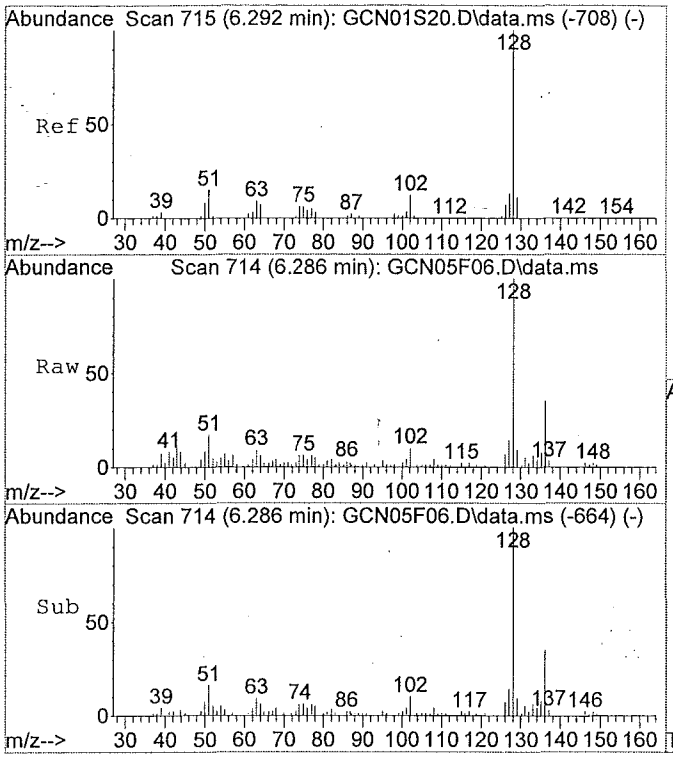
M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene



MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

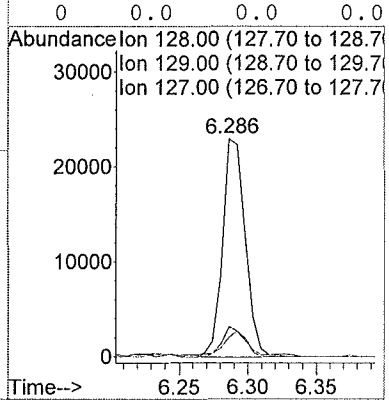
initials DC *date* 7-16-15

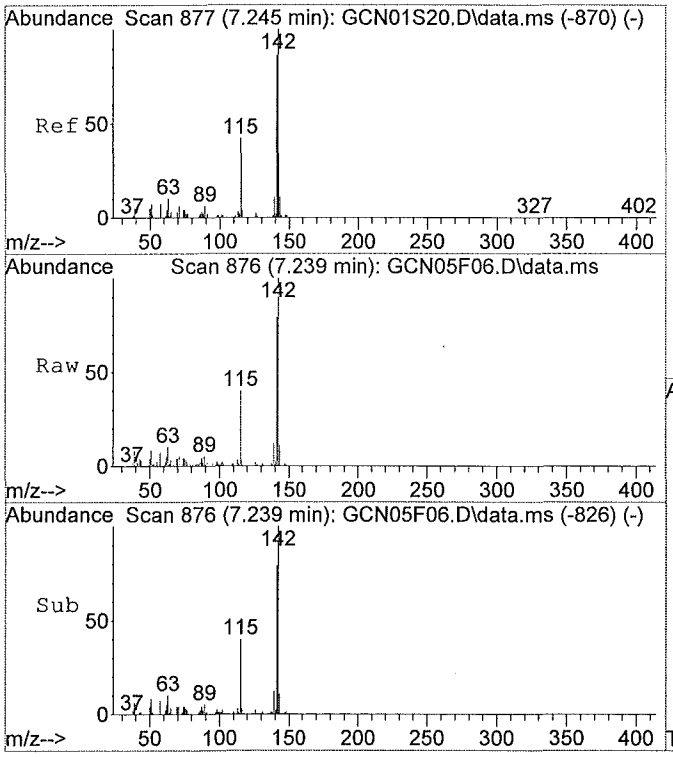


#26
Naphthalene
Concen: 0.45 ug/ml
RT: 6.29 min Scan# 714
Delta R.T. -0.01 min
Lab File: GCN05F06.D
Acq: 07/07/2015 16:54

Tgt Ion:128 Resp: 26527

Ion	Ratio	Lower	Upper
128	100		
129	11.8	7.8	14.4
127	13.5	9.3	17.3
0	0.0	0.0	0.0

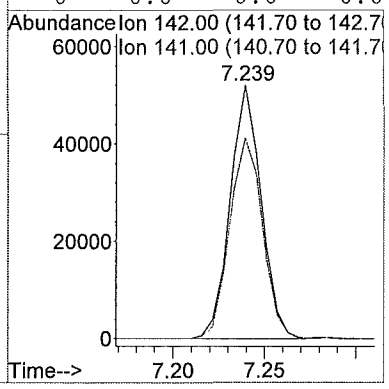


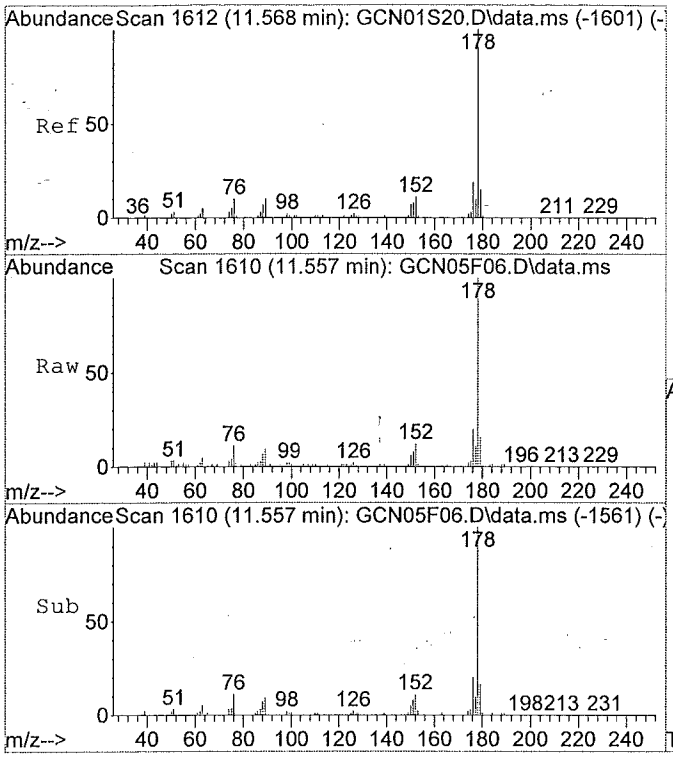


#32
2-Methylnaphthalene
Concen: 1.65 ug/ml
RT: 7.24 min Scan# 876
Delta R.T. -0.01 min
Lab File: GCN05F06.D
Acq: 07/07/2015 16:54

Tgt Ion:142 Resp: 61099

Ion	Ratio	Lower	Upper
142	100		
141	83.9	57.7	107.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

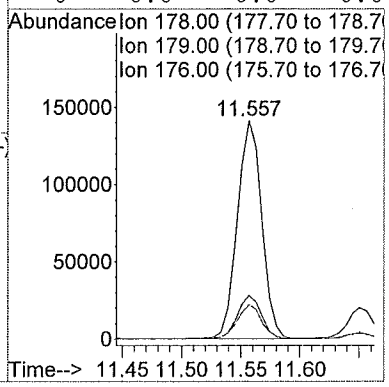


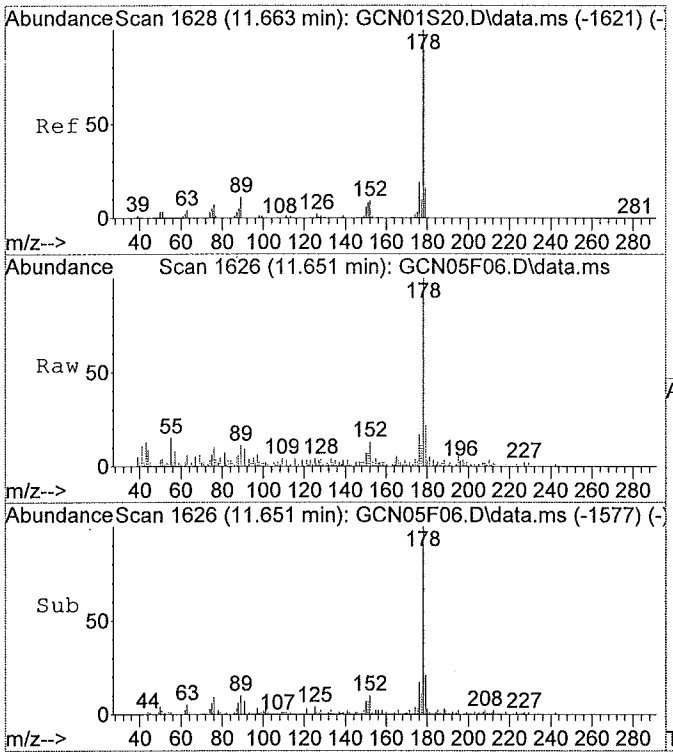


#67
Phenanthrene
Concen: 3.16 ug/ml
RT: 11.56 min Scan# 1610
Delta R.T. -0.01 min
Lab File: GCN05F06.D
Acq: 07/07/2015 16:54

Tgt Ion:178 Resp: 201008

Ion	Ratio	Lower	Upper
178	100		
179	16.2	10.6	19.8
176	19.8	13.2	24.4
0	0.0	0.0	0.0

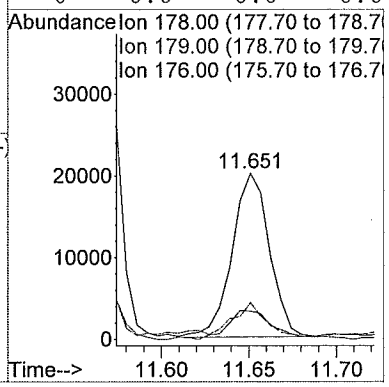


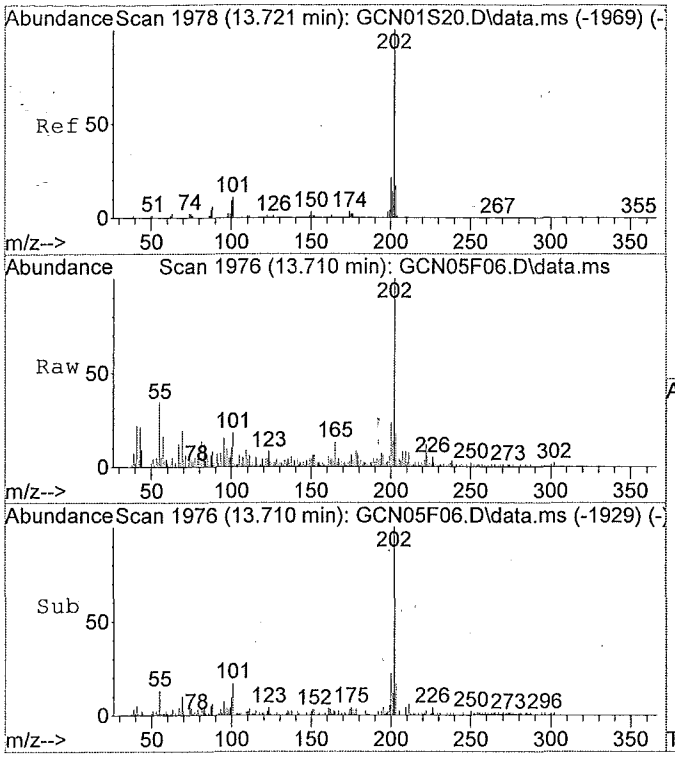


#68
Anthracene
Concen: 0.46 ug/ml
RT: 11.65 min Scan# 1626
Delta R.T. -0.01 min
Lab File: GCN05F06.D
Acq: 07/07/2015 16:54

Tgt Ion:178 Resp: 29694

Ion	Ratio	Lower	Upper
178	100		
179	22.4	10.5	19.5#
176	22.1	12.7	23.5
0	0.0	0.0	0.0

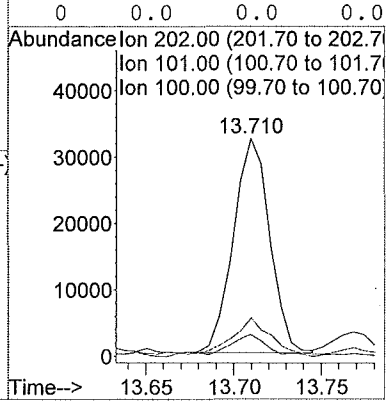


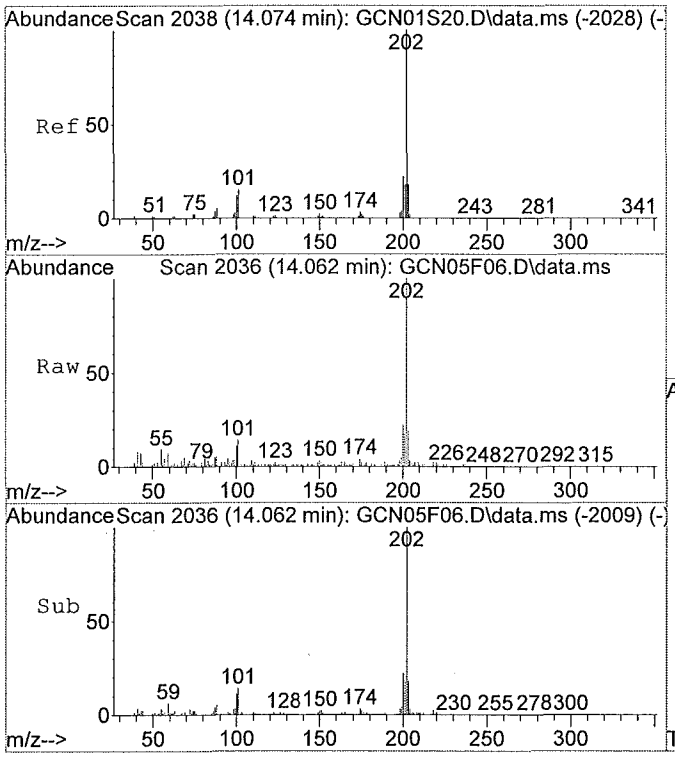


#72
Fluoranthene
Concen: 0.67 ug/ml
RT: 13.71 min Scan# 1976
Delta R.T. -0.01 min
Lab File: GCN05F06.D
Acq: 07/07/2015 16:54

Tgt Ion:202 Resp: 46616

Ion	Ratio	Lower	Upper
202	100		
101	16.7	10.5	19.5
100	11.4	7.4	13.8
0	0.0	0.0	0.0

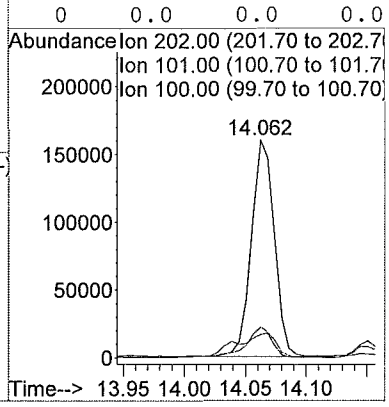


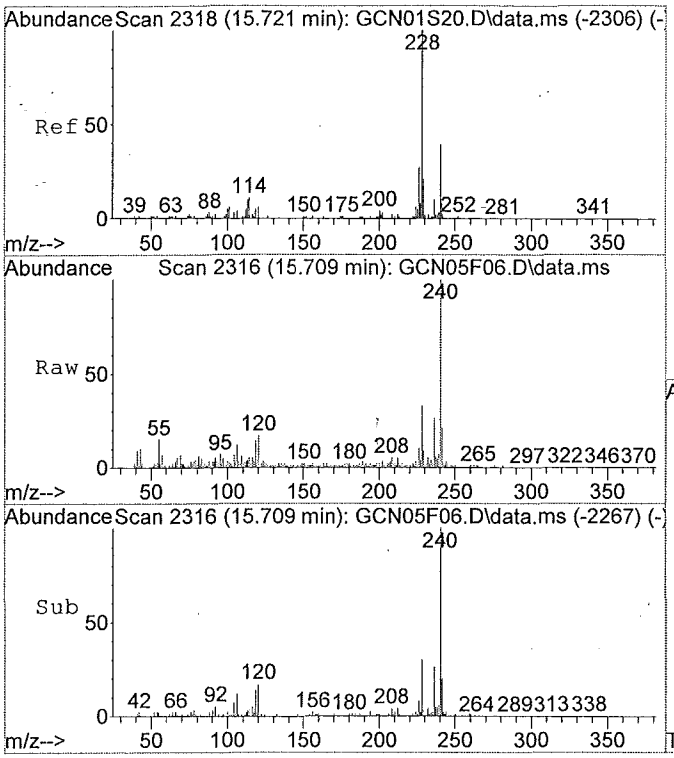


#74
Pyrene
Concen: 2.90 ug/ml
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: GCN05F06.D
Acq: 07/07/2015 16:54

Tgt Ion:202 Resp: 210703

Ion	Ratio	Lower	Upper
202	100		
101	16.8	12.2	22.7
100	19.0	10.1	18.7#
0	0.0	0.0	0.0

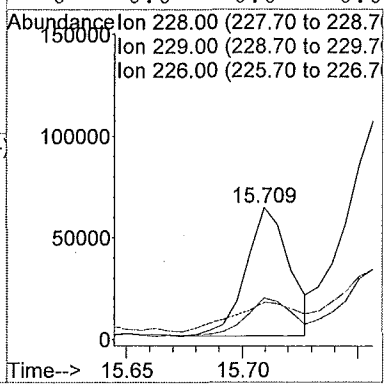


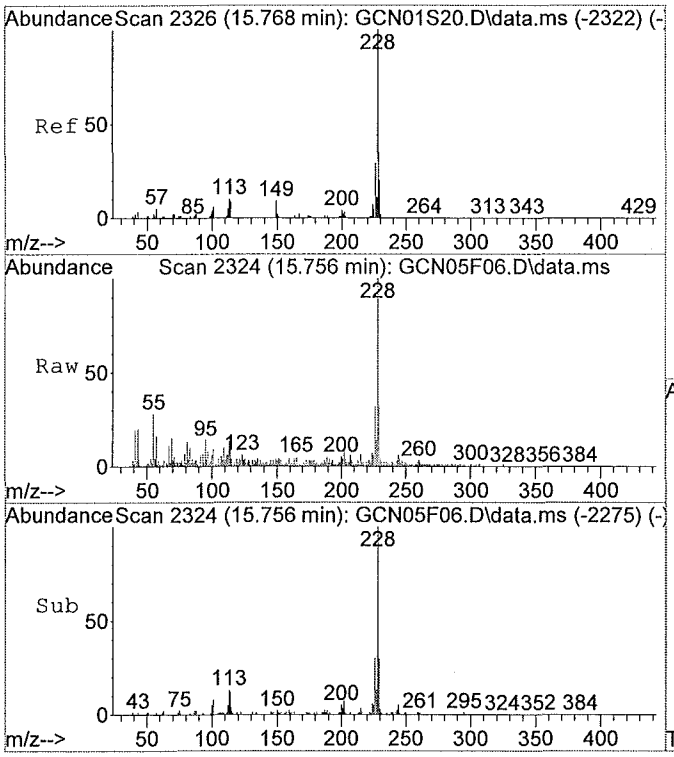


#78
Benzo(a)anthracene
Concen: 1.22 ug/ml
RT: 15.71 min Scan# 2316
Delta R.T. -0.01 min
Lab File: GCN05F06.D
Acq: 07/07/2015 16:54

Tgt Ion:228 Resp: 84156

Ion	Ratio	Lower	Upper
228	100		
229	33.0	13.7	25.5#
226	32.5	18.2	33.8
0	0.0	0.0	0.0

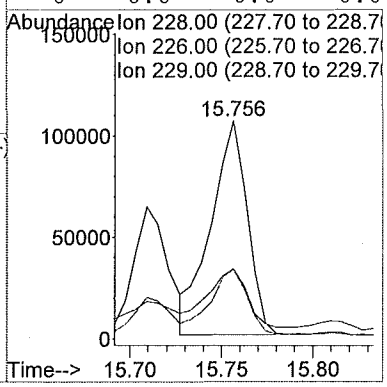


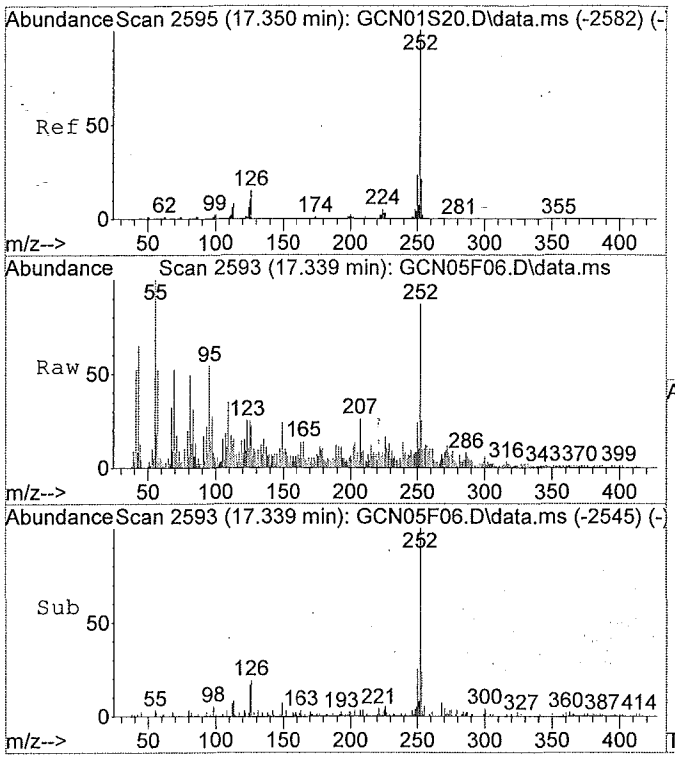


#79
Chrysene
Concen: 2.34 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCN05F06.D
Acq: 07/07/2015 16:54

Tgt Ion:228 Resp: 145960

Ion	Ratio	Lower	Upper
228	100		
226	31.4	20.1	37.3
229	30.7	13.7	25.5#
0	0.0	0.0	0.0

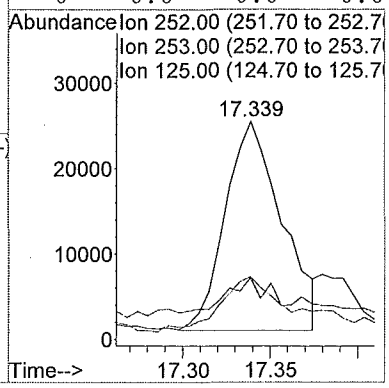


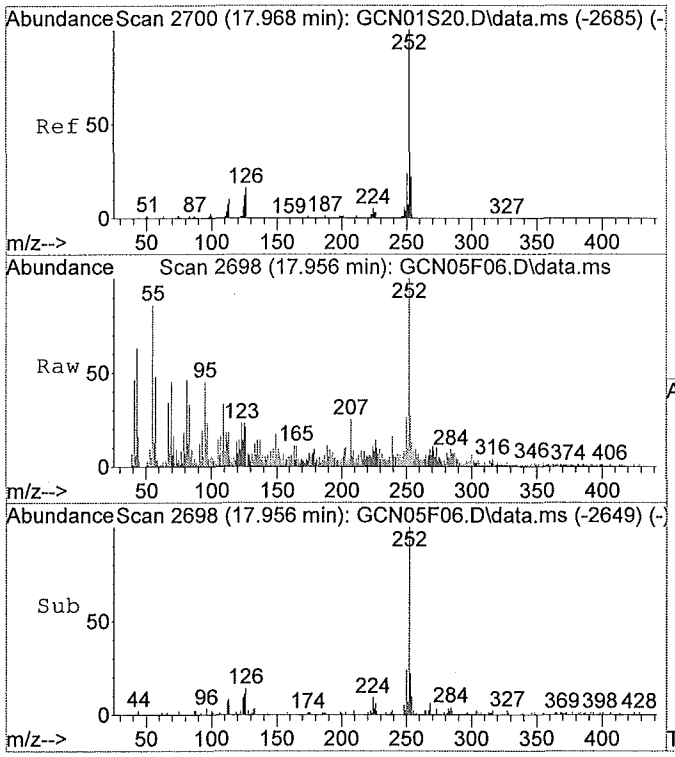


#83
Benzo(b)fluoranthene
Concen: 1.04 ug/ml m
RT: 17.34 min Scan# 2593
Delta R.T. -0.01 min
Lab File: GCN05F06.D
Acq: 07/07/2015 16:54

Tgt Ion:252 Resp: 54938

Ion	Ratio	Lower	Upper
252	100		
253	3.7	15.1	28.1#
125	2.0	10.6	19.8#
0	0.0	0.0	0.0

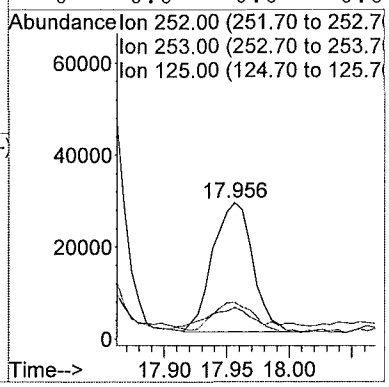


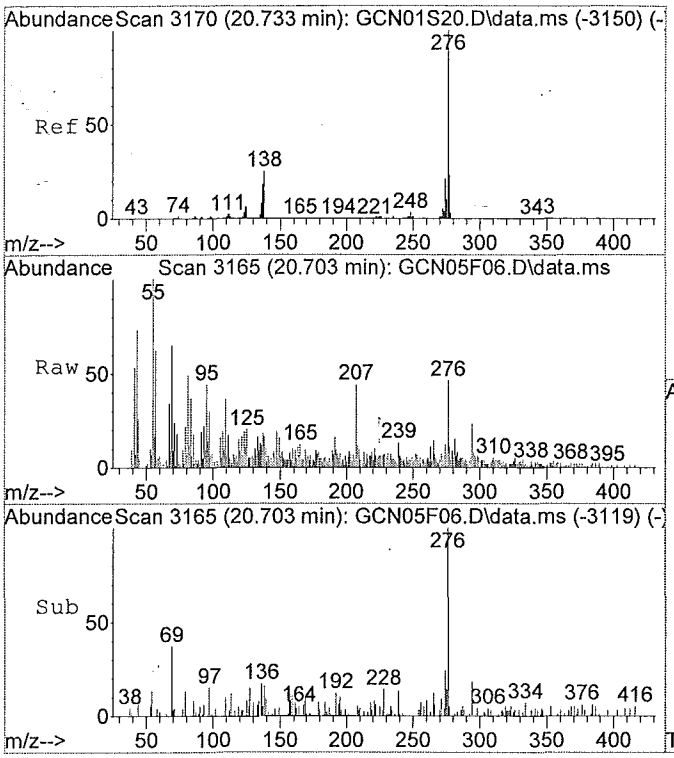


#85
Benzo(a)pyrene
Concen: 1.25 ug/ml
RT: 17.96 min Scan# 2698
Delta R.T. -0.01 min
Lab File: GCN05F06.D
Acq: 07/07/2015 16:54

Tgt Ion:252 Resp: 62140

Ion	Ratio	Lower	Upper
252	100		
253	23.7	15.2	28.2
125	17.2	11.8	21.8
0	0.0	0.0	0.0

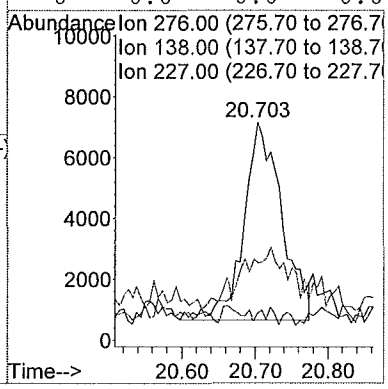


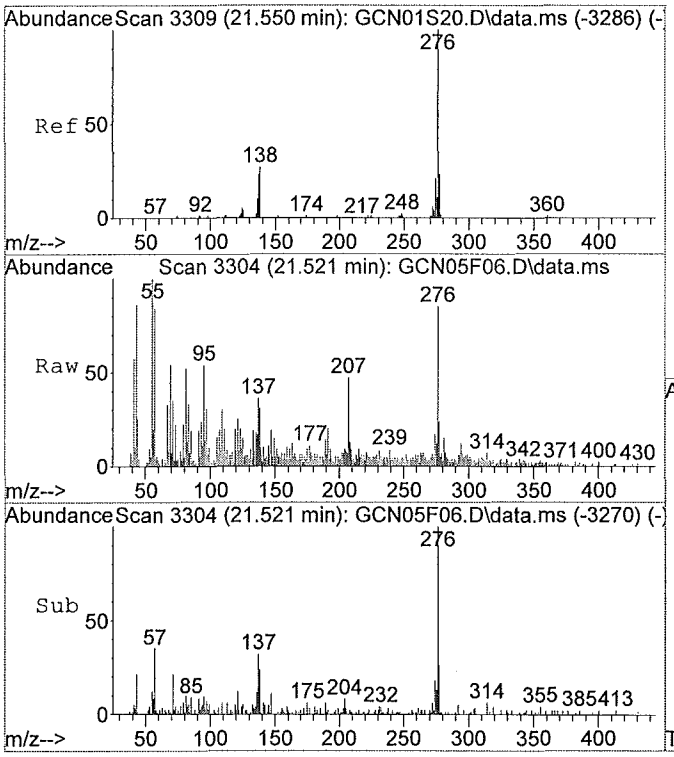


#87
Indeno(1,2,3-c,d)pyrene
Concen: 0.54 ug/ml
RT: 20.70 min Scan# 3165
Delta R.T. -0.03 min
Lab File: GCN05F06.D
Acq: 07/07/2015 16:54

Tgt Ion:276 Resp: 23574

Ion	Ratio	Lower	Upper
276	100		
138	5.8	22.3	41.5#
227	1.1	0.1	0.1#
0	0.0	0.0	0.0

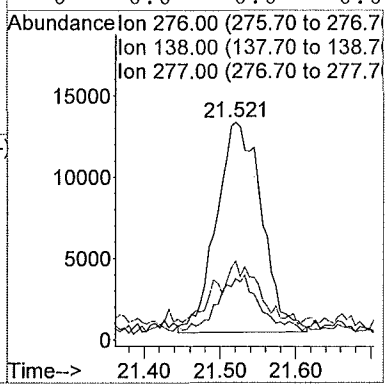




#89
Benzo(g,h,i)perylene
Concen: 1.24 ug/ml
RT: 21.52 min Scan# 3304
Delta R.T. -0.03 min
Lab File: GCN05F06.D
Acq: 07/07/2015 16:54

Tgt Ion:276 Resp: 53559

Ion	Ratio	Lower	Upper
276	100		
138	20.3	24.1	44.7#
277	25.5	16.7	30.9
0	0.0	0.0	0.0



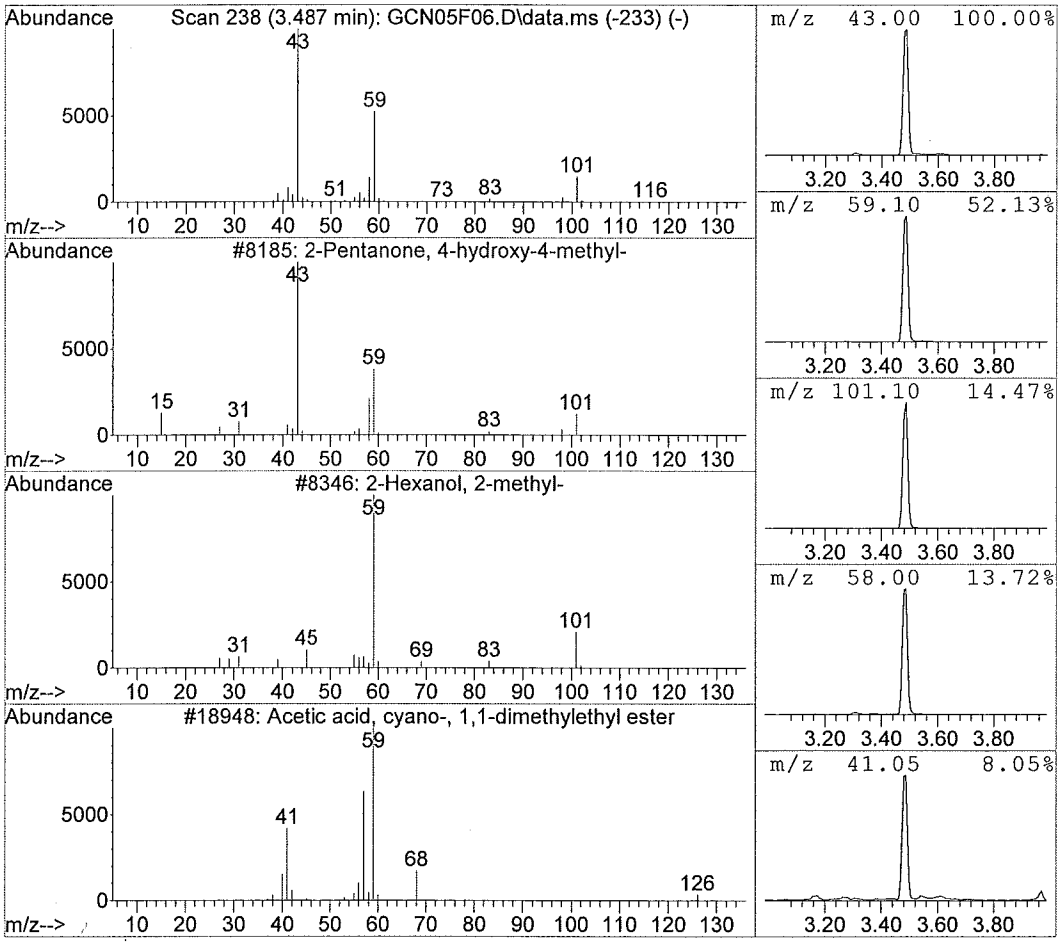
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.49	37.25 ug/ml	3955645	1,4-Dichlorobenzene-d4	2123747

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
3	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
4	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
5	1-Propen-2-ol, acetate	3686	000108-22-5	9.00



0017

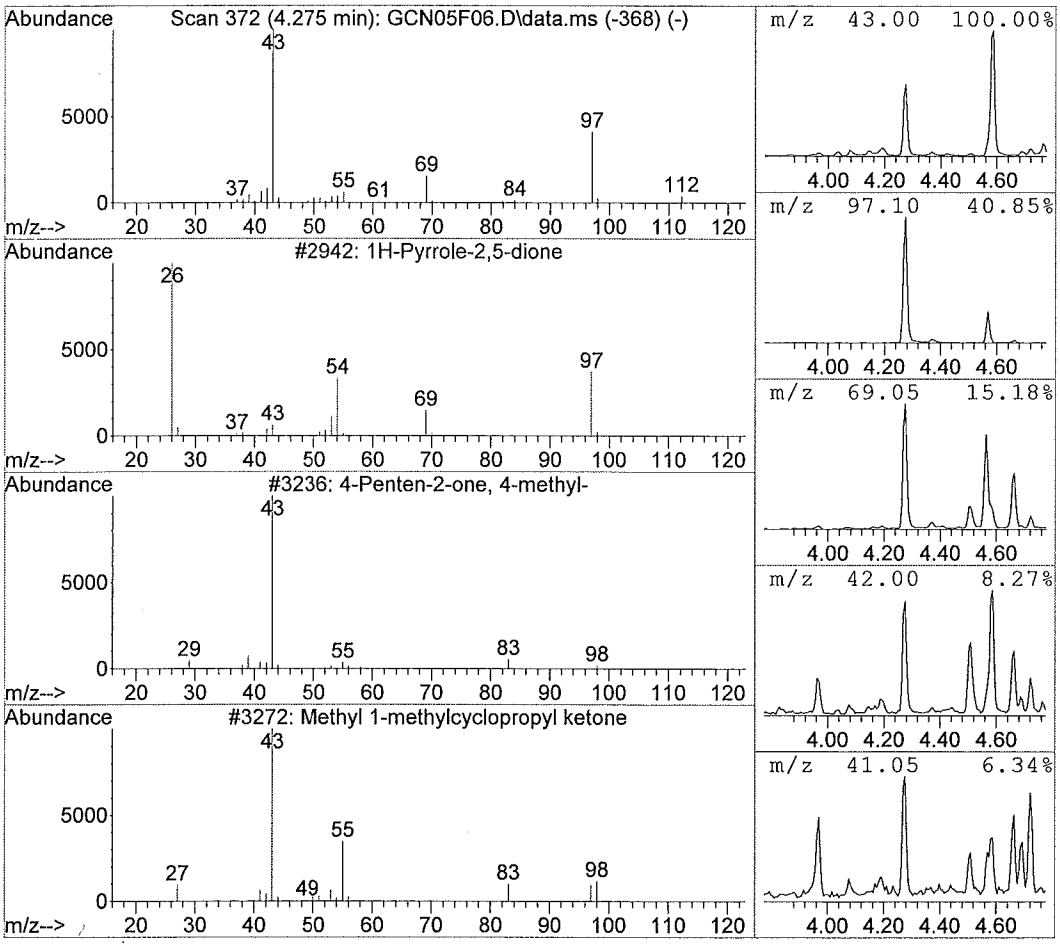
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.27	3.81 ug/ml	404878	1,4-Dichlorobenzene-d4	2123747

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
4	5-Hexen-2-one	3158	000109-49-9	9.00
5	2-Vinylethyl acetate	7190	001576-84-7	8.00



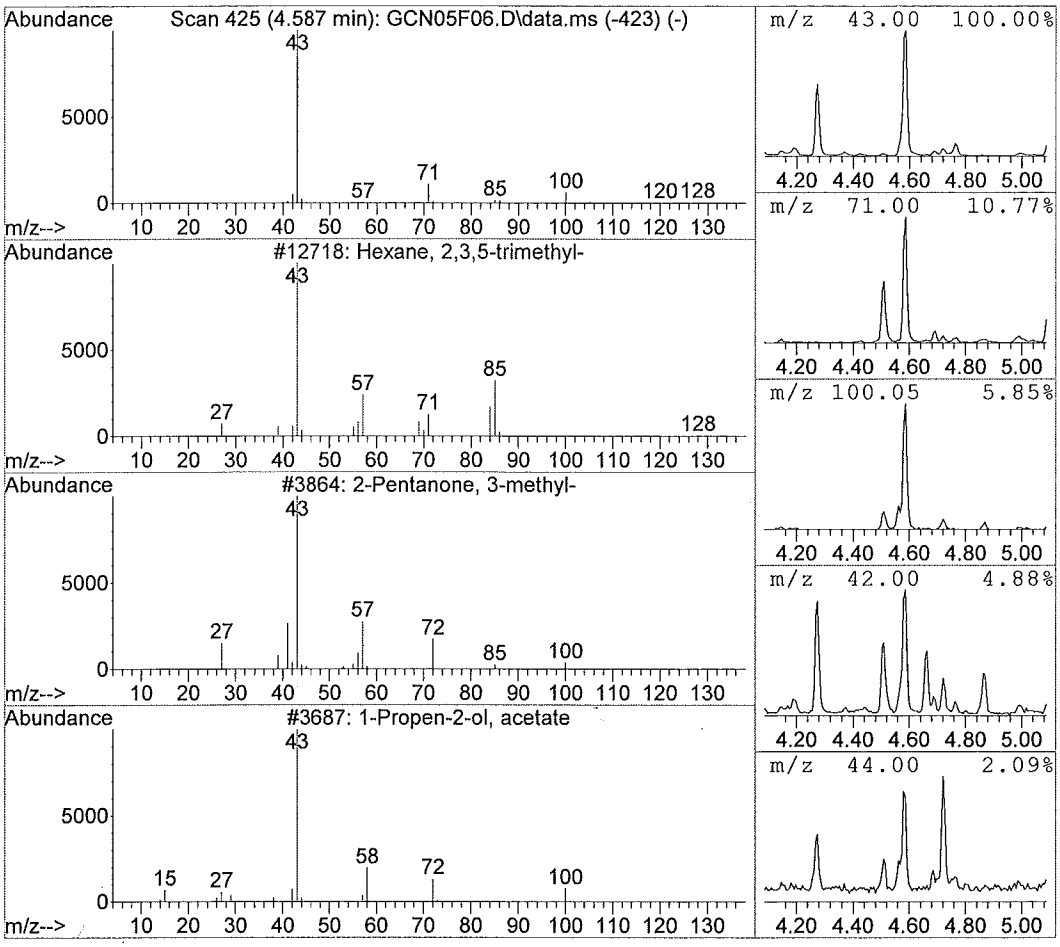
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.59	4.06 ug/ml	430656	1,4-Dichlorobenzene-d4	2123747

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl- BM.	12718	001069-53-0	7.00
2	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
3	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
4	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
5	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00



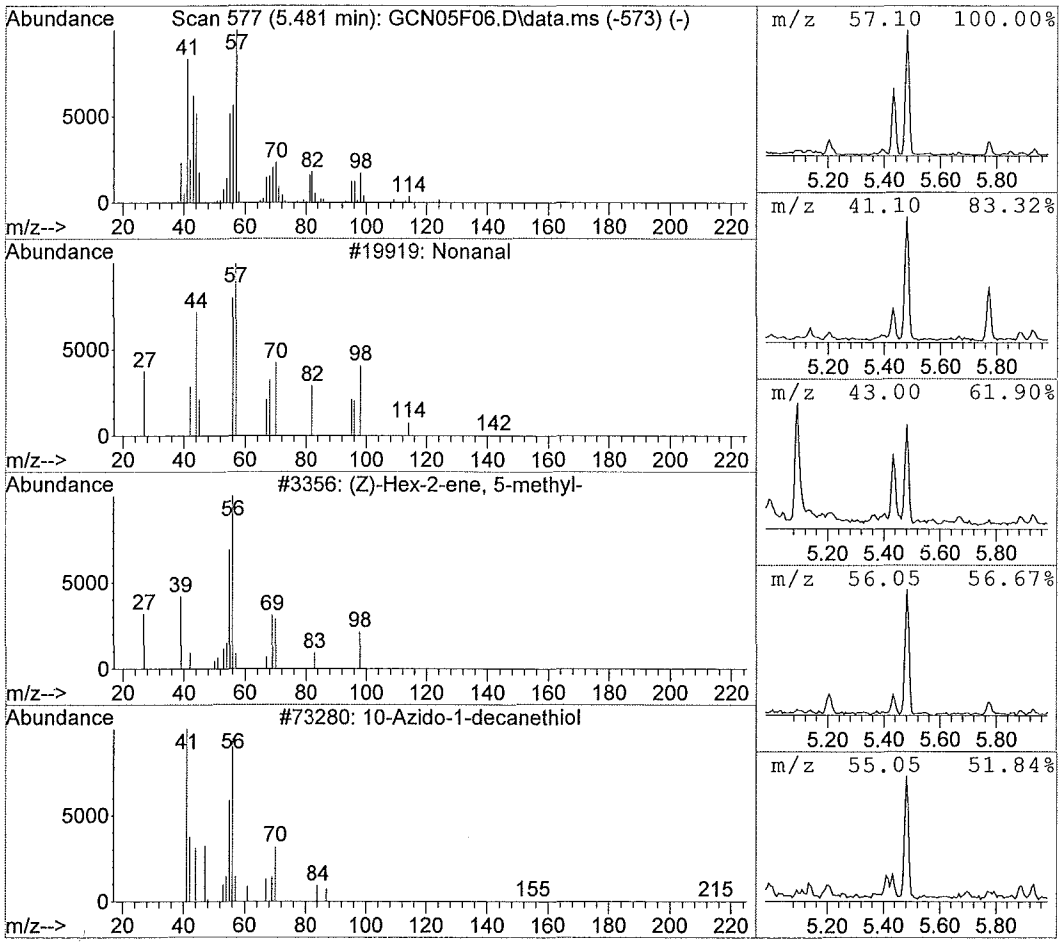
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.48	2.60 ug/ml	276422	1,4-Dichlorobenzene-d4	2123747

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonanal	19919	000124-19-6	47.00
2	(Z)-Hex-2-ene, 5-methyl-	3356	013151-17-2	46.00
3	10-Azido-1-decanethiol	73280	1152113-44-4	43.00
4	2-Hepten-1-ol, (E)-	7482	033467-76-4	38.00
5	Cyclohexanol, 4-methyl-, cis-	7588	007731-28-4	38.00



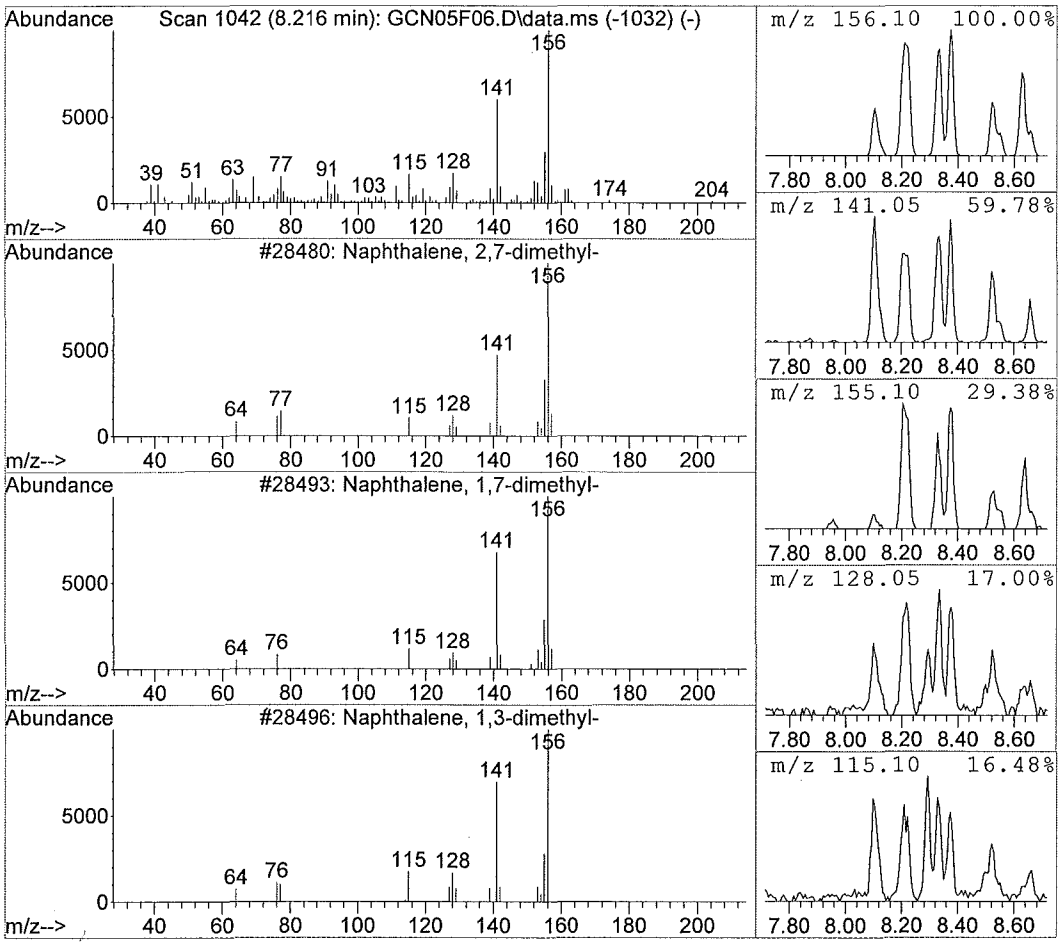
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.22	2.29 ug/ml	353364	Acenaphthene-d10	3086991

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	28480	000582-16-1	97.00
2	Naphthalene, 1,7-dimethyl-	28493	000575-37-1	96.00
3	Naphthalene, 1,3-dimethyl-	28496	000575-41-7	96.00
4	Naphthalene, 1,6-dimethyl-	28500	000575-43-9	96.00
5	Naphthalene, 2,3-dimethyl-	28485	000581-40-8	95.00



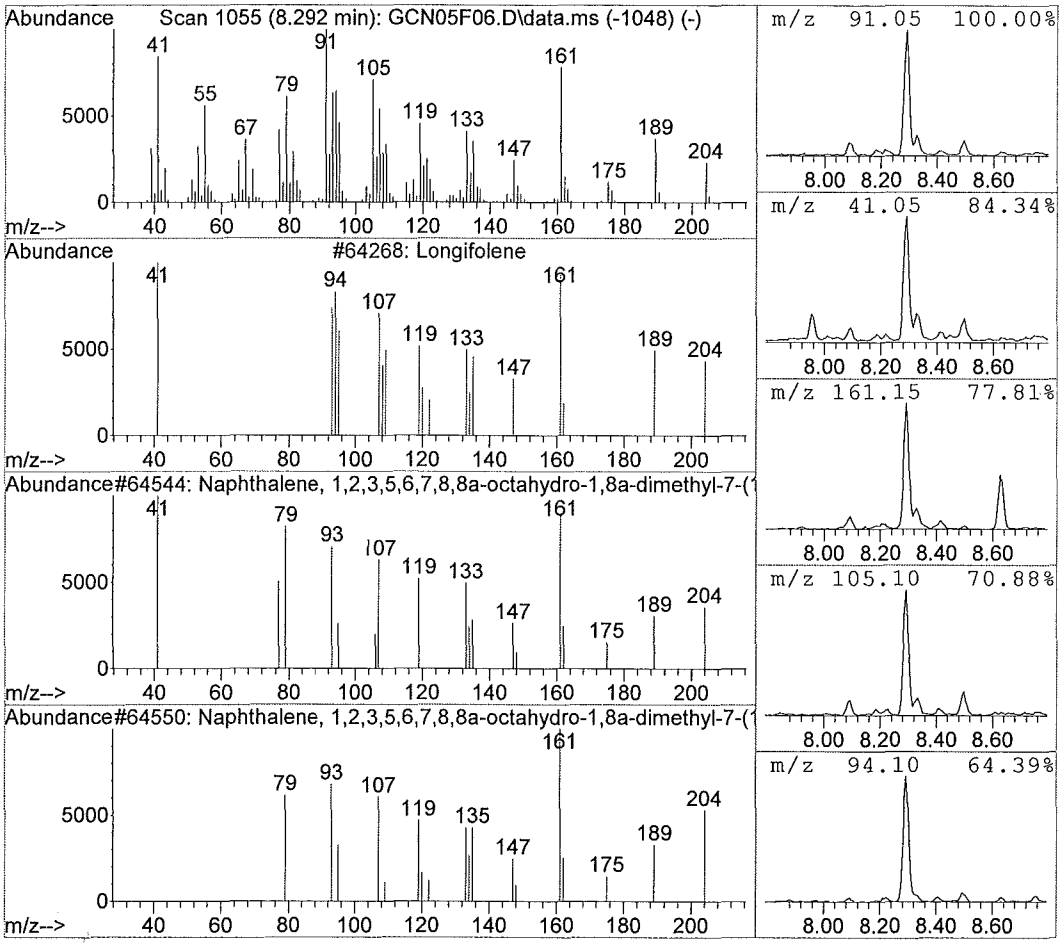
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.29	8.94 ug/ml	1379969	Acenaphthene-d10	3086991

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Longifolene	64268	000475-20-7	99.00
2	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64544	004630-07-3	98.00
3	Naphthalene, 1,2,3,5,6,7,8,8a-octah	64550	010219-75-7	96.00
4	Aromandendrene	64285	000489-39-4	91.00
5	.beta.-Neoclovene	64323	056684-96-9	91.00



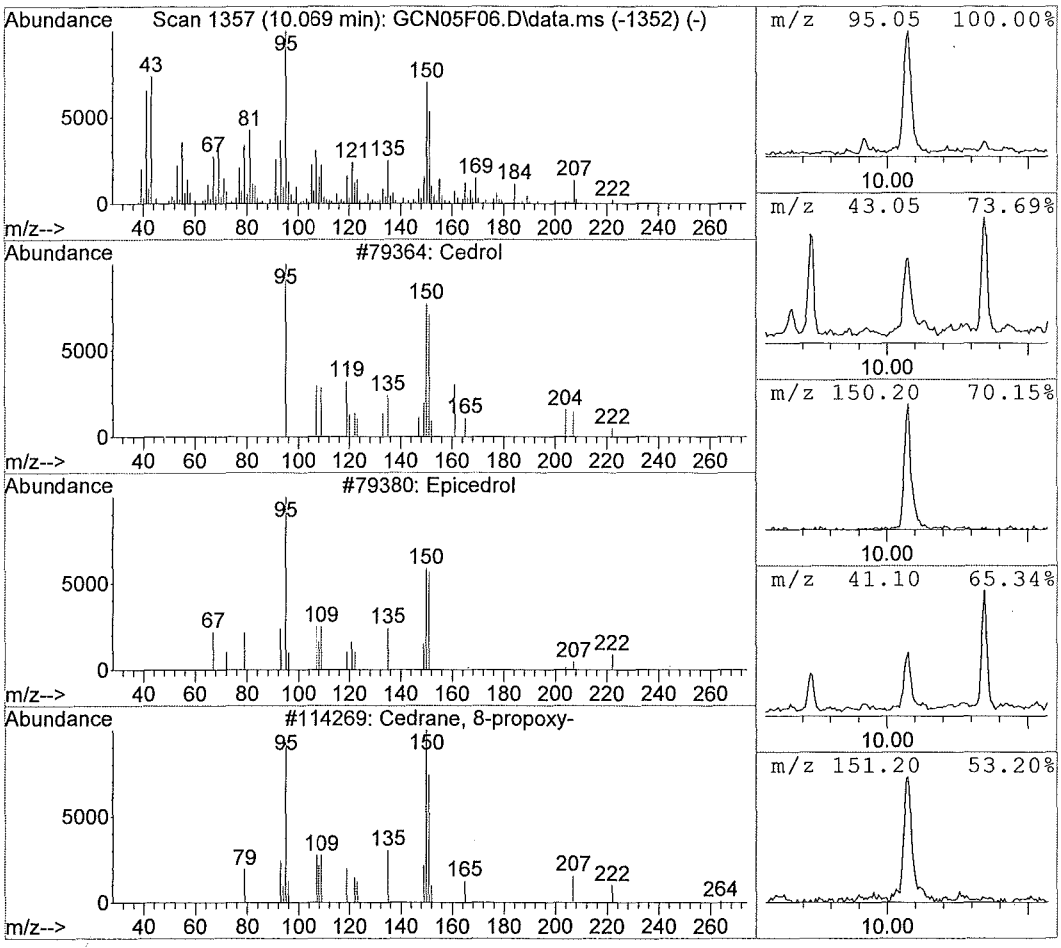
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.07	2.68 ug/ml	412915	Acenaphthene-d10	3086991

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cedrol	79364	000077-53-2	91.00
2	Epicedrol	79380	1000156-22-8	83.00
3	Cedrane, 8-propoxy-	114269	019870-75-8	76.00
4	Naphthalene, decahydro-2,2-dimethyl	35204	031124-85-3	45.00
5	2-Cyclohexen-1-one, 3-methyl-6-(1-m	23893	000491-09-8	38.00



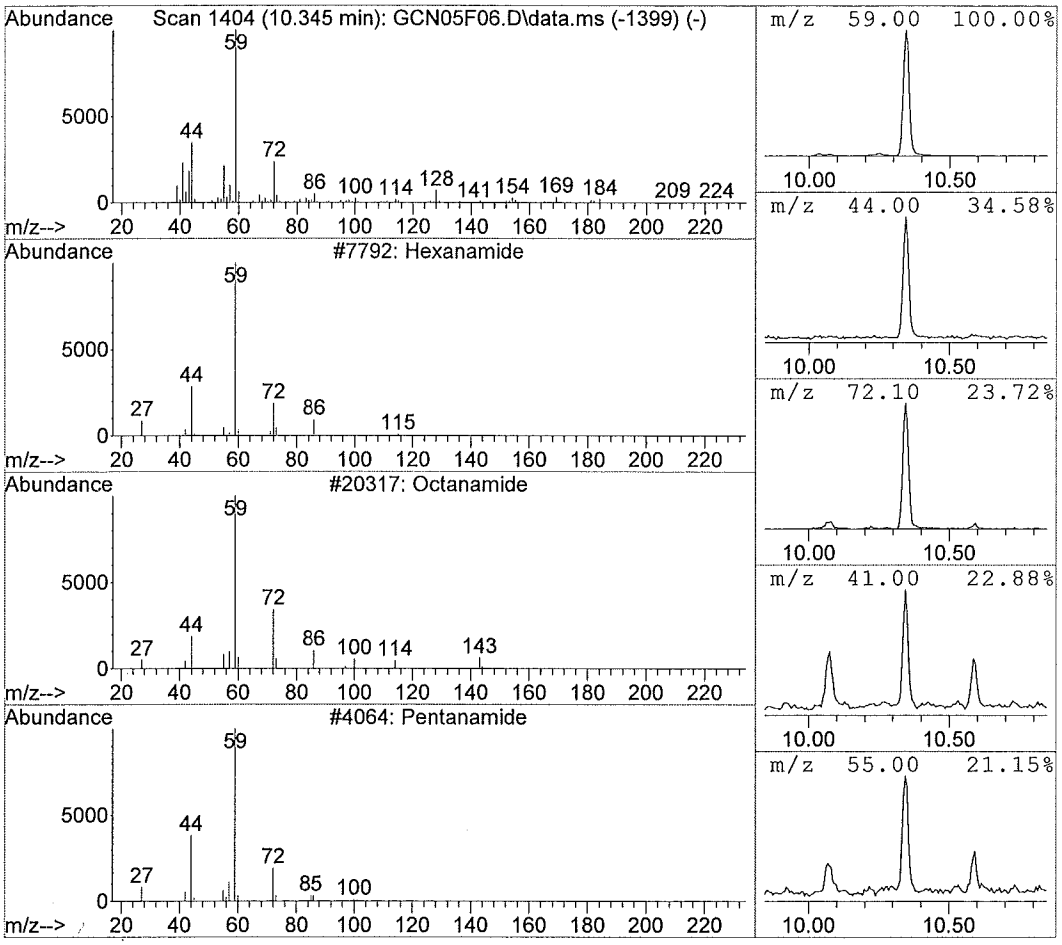
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.35	3.58 ug/ml	576508	Phenanthrene-d10	3219180

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexanamide	7792	000628-02-4	80.00
2	Octanamide	20317	000629-01-6	78.00
3	Pentanamide	4064	000626-97-1	78.00
4	Nonanamide	29478	001120-07-6	74.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	72.00



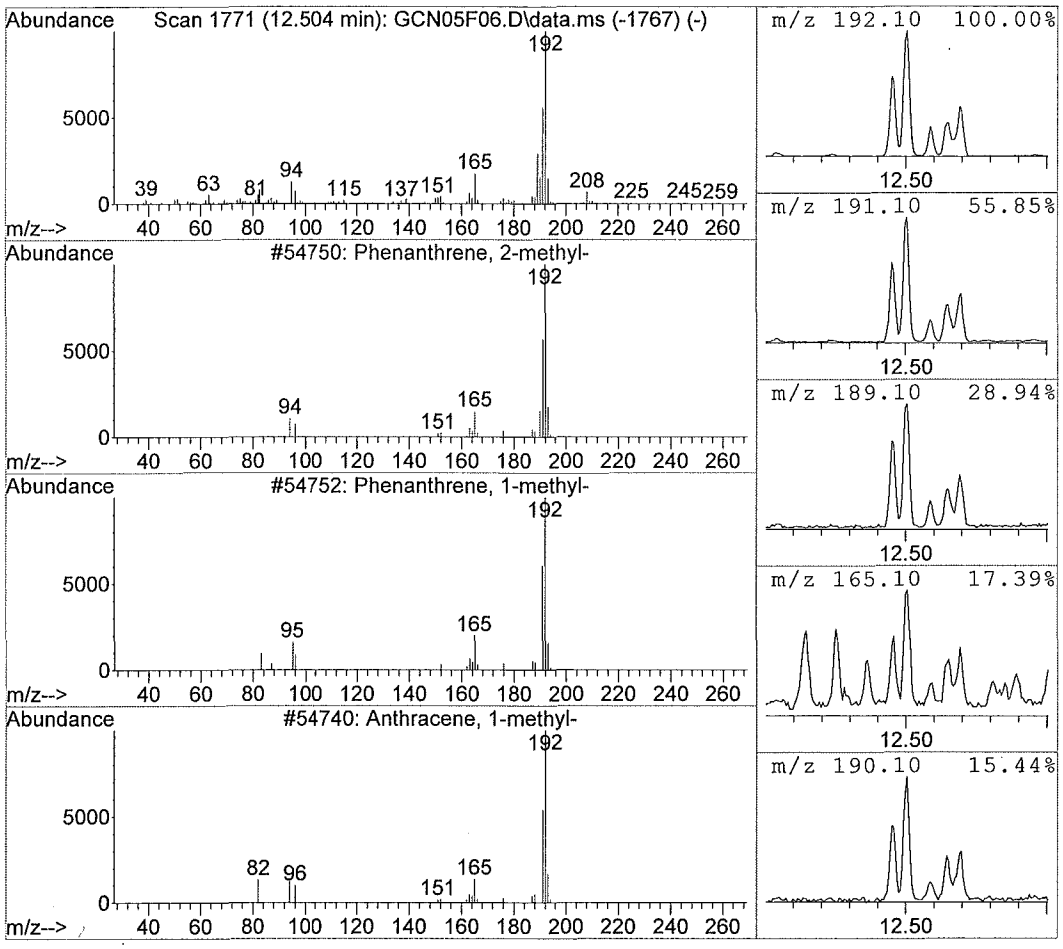
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.50	2.69 ug/ml	433109	Phenanthrene-d10	3219180

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2-methyl-	54750	002531-84-2	97.00
2	Phenanthrene, 1-methyl-	54752	000832-69-9	96.00
3	Anthracene, 1-methyl-	54740	000610-48-0	96.00
4	Anthracene, 9-methyl-	54737	000779-02-2	95.00
5	Anthracene, 2-methyl-	54735	000613-12-7	94.00



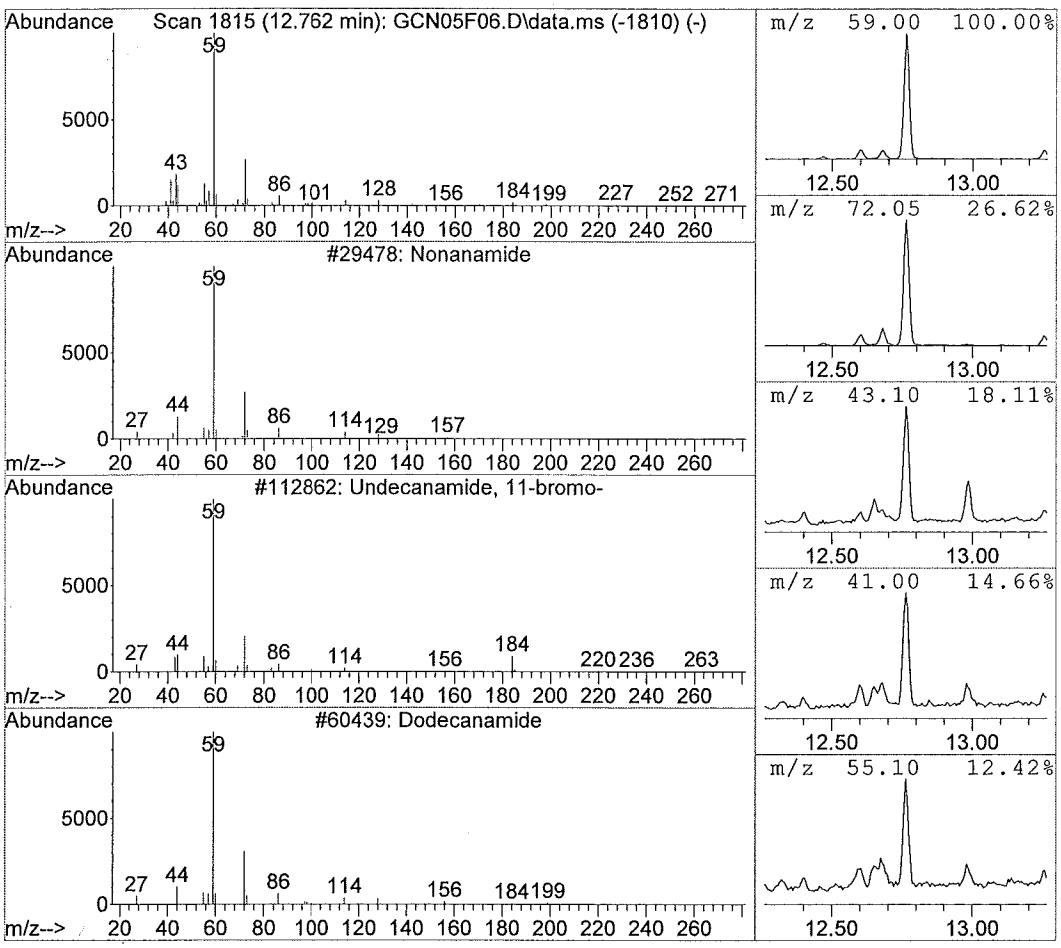
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.76	4.89 ug/ml	787584	Phenanthrene-d10	3219180

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonanamide	29478	001120-07-6	83.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
3	Dodecanamide	60439	001120-16-7	83.00
4	Decanamide-	38977	002319-29-1	74.00
5	Pentanamide	4064	000626-97-1	64.00



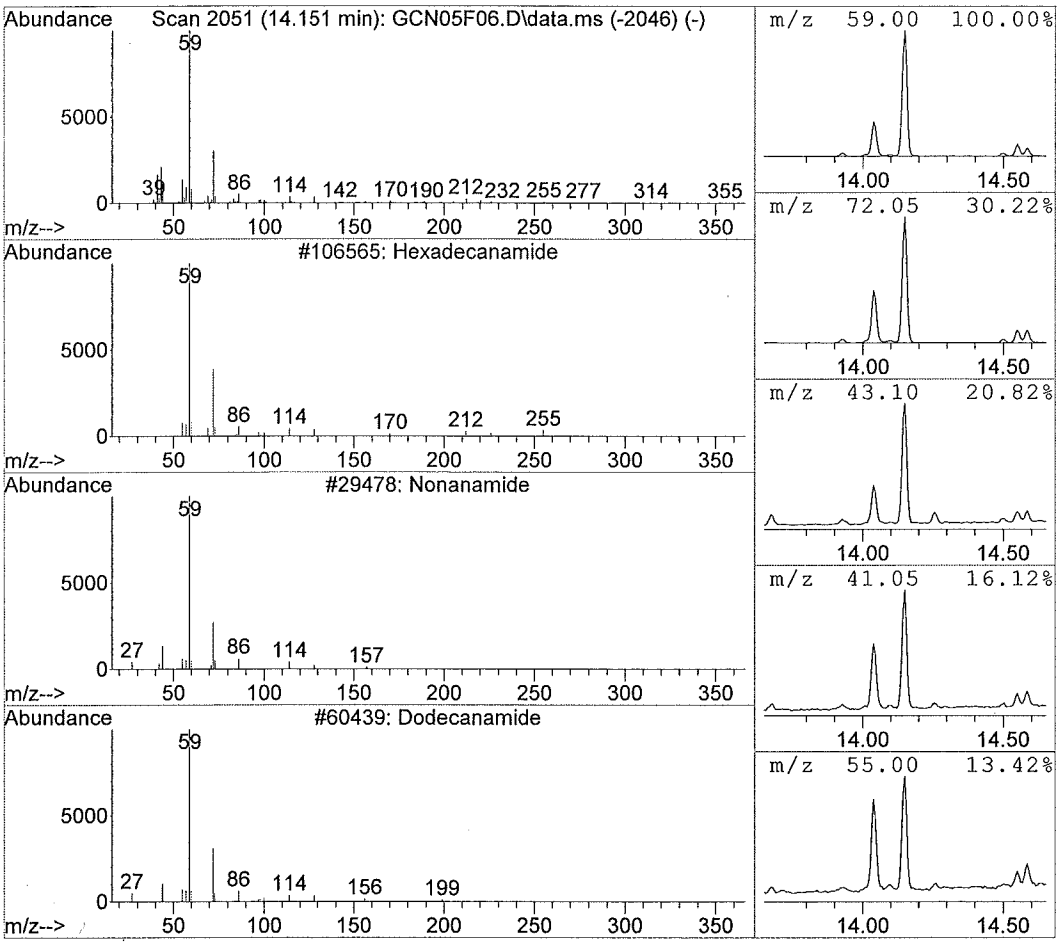
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	14.96 ug/ml	2690916	Chrysene-d12	3598342

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Nonanamide	29478	001120-07-6	78.00
3	Dodecanamide	60439	001120-16-7	78.00
4	Decanamide-	38977	002319-29-1	74.00
5	Tetradecanamide	83609	000638-58-4	72.00



: 00127

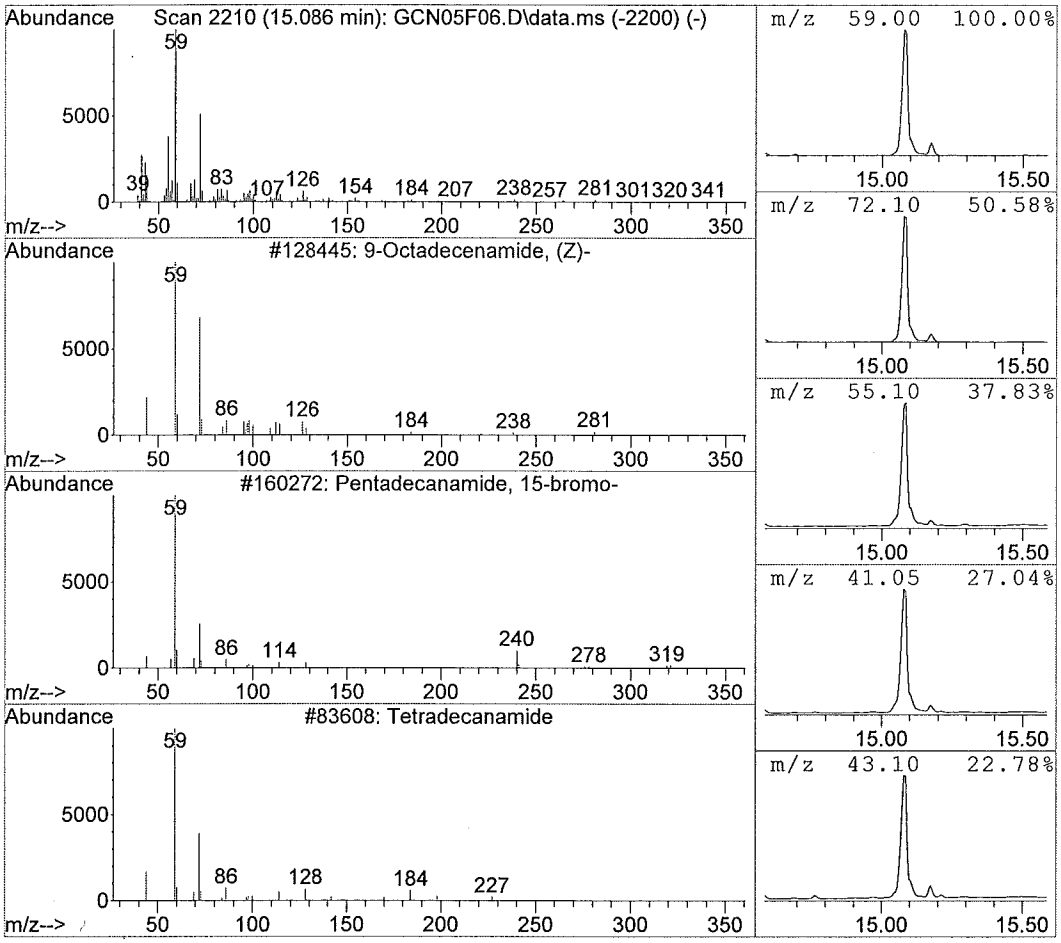
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.09	110.24 ug/ml	19833847	Chrysene-d12	3598342

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	80.00
3	Tetradecanamide	83608	000638-58-4	56.00
4	Hexadecanamide	106564	000629-54-9	56.00
5	Decanamide-	38977	002319-29-1	56.00



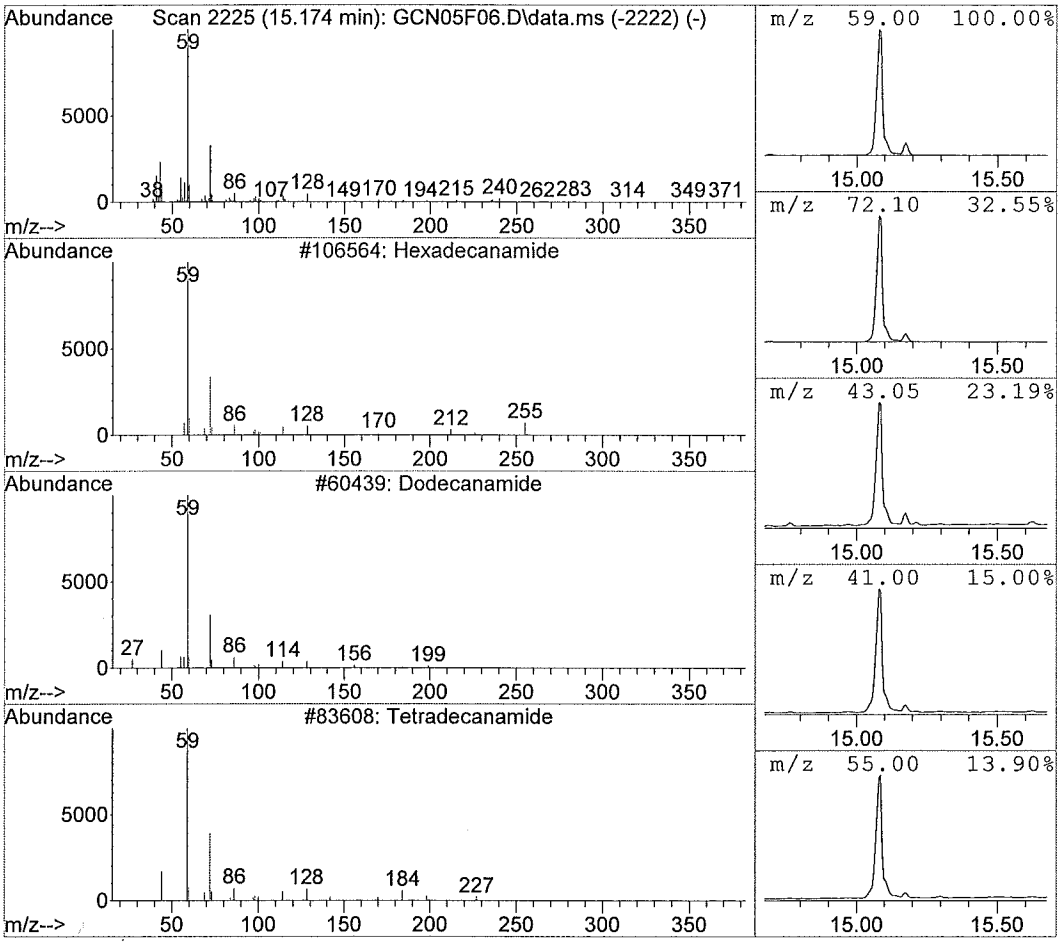
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	4.51 ug/ml	810821	Chrysene-d12	3598342

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	90.00
2	Dodecanamide	60439	001120-16-7	78.00
3	Tetradecanamide	83608	000638-58-4	78.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	78.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	72.00



: 00129

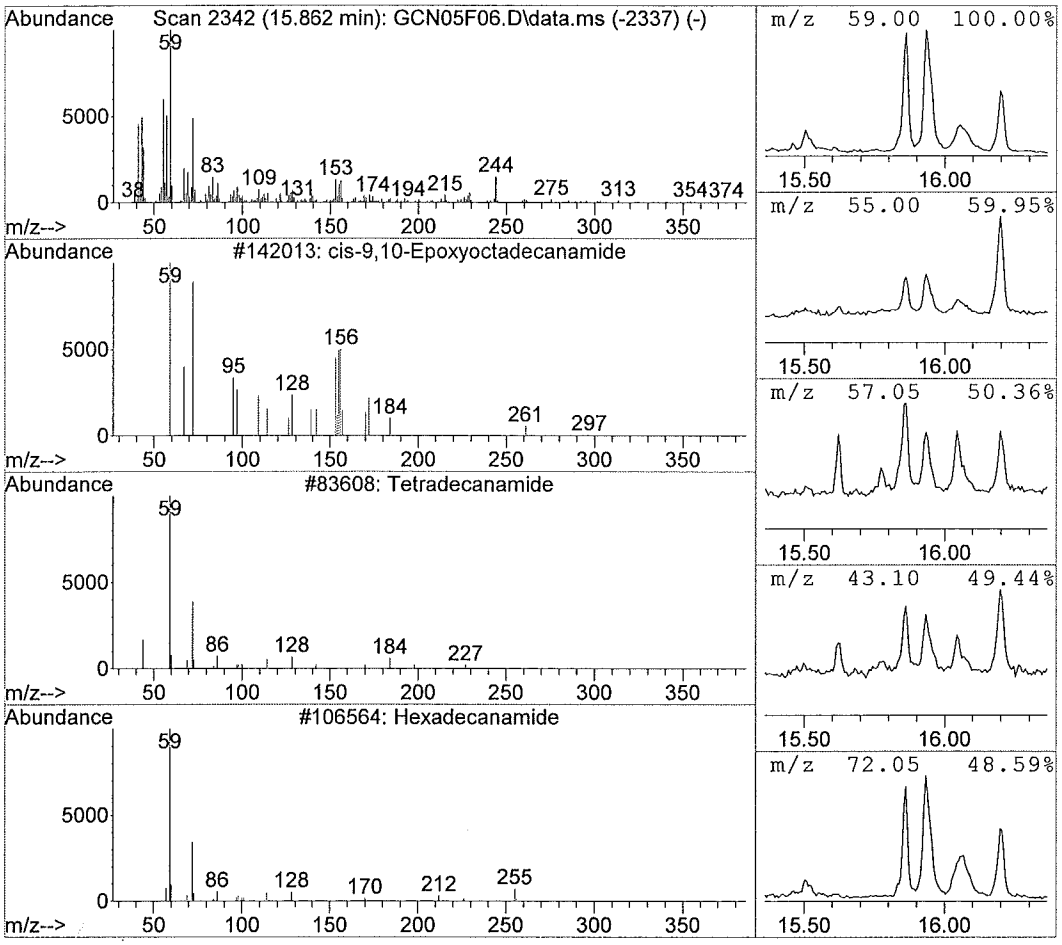
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.86	3.38 ug/ml	608639	Chrysene-d12	3598342

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	cis-9,10-Epoxyoctadecanamide	142013	172995-07-2	64.00
2	Tetradecanamide	83608	000638-58-4	64.00
3	Hexadecanamide	106564	000629-54-9	50.00
4	9-Octadecenamide, (Z)-	128443	000301-02-0	50.00
5	Dodecanamide	60439	001120-16-7	47.00



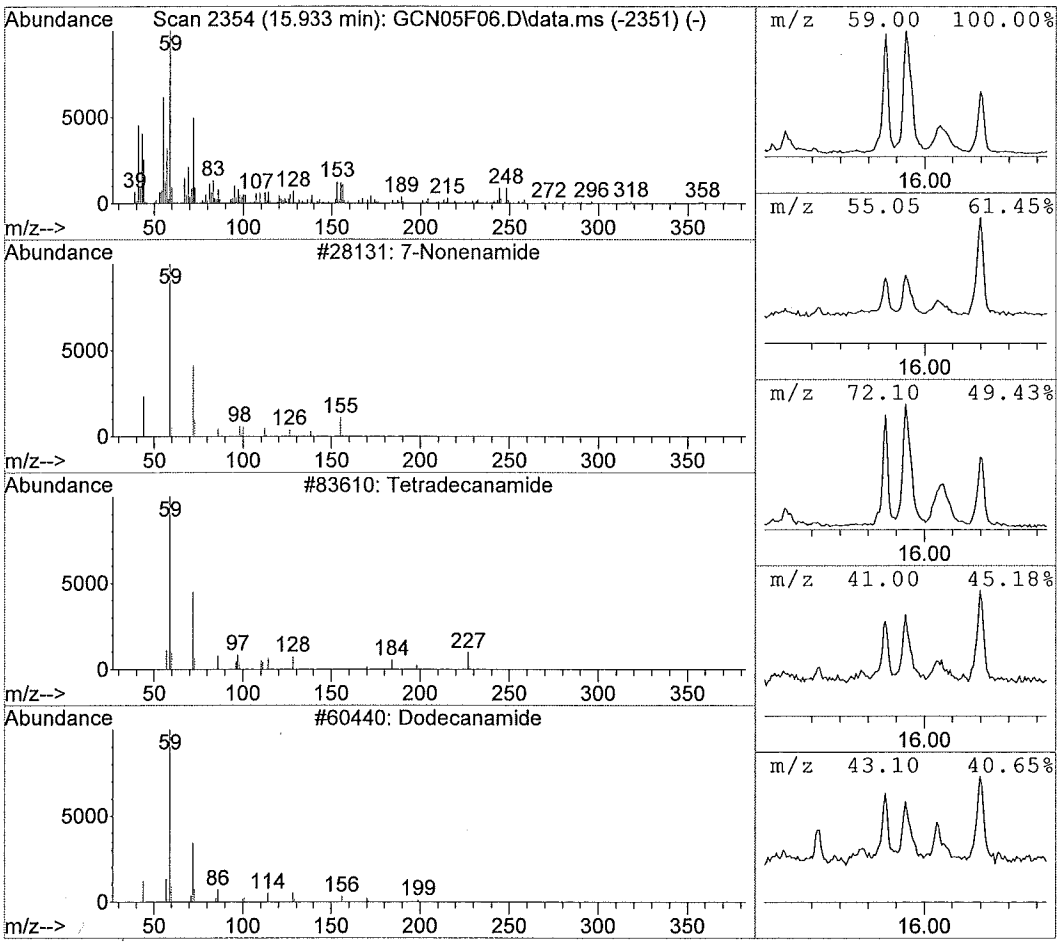
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.93	5.94 ug/ml	1069358	Chrysene-d12	3598342

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	60.00
2	Tetradecanamide	83610	000638-58-4	53.00
3	Dodecanamide	60440	001120-16-7	53.00
4	Hexadecanamide	106565	000629-54-9	53.00
5	9-Octadecenamide, (Z)-	128445	000301-02-0	43.00



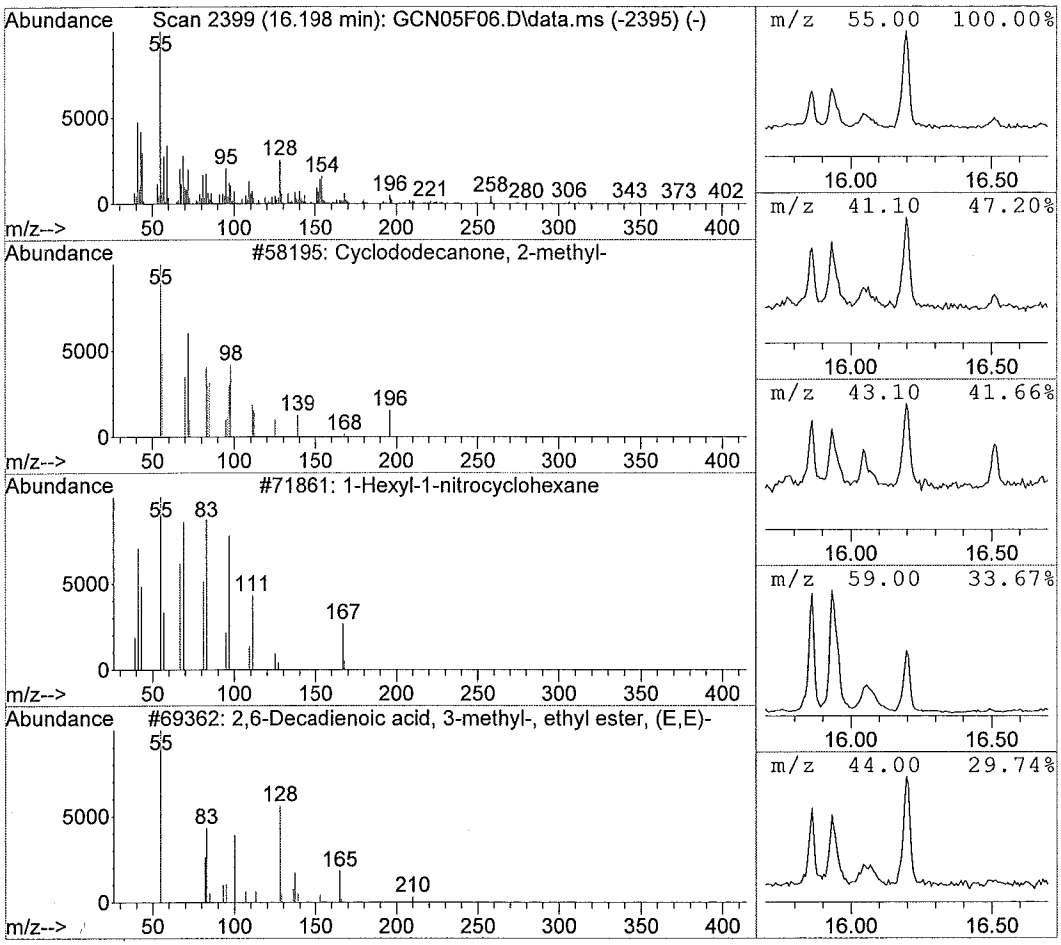
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	5.81 ug/ml	1045949	Chrysene-d12	3598342

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclododecanone, 2-methyl-	58195	016837-94-8	15.00
2	1-Hexyl-1-nitrocyclohexane	71861	118252-09-8	10.00
3	2,6-Decadienoic acid, 3-methyl-, et	69362	055283-33-5	10.00
4	Cyclododecanol, 1-aminomethyl-	71955	000832-29-1	10.00
5	Tridecanedial	71064	063521-76-6	10.00



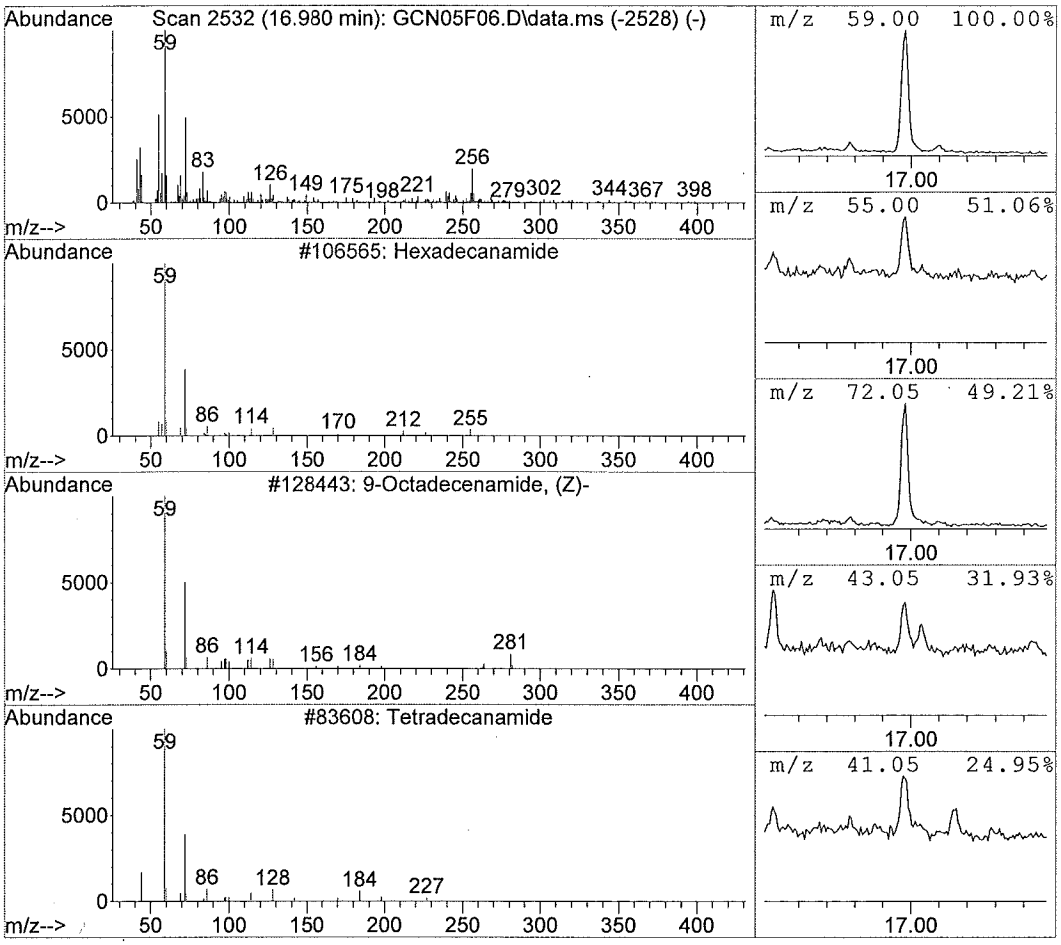
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN05F06.D Vial: 5
Acq On : 07/07/2015 16:54 Operator: TJM
Sample : 1515375006 F9M01 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.98	3.49 ug/ml	427845	Perylene-d12	2454036

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	70.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	64.00
3	Tetradecanamide	83608	000638-58-4	62.00
4	Nonanamide	29478	001120-07-6	49.00
5	Dodecanamide	60440	001120-16-7	47.00



00133

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9M02

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375007

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCN06F07

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015

GPC Cleanup: (Y/N) Y pH: 7.8 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	260	J
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	3900	U
131-11-3	Dimethylphthalate	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U
208-96-8	Acenaphthylene	390	J
99-09-2	3-Nitroaniline	3900	U
83-32-9	Acenaphthene	2000	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

F9M02

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375007

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCN06F07

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	3900	U
100-02-7	4-Nitrophenol	3900	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	3900	U
534-52-1	4,6-Dinitro-2-methylphenol	3900	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	3900	U
85-01-8	Phenanthrene	870	J
120-12-7	Anthracene	380	J
86-74-8	Carbazole	2000	U
84-74-2	Di-n-butylphthalate	2000	U
206-44-0	Fluoranthene	1300	J
129-00-0	Pyrene	1800	J
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)anthracene	1100	J
218-01-9	Chrysene	1800	J
117-81-7	Bis(2-ethylhexyl)phthalate	2000	U
117-84-0	Di-n-octylphthalate	2000	U
205-99-2	Benzo(b)fluoranthene	2700	
207-08-9	Benzo(k)fluoranthene	980	J
50-32-8	Benzo(a)pyrene	1200	J
193-39-5	Indeno(1,2,3-cd)pyrene	780	J
53-70-3	Dibenzo(a,h)anthracene	210	J
191-24-2	Benzo(g,h,i)perylene	610	J
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:

F9M02

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375007

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GCN06F07

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015

GPC Cleanup: (Y/N) Y pH: 7.8 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-	3.49	14000	JB
02		Unknown 1H-Pyrrole-2,5-dione	4.28	1700	J
03	626-97-1	Pentanamide	10.35	1200	JN
04	638-58-4	Tetradecanamide	12.76	2200	JN
05	1120-16-7	Dodecanamide	14.15	6400	JN
06		Unknown Hexadecanamide	14.55	1100	J
07		Unknown 9-Octadecenamide, (Z)-	14.59	850	J
08	301-02-0	9-Octadecenamide, (Z)-	15.09	53000	JNB
09	629-54-9	Hexadecanamide	15.17	2000	JNB
10		Unknown Tetradecanamide	15.86	1100	J
11		Unknown 7-Nonenamide	15.93	1900	J
12		Unknown Acetic acid, 2,2-di(2-buten-1-yl)-2-phen	16.20	2200	J
13		Unknown Dithianone	18.62	13000	J
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	6600	J

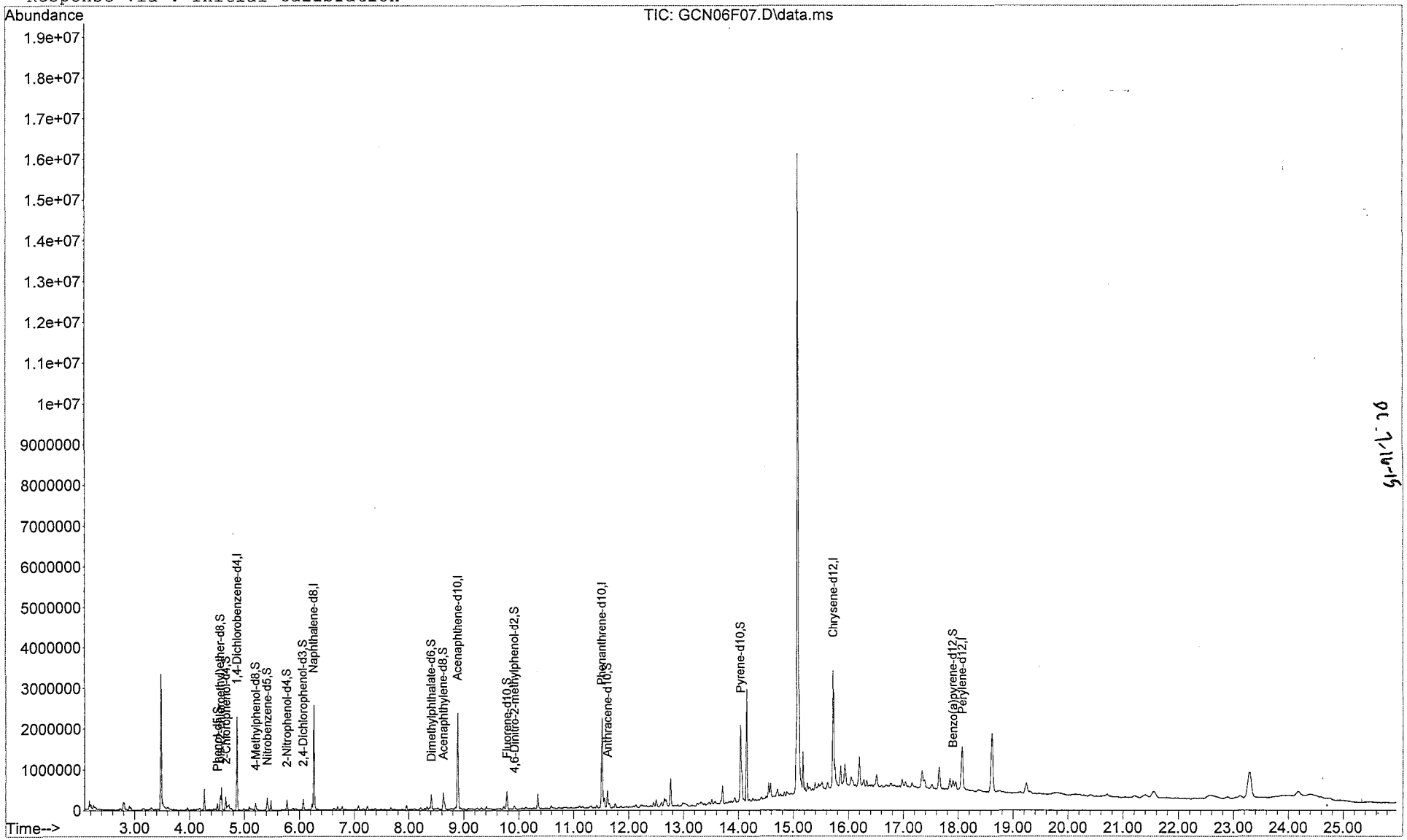
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 16 08:17:47 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration



9L.7/16-15

Quantitation Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 08:17:47 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	323413	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1209139	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	727876	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1207783	20.00 ug/ml
73) Chrysene-d12	15.73	240	1177695	20.00 ug/ml
81) Perylene-d12	18.07	264	775914	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	51324	1.824ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	67928	3.097ug/mL
7) 2-Chlorophenol-d4	4.66	132	78551	3.306ug/ml
13) 4-Methylphenol-d8	5.20	113	40876	2.171ug/mL
17) Nitrobenzene-d5	5.42	128	35926	3.382ug/ml
21) 2-Nitrophenol-d4	5.77	143	38604	3.438ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	62643	3.583ug/mL
28) 4-Chloroaniline-d4	6.33	131	5177	0.271ug/mL
42) Dimethylphthalate-d6	8.41	166	183425	4.019ug/mL
45) Acenaphthylene-d8	8.63	160	239445	3.860ug/mL
50) 4-Nitrophenol-d4	9.15	143	438	0.047ug/mL
57) Fluorene-d10	9.79	176	151303	3.882ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	13318	1.554ug/mL
69) Anthracene-d10	11.62	188	253701	3.961ug/mL
75) Pyrene-d10	14.04	212	240285	4.088ug/mL
86) Benzo(a)pyrene-d12	17.90	264	141818	3.814ug/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	7.24	142	25711	0.665ug/ml	94
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

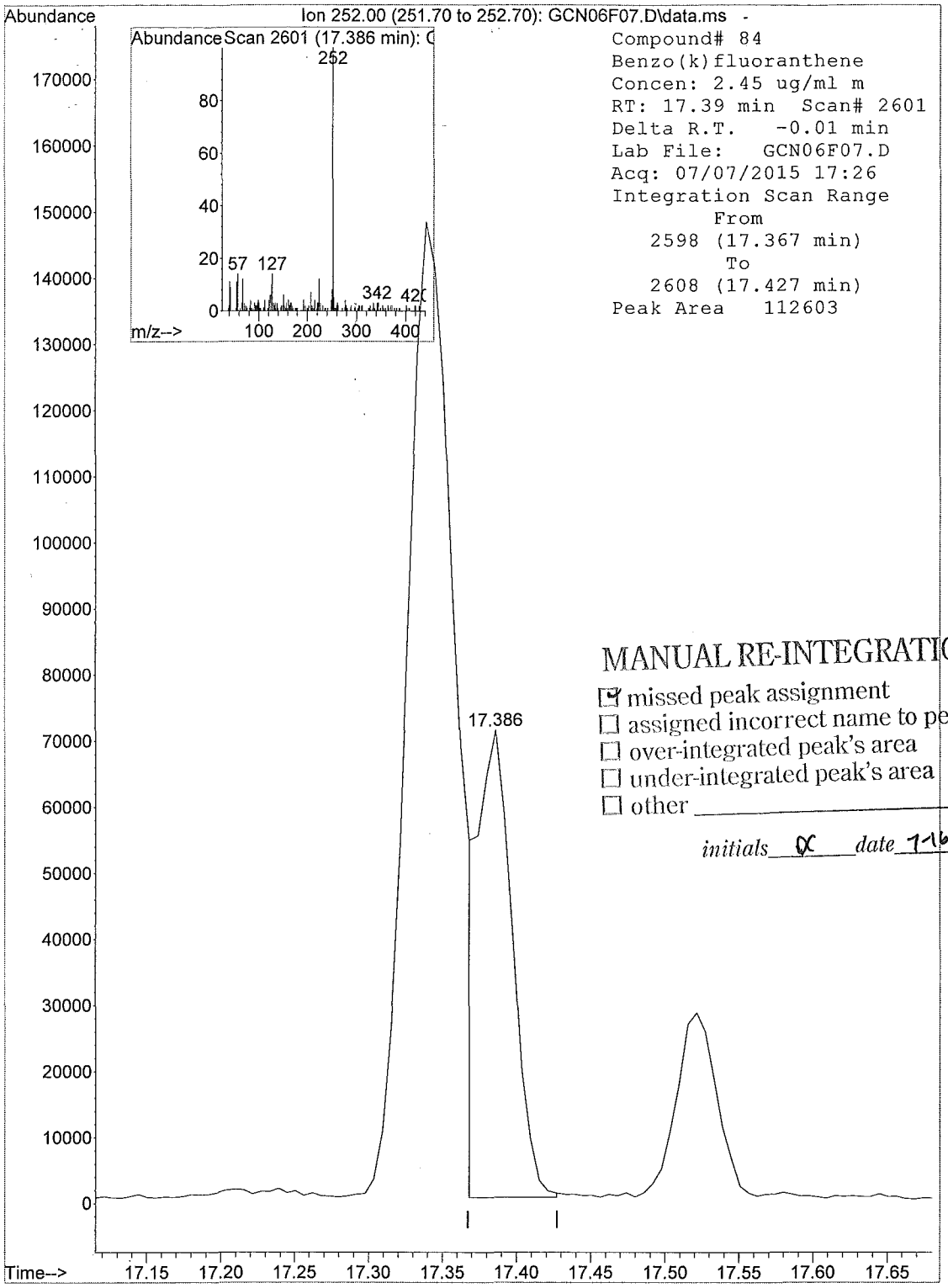
Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 08:17:47 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	8.65	152	65138	0.989ug/ml	96
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	11.56	178	140653	2.183ug/ml	99
68)	Anthracene	11.65	178	62286	0.947ug/ml	96
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	13.71	202	240009	3.381ug/ml	94
74)	Pyrene	14.07	202	345151	4.604ug/ml	95
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.71	228	201306	2.818ug/ml	81
79)	Chrysene	15.76	228	287120	4.450ug/ml	95
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.34	252	330568	6.802ug/ml	95
84)	Benzo(k)fluoranthene	17.39	252	112603	2.453ug/ml m	95
85)	Benzo(a)pyrene	17.96	252	141116	3.086ug/ml DC 7-16-15	95
87)	Indeno(1,2,3-c,d)pyrene	20.71	276	78941	1.952ug/ml	89
88)	Dibenzo(a,h)anthracene	20.77	278	21220	0.524ug/ml	76
89)	Benzo(g,h,i)perylene	21.52	276	61285	1.539ug/ml	94

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

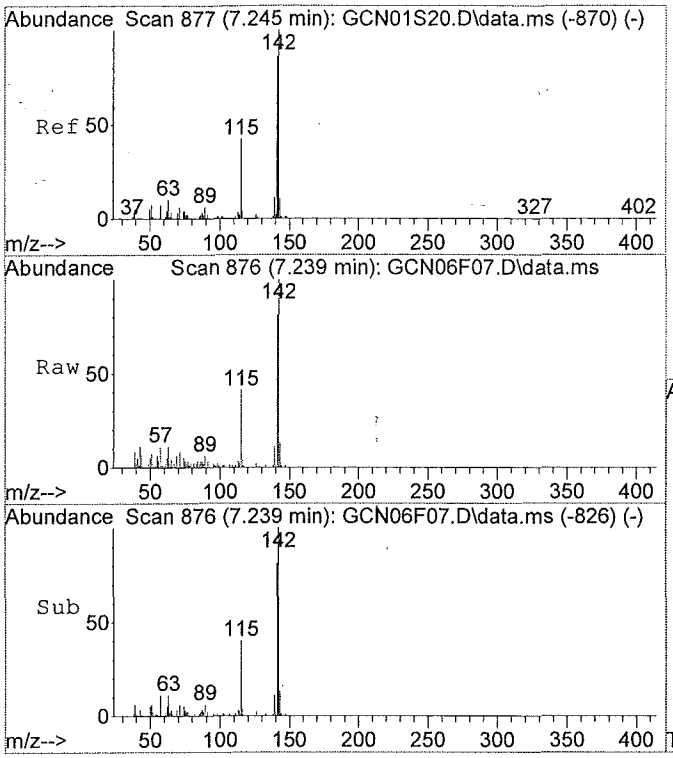
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

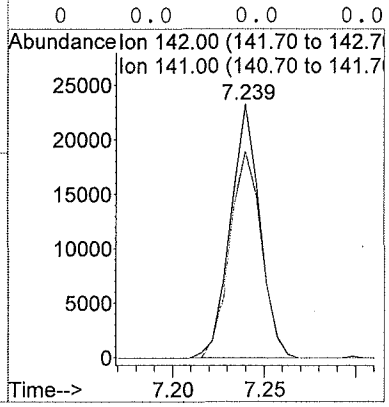
initials QC *date* 7-16-15

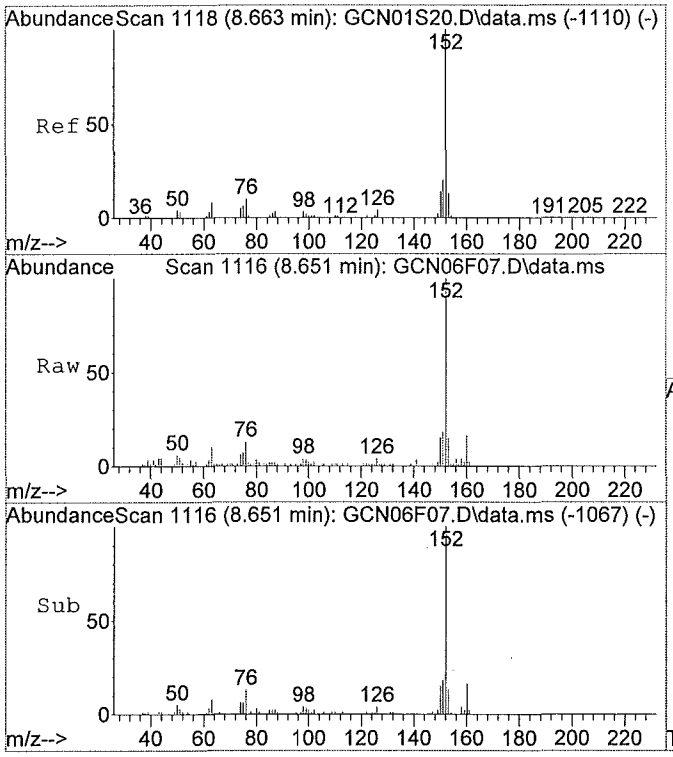


#32
2-Methylnaphthalene
Concen: 0.66 ug/ml
RT: 7.24 min Scan# 876
Delta R.T. -0.01 min
Lab File: GCN06F07.D
Acq: 07/07/2015 17:26

Tgt Ion:142 Resp: 25711

Ion	Ratio	Lower	Upper
142	100		
141	88.0	57.7	107.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

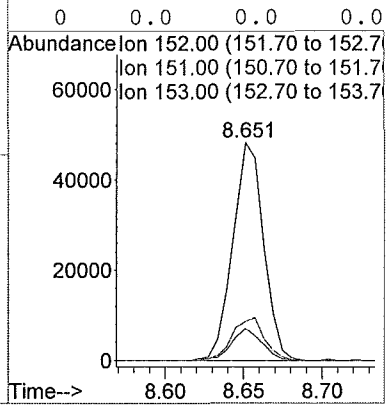


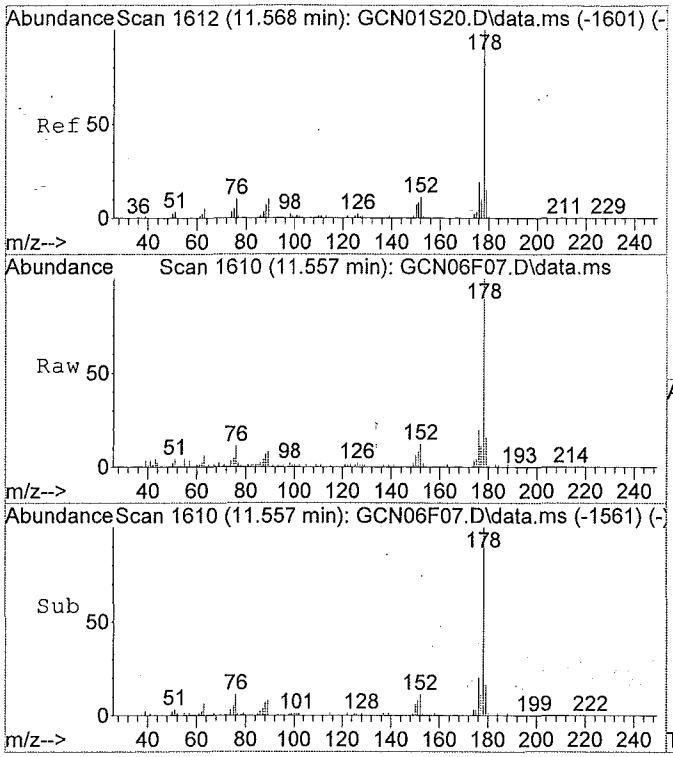


#44
Acenaphthylene
Concen: 0.99 ug/ml
RT: 8.65 min Scan# 1116
Delta R.T. -0.01 min
Lab File: GCN06F07.D
Acq: 07/07/2015 17:26

Tgt Ion:152 Resp: 65138

Ion	Ratio	Lower	Upper
152	100		
151	20.9	13.4	25.0
153	14.4	9.1	16.9
0	0.0	0.0	0.0

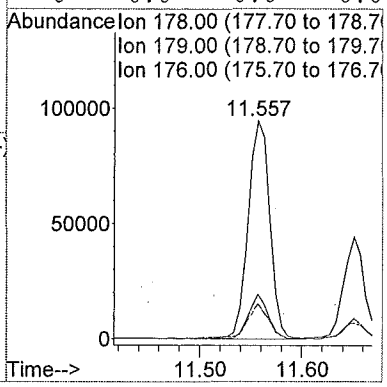


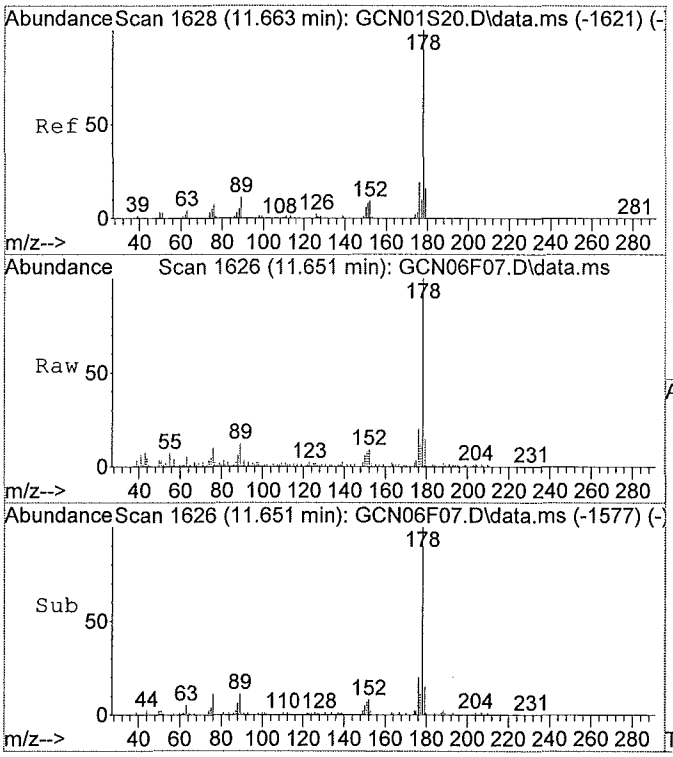


#67
Phenanthrene
Concen: 2.18 ug/ml
RT: 11.56 min Scan# 1610
Delta R.T. -0.01 min
Lab File: GCN06F07.D
Acq: 07/07/2015 17:26

Tgt Ion:178 Resp: 140653

Ion	Ratio	Lower	Upper
178	100		
179	16.4	10.6	19.8
176	18.8	13.2	24.4
0	0.0	0.0	0.0

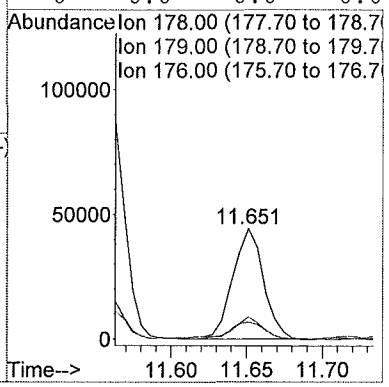


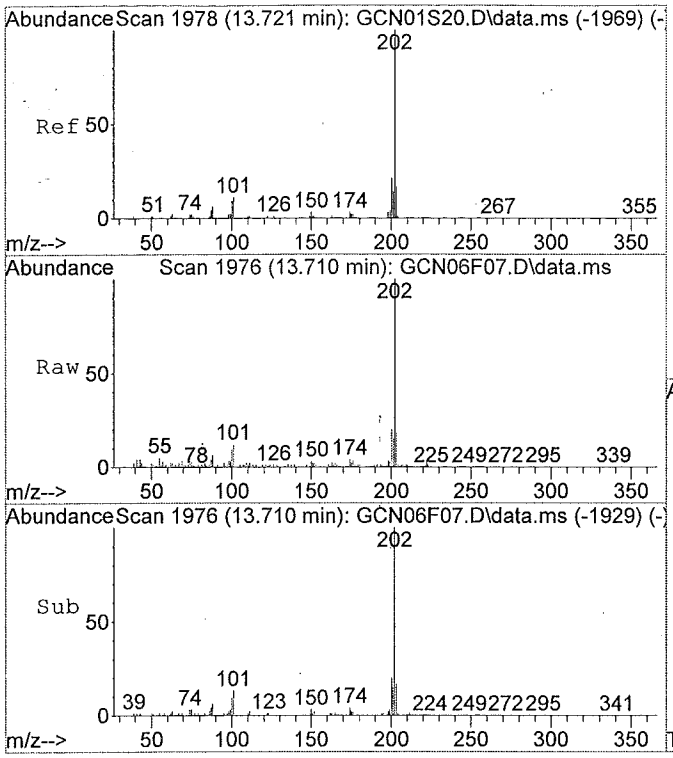


#68
Anthracene
Concen: 0.95 ug/ml
RT: 11.65 min Scan# 1626
Delta R.T. -0.01 min
Lab File: GCN06F07.D
Acq: 07/07/2015 17:26

Tgt Ion:178 Resp: 62286

Ion	Ratio	Lower	Upper
178	100		
179	17.7	10.5	19.5
176	19.0	12.7	23.5
0	0.0	0.0	0.0

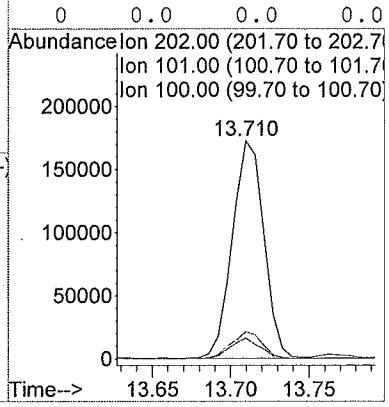


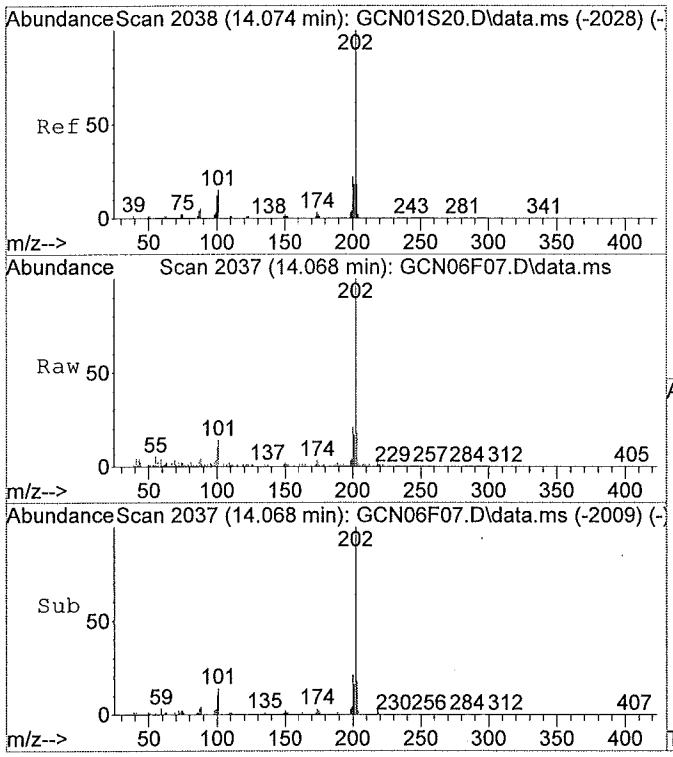


#72
Fluoranthene
Concen: 3.38 ug/ml
RT: 13.71 min Scan# 1976
Delta R.T. -0.01 min
Lab File: GCN06F07.D
Acq: 07/07/2015 17:26

Tgt Ion:202 Resp: 240009

Ion	Ratio	Lower	Upper
202	100		
101	12.1	10.5	19.5
100	9.2	7.4	13.8
0	0.0	0.0	0.0

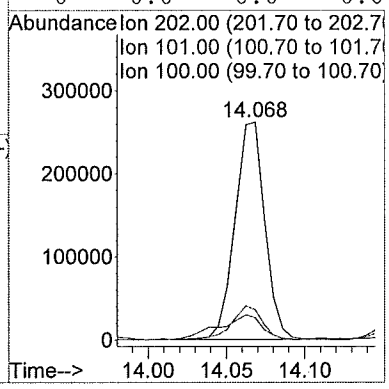


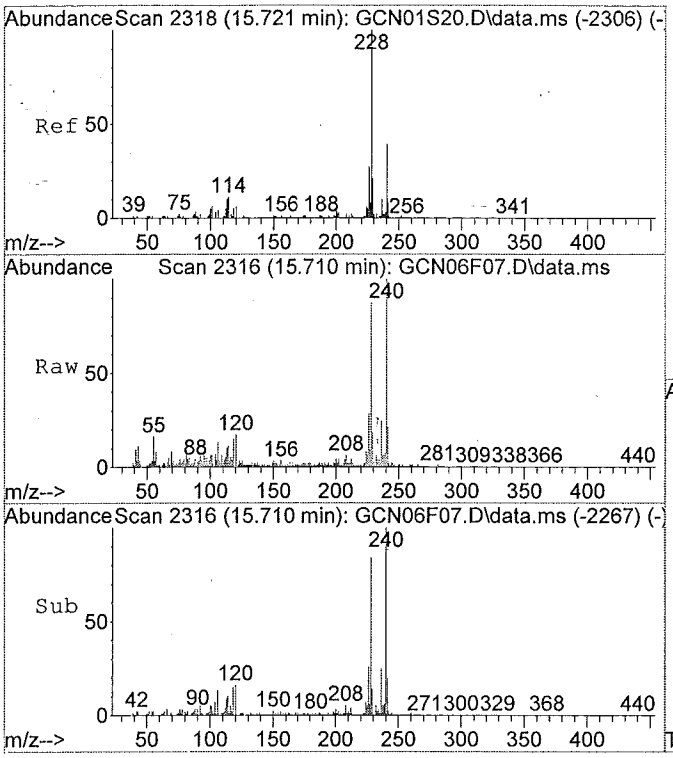


#74
Pyrene
Concen: 4.60 ug/ml
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: GCN06F07.D
Acq: 07/07/2015 17:26

Tgt Ion:202 Resp: 345151

Ion	Ratio	Lower	Upper
202	100		
101	15.7	12.2	22.7
100	17.1	10.1	18.7
0	0.0	0.0	0.0

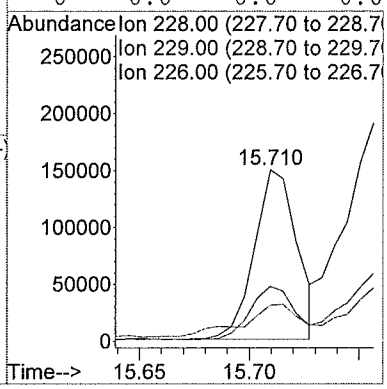


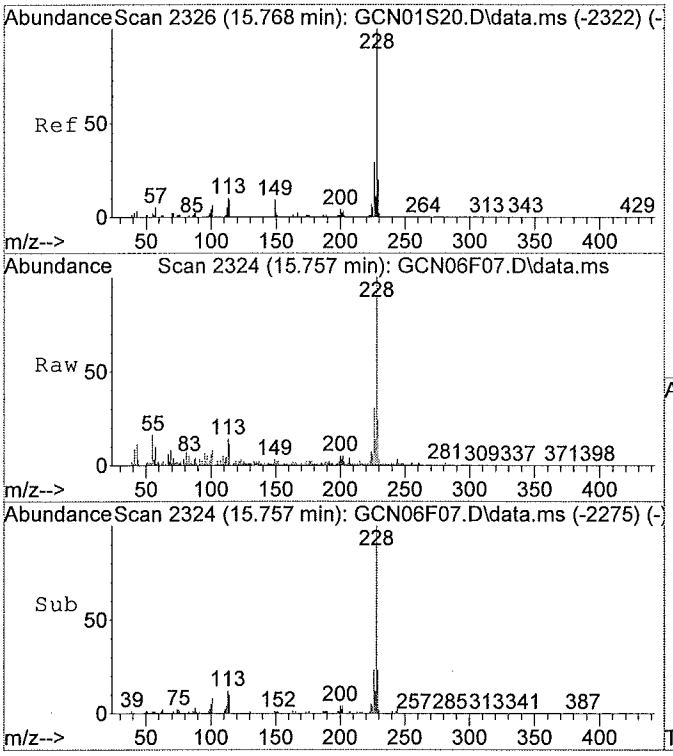


#78
Benzo(a)anthracene
Concen: 2.82 ug/ml
RT: 15.71 min Scan# 2316
Delta R.T. -0.01 min
Lab File: GCN06F07.D
Acq: 07/07/2015 17:26

Tgt Ion:228 Resp: 201306

Ion	Ratio	Lower	Upper
228	100		
229	30.7	13.7	25.5#
226	33.4	18.2	33.8
0	0.0	0.0	0.0

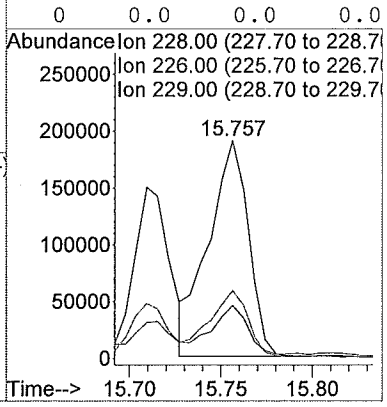


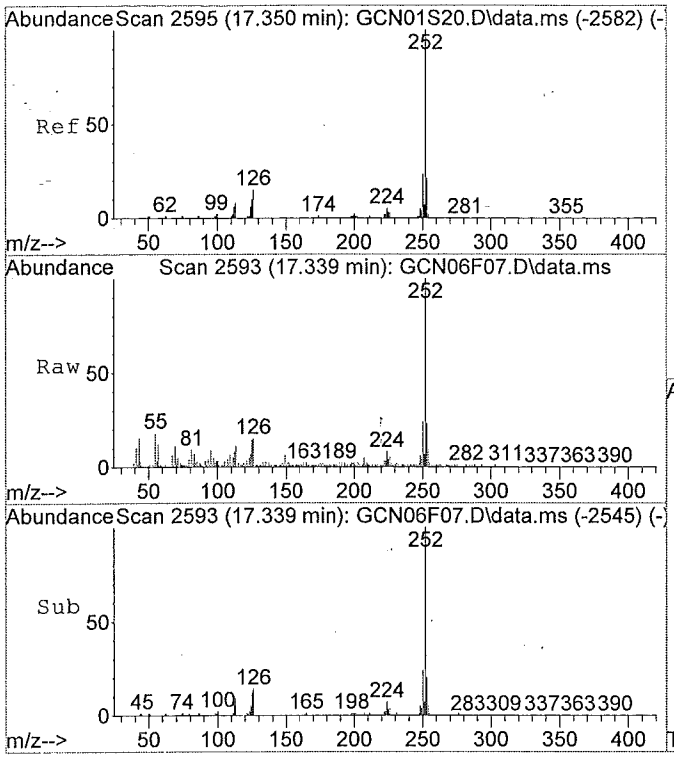


#79
Chrysene
Concen: 4.45 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCN06F07.D
Acq: 07/07/2015 17:26

Tgt Ion:228 Resp: 287120

Ion	Ratio	Lower	Upper
228	100		
226	31.6	20.1	37.3
229	21.3	13.7	25.5
0	0.0	0.0	0.0

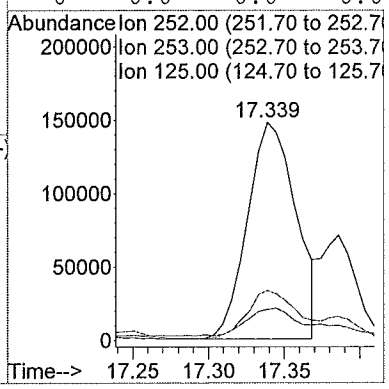


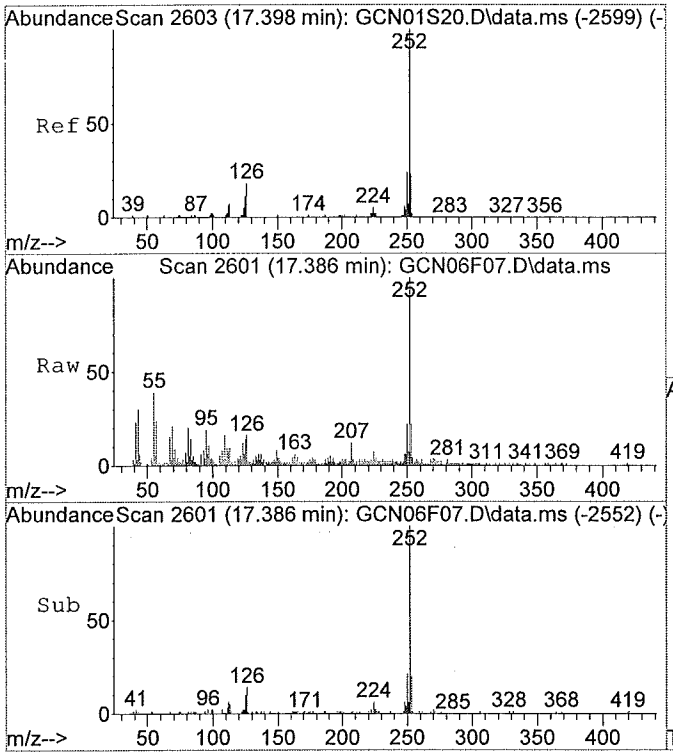


#83
Benzo(b)fluoranthene
Concen: 6.80 ug/ml
RT: 17.34 min Scan# 2593
Delta R.T. -0.01 min
Lab File: GCN06F07.D
Acq: 07/07/2015 17:26

Tgt Ion:252 Resp: 330568

Ion	Ratio	Lower	Upper
252	100		
253	24.2	15.1	28.1
125	16.8	10.6	19.8
0	0.0	0.0	0.0

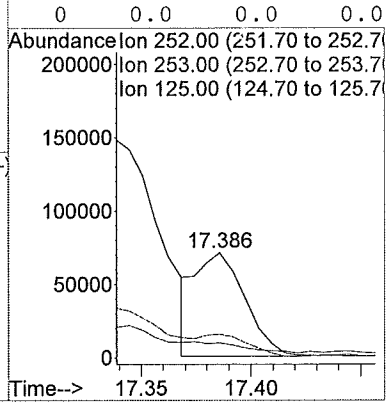


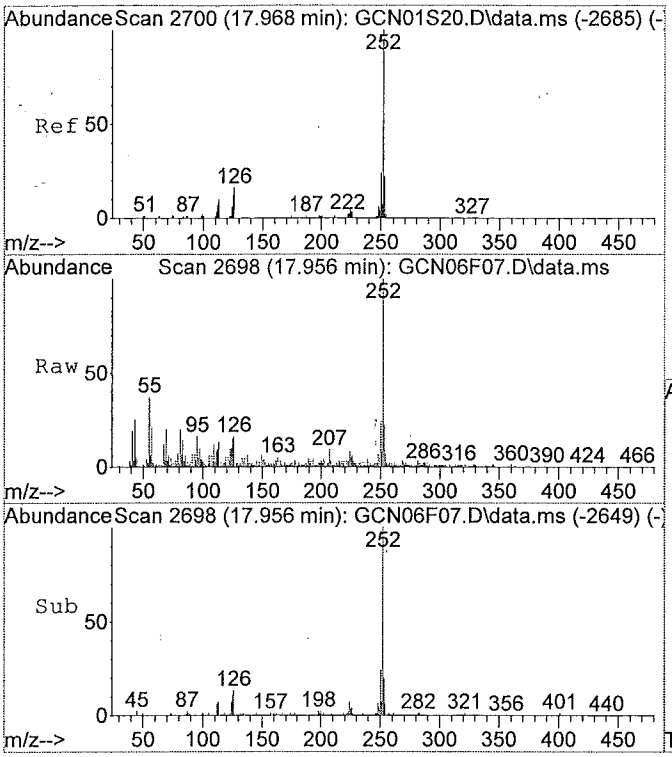


#84
Benzo(k)fluoranthene
Concen: 2.45 ug/ml m
RT: 17.39 min Scan# 2601
Delta R.T. -0.01 min
Lab File: GCN06F07.D
Acq: 07/07/2015 17:26

Tgt Ion:252 Resp: 112603

Ion	Ratio	Lower	Upper
252	100		
253	71.0	15.1	28.1#
125	48.8	10.7	19.9#
0	0.0	0.0	0.0

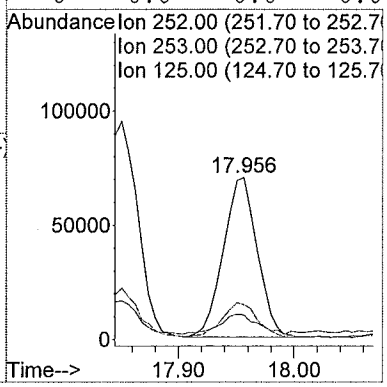


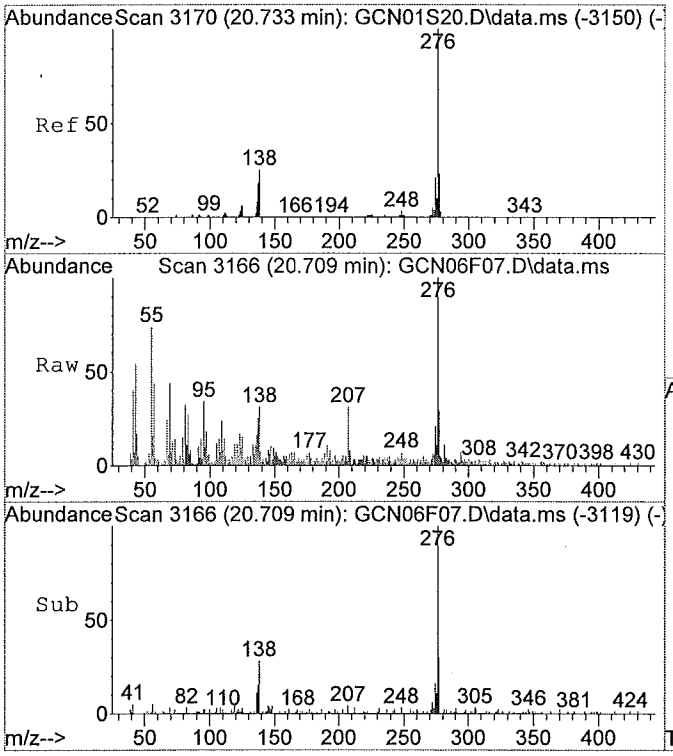


#85
Benzo(a)pyrene
Concen: 3.Q9 ug/ml
RT: 17.96 min Scan# 2698
Delta R.T. -0.01 min
Lab File: GCN06F07.D
Acq: 07/07/2015 17:26

Tgt Ion:252 Resp: 141116

Ion	Ratio	Lower	Upper
252	100		
253	23.5	15.2	28.2
125	13.5	11.8	21.8
0	0.0	0.0	0.0

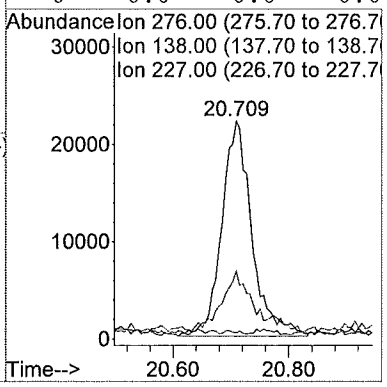


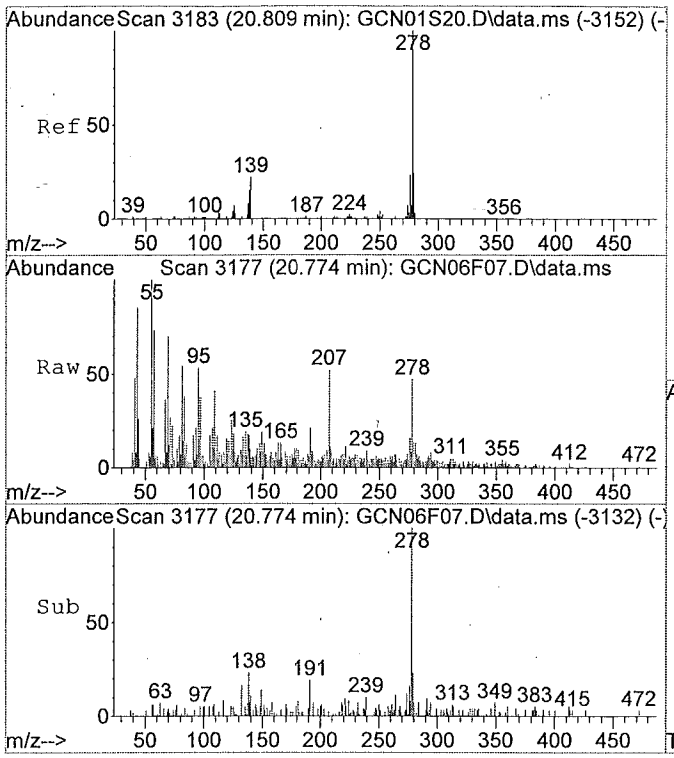


#87
Indeno(1,2,3-c,d)pyrene
Concen: 1.95 ug/ml
RT: 20.71 min Scan# 3166
Delta R.T. -0.02 min
Lab File: GCN06F07.D
Acq: 07/07/2015 17:26

Tgt Ion:276 Resp: 78941

Ion	Ratio	Lower	Upper
276	100		
138	25.9	22.3	41.5
227	0.4	0.1	0.1#
0	0.0	0.0	0.0

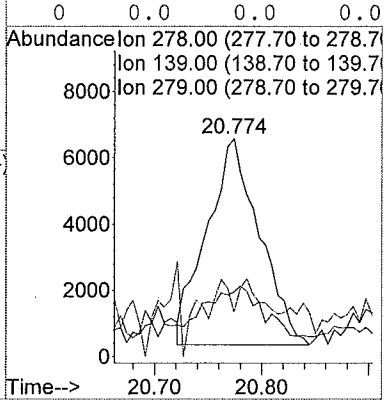


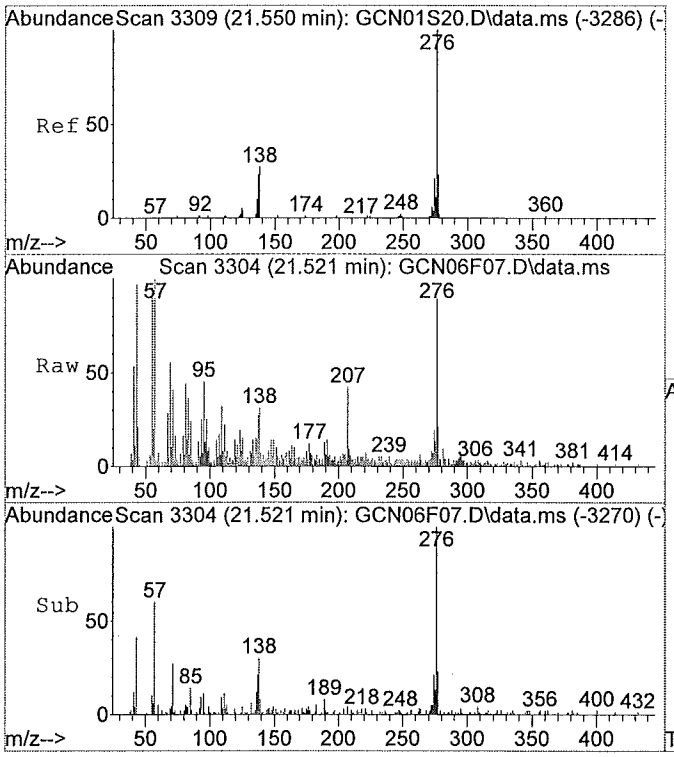


#88
Dibenzo(a,h)anthracene
Concen: 0.52 ug/ml
RT: 20.77 min Scan# 3177
Delta R.T. -0.04 min
Lab File: GCN06F07.D
Acq: 07/07/2015 17:26

Tgt Ion:278 Resp: 21220

Ion	Ratio	Lower	Upper
278	100		
139	5.8	17.3	32.1#
279	27.6	16.3	30.3
0	0.0	0.0	0.0

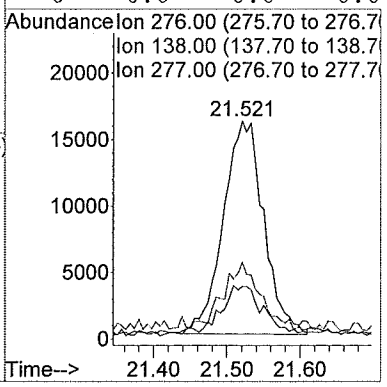




#89
Benzo(g,h,i)perylene
Concen: 1.54 ug/ml
RT: 21.52 min Scan# 3304
Delta R.T. -0.03 min
Lab File: GCN06F07.D
Acq: 07/07/2015 17:26

Tgt Ion:276 Resp: 61285

Ion	Ratio	Lower	Upper
276	100		
138	29.4	24.1	44.7
277	22.6	16.7	30.9
0	0.0	0.0	0.0



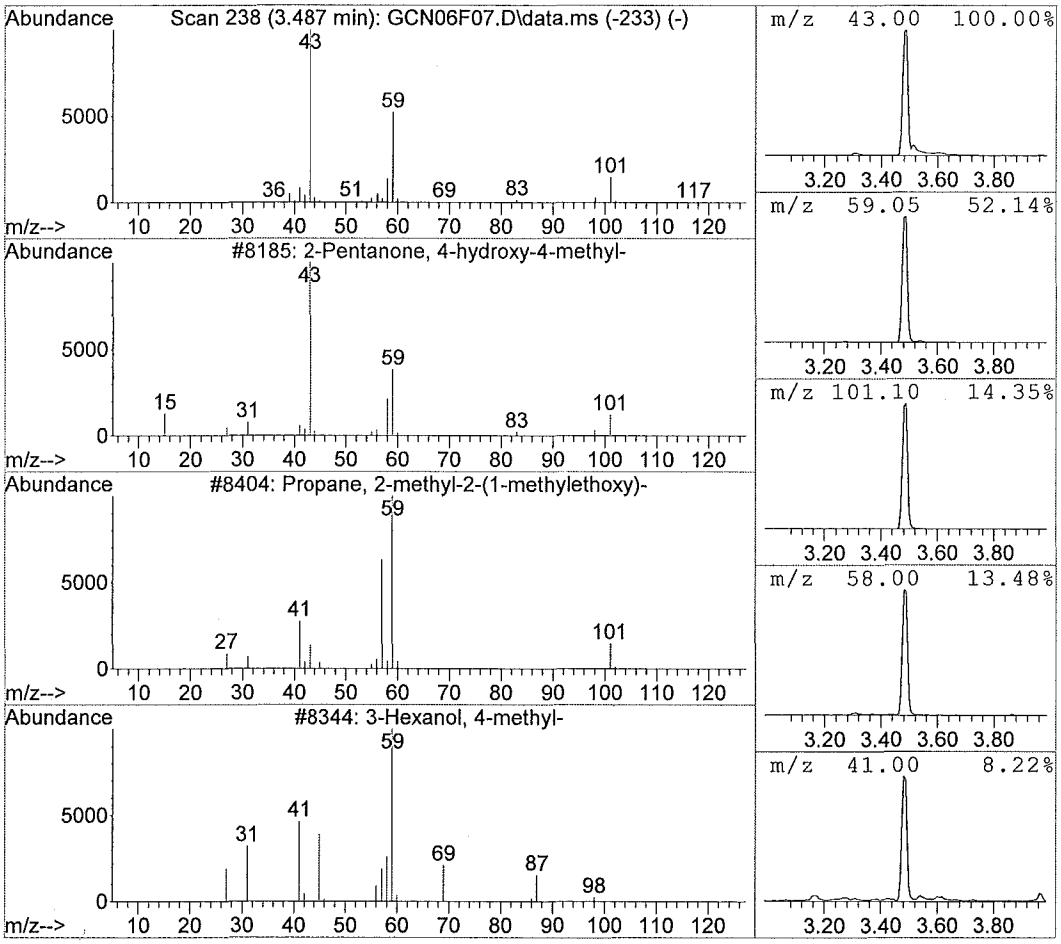
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.49	35.08 ug/ml	4067943	1,4-Dichlorobenzene-d4	2319507

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	Propane, 2-methyl-2-(1-methylethoxy	8404	017348-59-3	36.00
3	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
4	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00



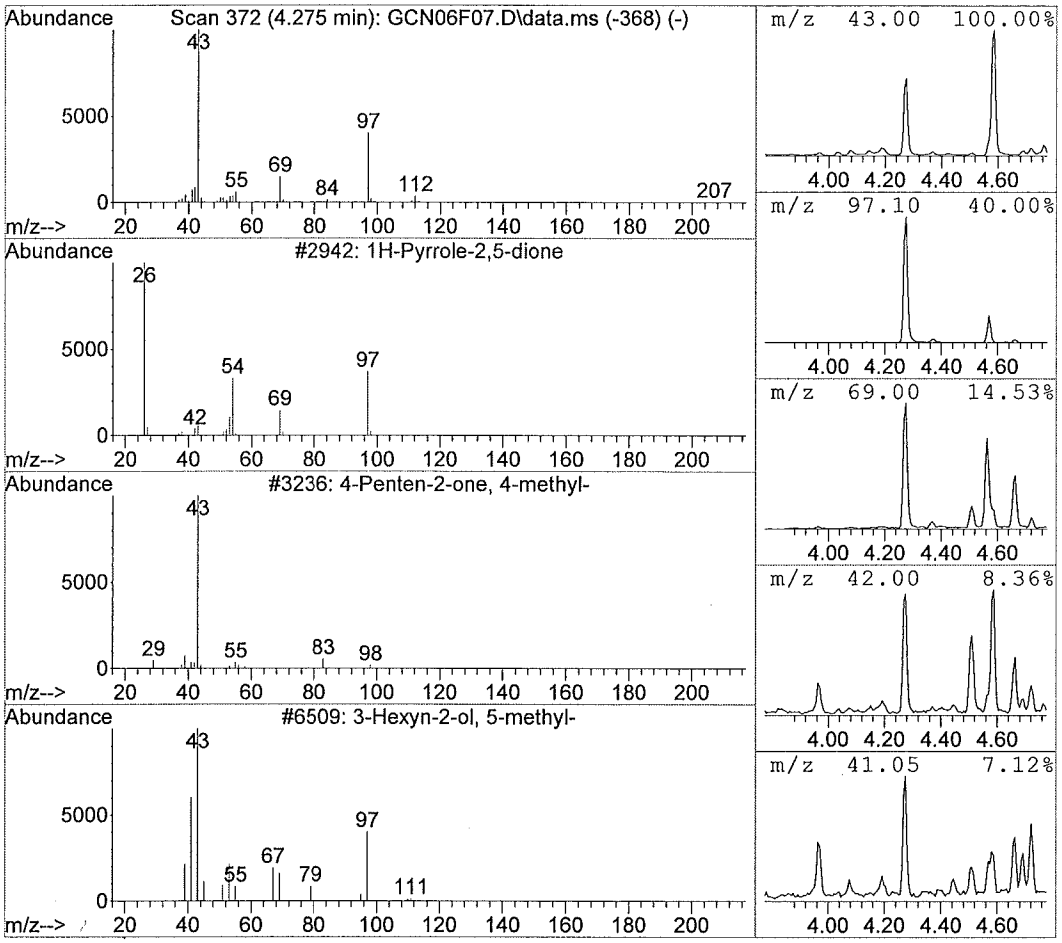
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.27	4.29 ug/ml	497338	1,4-Dichlorobenzene-d4	2319507

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	40.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	3-Hexyn-2-ol, 5-methyl-	6509	023293-50-7	9.00
4	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
5	5-Hexen-2-one	3152	000109-49-9	9.00



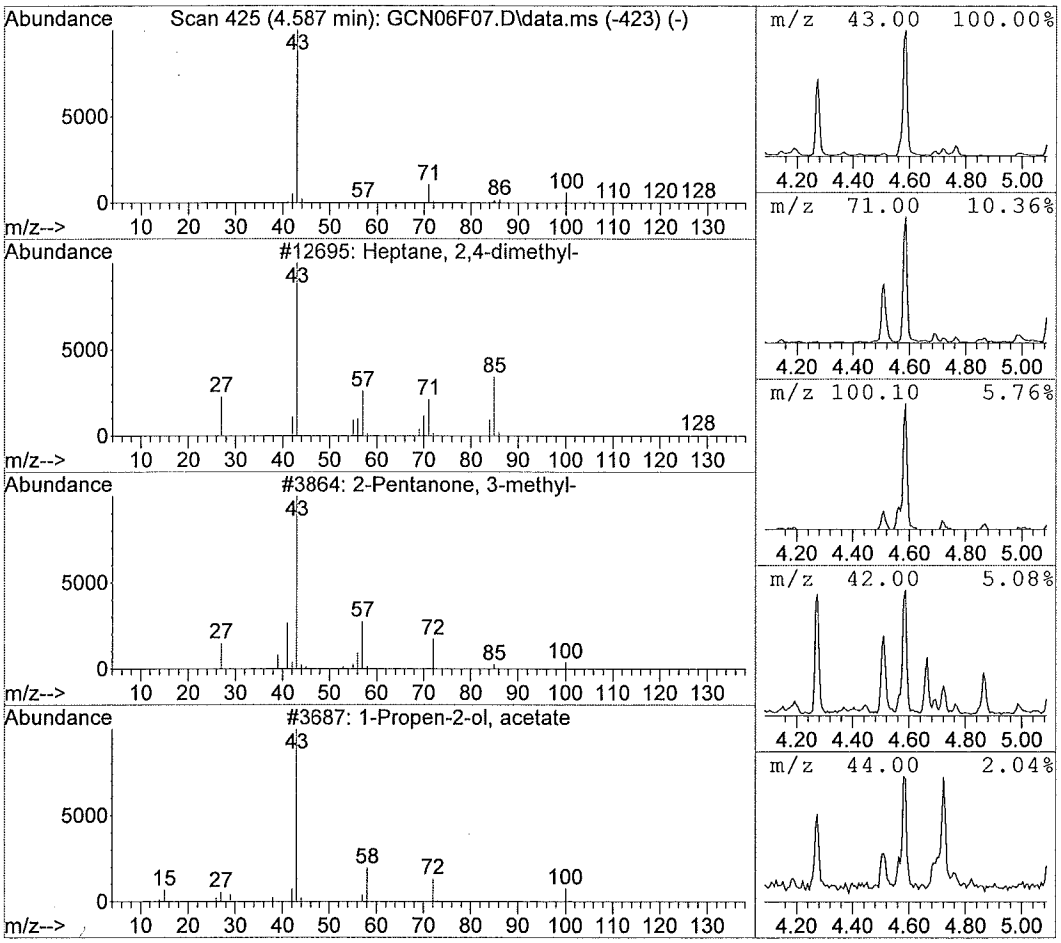
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.59	3.94 ug/ml	456606	1,4-Dichlorobenzene-d4	2319507

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl- B.A.	12695	002213-23-2	7.00
2	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
3	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
4	Heptane	3971	000142-82-5	5.00
5	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00



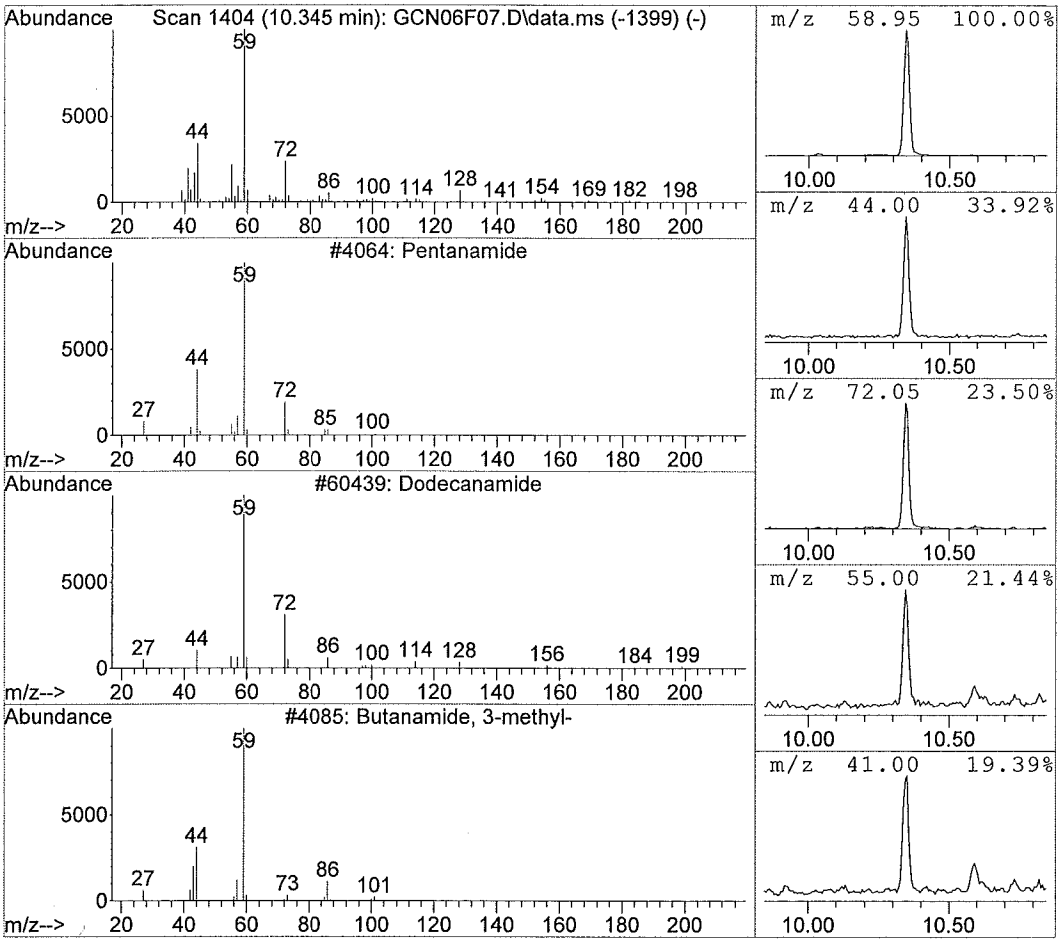
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.35	3.10 ug/ml	523483	Phenanthrene-d10	3381128

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanamide	4064	000626-97-1	86.00
2	Dodecanamide	60439	001120-16-7	78.00
3	Butanamide, 3-methyl-	4085	000541-46-8	64.00
4	Hexanamide	7791	000628-02-4	56.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	50.00



: 00151

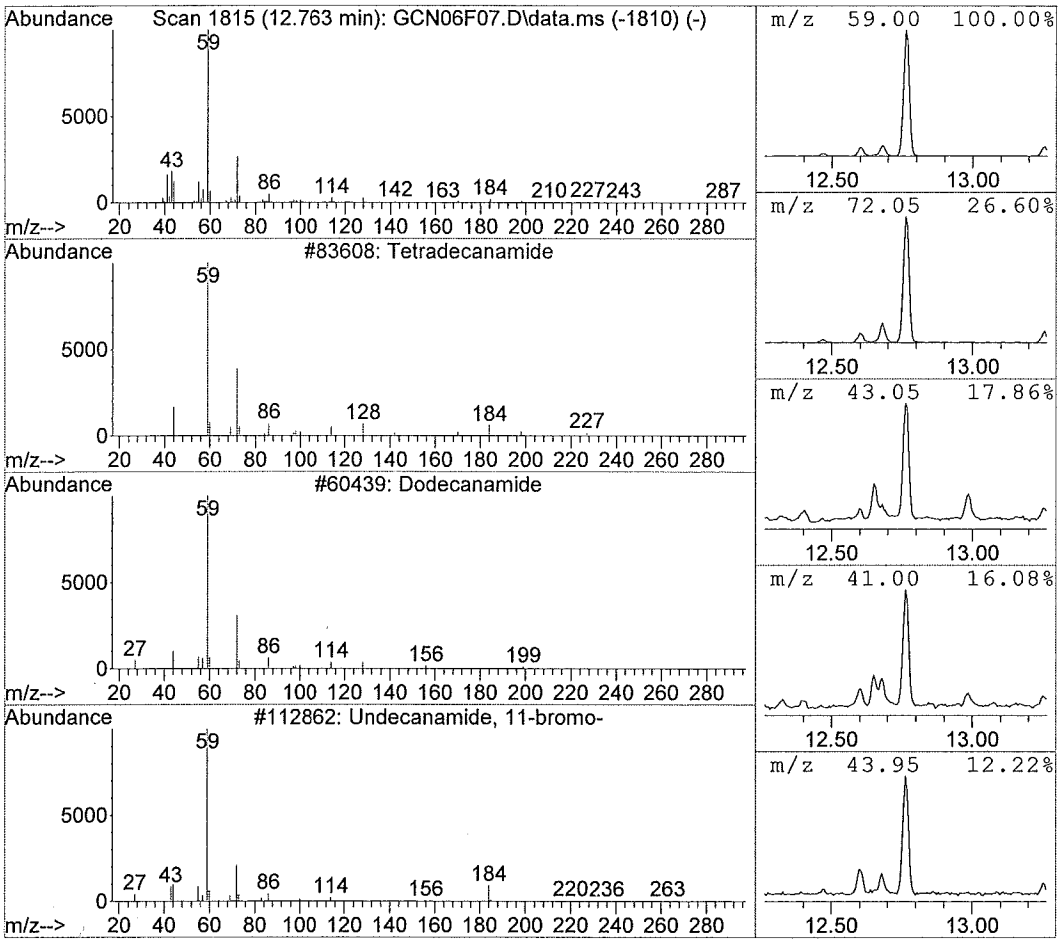
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.76	5.64 ug/ml	953744	Phenanthrene-d10	3381128

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	93.00
2	Dodecanamide	60439	001120-16-7	90.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
4	Nonanamide	29478	001120-07-6	74.00
5	Decanamide-	38977	002319-29-1	74.00



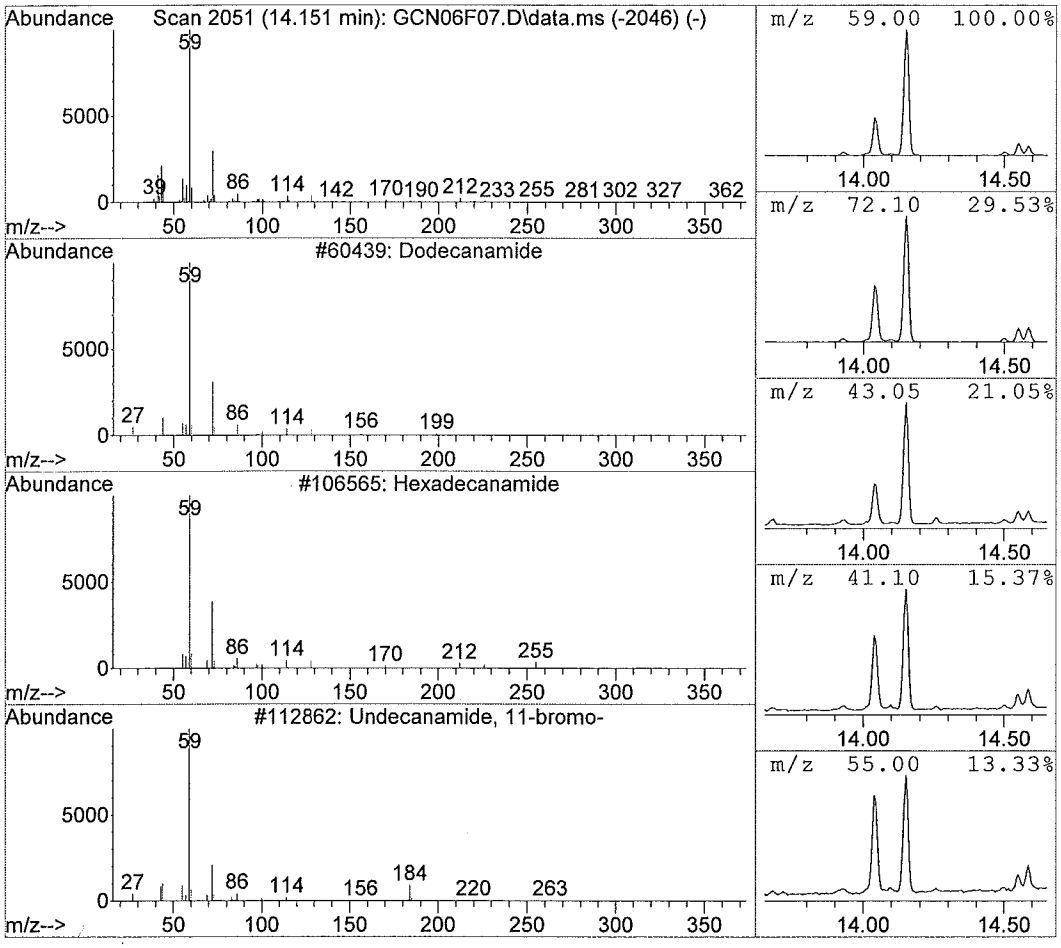
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	16.07 ug/ml	3215180	Chrysene-d12	4001313

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Hexadecanamide	106565	000629-54-9	87.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	87.00
4	Tetradecanamide	83609	000638-58-4	78.00
5	Nonanamide	29478	001120-07-6	78.00



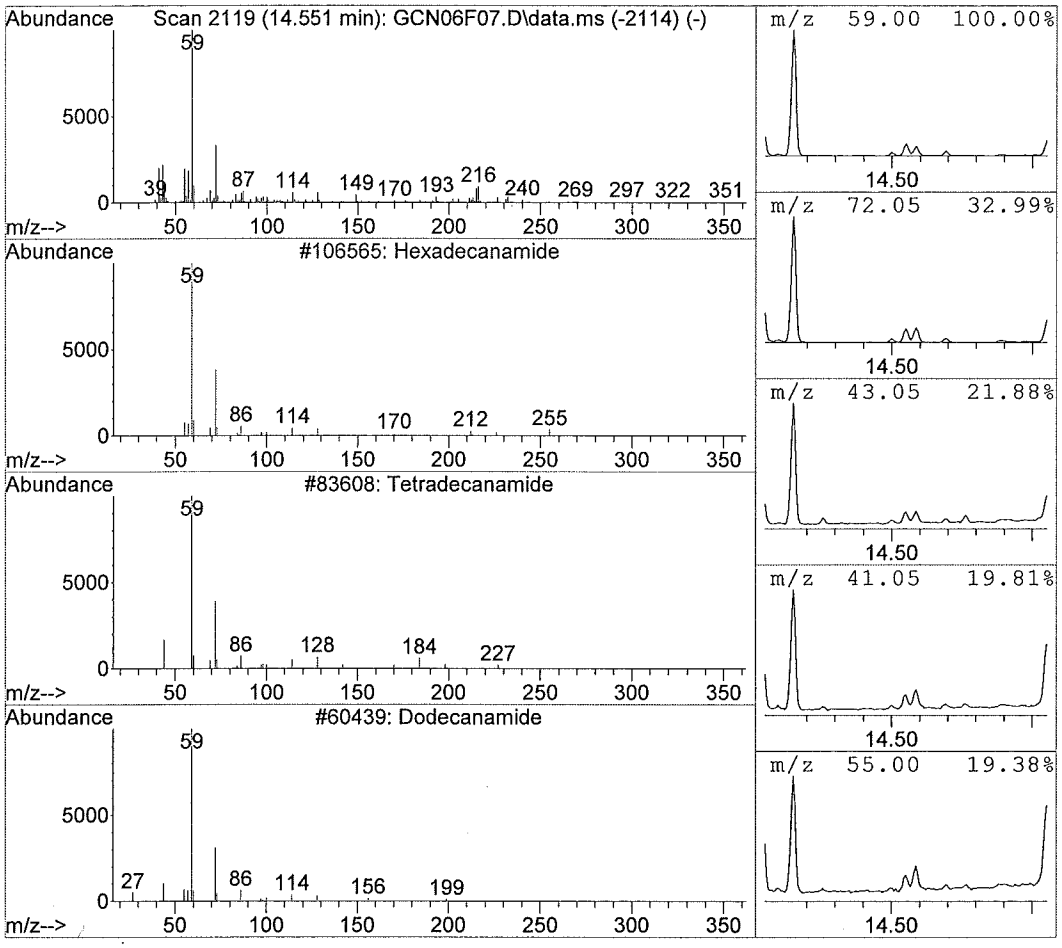
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.55	2.64 ug/ml	527757	Chrysene-d12	4001313

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	72.00
2	Tetradecanamide	83608	000638-58-4	64.00
3	Dodecanamide	60439	001120-16-7	64.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	50.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	50.00



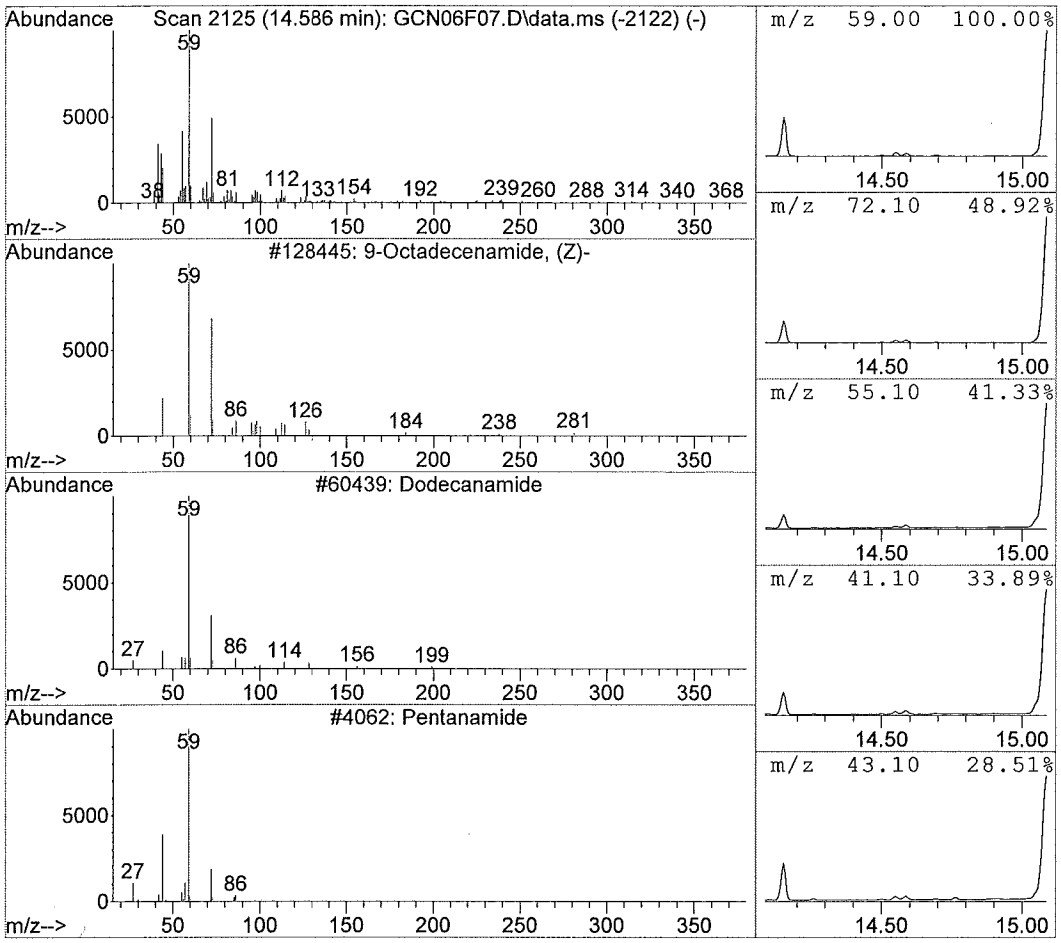
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.59	2.12 ug/ml	424982	Chrysene-d12	4001313

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	83.00
2	Dodecanamide	60439	001120-16-7	53.00
3	Pentanamide	4062	000626-97-1	50.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	50.00
5	Hexadecanamide	106564	000629-54-9	45.00



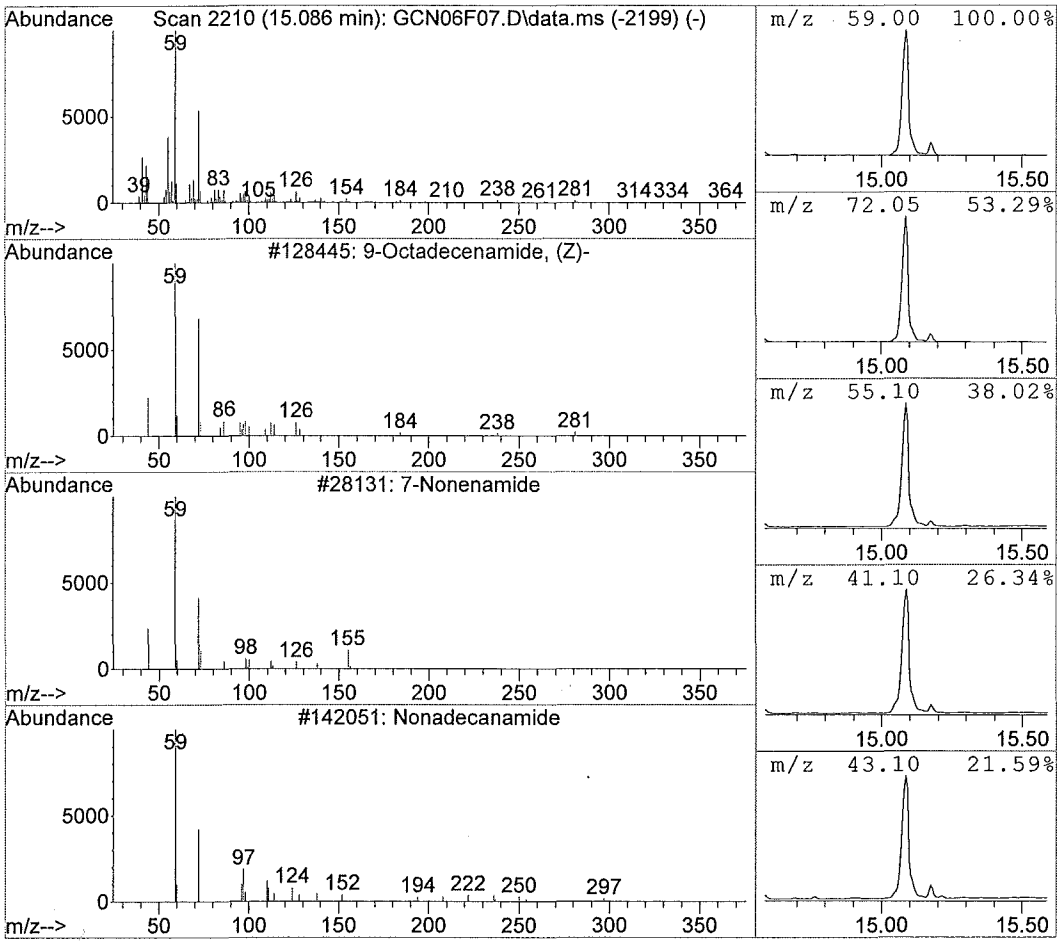
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.09	131.83 ug/ml	26375105	Chrysene-d12	4001313

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	96.00
2	7-Nonenamide	28131	090949-53-4	72.00
3	Nonadecanamide	142051	058185-32-3	72.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	59.00
5	Decanamide-	38977	002319-29-1	56.00



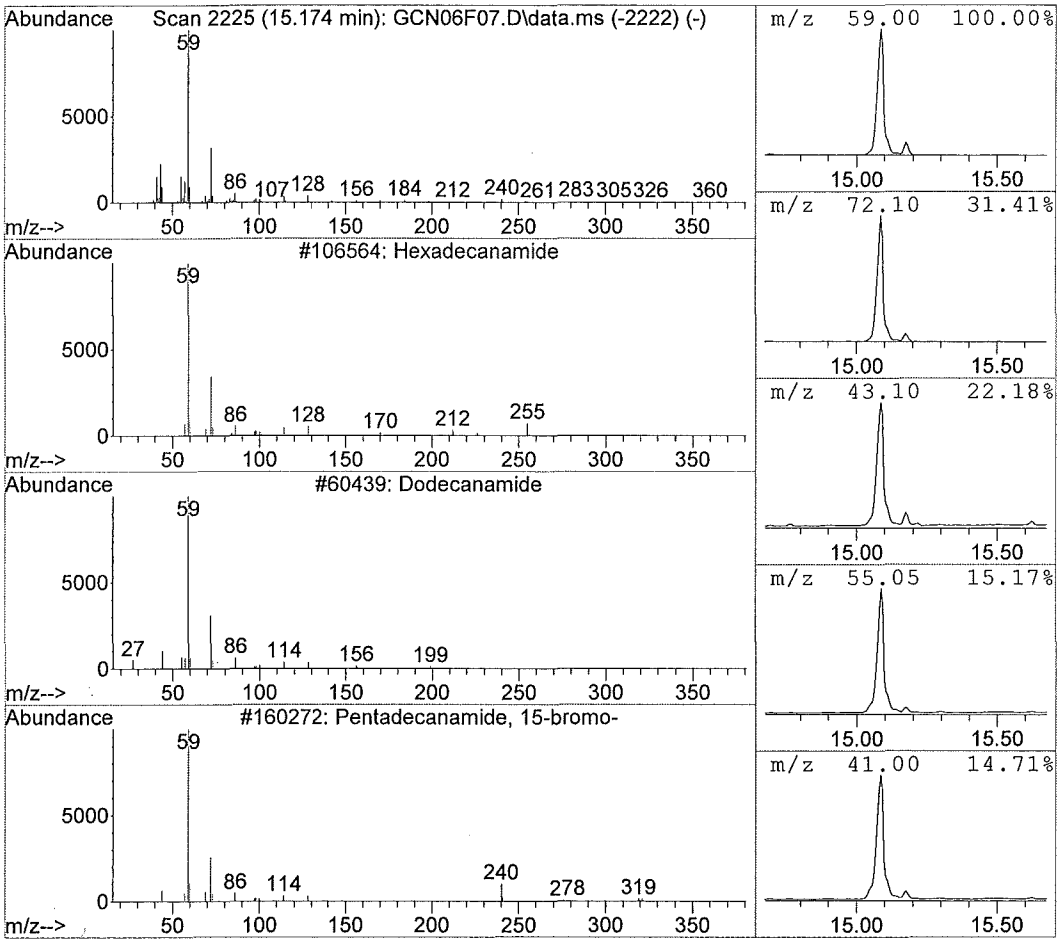
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	4.92 ug/ml	983877	Chrysene-d12	4001313

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	87.00
2	Dodecanamide	60439	001120-16-7	83.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	83.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	64.00
5	Nonanamide	29478	001120-07-6	56.00



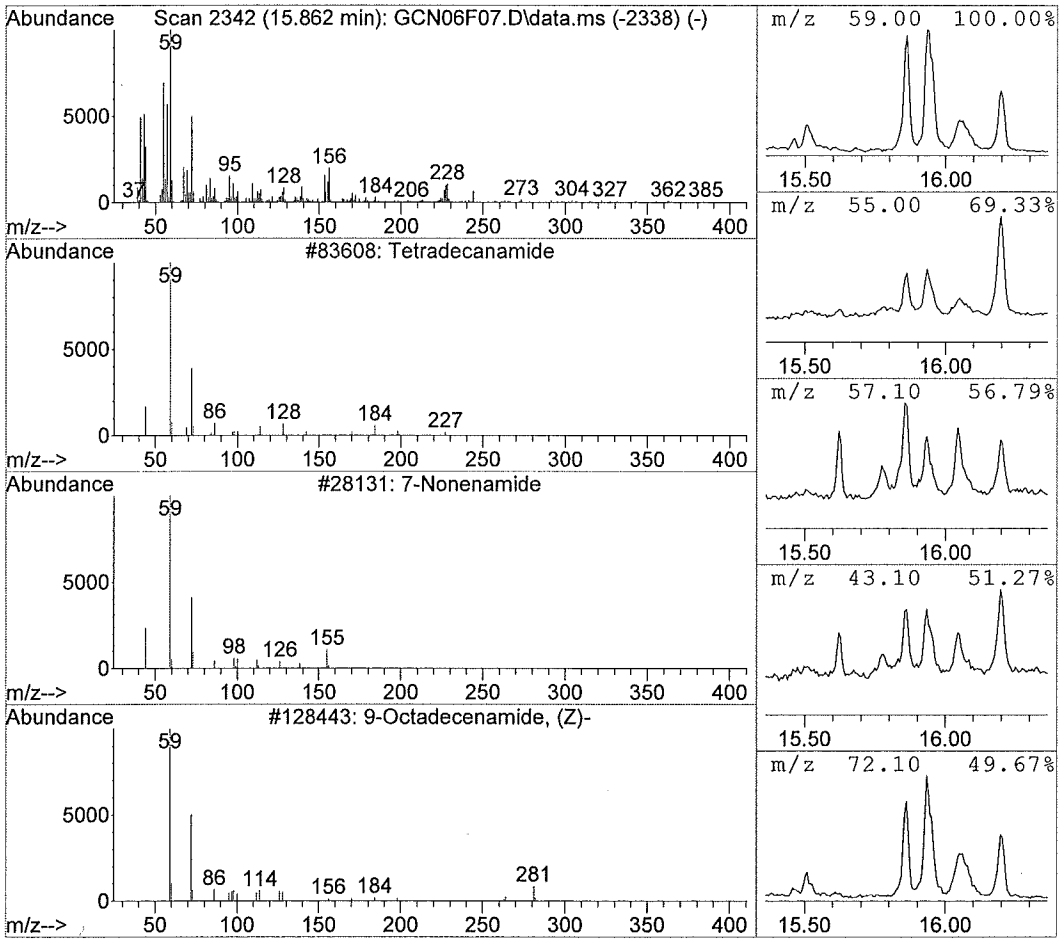
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.86	2.81 ug/ml	561234	Chrysene-d12	4001313

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	62.00
2	7-Nonenamide	28131	090949-53-4	52.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	52.00
4	Hexadecanamide	106564	000629-54-9	47.00
5	Dodecanamide	60440	001120-16-7	38.00



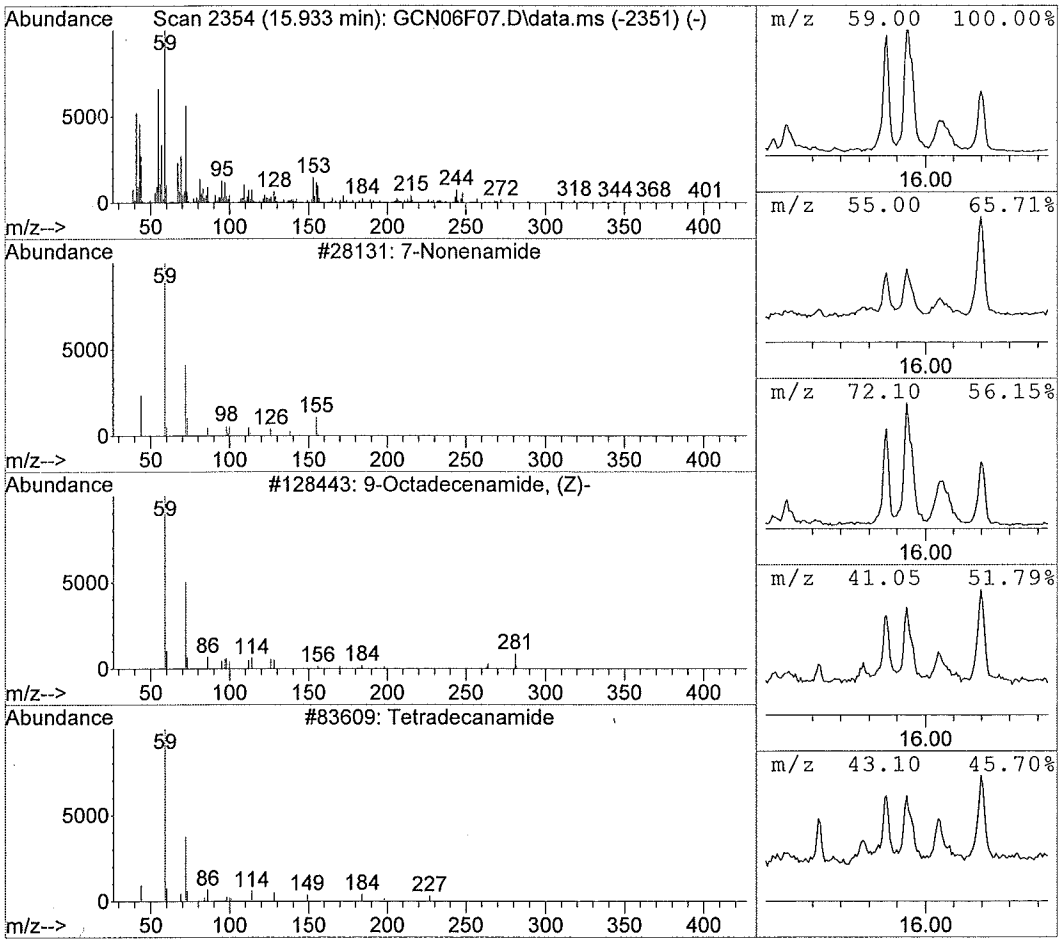
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.93	4.87 ug/ml	973705	Chrysene-d12	4001313

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	62.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	53.00
3	Tetradecanamide	83609	000638-58-4	53.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	43.00
5	Decanamide-	38977	002319-29-1	43.00



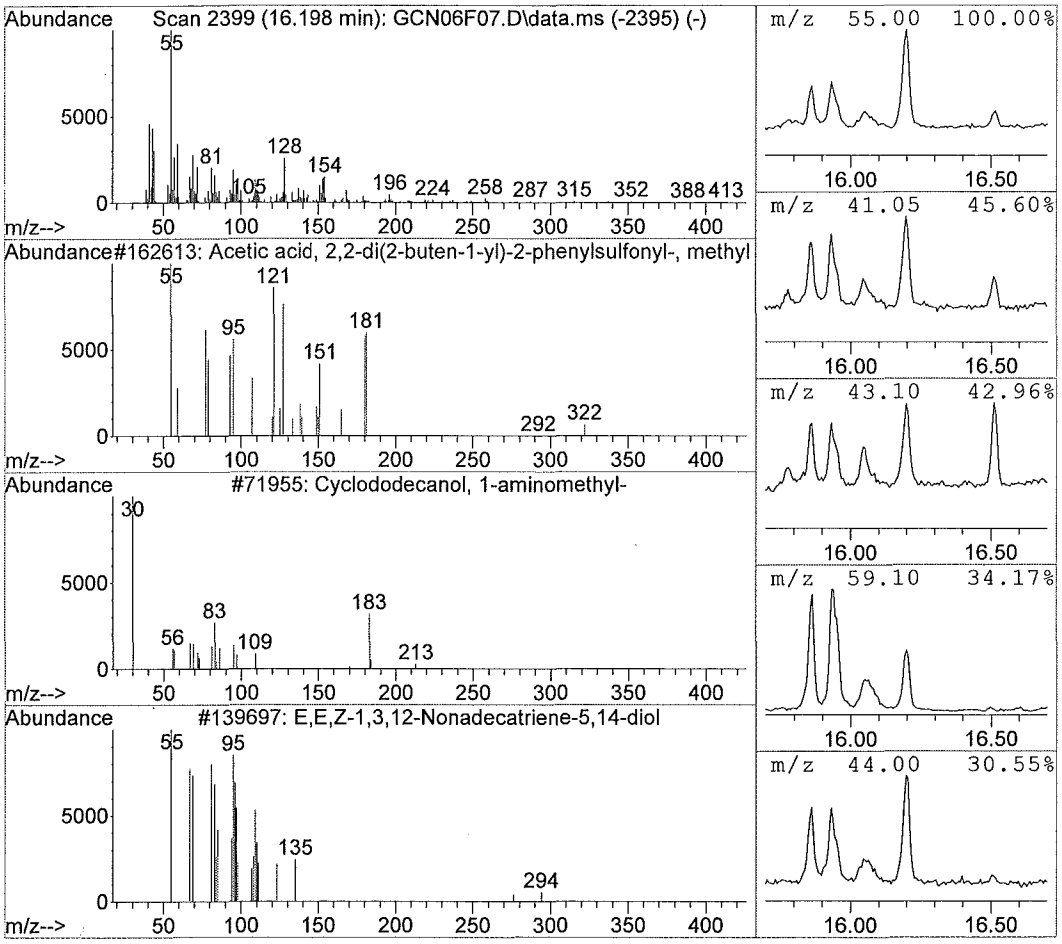
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	5.51 ug/ml	1102938	Chrysene-d12	4001313

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Acetic acid, 2,2-di(2-buten-1-yl)-2	162613	1000159-10-8	10.00
2	Cyclododecanol, 1-aminomethyl-	71955	000832-29-1	10.00
3	E,E,Z-1,3,12-Nonadecatriene-5,14-di	139697	1000131-11-4	10.00
4	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	10.00
5	2,2-Dimethylhex-4-enylamine	11896	133885-74-2	10.00



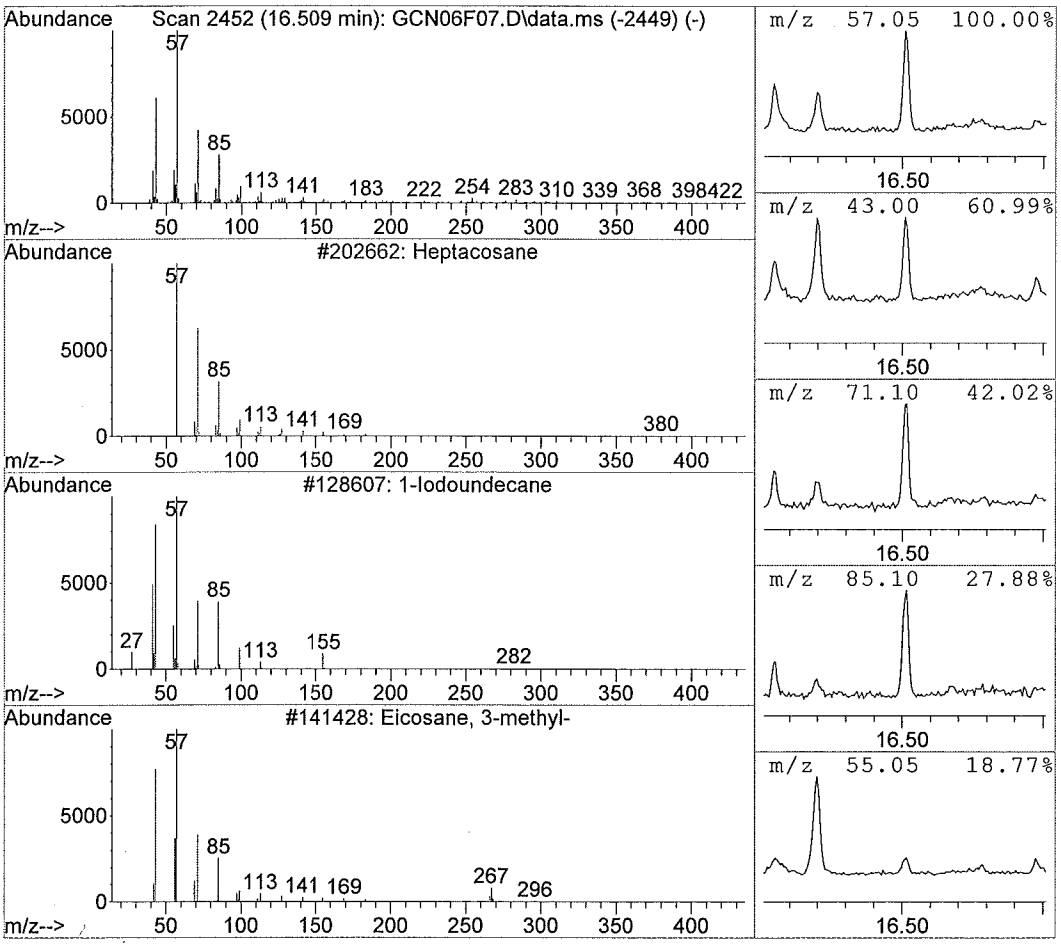
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.51	2.49 ug/ml	498253	Chrysene-d12	4001313

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	83.00
2	1-Iodoundecane	128607	004282-44-4	83.00
3	Eicosane, 3-methyl-	141428	006418-46-8	80.00
4	Nonadecane, 3-methyl-	129497	006418-45-7	80.00
5	Eicosane, 2-methyl-	141430	001560-84-5	72.00



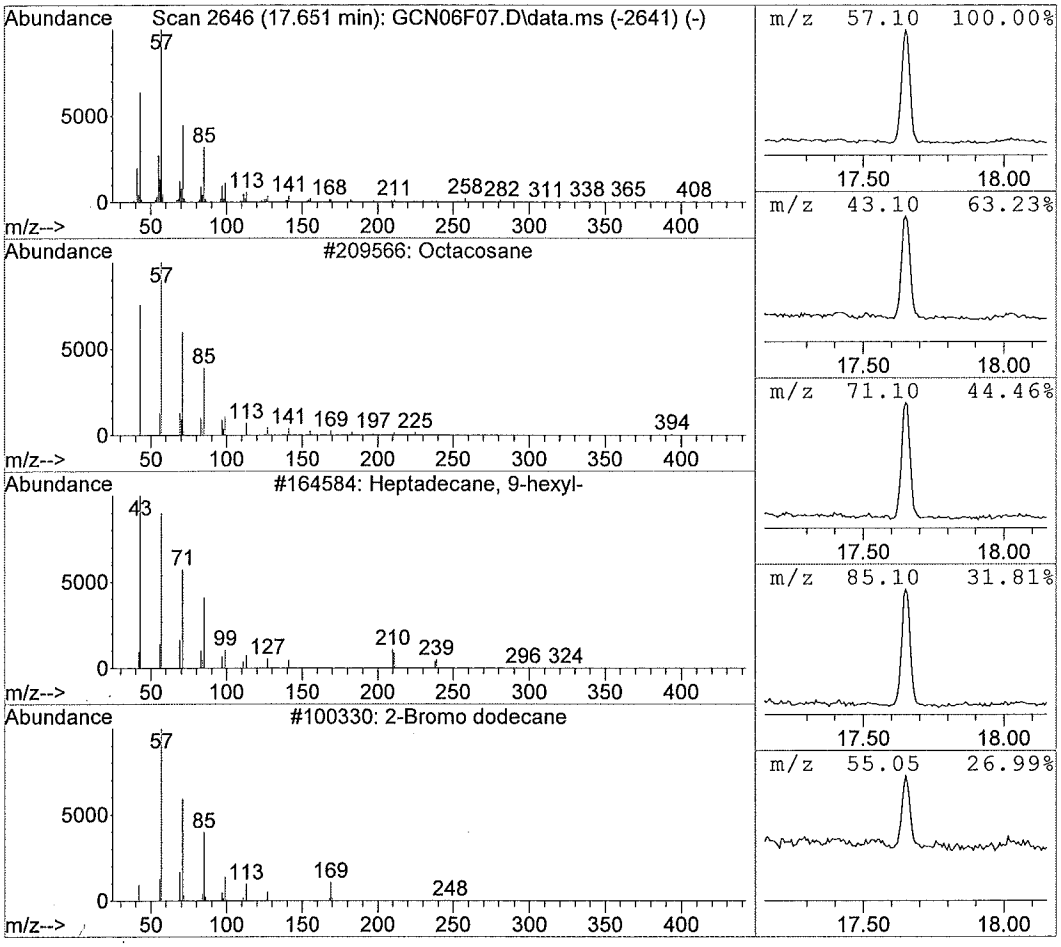
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.65	10.14 ug/ml	1081674	Perylene-d12	2133119

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosane	209566	000630-02-4	99.00
2	Heptadecane, 9-hexyl-	164584	055124-79-3	94.00
3	2-Bromo dodecane	100330	013187-99-0	87.00
4	Heneicosane, 11-decyl-	223853	055320-06-4	83.00
5	Tetradecane, 6,9-dimethyl-	83045	055045-13-1	83.00



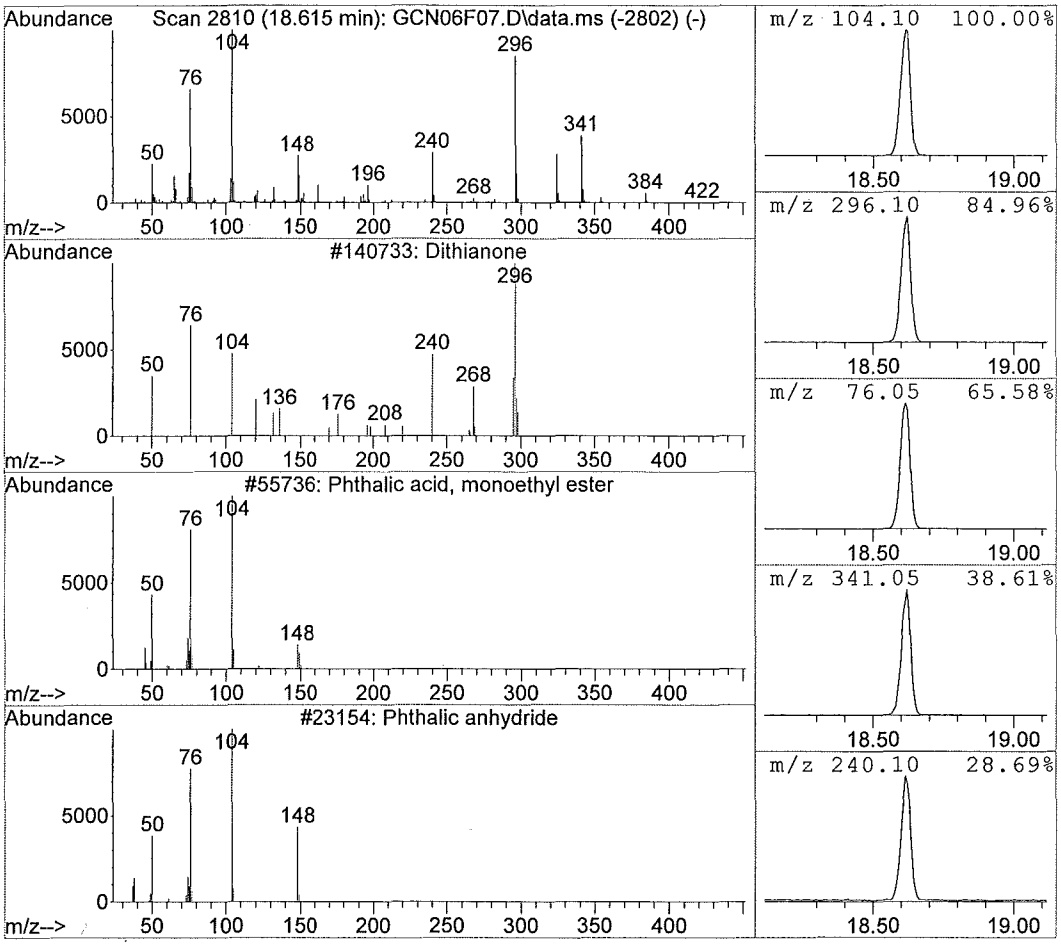
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN06F07.D Vial: 6
Acq On : 07/07/2015 17:26 Operator: TJM
Sample : 1515375007 F9M02 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.62	32.22 ug/ml	3436826	Perylene-d12	2133119

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dithianone	140733	003347-22-6	38.00
2	Phthalic acid, monoethyl ester	55736	002306-33-4	27.00
3	Phthalic anhydride	23154	000085-44-9	27.00
4	Benzo[c]thiophen-1(3H)-one, 3-(3-ox	140932	023667-32-5	22.00
5	1H-Isoindole-1,3(2H)-dione, 2-(2-pr	61856	004616-63-1	22.00



: 00163

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M03

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375008

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCN07F08

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015

GPC Cleanup: (Y/N) Y pH: 7.8 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	3900	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	3900	U
83-32-9	Acenaphthene	2000	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M03

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375008

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCN07F08

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	3900	U
100-02-7	4-Nitrophenol	3900	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	3900	U
534-52-1	4,6-Dinitro-2-methylphenol	3900	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	3900	U
85-01-8	Phenanthrene	690	J
120-12-7	Anthracene	2000	U
86-74-8	Carbazole	2000	U
84-74-2	Di-n-butylphthalate	2000	U
206-44-0	Fluoranthene	170	J
129-00-0	Pyrene	600	J
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)anthracene	370	J
218-01-9	Chrysene	710	J
117-81-7	Bis(2-ethylhexyl)phthalate	2000	U
117-84-0	Di-n-octylphthalate	2000	U
205-99-2	Benzo(b)fluoranthene	280	J
207-08-9	Benzo(k)fluoranthene	2000	U
50-32-8	Benzo(a)pyrene	250	J
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.

F9M03

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375008

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GCN07F08

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/07/2015

GPC Cleanup: (Y/N) Y pH: 7.8 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-	3.49	13000	JB
02		Unknown 1H-Pyrrole-2,5-dione	4.28	1000	J
03		Unknown Cyanic acid, butyl ester	5.48	890	J
04		Unknown Dodecanamide	10.35	1200	J
05	613-12-7	Anthracene, 2-methyl-	12.50	820	JN
06	1120-16-7	Dodecanamide	12.76	1600	JN
07	1120-16-7	Dodecanamide	14.15	5100	JN
08	301-02-0	9-Octadecenamide, (Z)-	15.08	32000	JNB
09	629-54-9	Hexadecanamide	15.17	1600	JNB
10	638-58-4	Tetradecanamide	15.86	1600	JN
11		Unknown 7-Nonenamide	15.93	2400	J
12		Unknown Cyclohexanecarboxamide	16.20	2800	J
13		Unknown Hexadecanamide	16.97	1200	J
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	2400	J

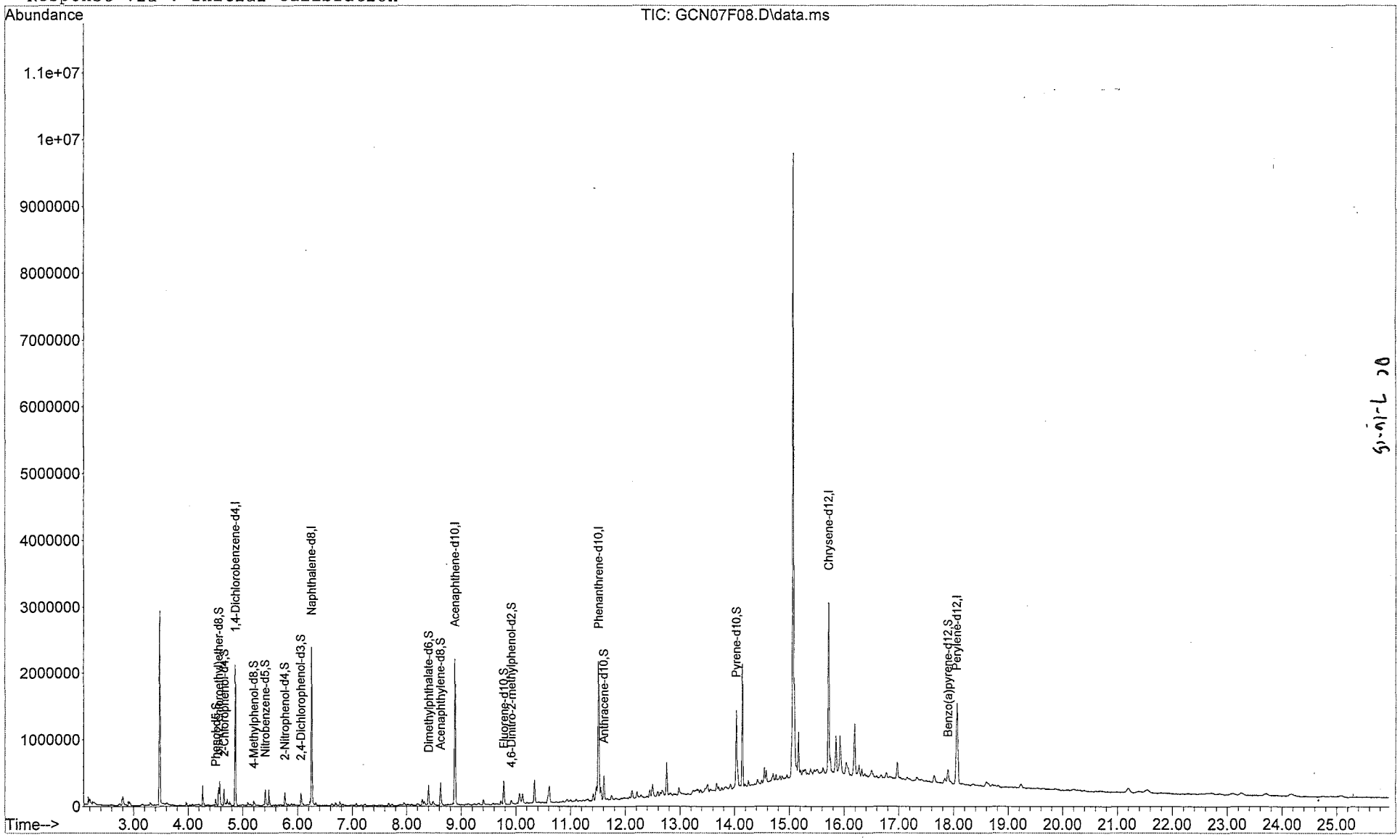
[2] EPA-designated Registry Number.

Quantitation Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 16 08:22:38 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration



Quantitation Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 08:22:38 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	300793	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1133692	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	680819	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1157806	20.00 ug/ml
73) Chrysene-d12	15.73	240	1137623	20.00 ug/ml
81) Perylene-d12	18.07	264	860178	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	31594	1.207ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	52074	2.553ug/mL
7) 2-Chlorophenol-d4	4.66	132	57083	2.583ug/ml
13) 4-Methylphenol-d8	5.20	113	16986	0.970ug/mL
17) Nitrobenzene-d5	5.42	128	27878	2.799ug/ml
21) 2-Nitrophenol-d4	5.77	143	29561	2.808ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	46101	2.812ug/mL
28) 4-Chloroaniline-d4	6.33	131	6491	0.363ug/mL
42) Dimethylphthalate-d6	8.41	166	146220	3.425ug/mL
45) Acenaphthylene-d8	8.63	160	192096	3.311ug/mL
50) 4-Nitrophenol-d4	9.12	143	220	0.025ug/mL
57) Fluorene-d10	9.79	176	130708	3.585ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	9645	1.174ug/mL
69) Anthracene-d10	11.62	188	210928	3.435ug/mL
75) Pyrene-d10	14.04	212	205380	3.618ug/mL
86) Benzo(a)pyrene-d12	17.90	264	141938	3.444ug/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)

: 00168

Quantitation Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 16 08:22:38 2015 Results File: GSOM01D6.RES

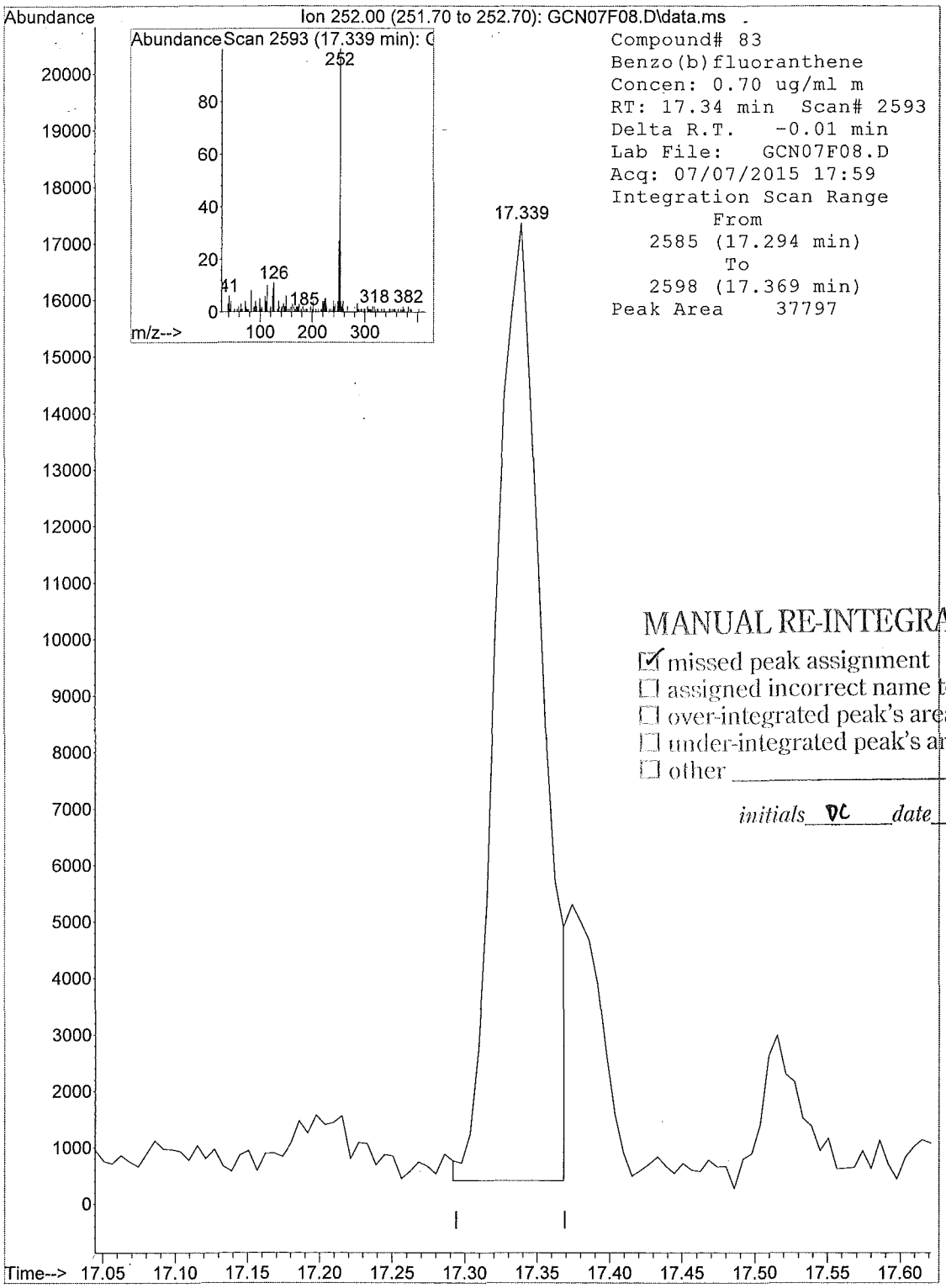
Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration

	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	11.56	178	106907	1.731ug/ml	100
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	13.71	202	28842	0.424ug/ml	93
74)	Pyrene	14.06	202	110255	1.523ug/ml	95
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.71	228	64783	0.939ug/ml	84
79)	Chrysene	15.76	228	111775	1.793ug/ml	92
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.34	252	37797	0.702ug/ml m	94
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	17.95	252	32338	0.638ug/ml m	89
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	

DC 7-16-15

(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(b)fluoranthene

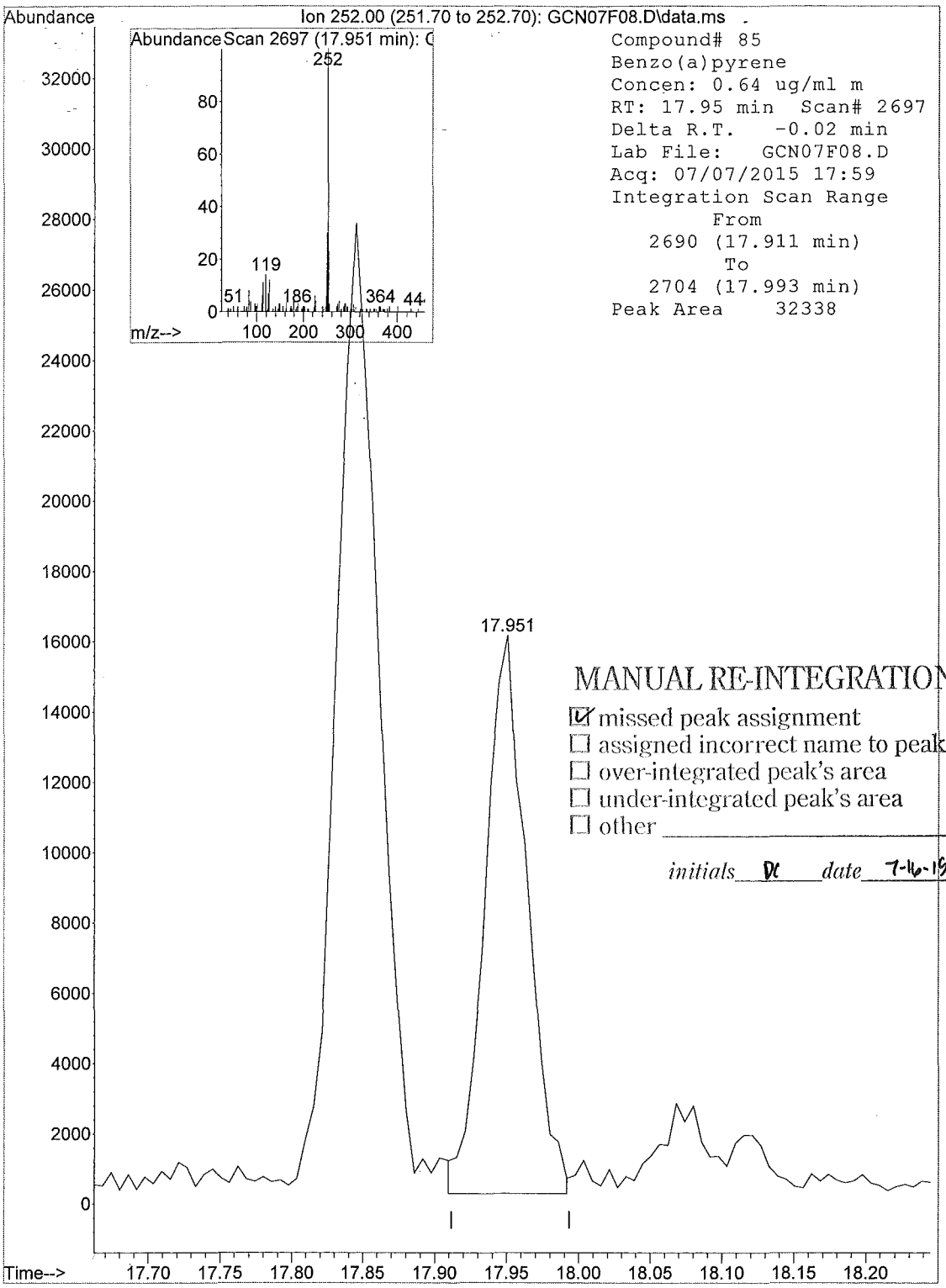


MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials DC *date* 7-16-15

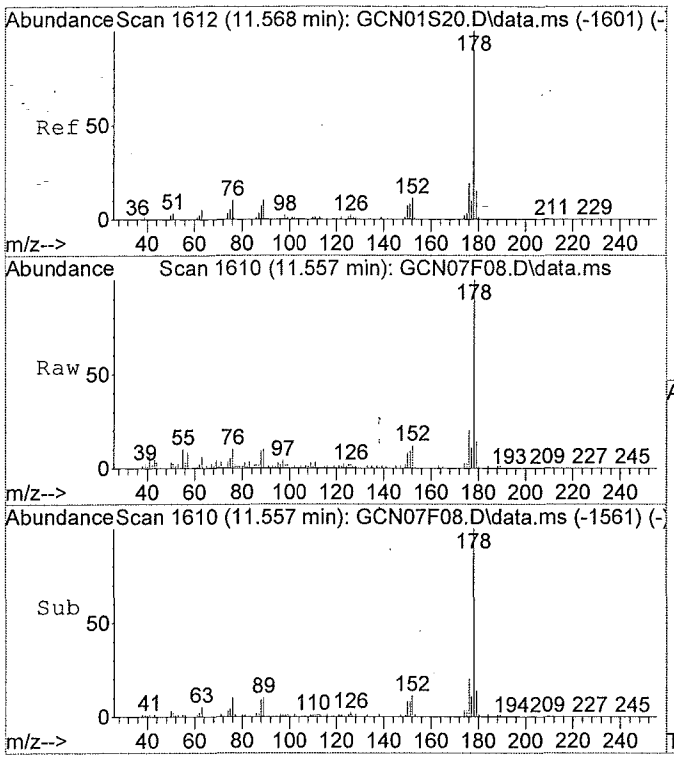
M A N U A L I N T E G R A T I O N FOR Benzo(a)pyrene



MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

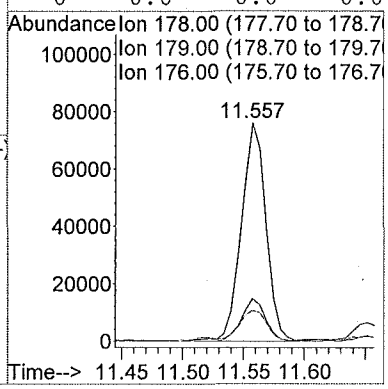
initials DC *date* 7-16-15

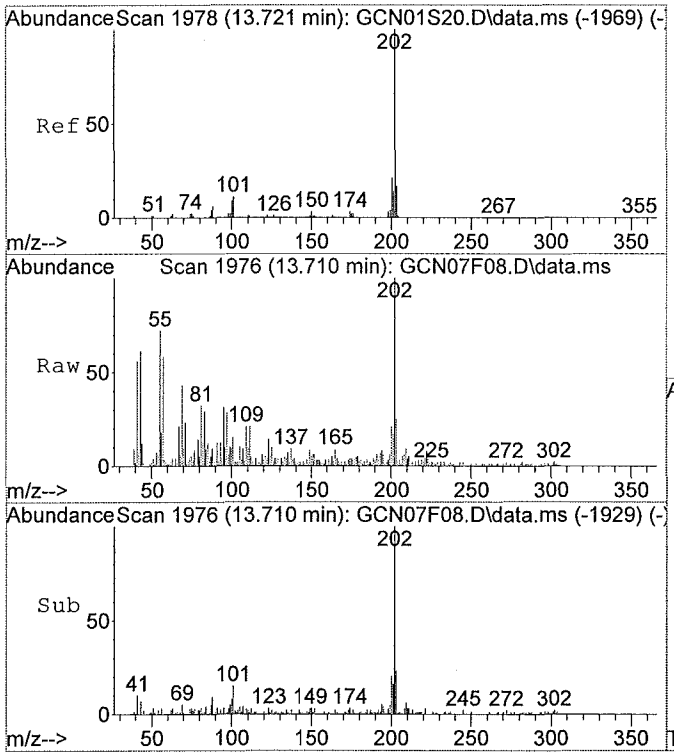


#67
Phenanthrene
Concen: 1.73 ug/ml
RT: 11.56 min Scan# 1610
Delta R.T. -0.01 min
Lab File: GCN07F08.D
Acq: 07/07/2015 17:59

Tgt Ion:178 Resp: 106907

Ion	Ratio	Lower	Upper
178	100		
179	15.1	10.6	19.8
176	19.0	13.2	24.4
0	0.0	0.0	0.0

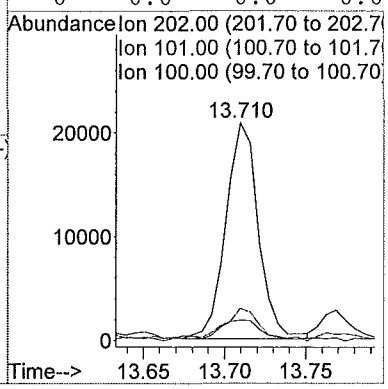


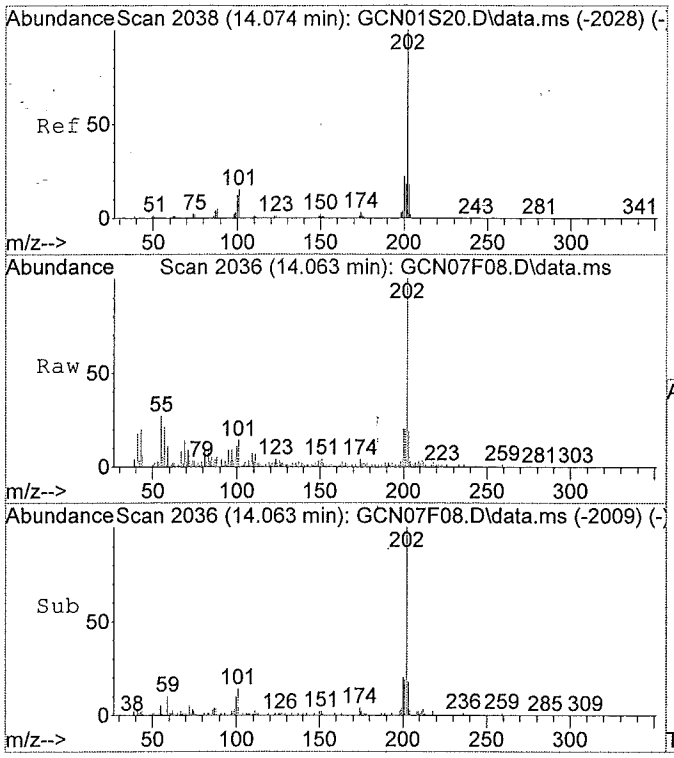


#72
Fluoranthene
Concen: 0.42 ug/ml
RT: 13.71 min Scan# 1976
Delta R.T. -0.01 min
Lab File: GCN07F08.D
Acq: 07/07/2015 17:59

Tgt Ion:202 Resp: 28842

Ion	Ratio	Lower	Upper
202	100		
101	17.6	10.5	19.5
100	13.7	7.4	13.8
0	0.0	0.0	0.0

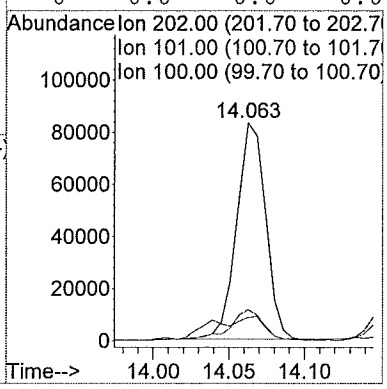


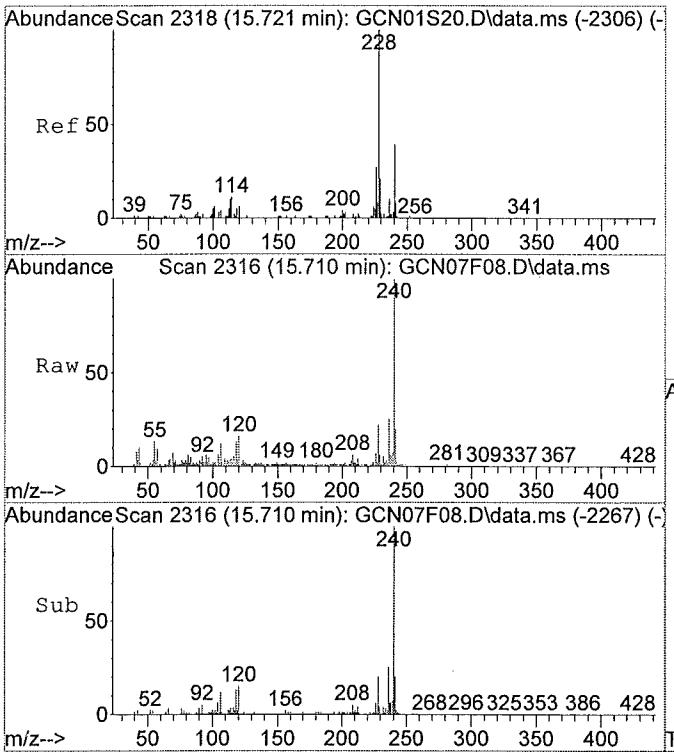


#74
Pyrene
Concen: 1.52 ug/ml
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: GCN07F08.D
Acq: 07/07/2015 17:59

Tgt Ion:202 Resp: 110255

Ion	Ratio	Lower	Upper
202	100		
101	18.2	12.2	22.7
100	10.8	10.1	18.7
0	0.0	0.0	0.0

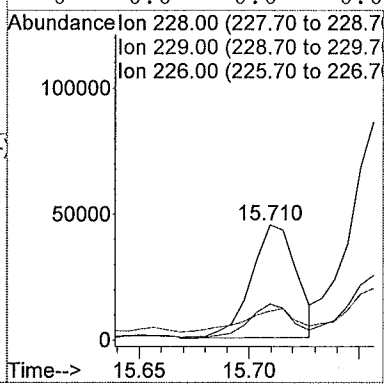


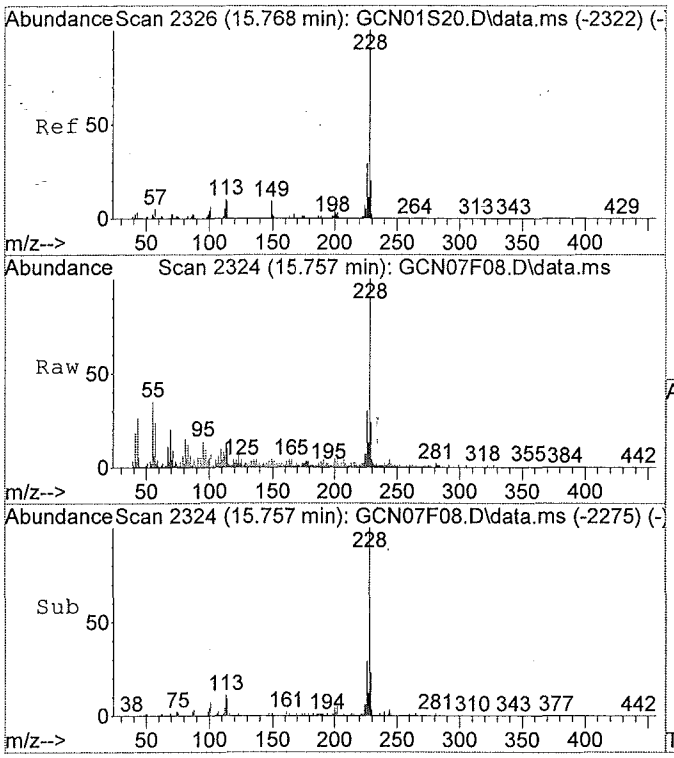


#78
Benzo(a)anthracene
Concen: 0.94 ug/ml
RT: 15.71 min Scan# 2316
Delta R.T. -0.01 min
Lab File: GCN07F08.D
Acq: 07/07/2015 17:59

Tgt Ion:228 Resp: 64783

Ion	Ratio	Lower	Upper
228	100		
229	33.0	13.7	25.5#
226	29.2	18.2	33.8
0	0.0	0.0	0.0

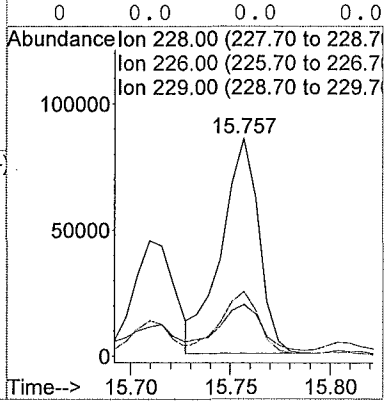


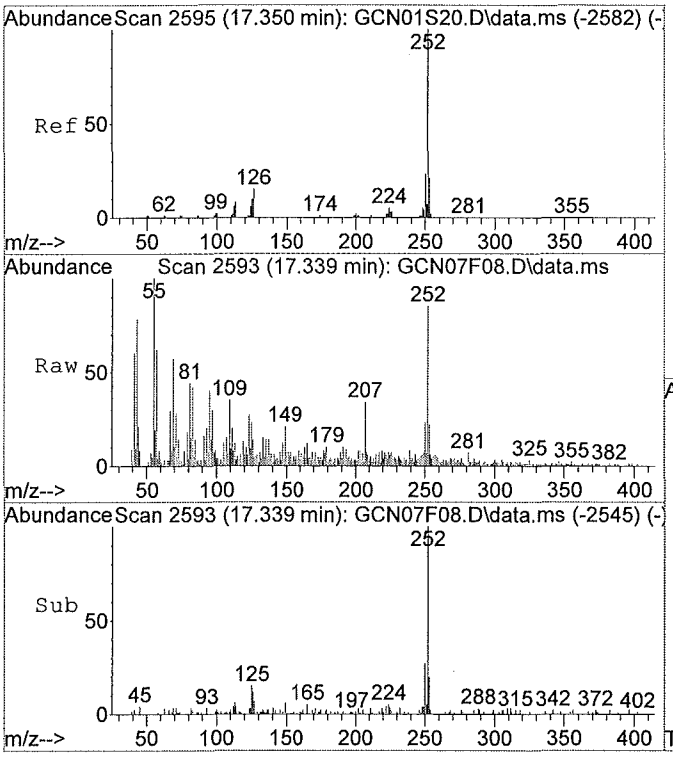


#79
Chrysene
Concen: 1.79 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCN07F08.D
Acq: 07/07/2015 17:59

Tgt Ion:228 Resp: 111775

Ion	Ratio	Lower	Upper
228	100		
226	30.3	20.1	37.3
229	27.0	13.7	25.5#
0	0.0	0.0	0.0

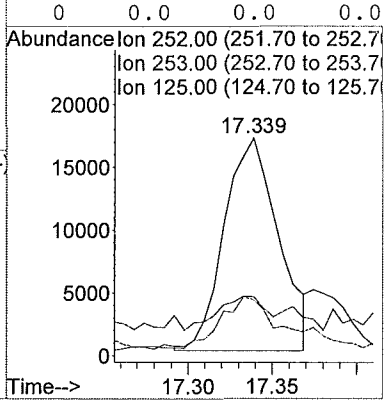


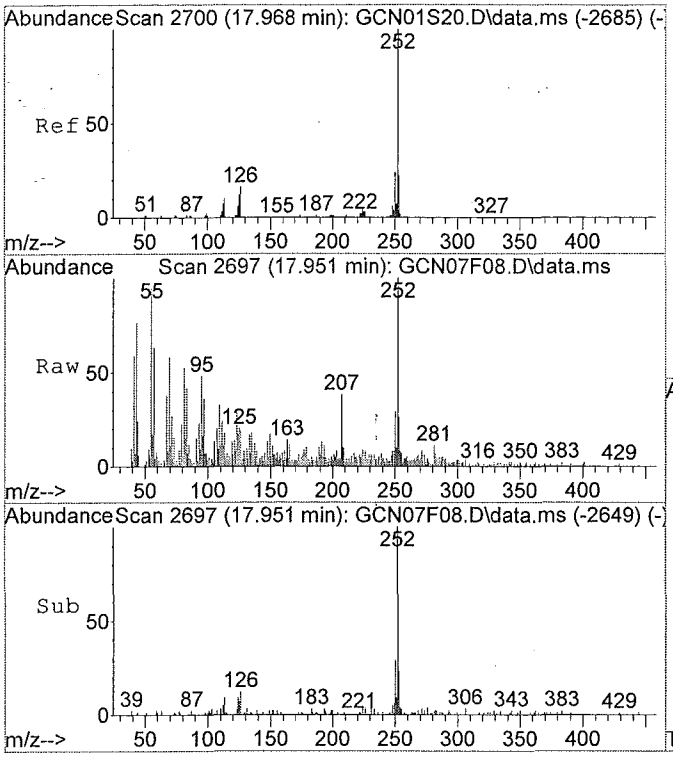


#83
Benzo(b)fluoranthene
Concen: 0.70 ug/ml m
RT: 17.34 min Scan# 2593
Delta R.T. -0.01 min
Lab File: GCN07F08.D
Acq: 07/07/2015 17:59

Tgt Ion:252 Resp: 37797

Ion	Ratio	Lower	Upper
252	100		
253	27.8	15.1	28.1
125	14.1	10.6	19.8
0	0.0	0.0	0.0

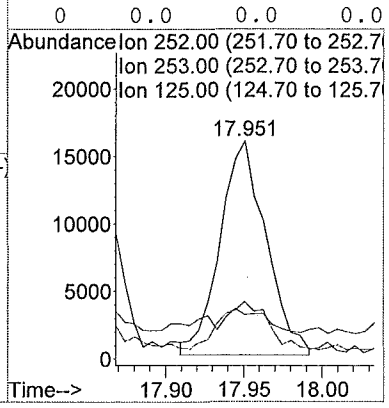




#85
Benzo(a)pyrene
Concen: 0.64 ug/ml m
RT: 17.95 min Scan# 2697
Delta R.T. -0.02 min
Lab File: GCN07F08.D
Acq: 07/07/2015 17:59

Tgt Ion:252 Resp: 32338

Ion	Ratio	Lower	Upper
252	100		
253	49.0	15.2	28.2#
125	35.9	11.8	21.8#
0	0.0	0.0	0.0



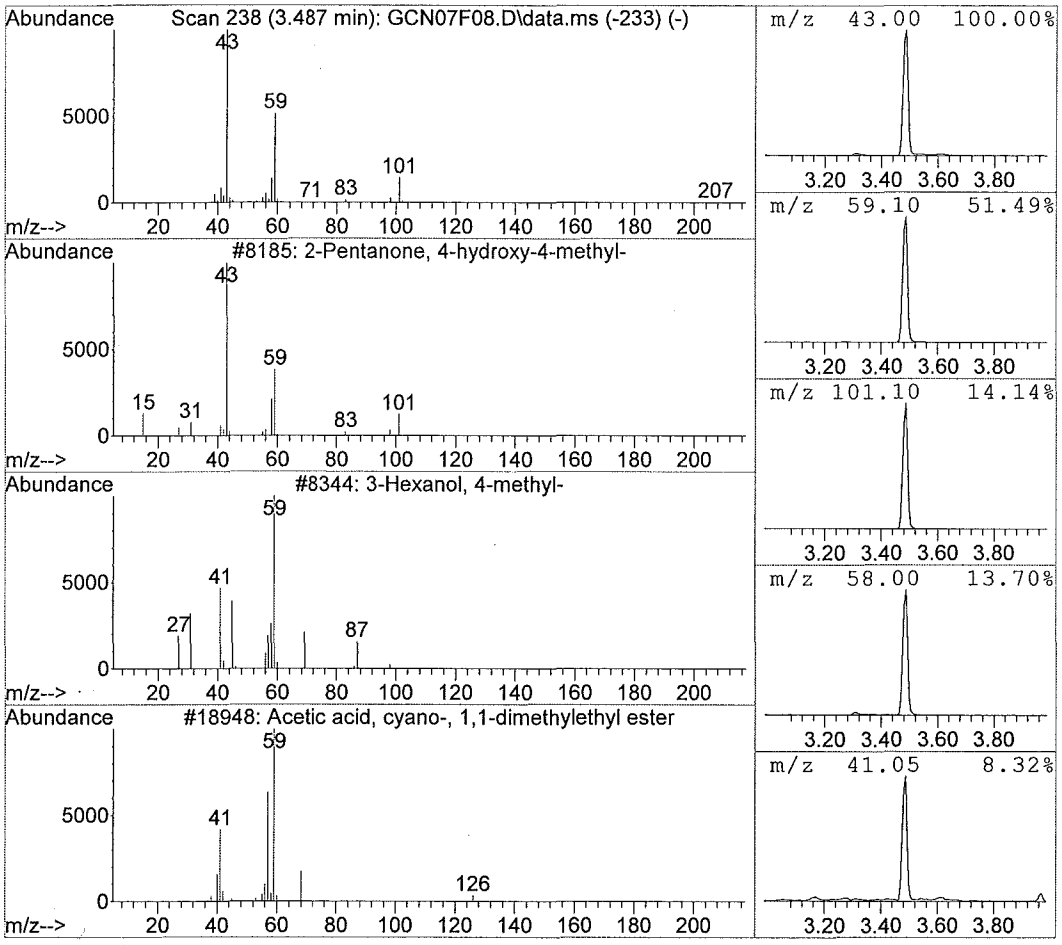
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.49	31.79 ug/ml	3417345	1,4-Dichlorobenzene-d4	2149751

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
4	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
5	1,2-Butanediol	2294	000584-03-2	9.00



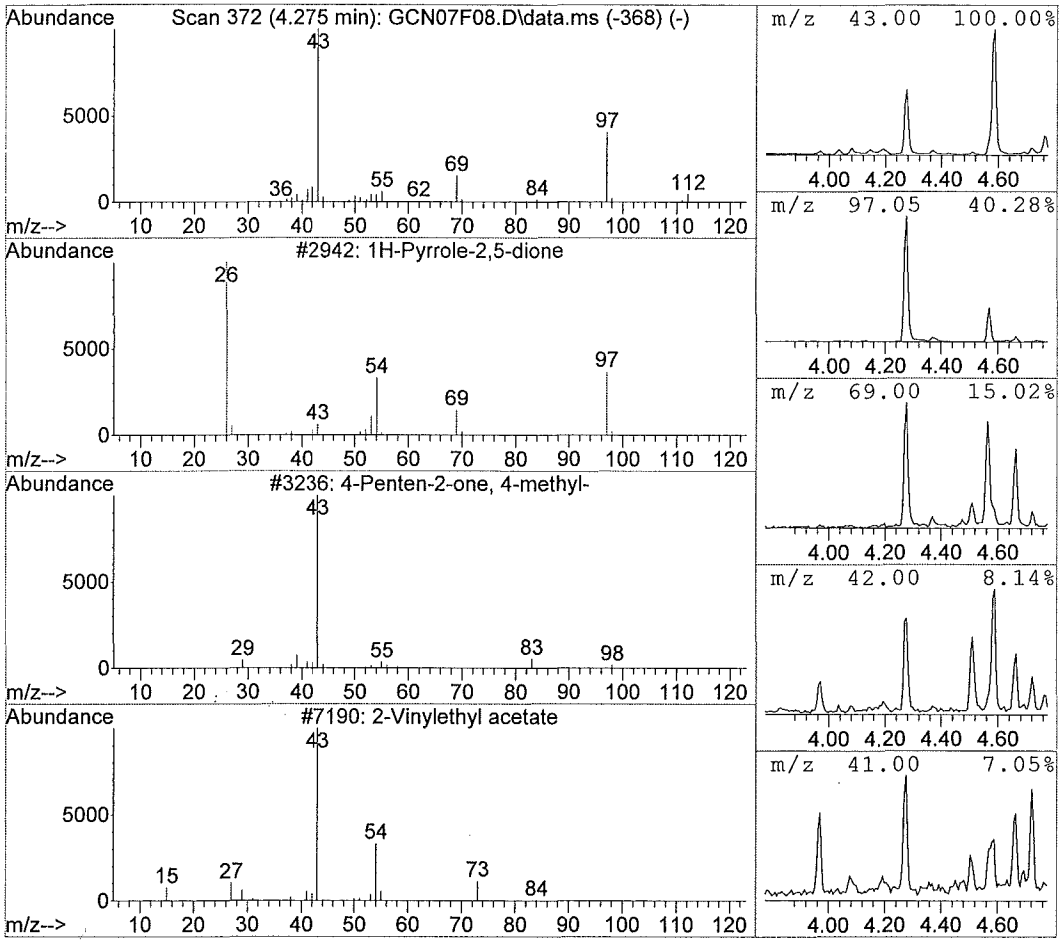
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.27	2.61 ug/ml	280162	1,4-Dichlorobenzene-d4	2149751

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	2-Vinylethyl acetate	7190	001576-84-7	9.00
4	5-Hexen-2-one	3158	000109-49-9	9.00
5	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00



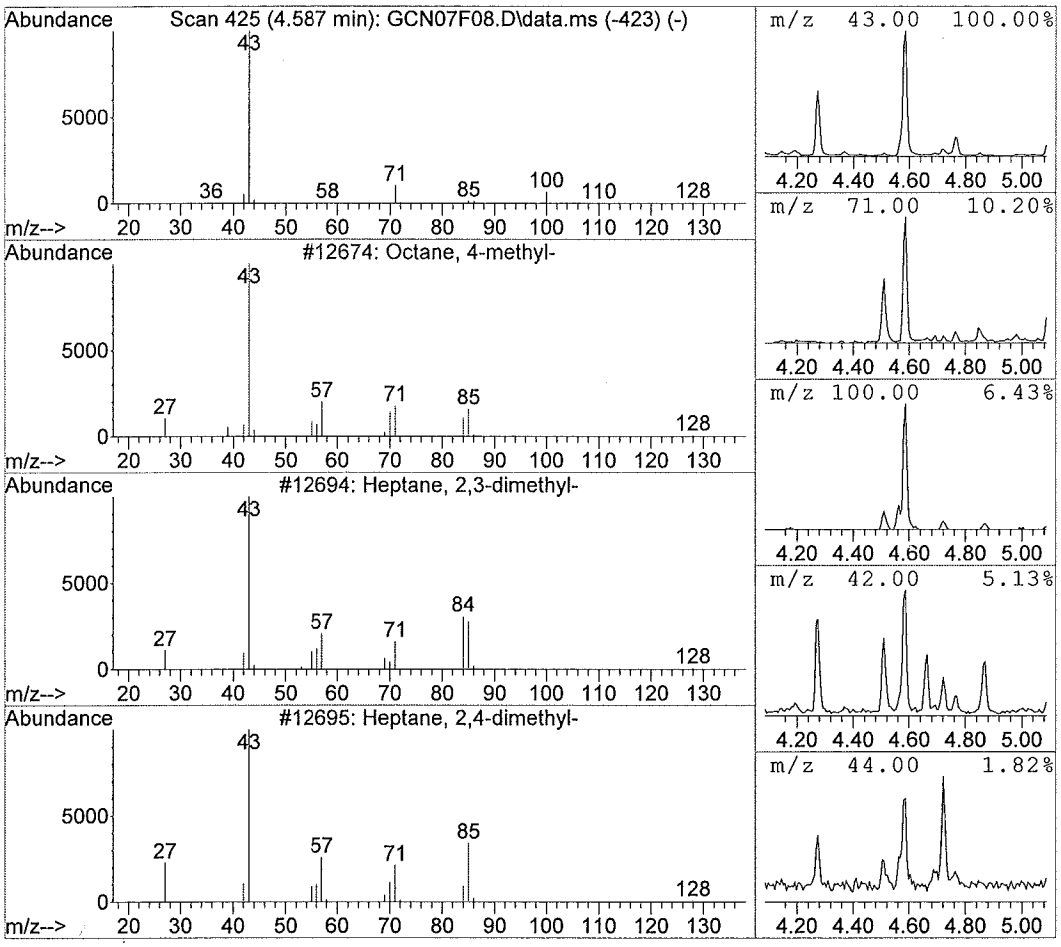
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.59	2.83 ug/ml	304436	1,4-Dichlorobenzene-d4	2149751

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 4-methyl- B.A.	12674	002216-34-4	9.00
2	Heptane, 2,3-dimethyl-	12694	003074-71-3	7.00
3	Heptane, 2,4-dimethyl-	12695	002213-23-2	7.00
4	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
5	2-Pentanone, 3-methyl-	3866	000565-61-7	5.00



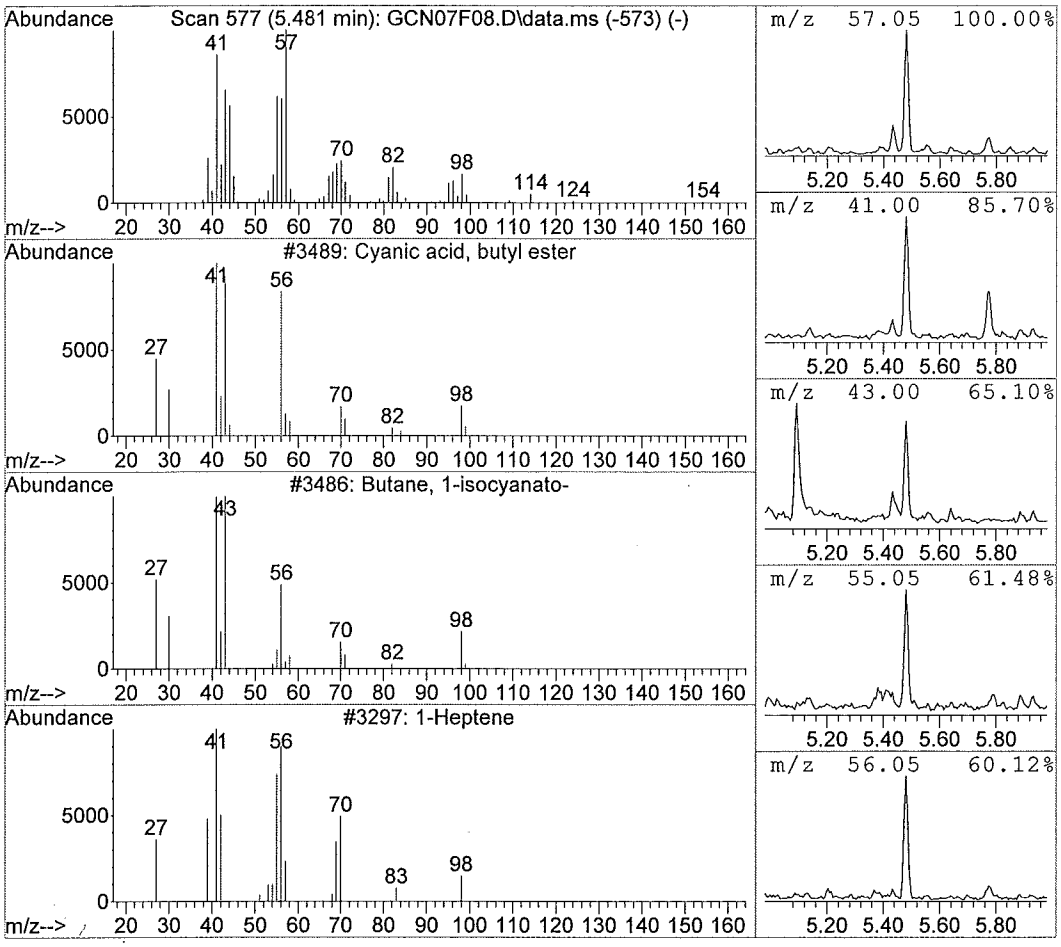
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.48	2.24 ug/ml	240506	1,4-Dichlorobenzene-d4	2149751

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyanic acid, butyl ester	3489	001768-24-7	38.00
2	Butane, 1-isocyanato-	3486	000111-36-4	35.00
3	1-Heptene	3297	000592-76-7	35.00
4	(Z)-Hex-2-ene, 5-methyl-	3356	013151-17-2	30.00
5	5-Methyl-2-hexene,c&t	3347	003404-62-4	27.00



00179

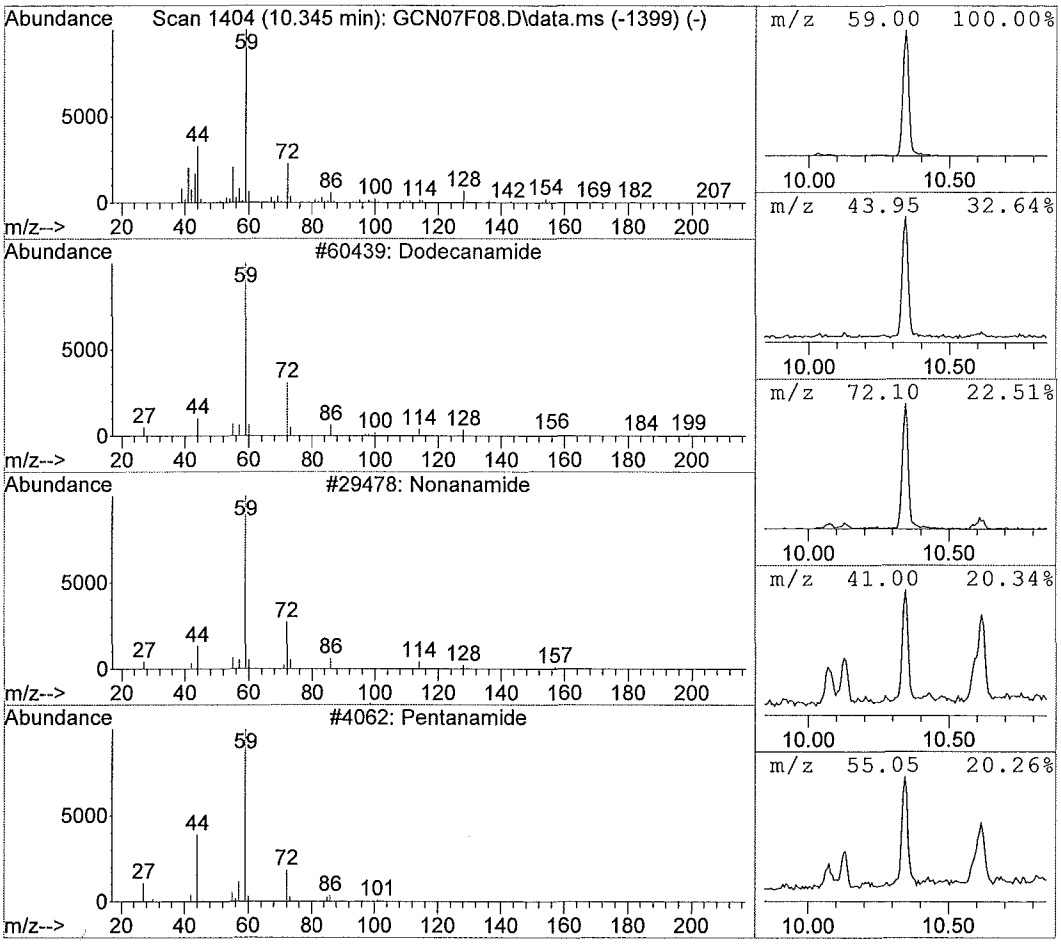
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.35	2.96 ug/ml	470045	Phenanthrene-d10	3171740

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	72.00
2	Nonanamide	29478	001120-07-6	72.00
3	Pentanamide	4062	000626-97-1	72.00
4	Hexanamide	7792	000628-02-4	72.00
5	Butanamide, 3-methyl-	4085	000541-46-8	59.00



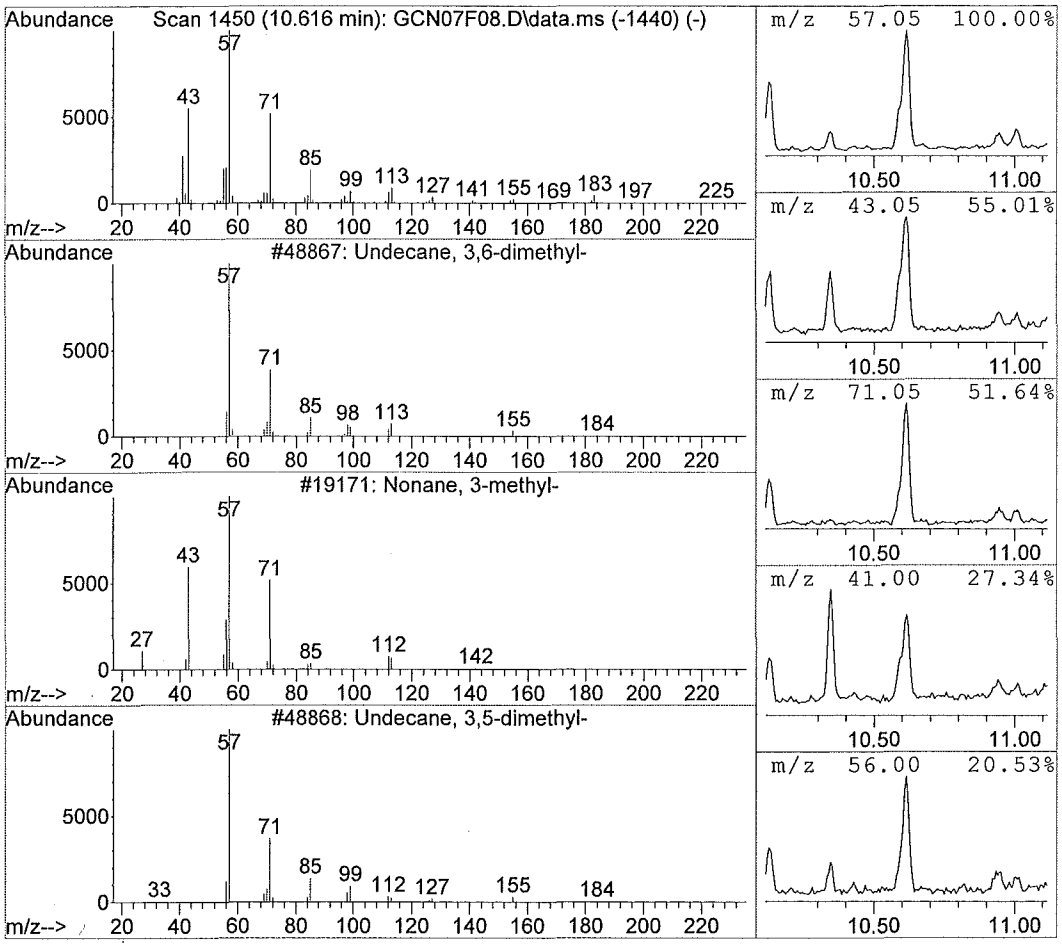
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.62	3.31 ug/ml	525582	Phenanthrene-d10	3171740

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 3,6-dimethyl- B.A.	48867	017301-28-9	83.00
2	Nonane, 3-methyl-	19171	005911-04-6	70.00
3	Undecane, 3,5-dimethyl-	48868	017312-81-1	64.00
4	Octane, 2,6-dimethyl-	19181	002051-30-1	64.00
5	Hexadecane, 2,6,10,14-tetramethyl-	129512	000638-36-8	64.00



: 00191

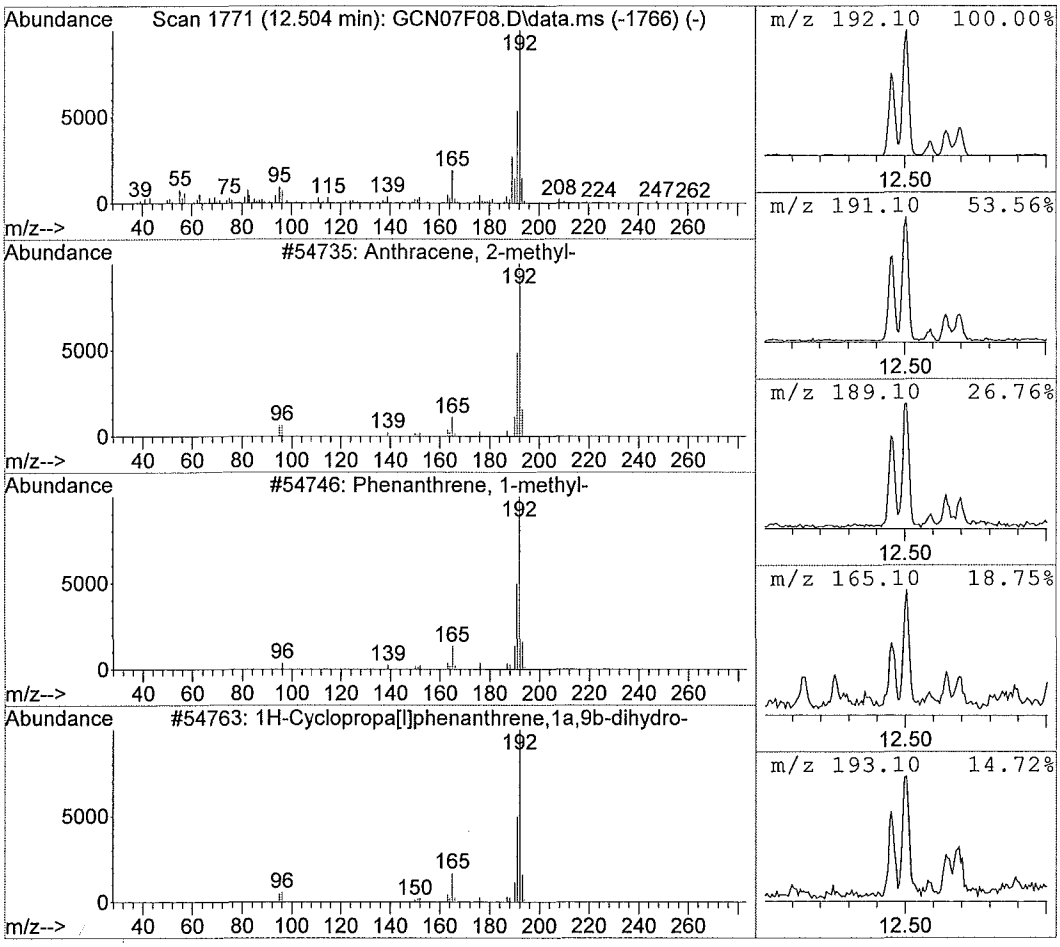
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.50	2.07 ug/ml	328005	Phenanthrene-d10	3171740

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Anthracene, 2-methyl-	54735	000613-12-7	96.00
2	Phenanthrene, 1-methyl-	54746	000832-69-9	96.00
3	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	96.00
4	1H-Indene, 2-phenyl-	54730	004505-48-0	95.00
5	Phenanthrene, 2-methyl-	54749	002531-84-2	94.00



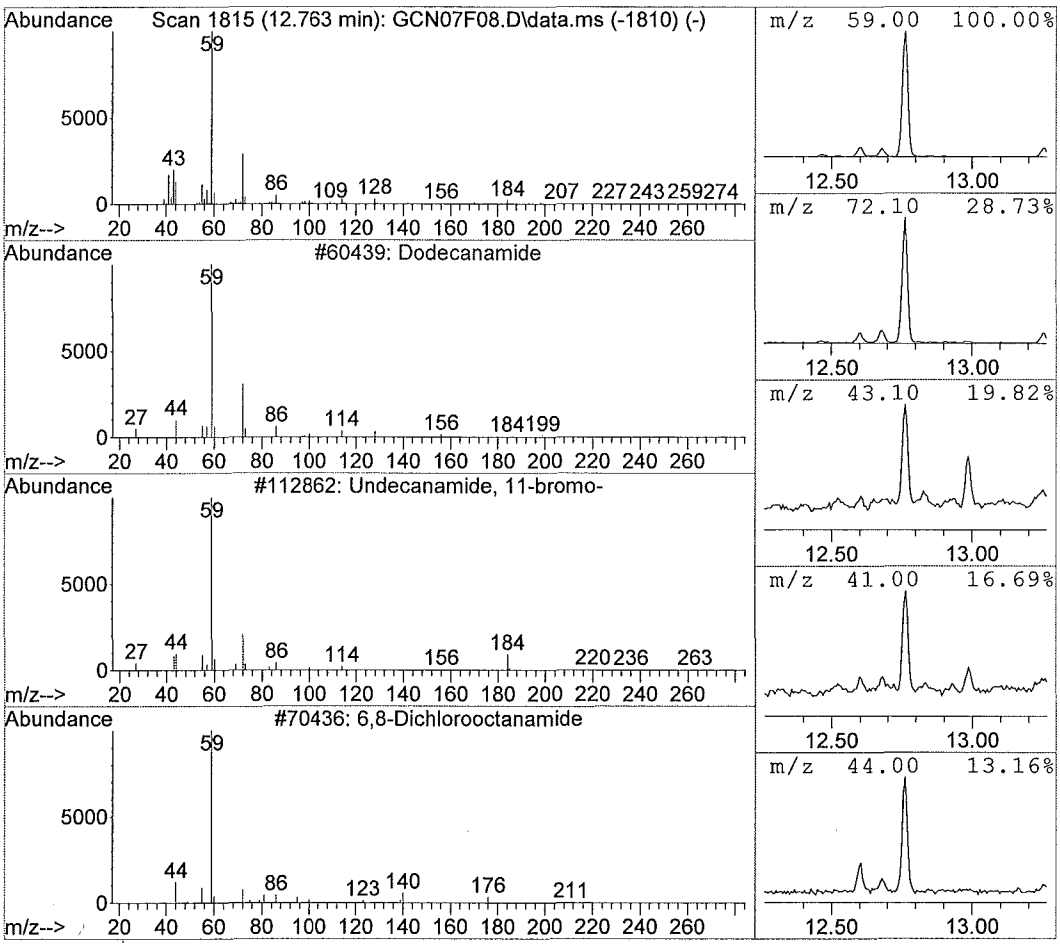
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.76	4.03 ug/ml	638420	Phenanthrene-d10	3171740

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	72.00
3	6,8-Dichlorooctanamide	70436	003579-00-8	59.00
4	Pentanamide	4064	000626-97-1	59.00
5	Nonanamide	29478	001120-07-6	56.00



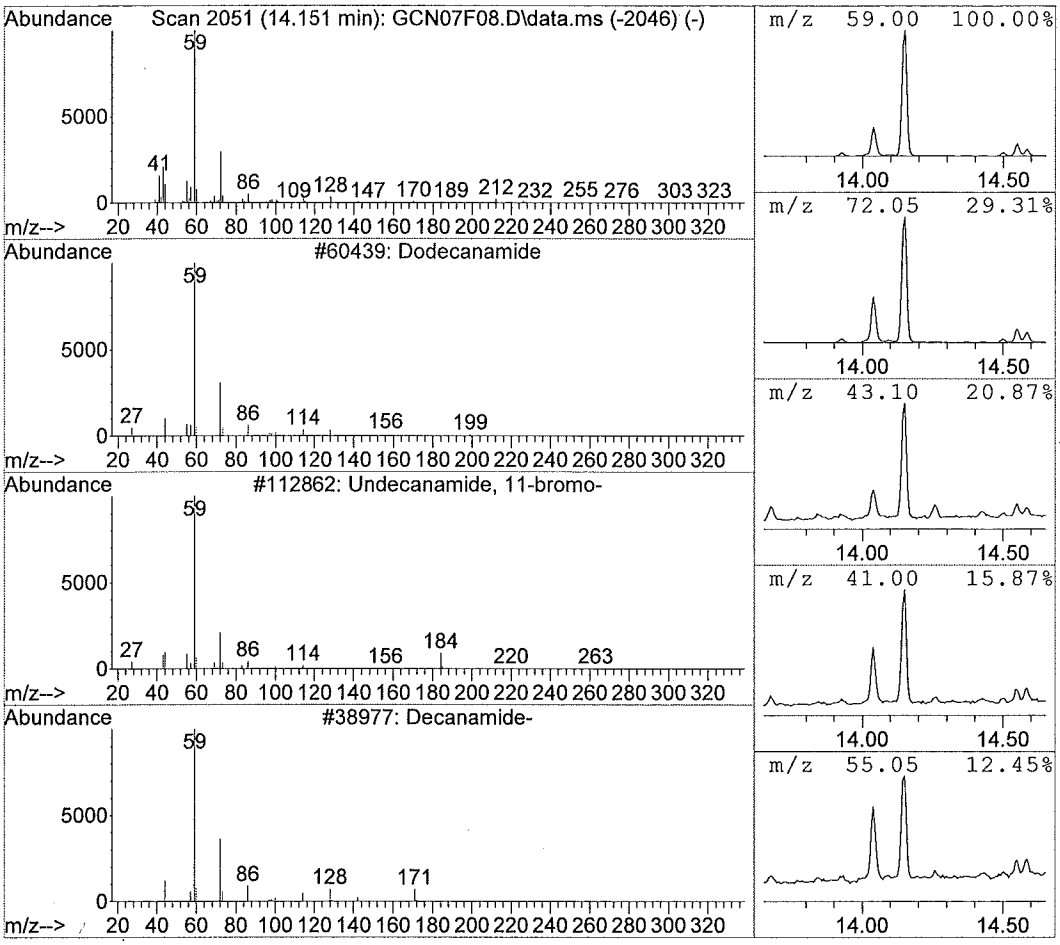
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	12.88 ug/ml	2190110	Chrysene-d12	3400897

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	86.00
3	Decanamide-	38977	002319-29-1	83.00
4	Tetradecanamide	83609	000638-58-4	78.00
5	Nonanamide	29478	001120-07-6	78.00



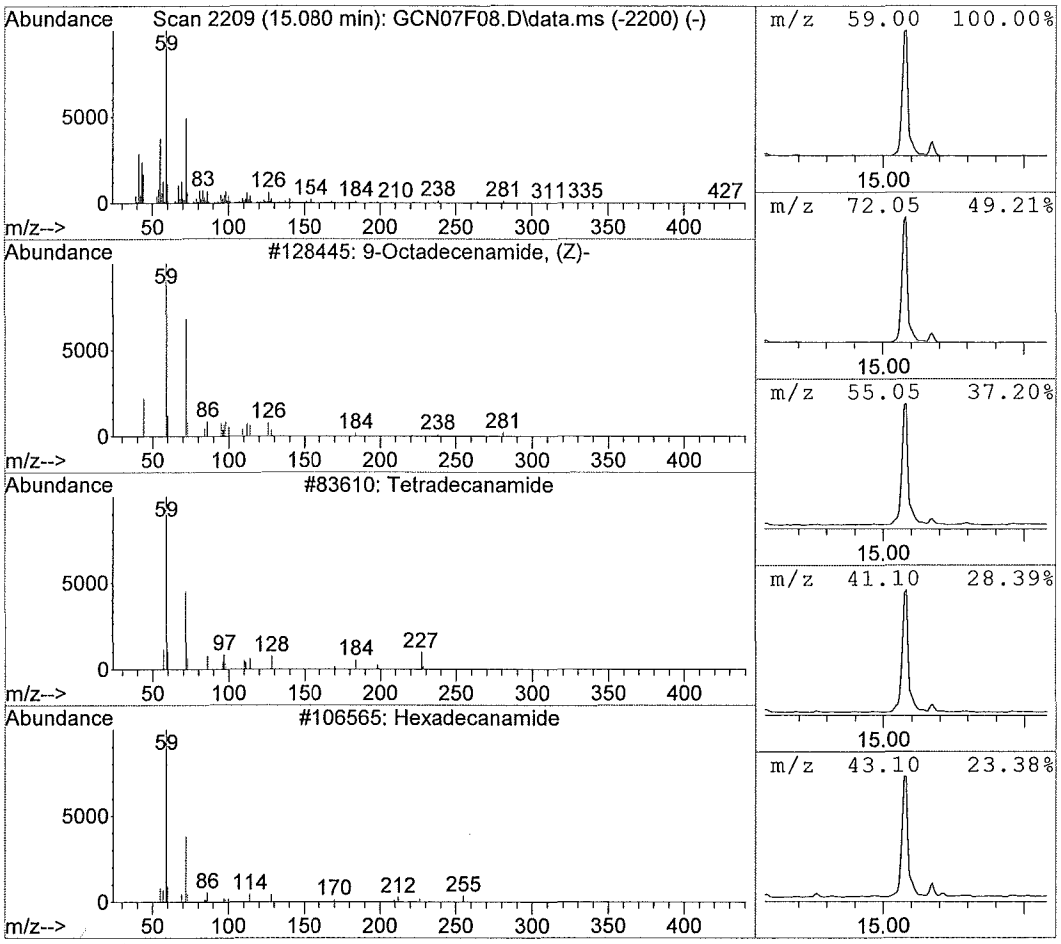
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.08	80.41 ug/ml	13674010	Chrysene-d12	3400897

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Tetradecanamide	83610	000638-58-4	72.00
3	Hexadecanamide	106565	000629-54-9	56.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	56.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	53.00



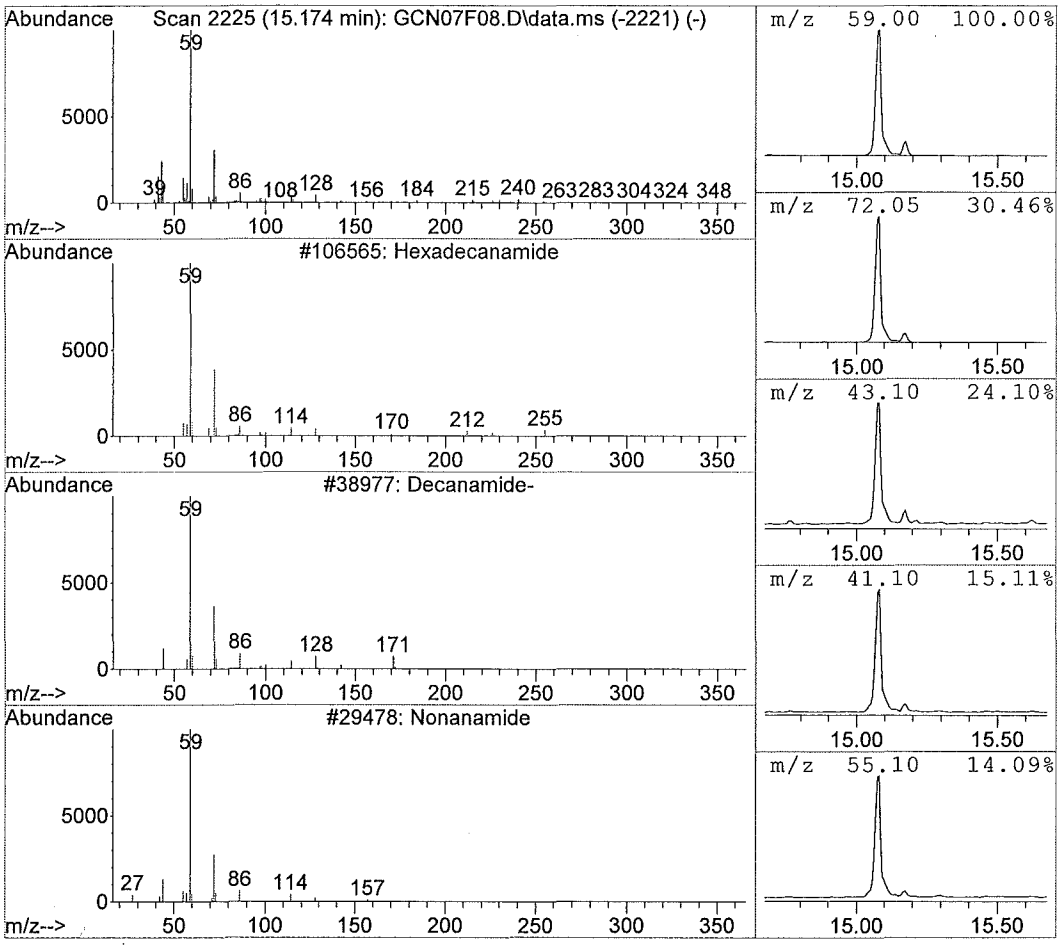
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	4.02 ug/ml	683815	Chrysene-d12	3400897

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	90.00
2	Decanamide-	38977	002319-29-1	78.00
3	Nonanamide	29478	001120-07-6	78.00
4	Dodecanamide	60440	001120-16-7	78.00
5	Octanamide	20317	000629-01-6	72.00



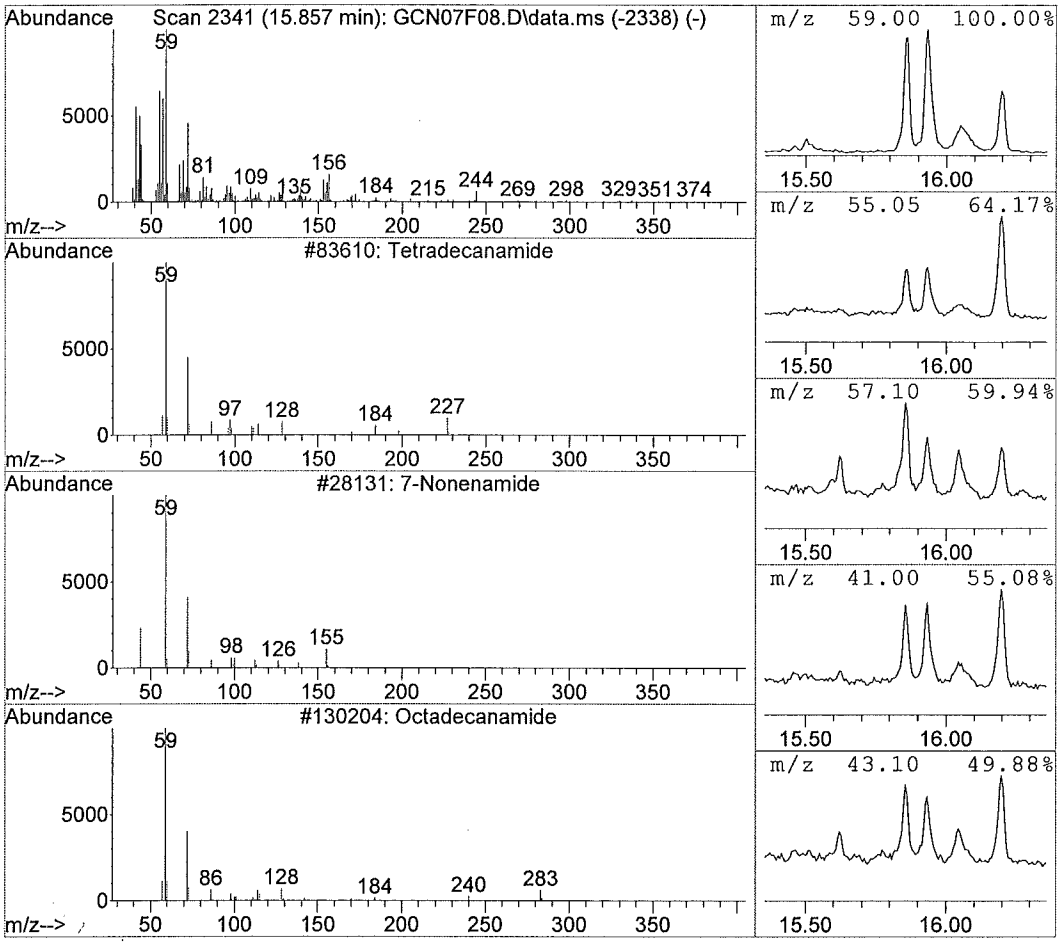
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.86	3.99 ug/ml	678484	Chrysene-d12	3400897

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	92.00
2	7-Nonenamide	28131	090949-53-4	62.00
3	Octadecanamide	130204	000124-26-5	58.00
4	9-Octadecenamide, (Z)-	128443	000301-02-0	58.00
5	Dodecanamide	60440	001120-16-7	53.00



00187

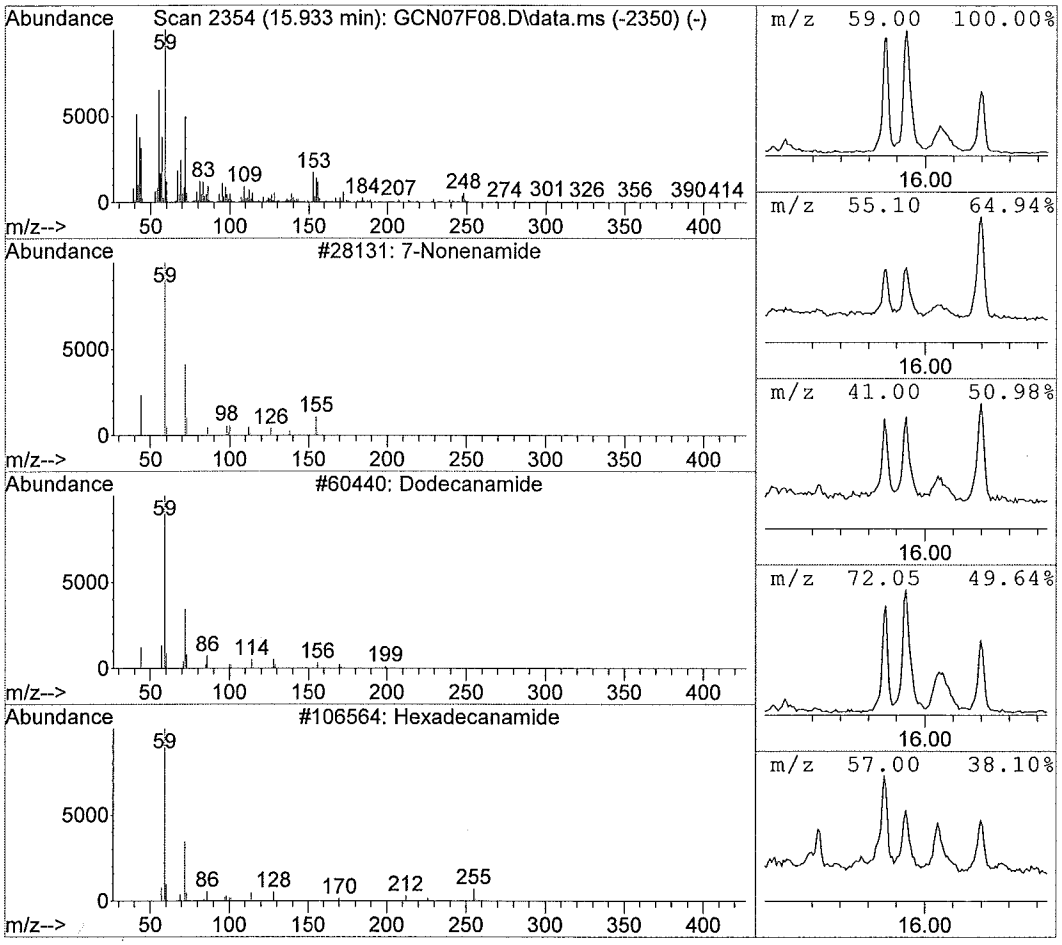
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.93	5.98 ug/ml	1016727	Chrysene-d12	3400897

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	62.00
2	Dodecanamide	60440	001120-16-7	53.00
3	Hexadecanamide	106564	000629-54-9	53.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	52.00
5	cis-9,10-Epoxyoctadecanamide	142013	172995-07-2	43.00



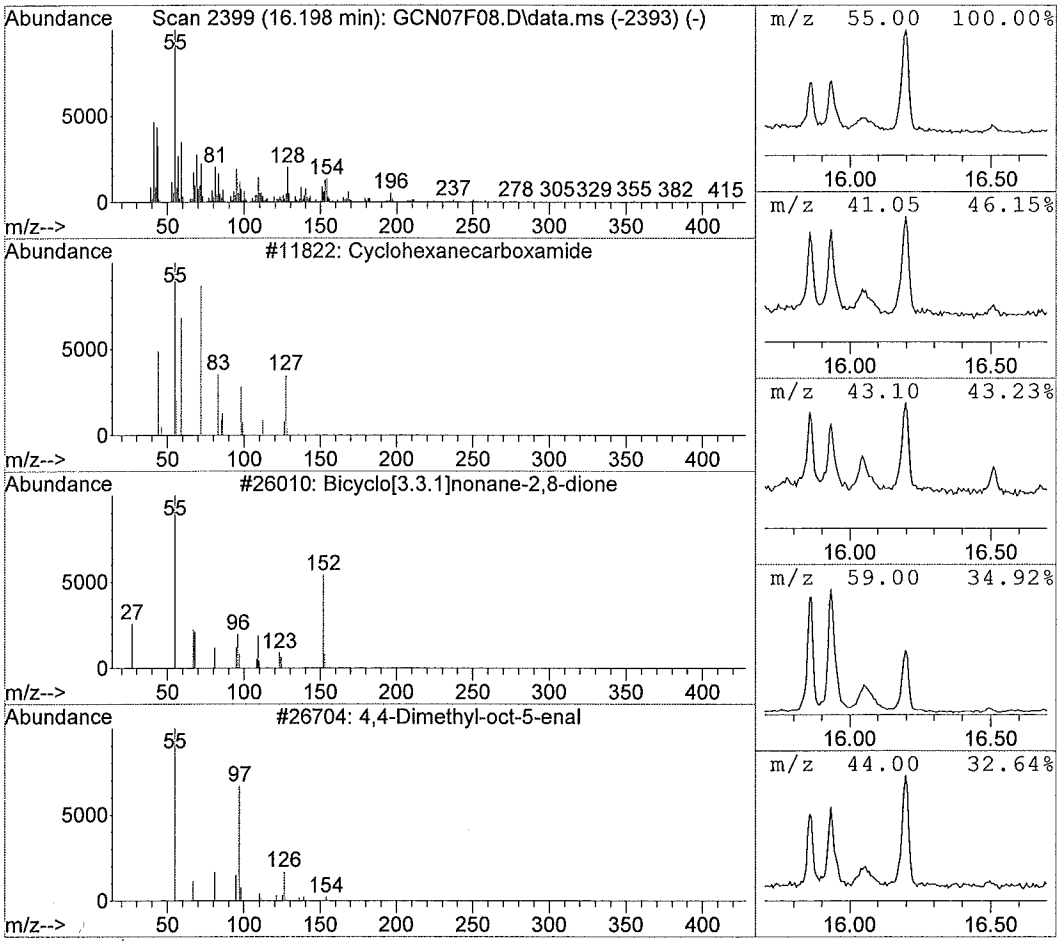
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	7.14 ug/ml	1213899	Chrysene-d12	3400897

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11822	001122-56-1	22.00
2	Bicyclo[3.3.1]nonane-2,8-dione	26010	160651-01-4	16.00
3	4,4-Dimethyl-oct-5-enal	26704	1000143-73-6	14.00
4	3-Pentenoic acid, methyl ester	7256	000818-58-6	12.00
5	2-Undecene, (E)-	27034	000693-61-8	11.00



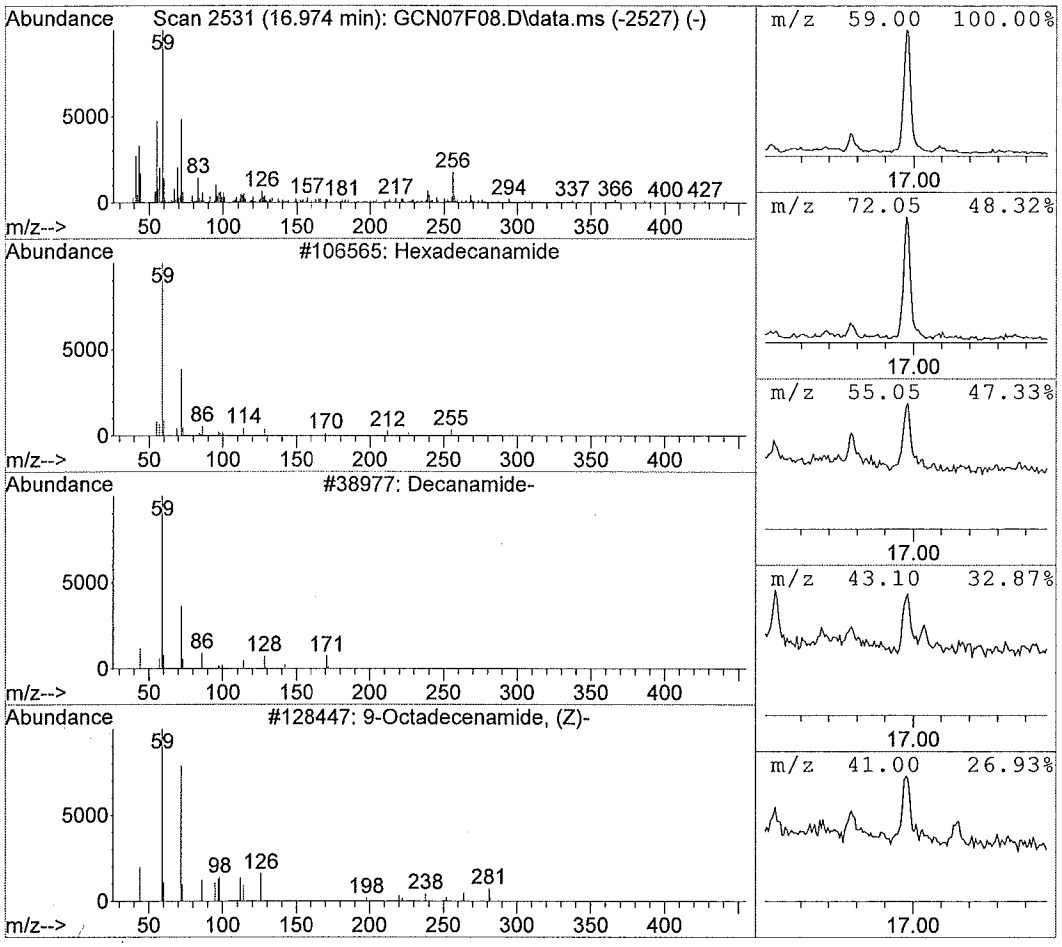
Library Search Compound Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN07F08.D Vial: 7
Acq On : 07/07/2015 17:59 Operator: TJM
Sample : 1515375008 F9M03 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.97	3.05 ug/ml	384454	Perylene-d12	2520854

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	81.00
2	Decanamide-	38977	002319-29-1	50.00
3	9-Octadecenamide, (Z)-	128447	000301-02-0	50.00
4	Nonanamide	29478	001120-07-6	50.00
5	13-Docosenamide, (Z)-	174697	000112-84-5	45.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M04

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375009

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GC002F09

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.4 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.

F9M04

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375009

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GC002F09

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.4 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	45.	J
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	28.	J
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	17.	J
218-01-9	Chrysene	28.	J
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.

F9M04

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375009

Sample wt/vol: 30.4 (g/mL) g Lab File ID: GC002F09

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,2-Ethanediol	2.34	190	J
02		Unknown 2-Pentanone, 4-hydroxy-	3.30	320	J
03		Unknown Guanidine	3.51	11000	J
04		Unknown 1,3-Dioxolane-2-methanol, 2,4-dimethyl-	4.07	130	J
05		Unknown 1H-Pyrrole-2,5-dione	4.27	790	J
06		Unknown Fumaric acid, nonyl tetrahydrofurfuryl e	9.66	140	J
07	1120-16-7	Dodecanamide	12.76	170	JN
08	1120-16-7	Dodecanamide	14.15	480	JN
09	301-02-0	9-Octadecenamide, (Z)-	15.08	3700	JNB
10	629-54-9	Hexadecanamide	15.17	130	JNB
11		Unknown Octadecanamide	15.86	100	J
12		Unknown Tetradecanamide	15.93	180	J
13		Unknown Cyclohexanecarboxamide	16.20	200	J
14		Unknown 9-Octadecenamide, (Z)-	16.97	350	J
15		Unknown Phthalic anhydride	18.60	120	J
16		Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	21.21	1200	J
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1200	J

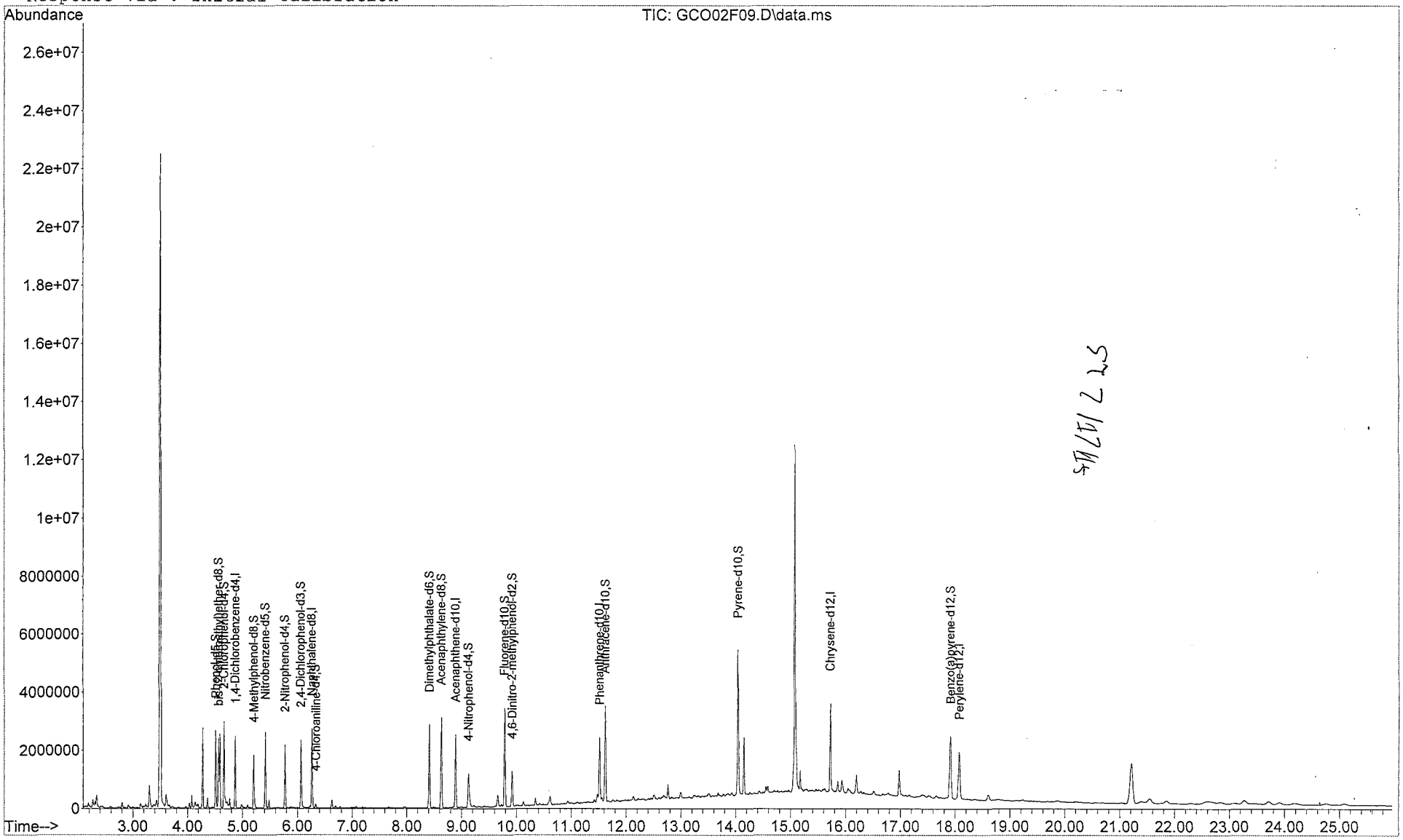
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 16 13:30:32 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



SV 7/17/15

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 16 13:30:32 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	345512	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1298240	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	749383	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1250049	20.00 ug/ml
73) Chrysene-d12	15.73	240	1283811	20.00 ug/ml
81) Perylene-d12	18.07	264	1138299	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	788107	26.212ug/ml m ST 7/14/15
6) bis-(2-chloroethyl)ether-d	4.56	67	554130	23.649ug/mL
7) 2-Chlorophenol-d4	4.66	132	665634	26.220ug/ml
13) 4-Methylphenol-d8	5.20	113	397793	19.780ug/mL
17) Nitrobenzene-d5	5.42	128	300859	26.380ug/ml
21) 2-Nitrophenol-d4	5.77	143	335985	27.872ug/mL
25) 2,4-Dichlorophenol-d3	6.06	165	517778	27.584ug/mL
28) 4-Chloroaniline-d4	6.33	131	45966	2.243ug/mL
42) Dimethylphthalate-d6	8.42	166	1478519	31.464ug/mL
45) Acenaphthylene-d8	8.63	160	1835284	28.739ug/mL
50) 4-Nitrophenol-d4	9.13	143	279872	29.195ug/mL
57) Fluorene-d10	9.79	176	1245757	31.043ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	199474	22.482ug/mL
69) Anthracene-d10	11.62	188	1928820	29.096ug/mL
75) Pyrene-d10	14.04	212	2006447	31.317ug/mL
86) Benzo(a)pyrene-d12	17.92	264	1565244	28.697ug/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

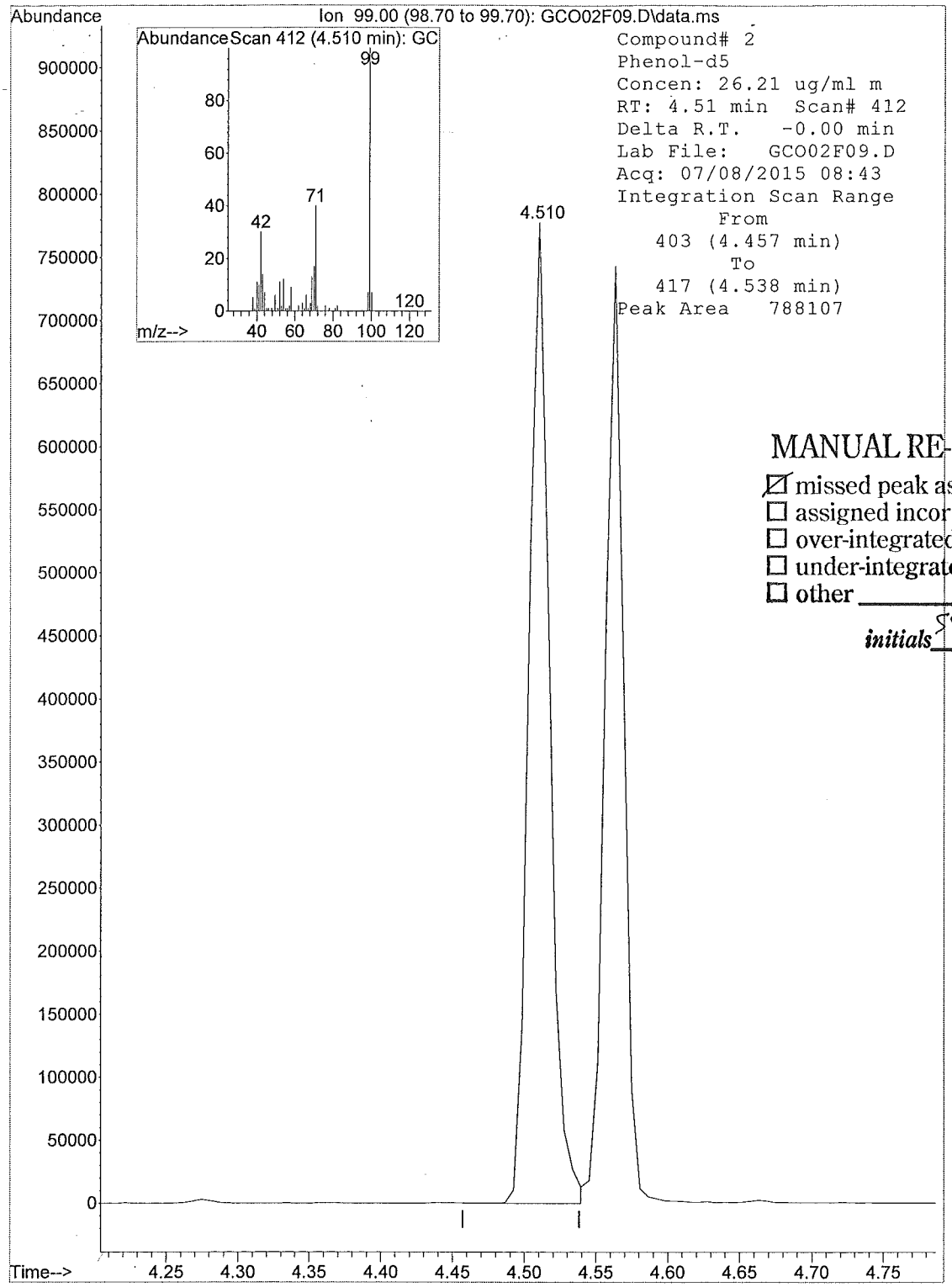
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 16 13:30:32 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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	11.56	178	76660	1.150ug/ml	98
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	14.07	202	57980	0.709ug/ml	78
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.71	228	34417	0.442ug/ml	87
79)	Chrysene	15.76	228	50850	0.723ug/ml	94
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)

M A N U A L I N T E G R A T I O N FOR Phenol-d5

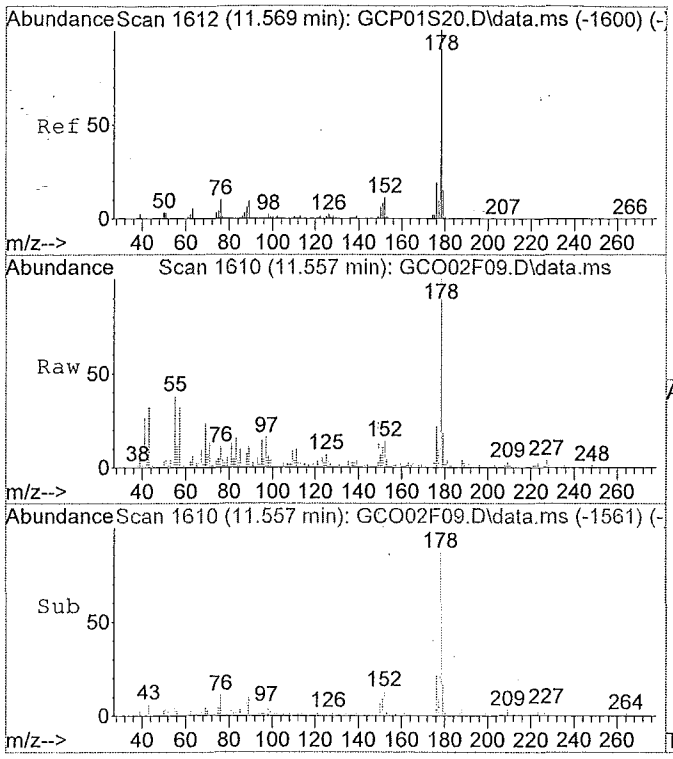


MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 7/14/15

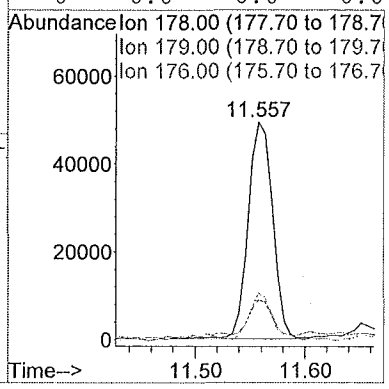
GSOM01D6.M 5975-G GSOM01D6.M 1515375009 F9M04 . SOIL SOM

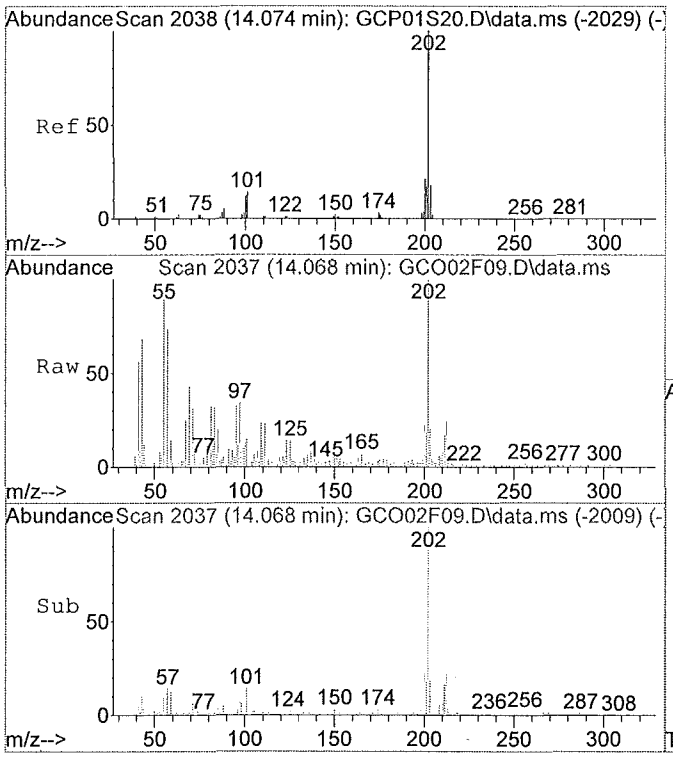


#67
Phenanthrene
Concen: 1.15 ug/ml
RT: 11.56 min Scan# 1610
Delta R.T. -0.01 min
Lab File: GCO02F09.D
Acq: 07/08/2015 08:43

Tgt Ion:178 Resp: 76660

Ion	Ratio	Lower	Upper
178	100		
179	14.8	10.6	19.8
176	20.2	13.2	24.4
0	0.0	0.0	0.0

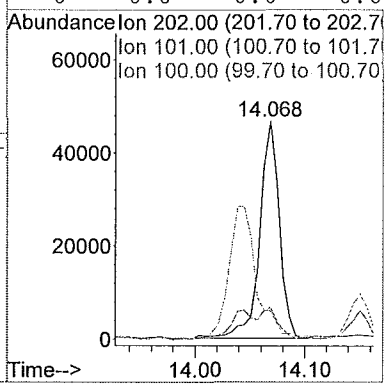


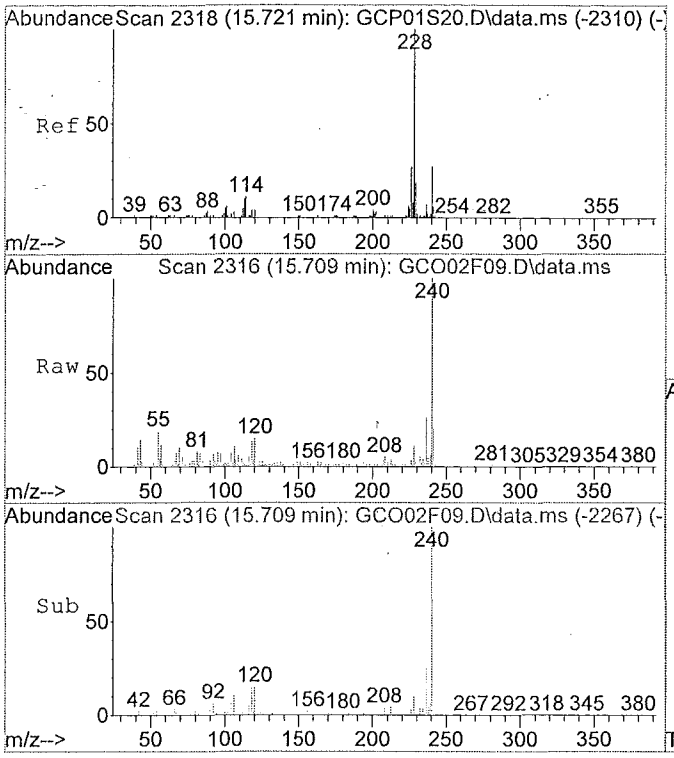


#74
Pyrene
Concen: 0.71 ug/ml
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: GCO02F09.D
Acq: 07/08/2015 08:43

Tgt Ion:202 Resp: 57980

Ion	Ratio	Lower	Upper
202	100		
101	12.6	12.2	22.7
100	0.0	10.1	18.7#
0	0.0	0.0	0.0

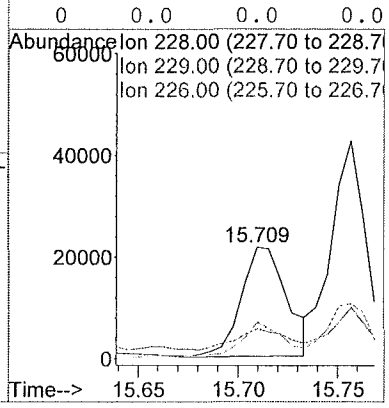


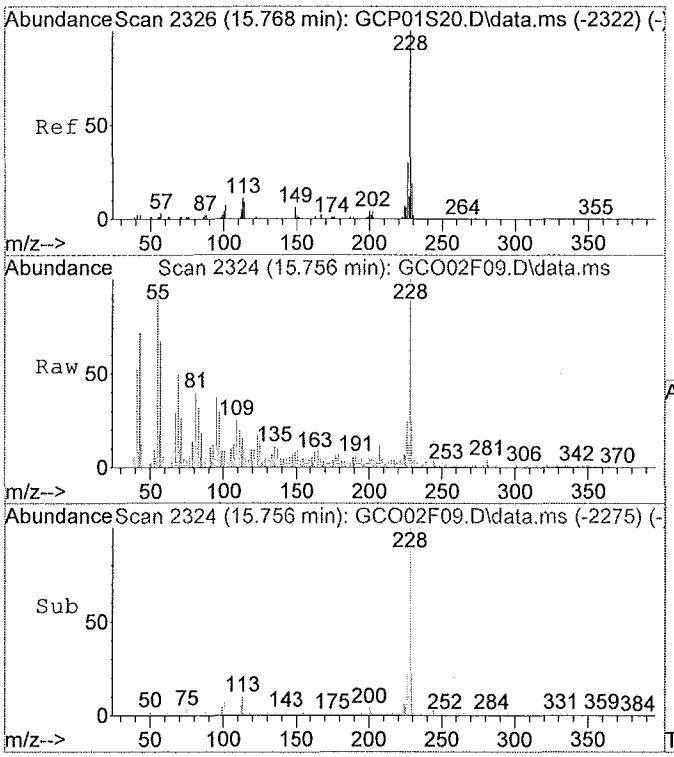


#78
Benzo(a)anthracene
Concen: 0.44 ug/ml
RT: 15.71 min Scan# 2316
Delta R.T. -0.01 min
Lab File: GCO02F09.D
Acq: 07/08/2015 08:43

Tgt Ion:228 Resp: 34417

Ion	Ratio	Lower	Upper
228	100		
229	31.2	13.7	25.5#
226	27.7	18.2	33.8
0	0.0	0.0	0.0

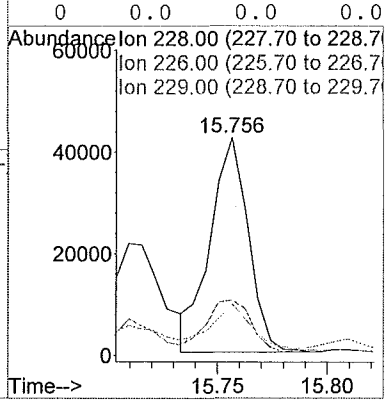




#79
Chrysene
Concen: 0.72 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCO02F09.D
Acq: 07/08/2015 08:43

Tgt Ion:228 Resp: 50850

Ion	Ratio	Lower	Upper
228	100		
226	30.5	20.1	37.3
229	24.4	13.7	25.5
0	0.0	0.0	0.0



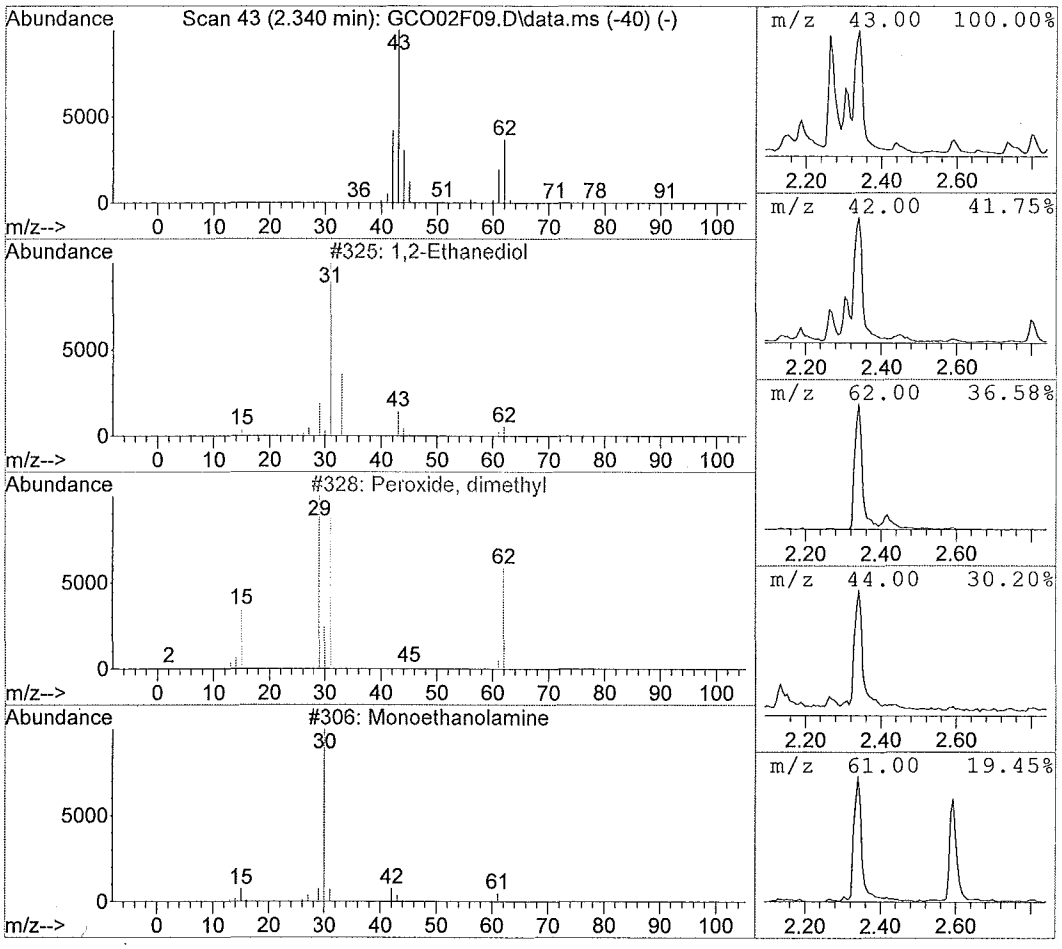
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.34	4.76 ug/ml	594068	1,4-Dichlorobenzene-d4	2496633

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol	325	000107-21-1	9.00
2	Peroxide, dimethyl	328	000690-02-8	5.00
3	Monoethanolamine	306	000141-43-5	3.00
4	Acetic acid, anhydride with formic	1955	002258-42-6	2.00
5	5-Methyloxazolidine	1878	058328-22-6	2.00



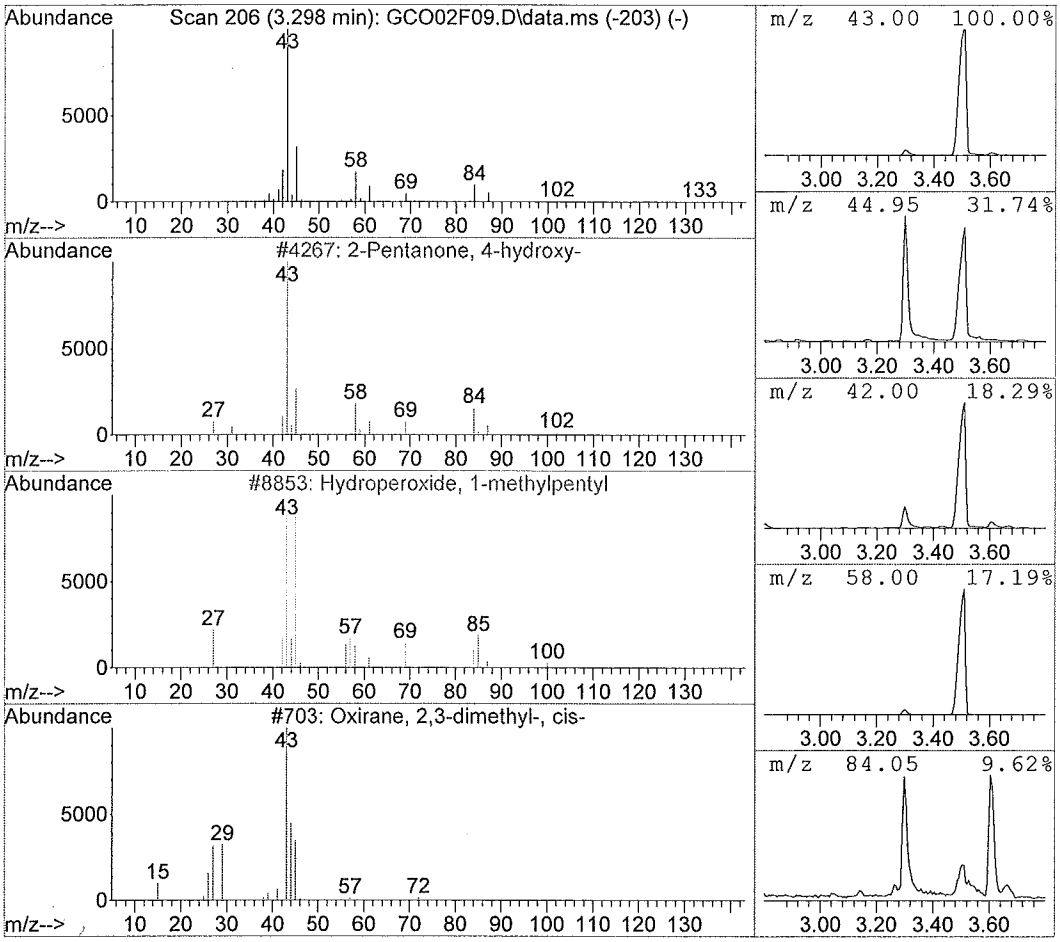
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.30	8.22 ug/ml	1025912	1,4-Dichlorobenzene-d4	2496633

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-	4267	004161-60-8	39.00
2	Hydroperoxide, 1-methylpentyl	8853	024254-55-5	33.00
3	Oxirane, 2,3-dimethyl-, cis-	703	001758-33-4	17.00
4	Acetone	213	000067-64-1	9.00
5	Isopropyl acetate	4253	000108-21-4	9.00



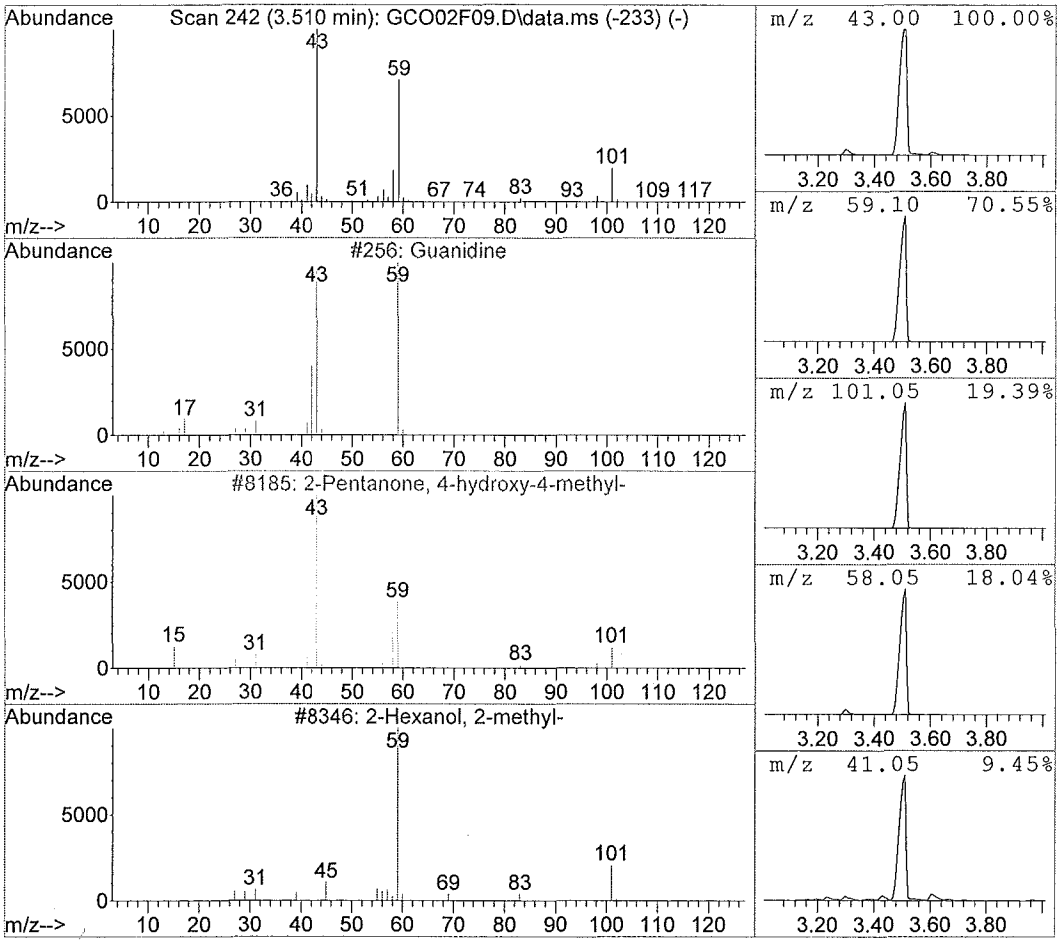
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.51	290.73 ug/ml	36292685	1,4-Dichlorobenzene-d4	2496633

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Guanidine	256	000113-00-8	43.00
2	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	40.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	33.00
4	3-Hexanol, 4-methyl-	8344	000615-29-2	28.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	17.00



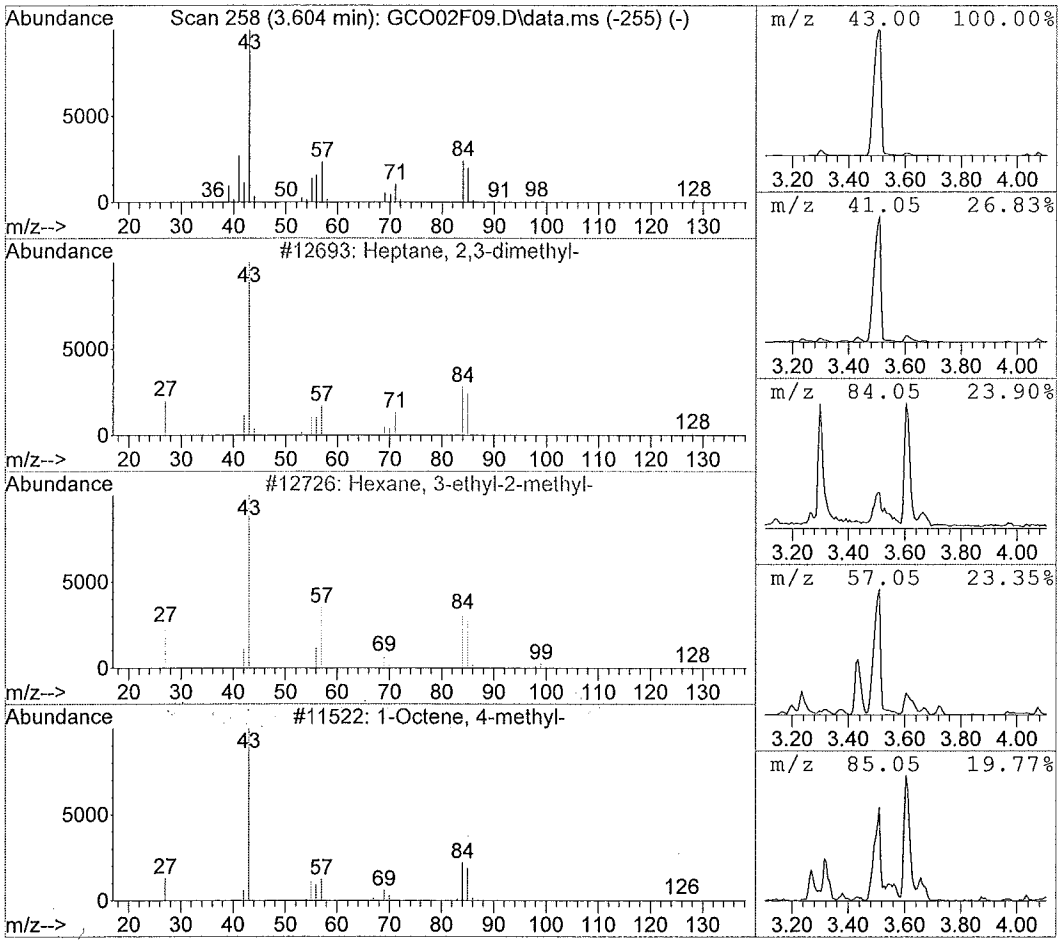
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.60	4.79 ug/ml	598494	1,4-Dichlorobenzene-d4	2496633

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,3-dimethyl- BA	12693	003074-71-3	87.00
2	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	59.00
3	1-Octene, 4-methyl-	11522	013151-12-7	59.00
4	Decane, 5,6-dimethyl-	38341	001636-43-7	56.00
5	Heptane, 4,4-dimethyl-	12696	001068-19-5	53.00



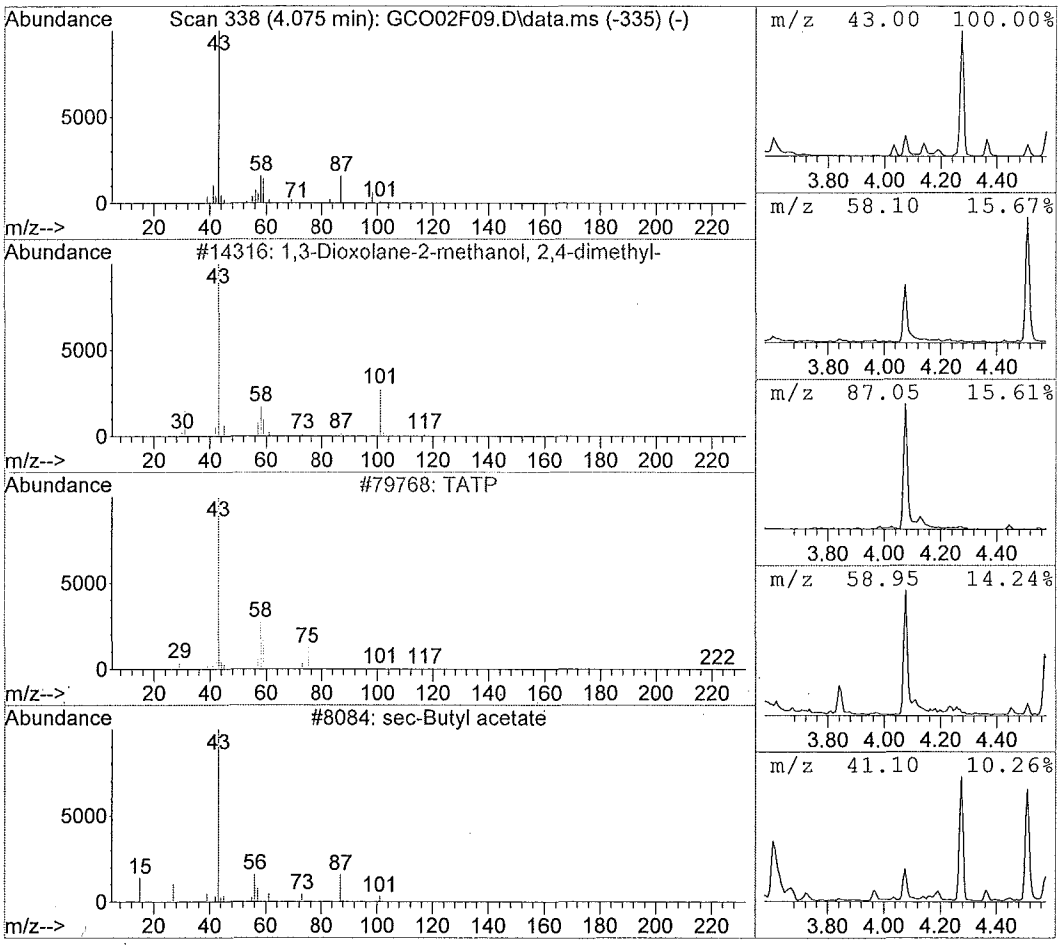
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.07	3.44 ug/ml	429423	1,4-Dichlorobenzene-d4	2496633

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Dioxolane-2-methanol, 2,4-dimet	14316	053951-43-2	33.00
2	TATP	79768	017088-37-8	32.00
3	sec-Butyl acetate	8084	000105-46-4	23.00
4	1,1-Ethanediol, diacetate	21816	000542-10-9	17.00
5	1-Pentanamine	1907	000110-58-7	9.00



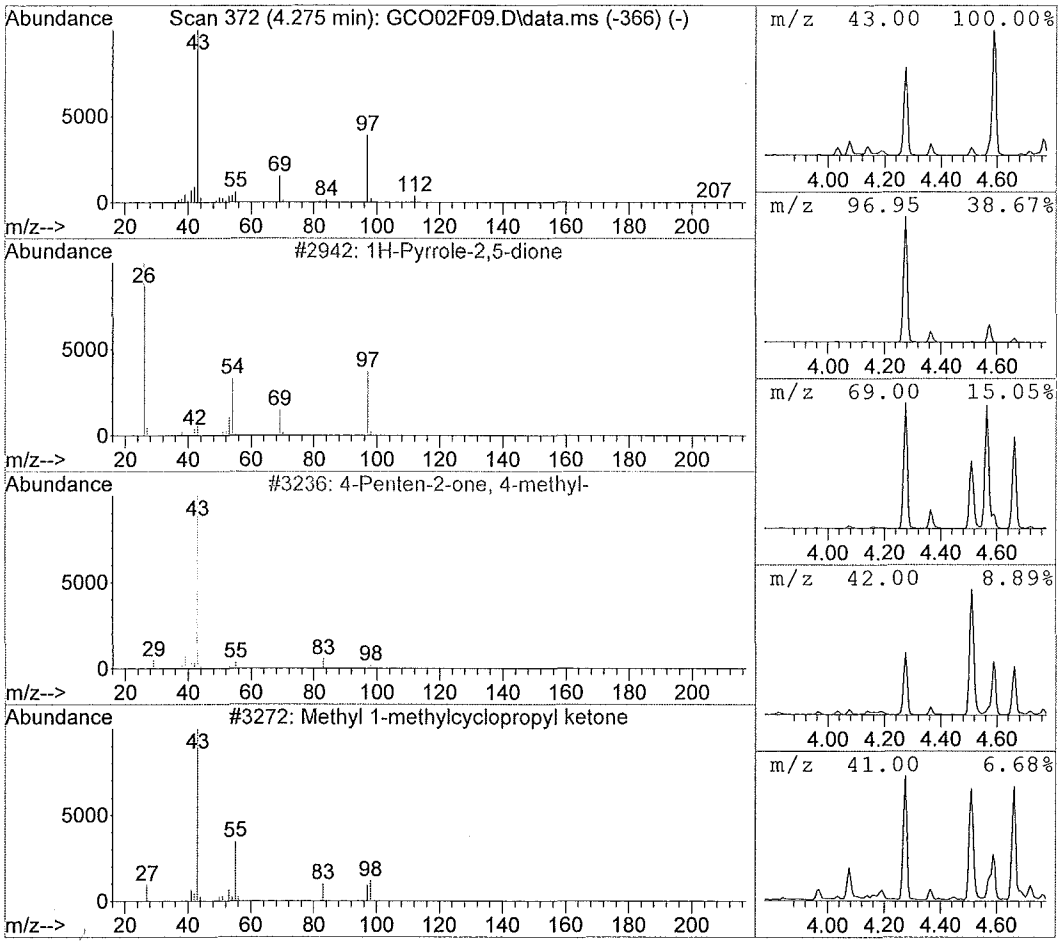
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.27	20.15 ug/ml	2515605	1,4-Dichlorobenzene-d4	2496633

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
4	5-Hexen-2-one	3158	000109-49-9	9.00
5	5-Hexen-2-one, 5-methyl-	6517	003240-09-3	5.00



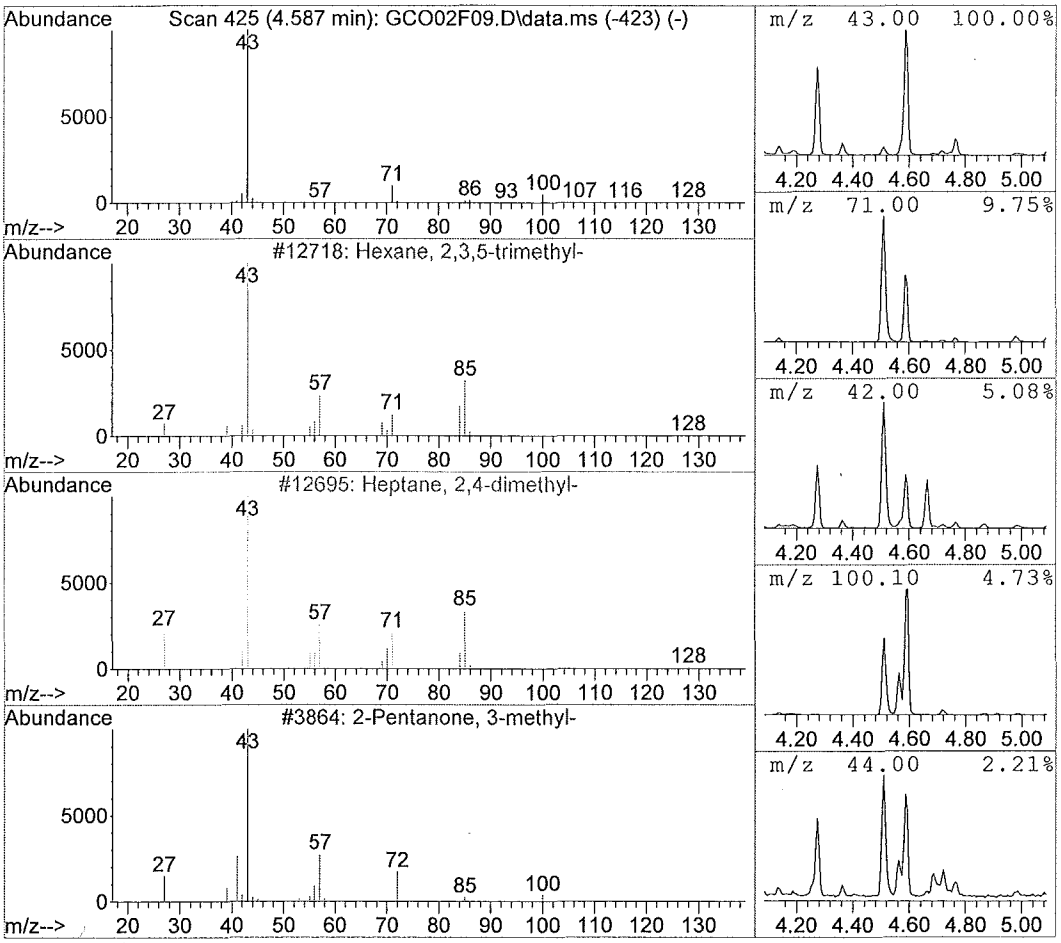
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.59	18.51 ug/ml	2310690	1,4-Dichlorobenzene-d4	2496633

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	7.00
2	Heptane, 2,4-dimethyl- BA	12695	002213-23-2	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	Heptane	3972	000142-82-5	5.00
5	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00



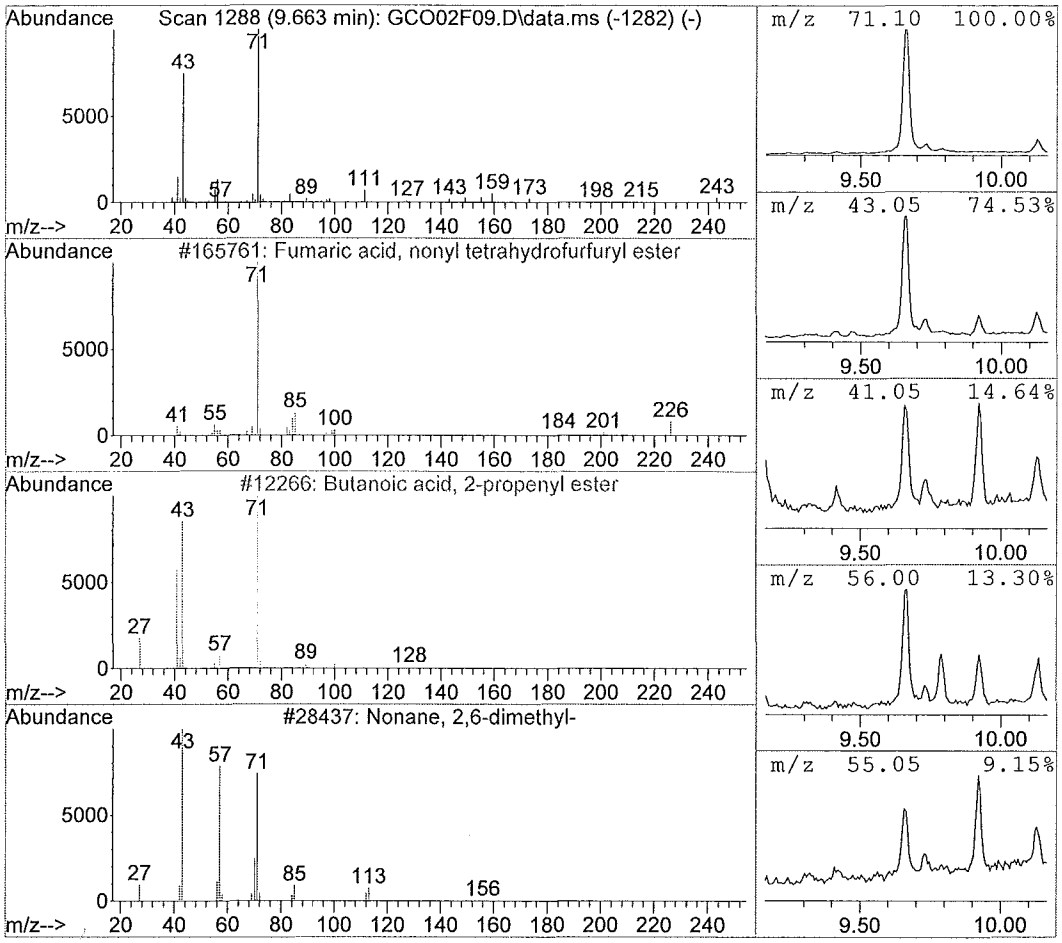
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.66	3.68 ug/ml	605884	Acenaphthene-d10	3290464

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Fumaric acid, nonyl tetrahydrofurfu	165761	1000330-58-3	40.00
2	Butanoic acid, 2-propenyl ester	12266	002051-78-7	38.00
3	Nonane, 2,6-dimethyl-	28437	017302-28-2	36.00
4	Butane, 2-iodo-3-methyl-	59962	018295-27-7	36.00
5	Acetamide, N-tetrahydrofurfuryl-2,2	58950	1000307-30-7	33.00



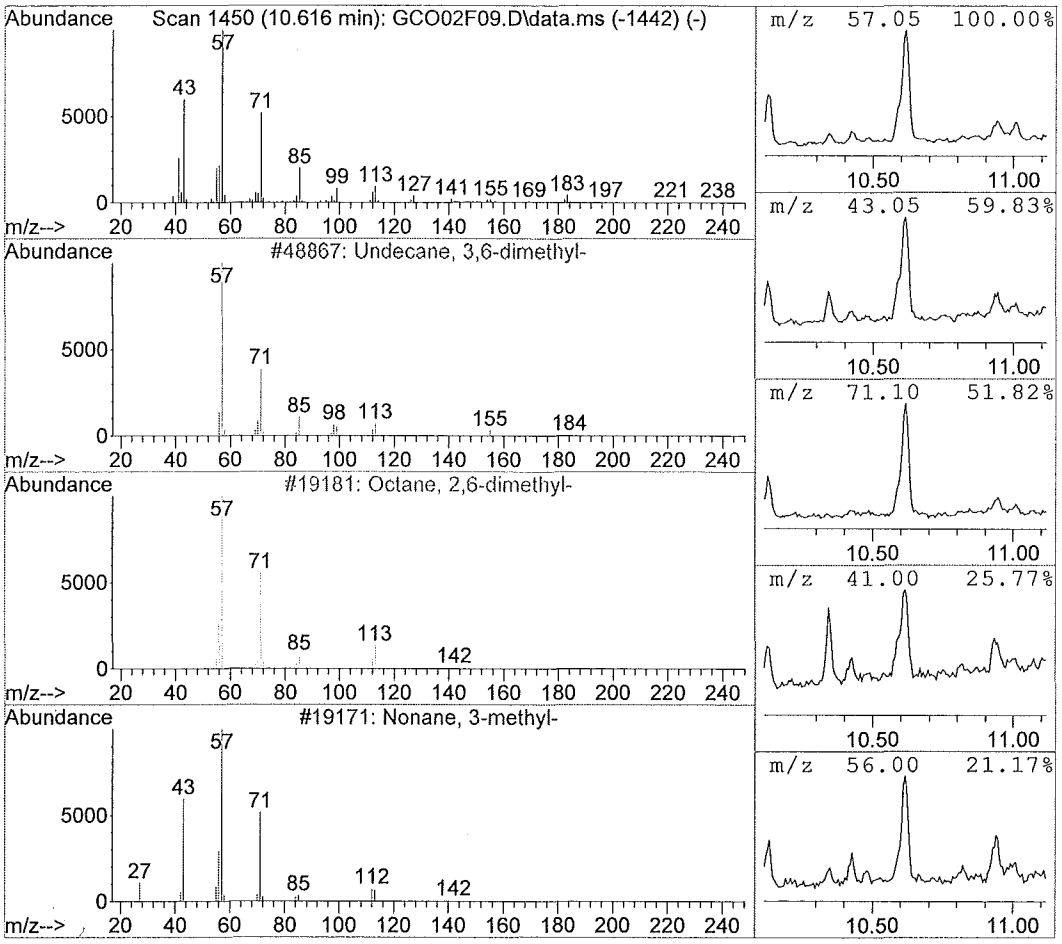
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.62	3.66 ug/ml	574610	Phenanthrene-d10	3142682

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 3,6-dimethyl- BA	48867	017301-28-9	87.00
2	Octane, 2,6-dimethyl-	19181	002051-30-1	76.00
3	Nonane, 3-methyl-	19171	005911-04-6	76.00
4	Tridecane, 5-propyl-	83031	055045-11-9	72.00
5	Bacchotricuneatin c	178298	066563-30-2	70.00



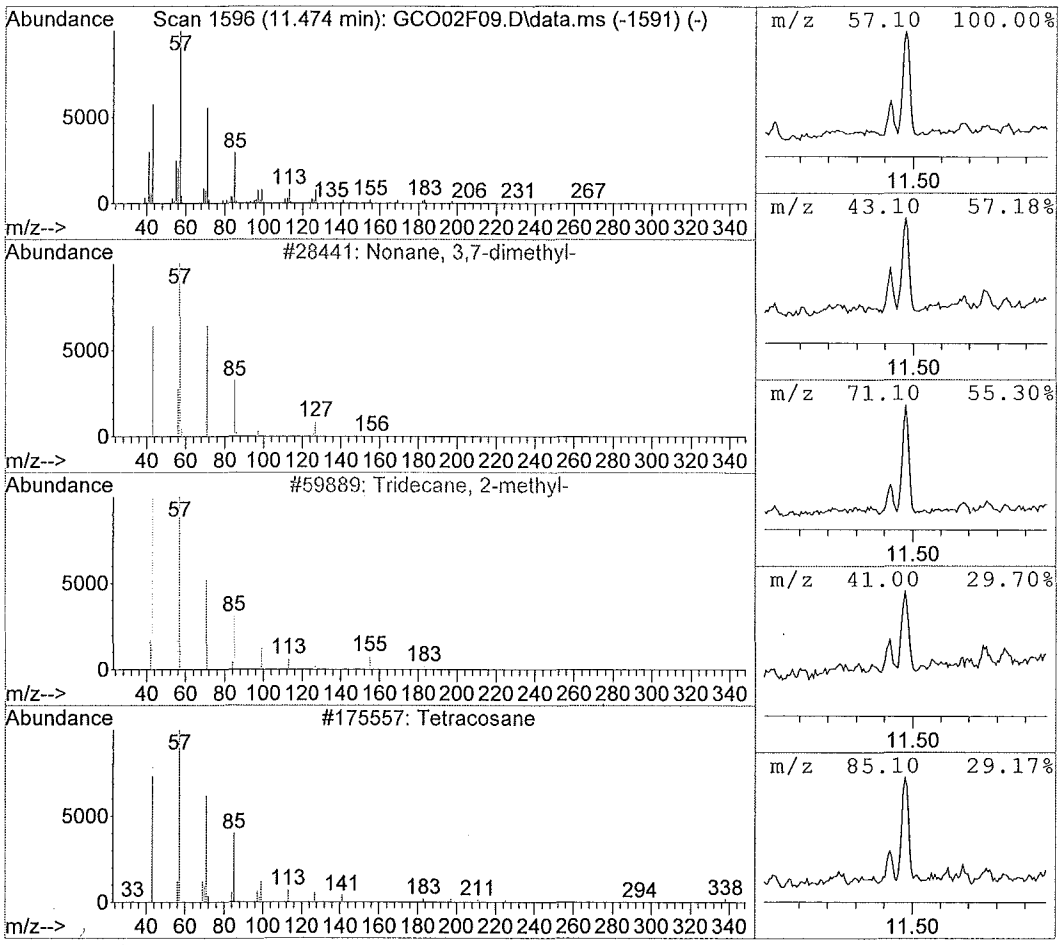
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.47	3.18 ug/ml	499450	Phenanthrene-d10	3142682

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonane, 3,7-dimethyl- BA	28441	017302-32-8	87.00
2	Tridecane, 2-methyl-	59889	001560-96-9	83.00
3	Tetracosane	175557	000646-31-1	59.00
4	Dodecane, 4-methyl-	48850	006117-97-1	58.00
5	Dodecane, 2,6,11-trimethyl-	71411	031295-56-4	50.00



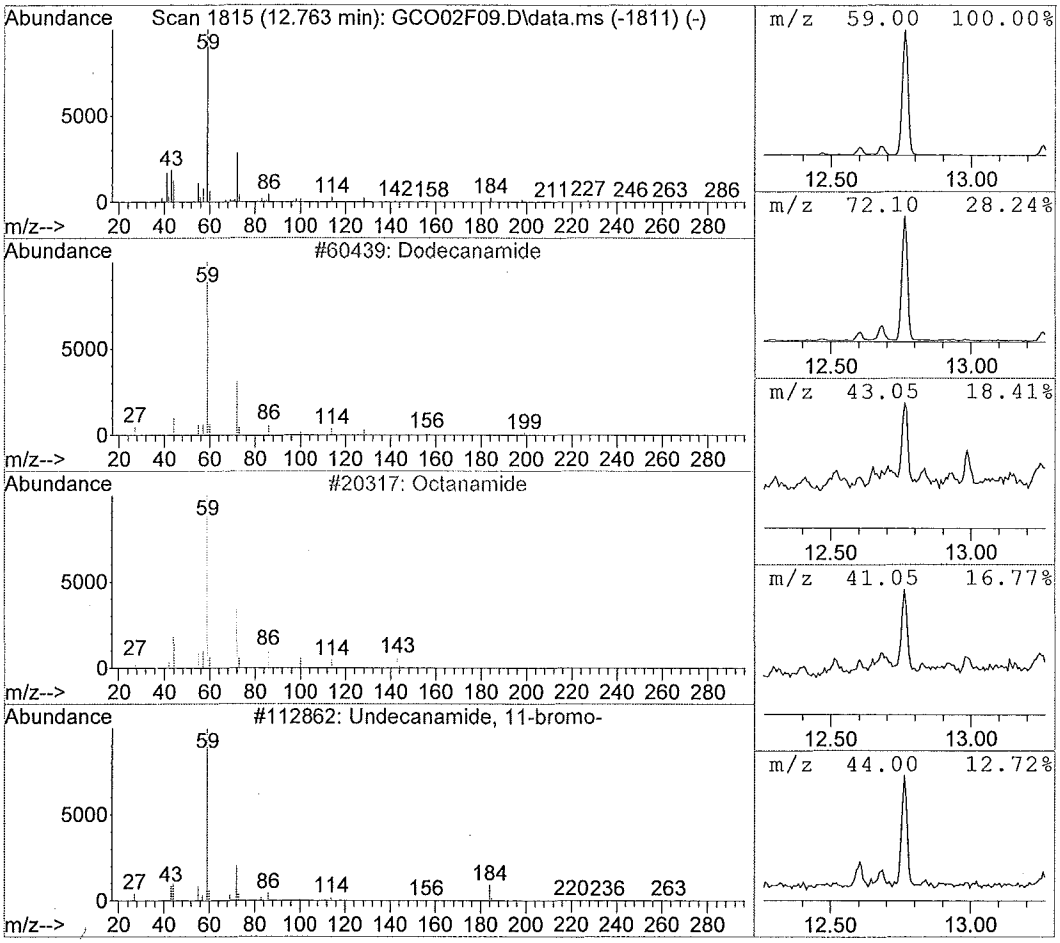
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.76	4.28 ug/ml	672984	Phenanthrene-d10	3142682

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Octanamide	20317	000629-01-6	87.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
4	Nonanamide	29478	001120-07-6	78.00
5	Hexanamide	7793	000628-02-4	72.00



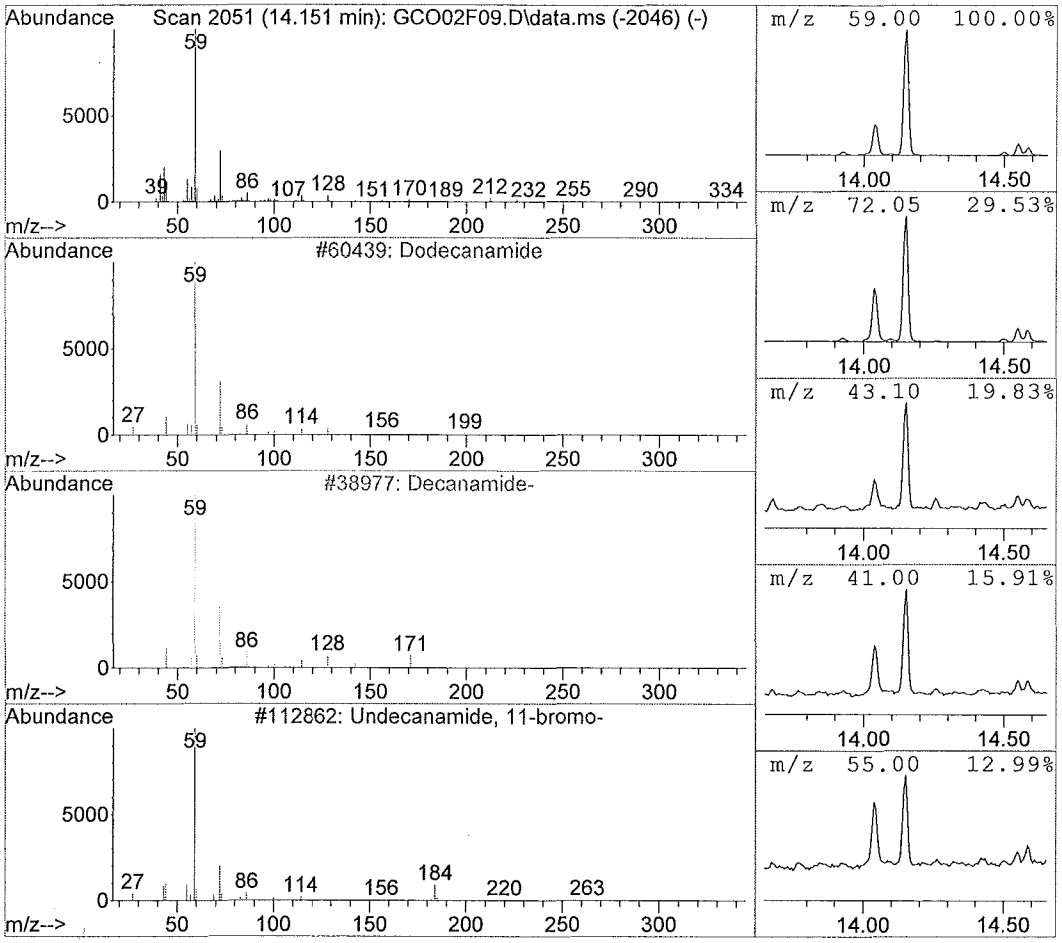
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	12.26 ug/ml	2261626	Chrysene-d12	3689777

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Decanamide-	38977	002319-29-1	83.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
4	Nonanamide	29478	001120-07-6	83.00
5	Pentanamide	4064	000626-97-1	59.00



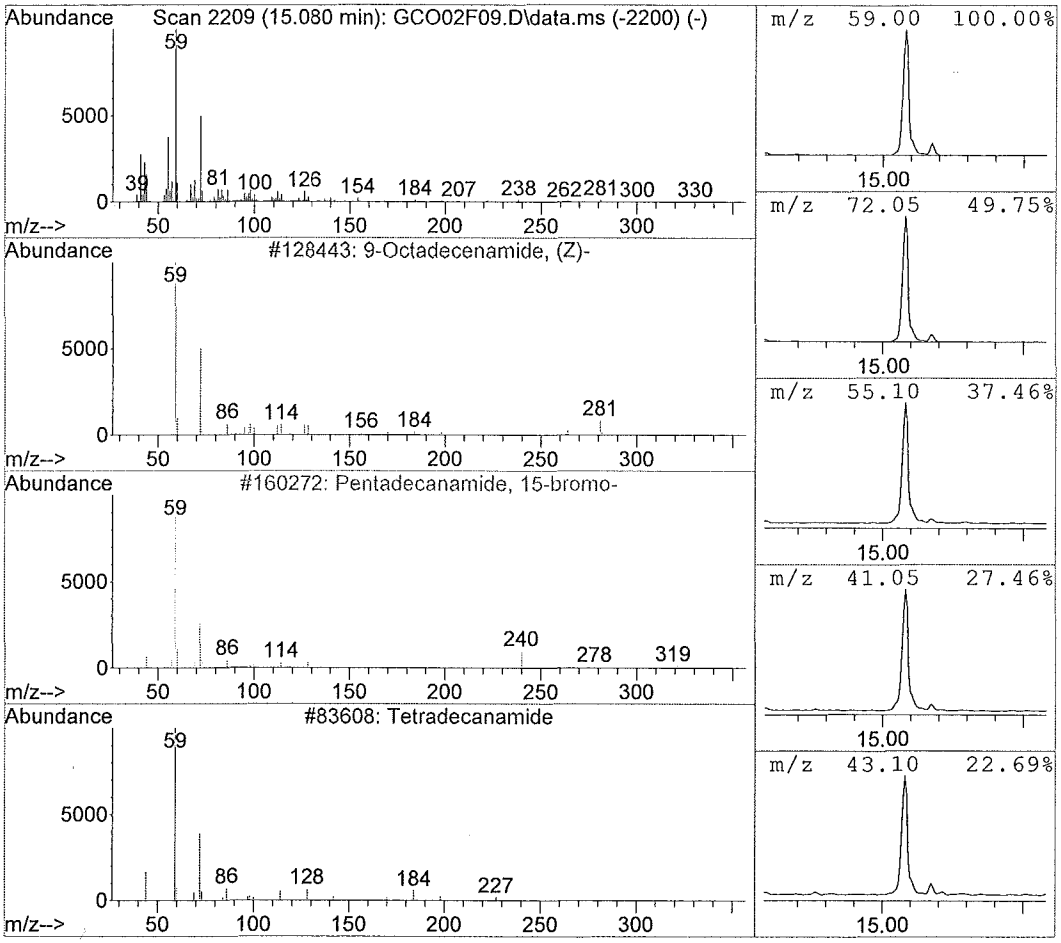
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.08	95.00 ug/ml	17526293	Chrysene-d12	3689777

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	86.00
3	Tetradecanamide	83608	000638-58-4	72.00
4	Decanamide-	38977	002319-29-1	56.00
5	Hexadecanamide	106565	000629-54-9	56.00



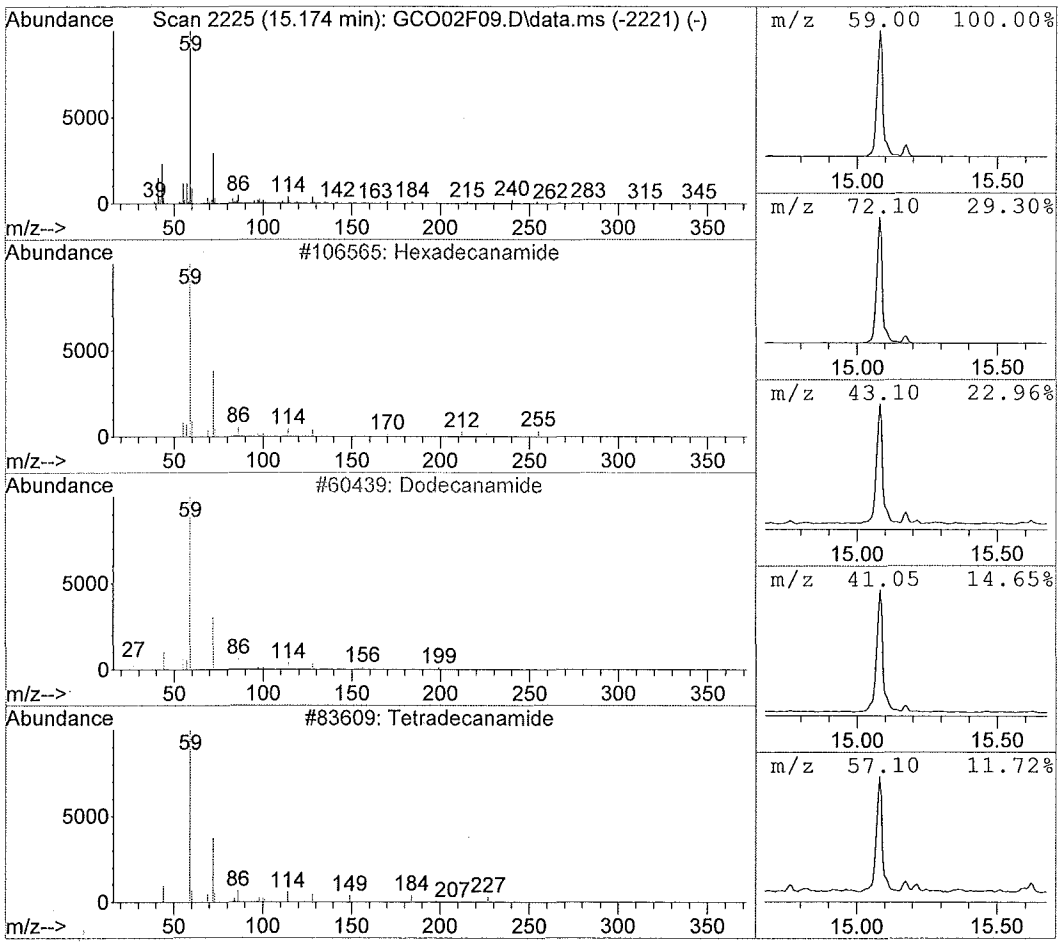
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	3.42 ug/ml	630534	Chrysene-d12	3689777

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	87.00
2	Dodecanamide	60439	001120-16-7	78.00
3	Tetradecanamide	83609	000638-58-4	72.00
4	Nonanamide	29478	001120-07-6	72.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	64.00



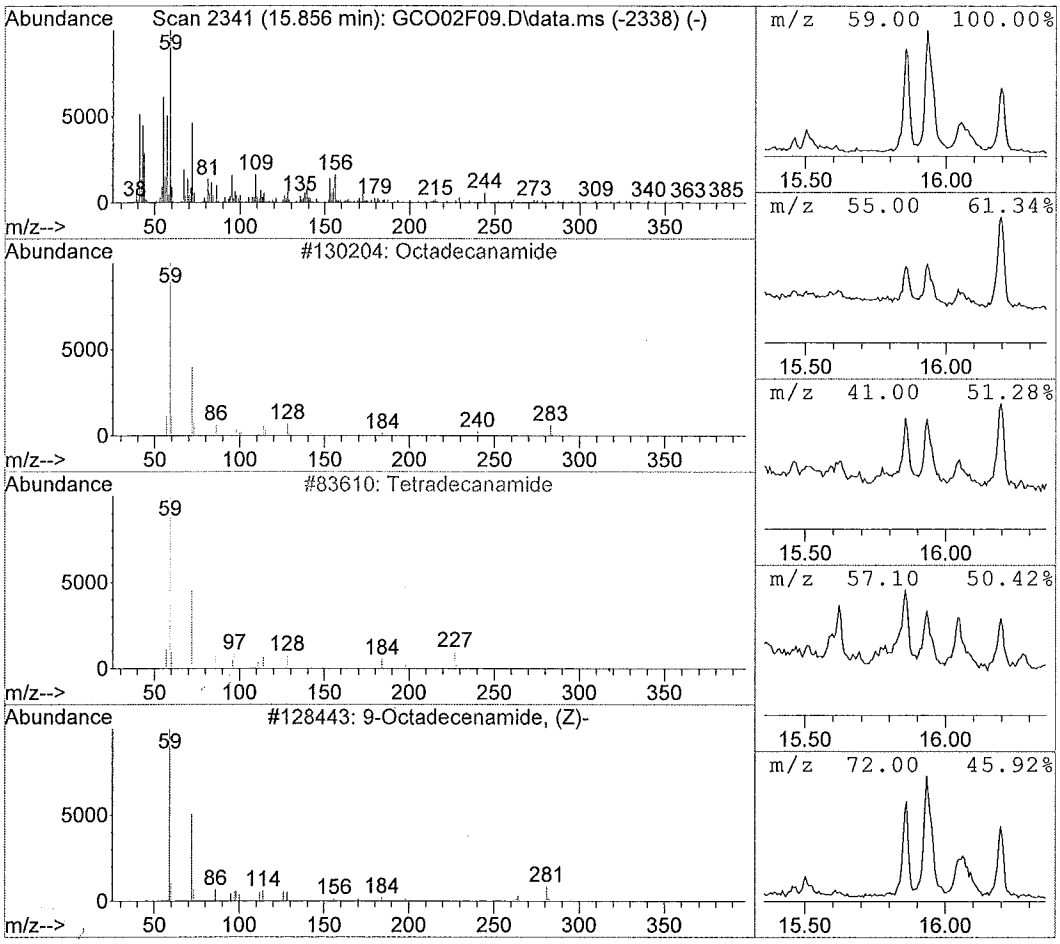
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.86	2.63 ug/ml	485066	Chrysene-d12	3689777

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octadecanamide	130204	000124-26-5	64.00
2	Tetradecanamide	83610	000638-58-4	58.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	50.00
4	Dodecanamide	60439	001120-16-7	50.00
5	Hexadecanamide	106564	000629-54-9	50.00



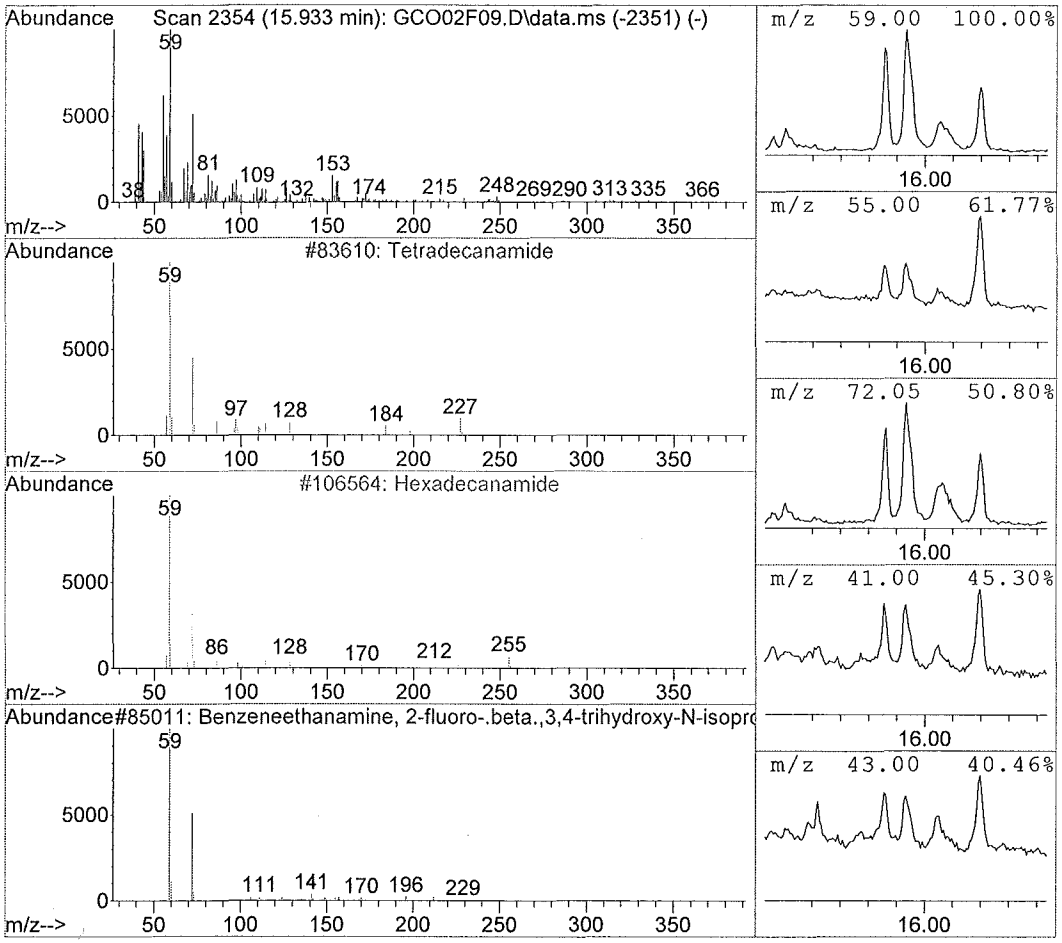
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.93	4.57 ug/ml	842624	Chrysene-d12	3689777

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	59.00
2	Hexadecanamide	106564	000629-54-9	53.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	50.00
4	Octadecanamide	130204	000124-26-5	43.00
5	Butanamide, 3-methyl-	4078	000541-46-8	38.00



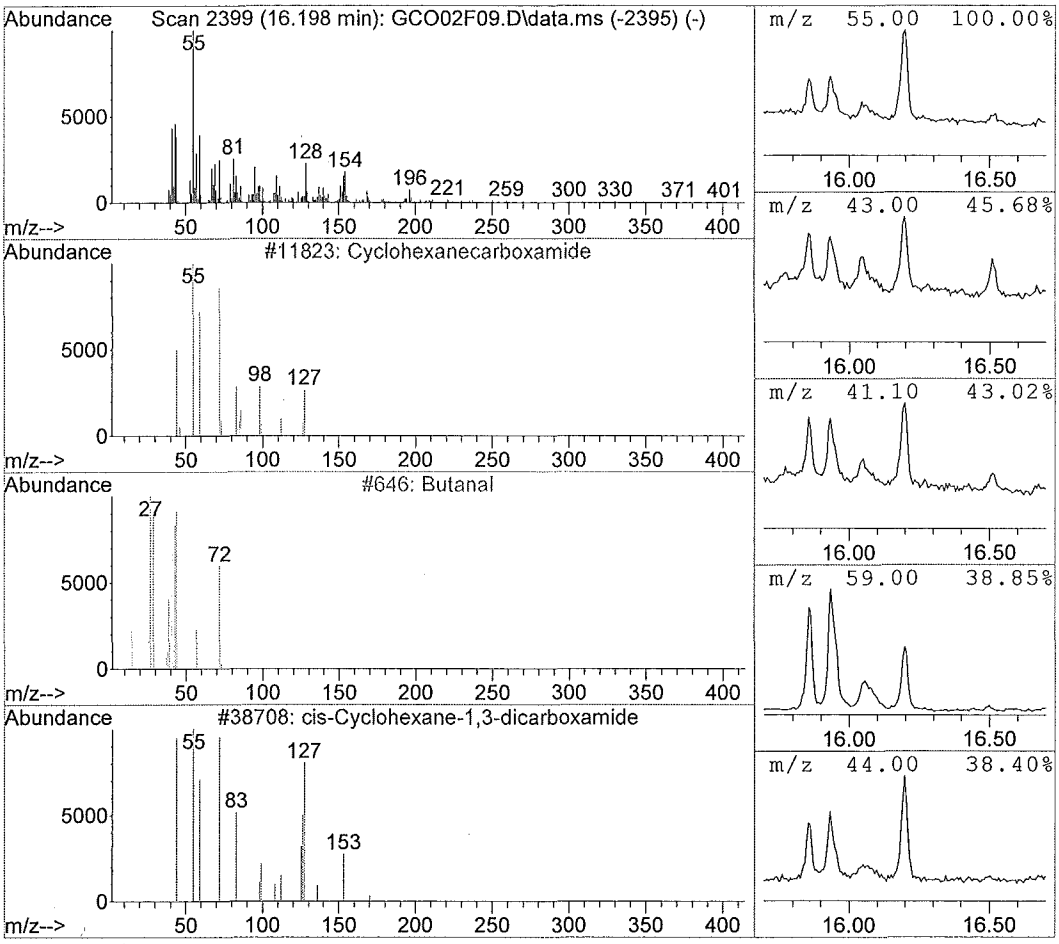
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	5.01 ug/ml	924620	Chrysene-d12	3689777

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanecarboxamide	11823	001122-56-1	43.00
2	Butanal	646	000123-72-8	10.00
3	cis-Cyclohexane-1,3-dicarboxamide	38708	1000143-74-8	9.00
4	2-[4-(1,2-Diphenyl-but-1-enyl)-phen	179298	1000287-74-7	9.00
5	Oleylamine	116615	000112-90-3	9.00



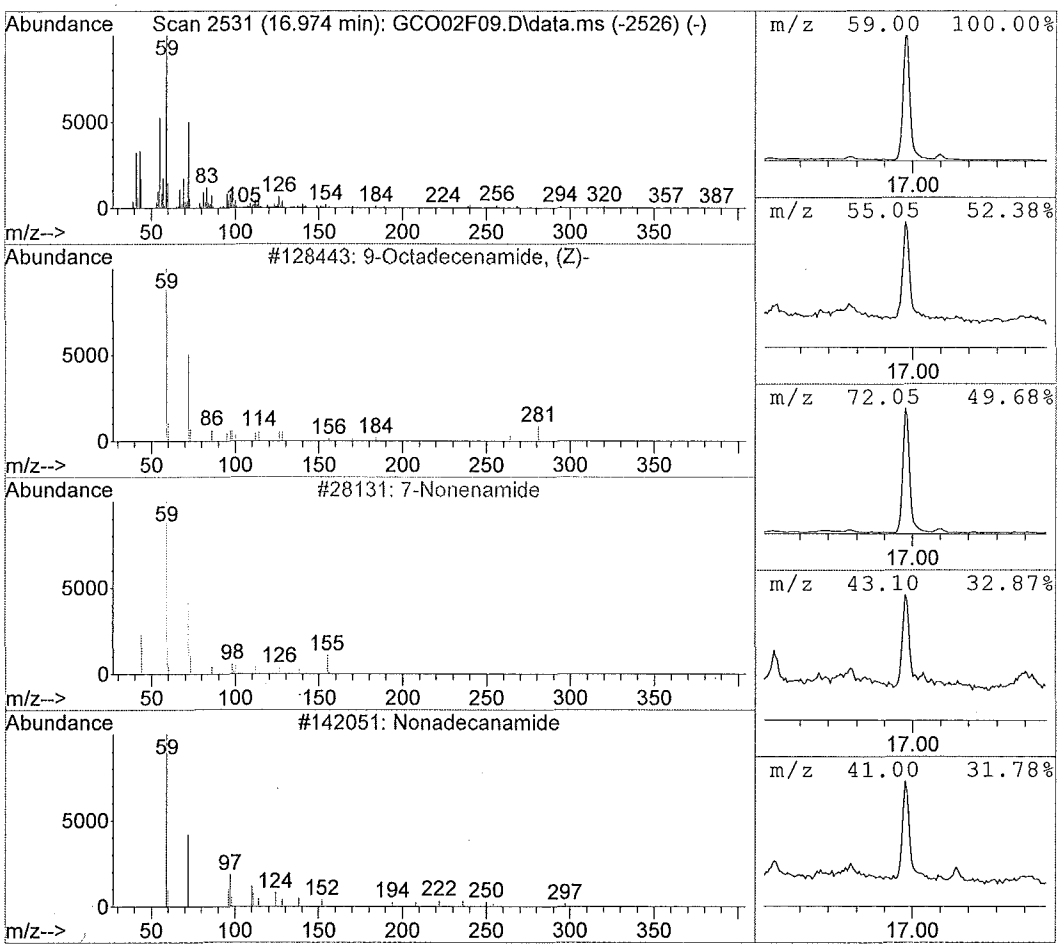
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.97	8.98 ug/ml	1553550	Perylene-d12	3459219

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	83.00
2	7-Nonenamide	28131	090949-53-4	72.00
3	Nonadecanamide	142051	058185-32-3	64.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
5	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00



Library Search Compound Report

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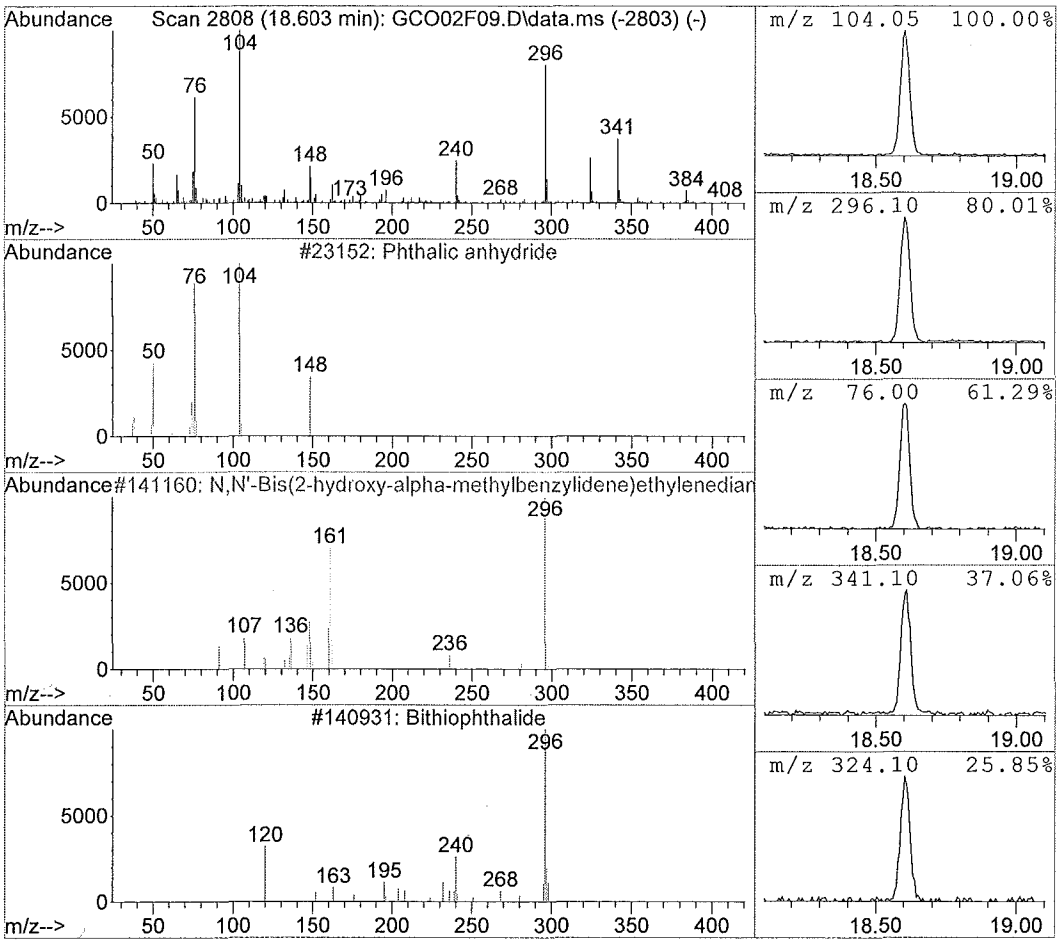
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.60	2.98 ug/ml	514831	Perylene-d12	3459219

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phthalic anhydride	23152	000085-44-9	35.00
2	N,N'-Bis(2-hydroxy-alpha-methylbenz	141160	005464-60-8	25.00
3	Bithiophthalide	140931	032819-84-4	22.00
4	2,4-Diamino-5,6,7,8-tetrahydro-5-ph	140891	037071-31-1	18.00
5	1H-Pyrazol-5-ol, 1,3-bis(4-methoxyp	140974	1000337-80-1	14.00



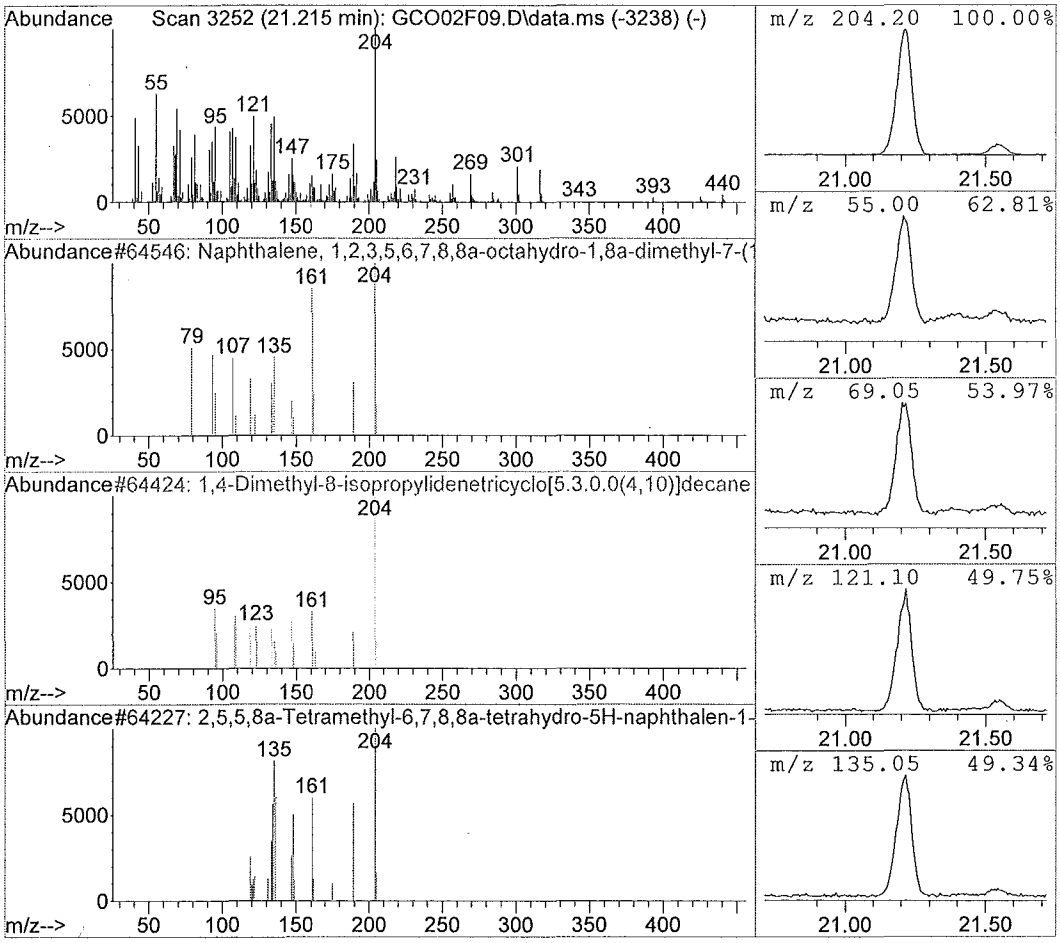
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO02F09.D Vial: 2
Acq On : 07/08/2015 08:43 Operator: TJM
Sample : 1515375009 F9M04 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.21	29.37 ug/ml	5079186	Perylene-d12	3459219

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	1,4-Dimethyl-8-isopropylidenetricyc	64424	1000140-07-7	55.00
3	2,5,5,8a-Tetramethyl-6,7,8,8a-tetra	64227	124957-09-1	50.00
4	2H-Cyclopentacyclooctene, 4,5,6,7,8	64452	1000221-85-8	49.00
5	1,1,4a-Trimethyl-5,6-dimethylenedec	64407	1000193-60-8	47.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

F9M05

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375010

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GC003F10

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	770	U
108-95-2	Phenol	770	U
111-44-4	Bis(2-chloroethyl)ether	770	U
95-57-8	2-Chlorophenol	770	U
95-48-7	2-Methylphenol	770	U
108-60-1	2,2'-Oxybis(1-chloropropane)	770	U
98-86-2	Acetophenone	770	U
106-44-5	4-Methylphenol	770	U
621-64-7	N-Nitroso-di-n-propylamine	770	U
67-72-1	Hexachloroethane	770	U
98-95-3	Nitrobenzene	770	U
78-59-1	Isophorone	770	U
88-75-5	2-Nitrophenol	770	U
105-67-9	2,4-Dimethylphenol	770	U
111-91-1	Bis(2-chloroethoxy)methane	770	U
120-83-2	2,4-Dichlorophenol	770	U
91-20-3	Naphthalene	770	U
106-47-8	4-Chloroaniline	770	U
87-68-3	Hexachlorobutadiene	770	U
105-60-2	Caprolactam	770	U
59-50-7	4-Chloro-3-methylphenol	770	U
91-57-6	2-Methylnaphthalene	770	U
77-47-4	Hexachlorocyclopentadiene	770	U
88-06-2	2,4,6-Trichlorophenol	770	U
95-95-4	2,4,5-Trichlorophenol	770	U
92-52-4	1,1'-Biphenyl	770	U
91-58-7	2-Chloronaphthalene	770	U
88-74-4	2-Nitroaniline	1500	U
131-11-3	Dimethylphthalate	770	U
606-20-2	2,6-Dinitrotoluene	770	U
208-96-8	Acenaphthylene	770	U
99-09-2	3-Nitroaniline	1500	U
83-32-9	Acenaphthene	770	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M05

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375010

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GC003F10

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	1500	U
100-02-7	4-Nitrophenol	1500	U
132-64-9	Dibenzofuran	770	U
121-14-2	2,4-Dinitrotoluene	770	U
84-66-2	Diethylphthalate	770	U
86-73-7	Fluorene	770	U
7005-72-3	4-Chlorophenyl-phenylether	770	U
100-01-6	4-Nitroaniline	1500	U
534-52-1	4,6-Dinitro-2-methylphenol	1500	U
86-30-6	N-Nitrosodiphenylamine[1]	770	U
95-94-3	1,2,4,5-Tetrachlorobenzene	770	U
101-55-3	4-Bromophenyl-phenylether	770	U
118-74-1	Hexachlorobenzene	770	U
1912-24-9	Atrazine	770	U
87-86-5	Pentachlorophenol	1500	U
85-01-8	Phenanthrene	770	U
120-12-7	Anthracene	770	U
86-74-8	Carbazole	770	U
84-74-2	Di-n-butylphthalate	770	U
206-44-0	Fluoranthene	770	U
129-00-0	Pyrene	120	J
85-68-7	Butylbenzylphthalate	770	U
91-94-1	3,3'-Dichlorobenzidine	770	U
56-55-3	Benzo(a)anthracene	770	U
218-01-9	Chrysene	770	U
117-81-7	Bis(2-ethylhexyl)phthalate	770	U
117-84-0	Di-n-octylphthalate	770	U
205-99-2	Benzo(b)fluoranthene	770	U
207-08-9	Benzo(k)fluoranthene	770	U
50-32-8	Benzo(a)pyrene	770	U
193-39-5	Indeno(1,2,3-cd)pyrene	770	U
53-70-3	Dibenzo(a,h)anthracene	770	U
191-24-2	Benzo(g,h,i)perylene	770	U
58-90-2	2,3,4,6-Tetrachlorophenol	770	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

F9M05

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375010

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GC003F10

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 4.0

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-	3.48	4100	JB
02		Unknown 1H-Pyrrole-2,5-dione	4.27	1100	J
03		Unknown 2-Pentanone, 3-methyl-	4.59	600	J
04		Unknown 2-Decene, 8-methyl-, (Z)-	5.28	320	J
05		Unknown 7-Octenal, 3,7-dimethyl-	5.51	390	J
06		Unknown Trichloroacetic acid, undecyl ester	5.56	340	J
07	2958-76-1	Naphthalene, decahydro-2-methyl-	5.83	650	JN
08		Unknown Sulfurous acid, butyl decyl ester	6.10	310	J
09		Unknown 1,4-Undecadiene, (Z)-	6.49	320	J
10		Unknown Iridomyrmecin	6.95	430	J
11		Unknown Cyclohexylmethanol, trifluoroacetate (es	7.29	730	J
12		Unknown 4-Nonene, 2,3,3-trimethyl-, (Z)-	7.35	540	J
13		Unknown 3-Methyl-2-(2-oxopropyl)furan	7.50	610	J
14		Unknown Bicyclo[2.2.1]heptane, 1,3,3-trimethyl-	7.67	460	J
15		Unknown Bacchotricuneatin c	7.74	1000	J
16		Unknown 1,2-Benzenediol, O-(4-ethylbenzoyl)-O'-(	8.03	660	J
17		Unknown 2,6,6-Trimethyl-10-methylene-1-oxa-spirc	8.30	470	J
18	74630-23-2	2-Decene, 7-methyl-, (Z)-	8.72	1100	JN
19	55044-98-9	8-Heptadecene, 8-methyl-, (E)-	10.43	700	JN
20	629-54-9	Hexadecanamide	14.15	430	JN
21	301-02-0	9-Octadecenamide, (Z)-	15.07	2000	JNB
22	301-02-0	9-Octadecenamide, (Z)-	16.98	1100	JN
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	13000	J

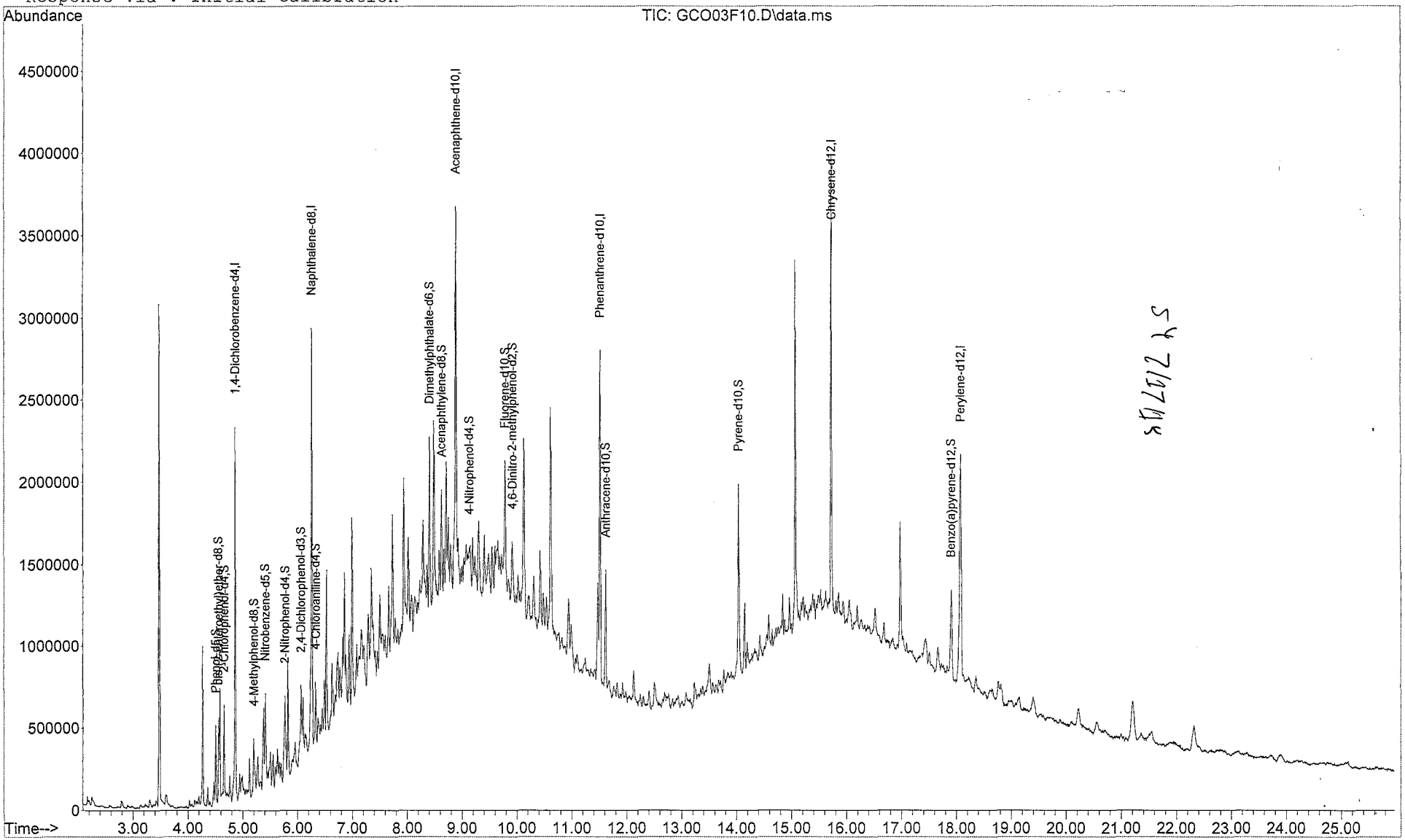
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 16 13:32:22 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



Sy 7/17/15

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GC003F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 16 13:32:22 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	318492	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1148916	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	660246	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1112120	20.00 ug/ml
73) Chrysene-d12	15.73	240	1171938	20.00 ug/ml
81) Perylene-d12	18.08	264	1038498	20.00 ug/ml

System Monitoring Compounds				
2) Phenol-d5	4.51	99	164881	5.949ug/ml m 8 7 7/4/15
6) bis-(2-chloroethyl)ether-d	4.56	67	113483	5.254ug/mL
7) 2-Chlorophenol-d4	4.66	132	141414	6.043ug/ml
13) 4-Methylphenol-d8	5.20	113	81376	4.390ug/mL
17) Nitrobenzene-d5	5.42	128	63366	6.278ug/ml
21) 2-Nitrophenol-d4	5.77	143	68153	6.388ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	103590	6.236ug/mL
28) 4-Chloroaniline-d4	6.33	131	18779	1.036ug/mL
42) Dimethylphthalate-d6	8.41	166	318997	7.705ug/mL
45) Acenaphthylene-d8	8.63	160	378327	6.724ug/mL
50) 4-Nitrophenol-d4	9.14	143	47684	5.646ug/mL
57) Fluorene-d10	9.79	176	274229	7.756ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	38457	4.872ug/mL
69) Anthracene-d10	11.62	188	440987	7.477ug/mL
75) Pyrene-d10	14.04	212	445260	7.613ug/mL
86) Benzo(a)pyrene-d12	17.91	264	368041	7.396ug/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)

: 00224

Quantitation Report

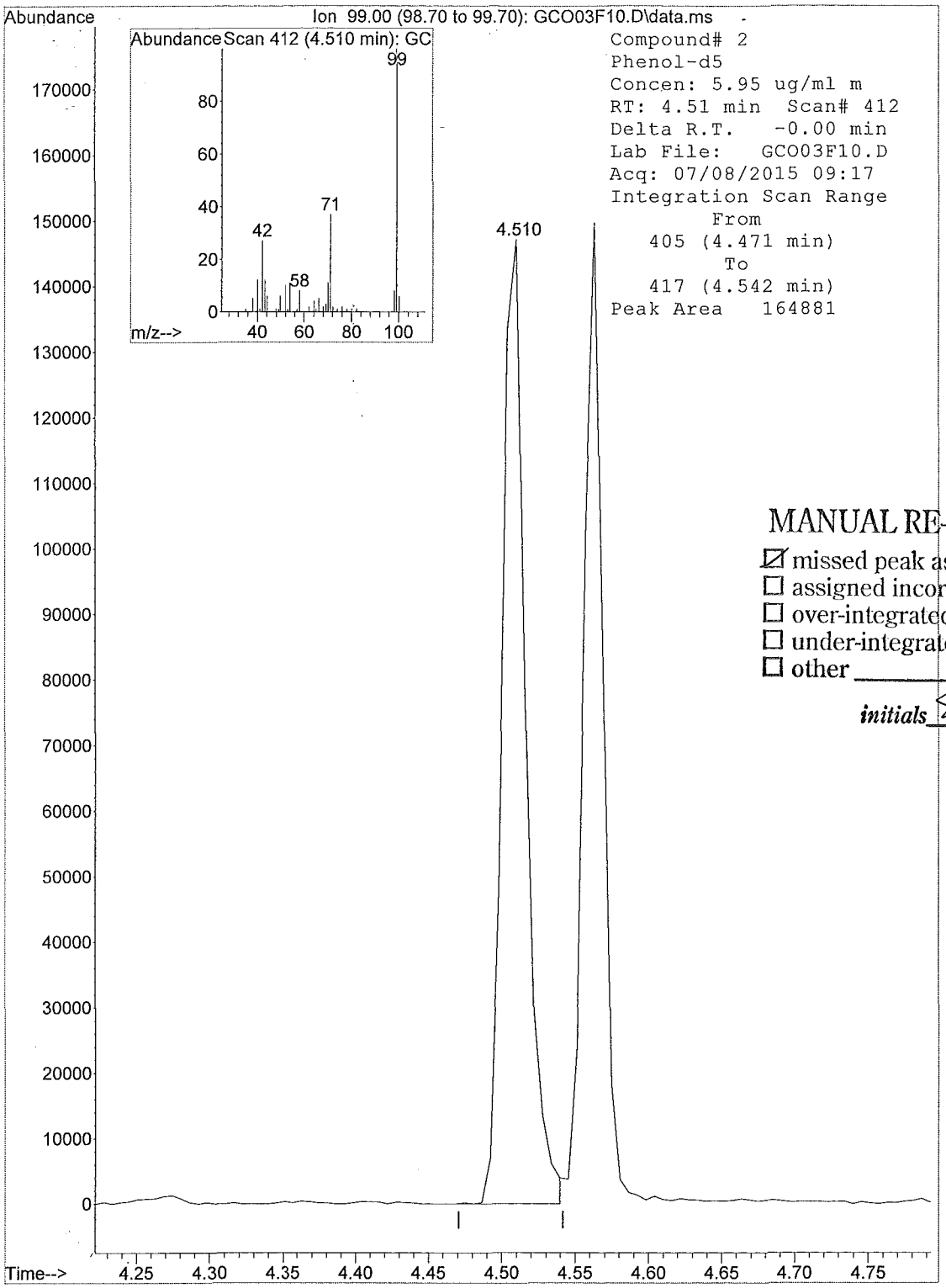
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 16 13:32:22 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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	14.07	202	60146	0.806ug/ml	95
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)

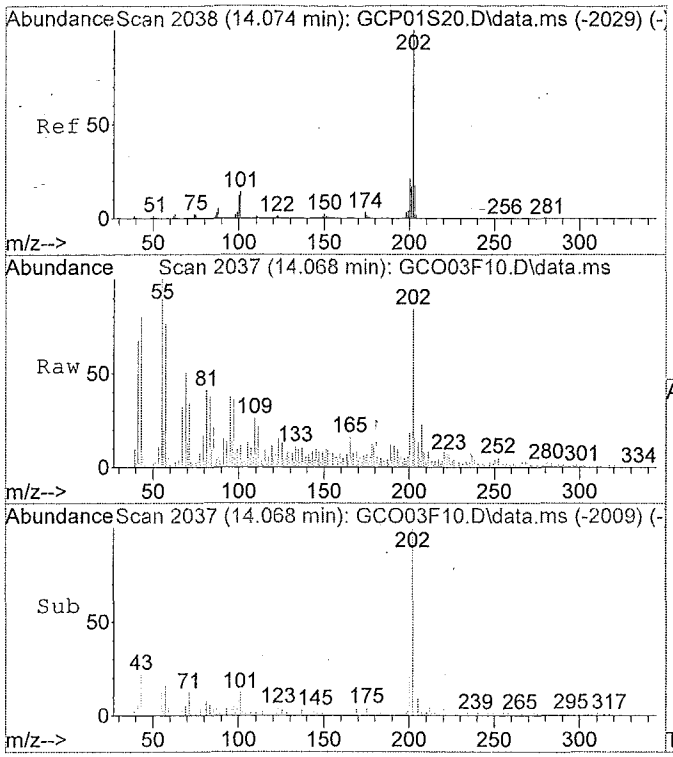
M A N U A L I N T E G R A T I O N FOR Phenol-d5



MANUAL RE-INTEGRATION

☒ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

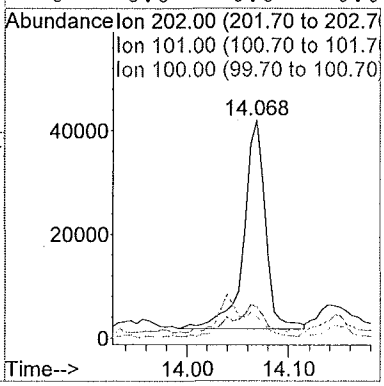
initials SY *date* 7/17/15



#74
Pyrene
Concen: 0.81 ug/ml
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: GCO03F10.D
Acq: 07/08/2015 09:17

Tgt Ion:202 Resp: 60146

Ion	Ratio	Lower	Upper
202	100		
101	17.7	12.2	22.7
100	18.2	10.1	18.7
0	0.0	0.0	0.0



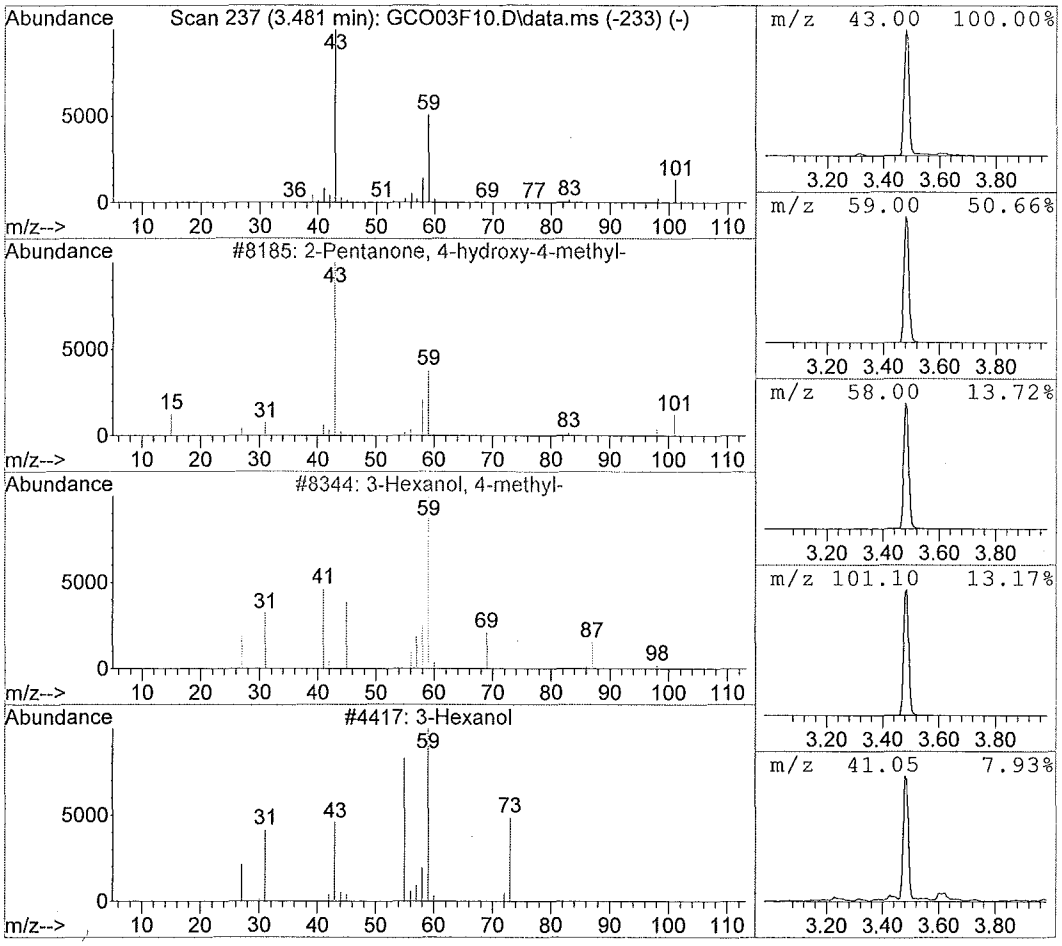
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.48	27.09 ug/ml	3670747	1,4-Dichlorobenzene-d4	2709582

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	3-Hexanol	4417	000623-37-0	33.00
4	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
5	Propane, 2-methyl-2-(1-methylethoxy	8404	017348-59-3	9.00



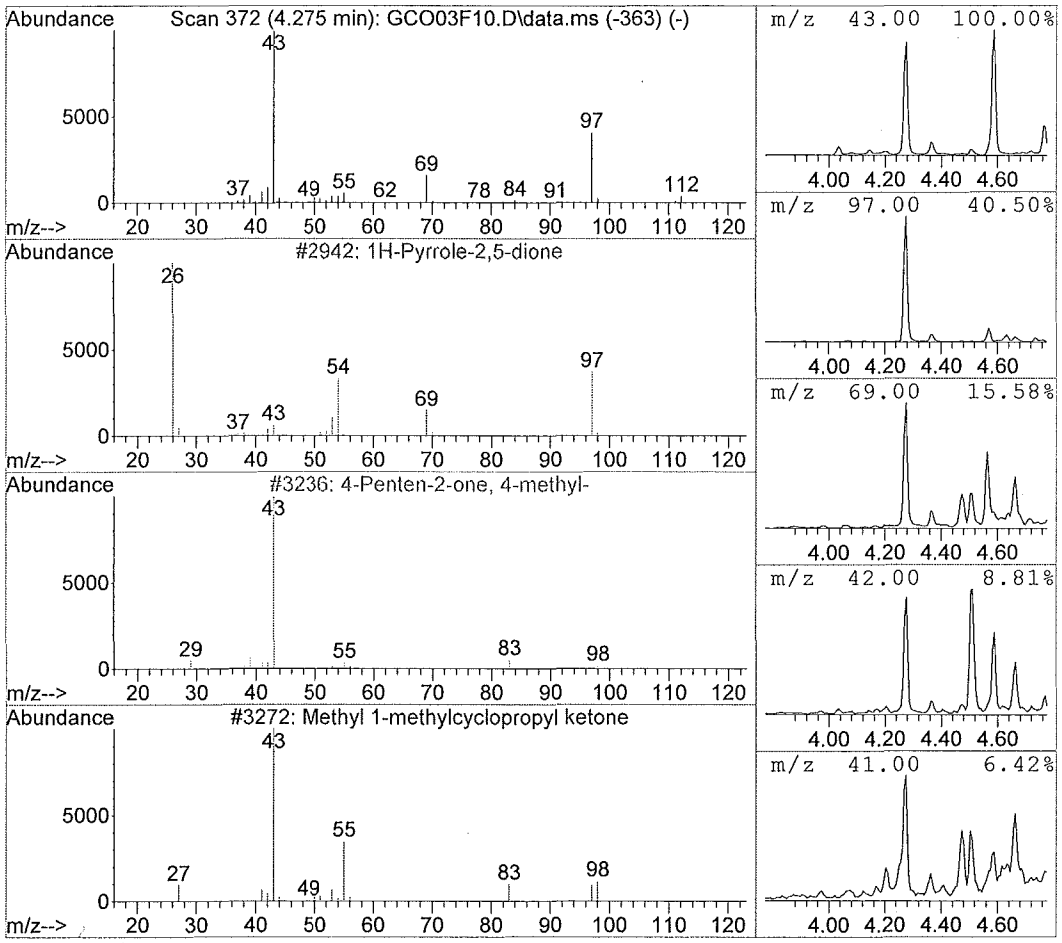
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.27	7.24 ug/ml	980645	1,4-Dichlorobenzene-d4	2709582

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
4	5-Hexen-2-one, 5-methyl-	6517	003240-09-3	5.00
5	2-Propyn-1-ol, acetate	3098	000627-09-8	5.00



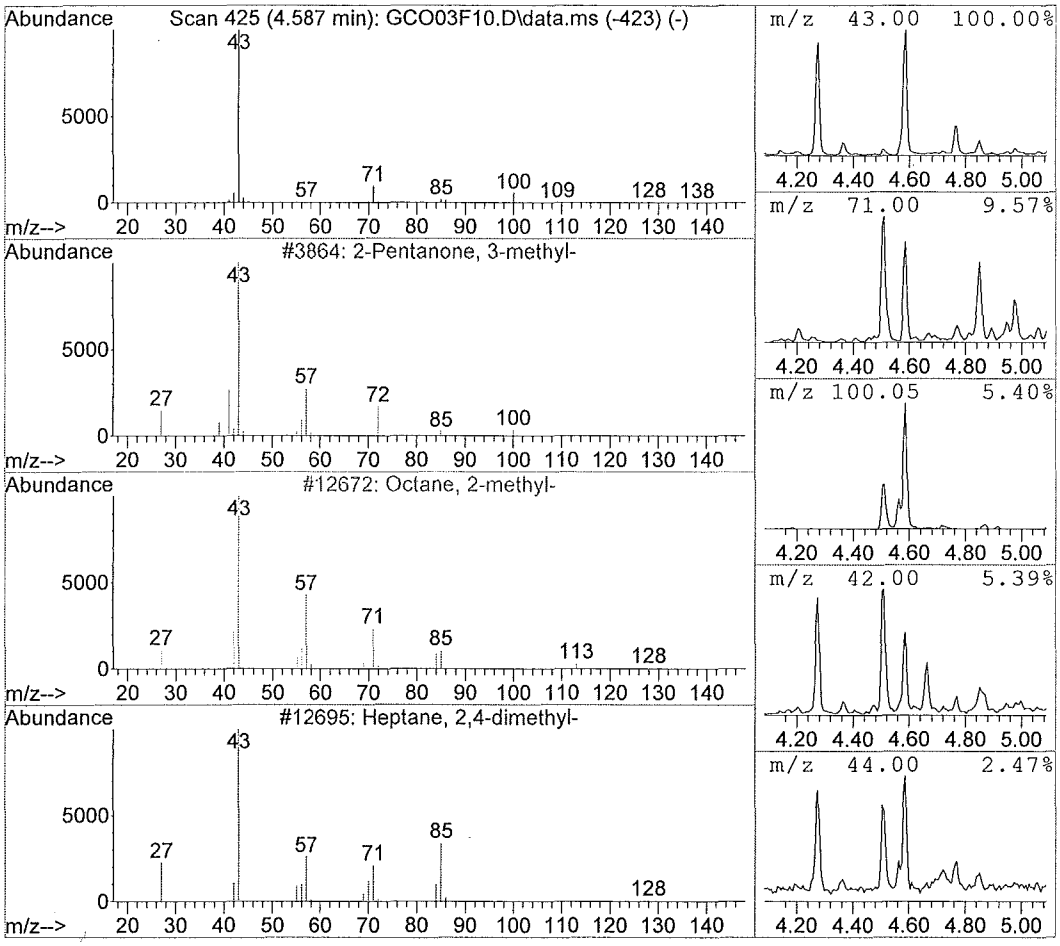
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.59	3.94 ug/ml	533591	1,4-Dichlorobenzene-d4	2709582

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 3-methyl-	3864	000565-61-7	9.00
2	Octane, 2-methyl-	12672	003221-61-2	5.00
3	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
4	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
5	1-Butanol, 2-methylene-, acetate	12273	055670-09-2	5.00



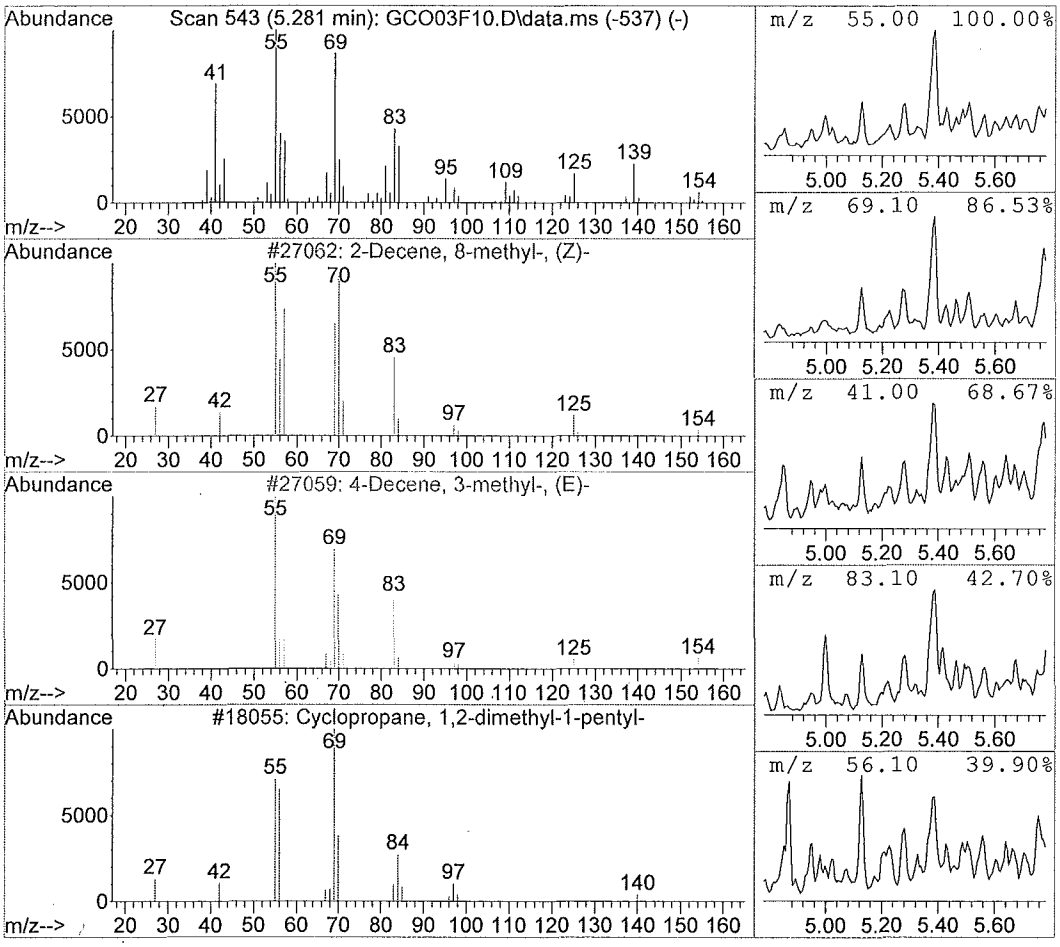
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.28	2.08 ug/ml	282012	1,4-Dichlorobenzene-d4	2709582

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Decene, 8-methyl-, (Z)-	27062	074630-25-4	53.00
2	4-Decene, 3-methyl-, (E)-	27059	062338-47-0	49.00
3	Cyclopropane, 1,2-dimethyl-1-pentyl	18055	062238-04-4	49.00
4	2-Decene, 4-methyl-, (Z)-	27070	074630-30-1	47.00
5	Pentane, 3-methylene-	1492	000760-21-4	47.00



00231

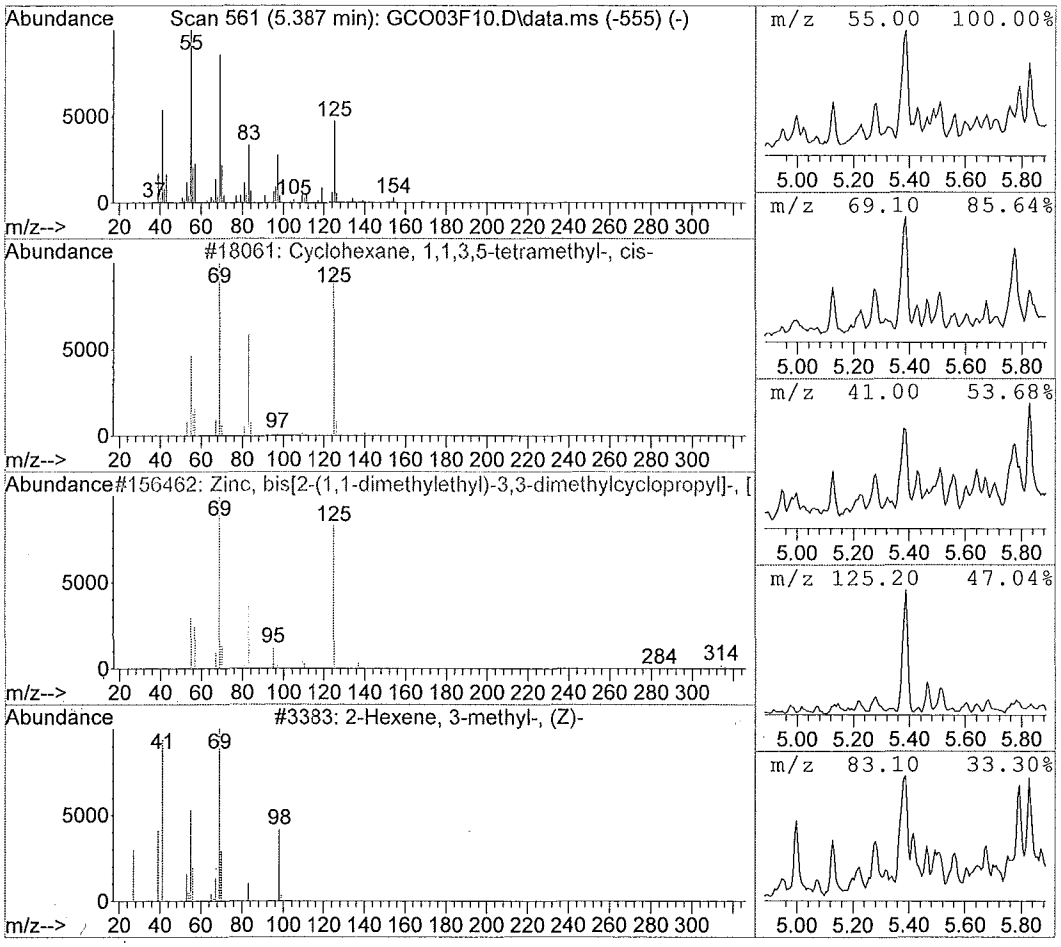
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.39	5.62 ug/ml	760982	1,4-Dichlorobenzene-d4	2709582

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,1,3,5-tetramethyl-, CA	18061	050876-32-9	53.00
2	Zinc, bis[2-(1,1-dimethylethyl)-3,3	156462	074793-36-5	50.00
3	2-Hexene, 3-methyl-, (Z)-	3383	010574-36-4	49.00
4	2-Pentene, 3-ethyl-	3319	000816-79-5	46.00
5	2-Methylthiolane, S,S-dioxide	14998	001003-46-9	43.00



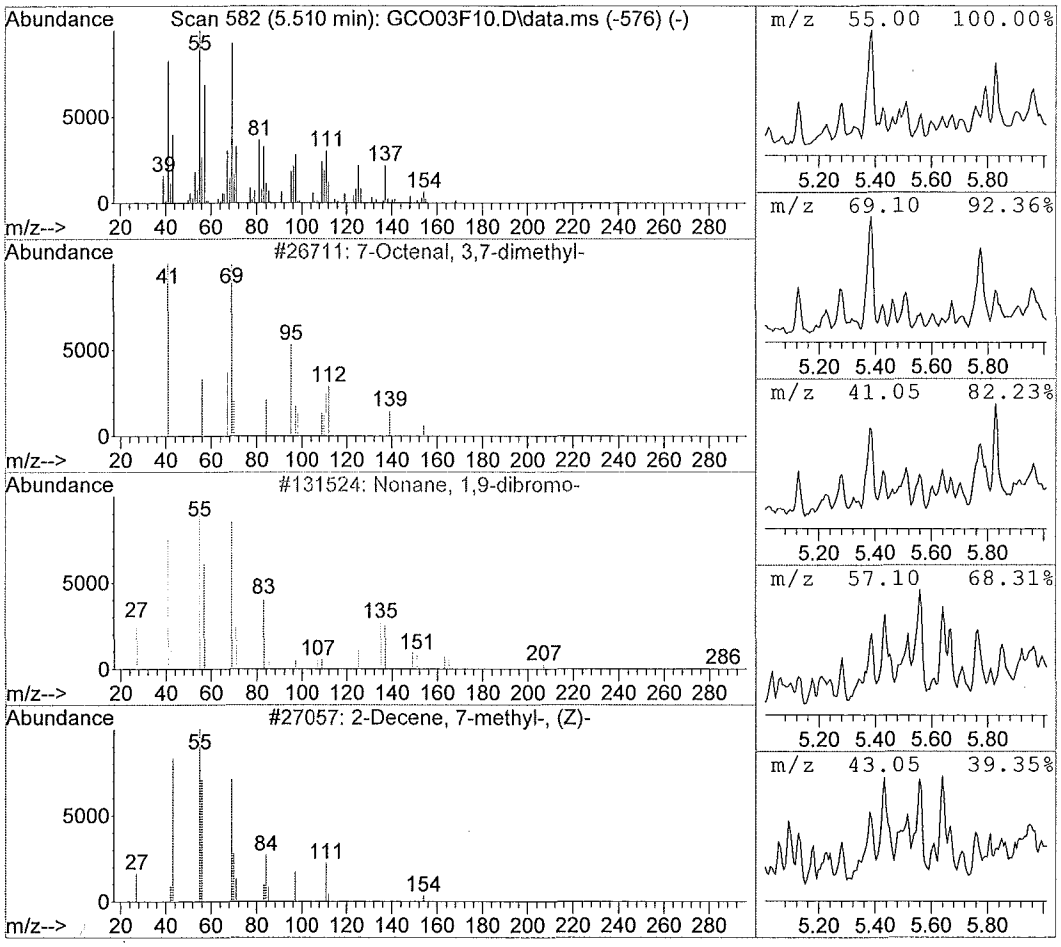
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.51	2.56 ug/ml	347310	1,4-Dichlorobenzene-d4	2709582

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Octenal, 3,7-dimethyl-	26711	000141-26-4	43.00
2	Nonane, 1,9-dibromo-	131524	004549-33-1	38.00
3	2-Decene, 7-methyl-, (Z)-	27057	074630-23-2	38.00
4	1-Hexene, 2,5,5-trimethyl-	11564	062185-56-2	35.00
5	Cyclopentane, 1-butyl-2-ethyl-	27081	072993-32-9	35.00



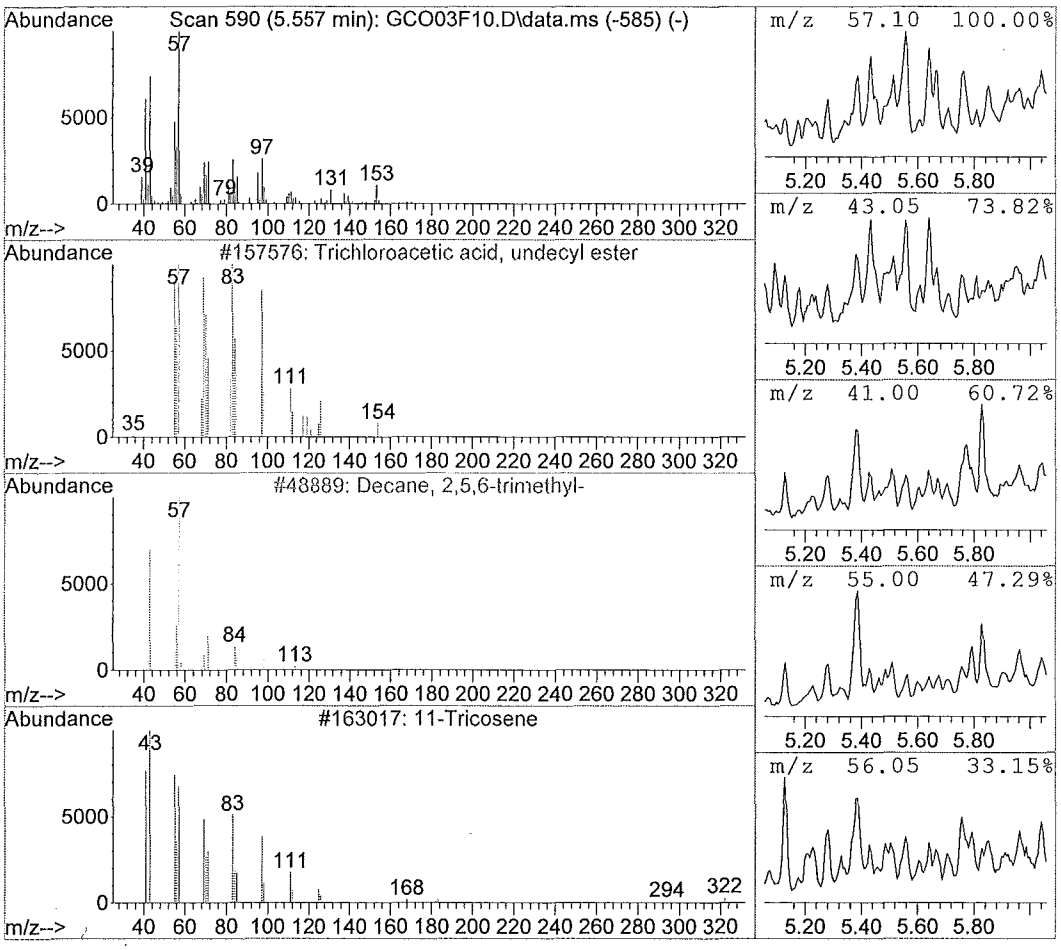
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.56	2.27 ug/ml	307084	1,4-Dichlorobenzene-d4	2709582

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Trichloroacetic acid, undecyl ester	157576	074339-49-4	47.00
2	Decane, 2,5,6-trimethyl-	48889	062108-23-0	47.00
3	11-Tricosene	163017	052078-56-5	46.00
4	Silane, trichlorodocosyl-	225279	007325-84-0	43.00
5	Acetic acid, trichloro-, nonyl este	133954	065611-32-7	38.00



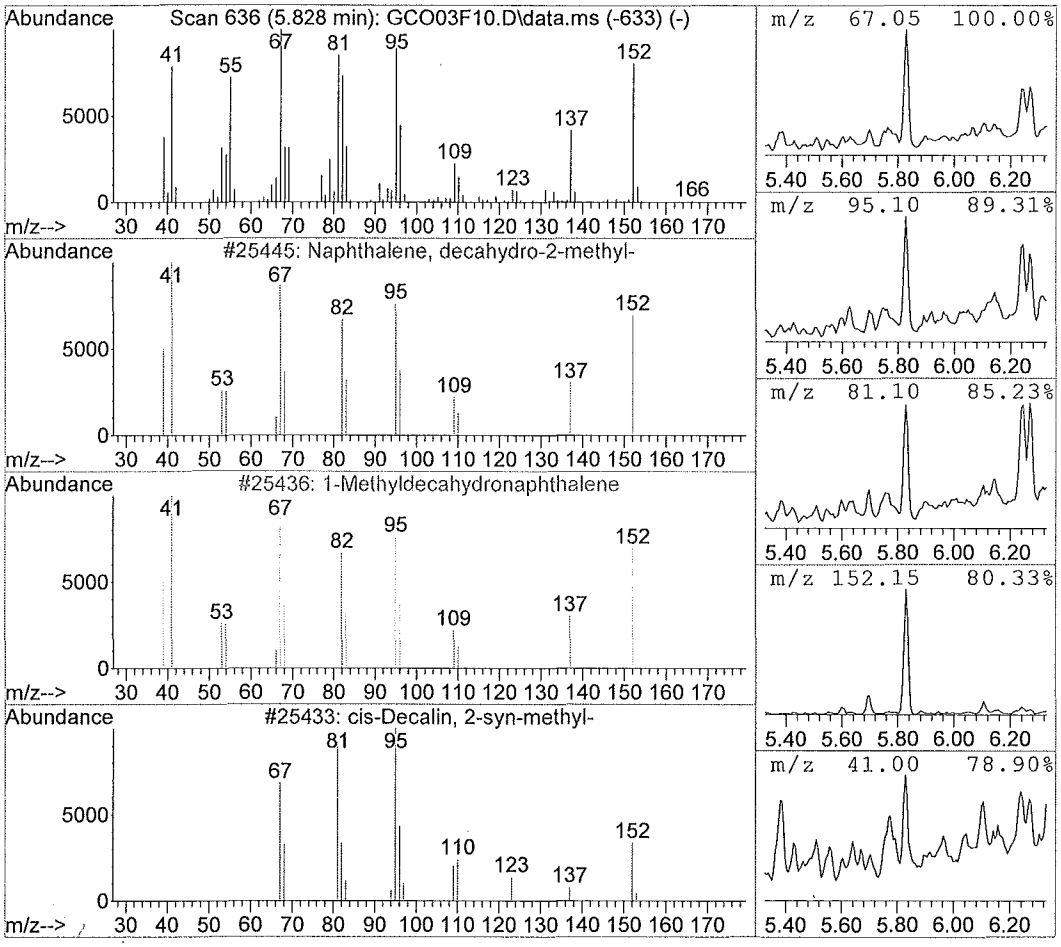
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.83	4.27 ug/ml	767447	Naphthalene-d8	3596924

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	25445	002958-76-1	96.00
2	1-Methyldecahydronaphthalene	25436	002958-75-0	96.00
3	cis-Decalin, 2-syn-methyl-	25433	1000155-85-6	83.00
4	trans-Decalin, 2-methyl-	25429	1000152-47-3	76.00
5	Spiro[5.5]undecane	25411	000180-43-8	60.00



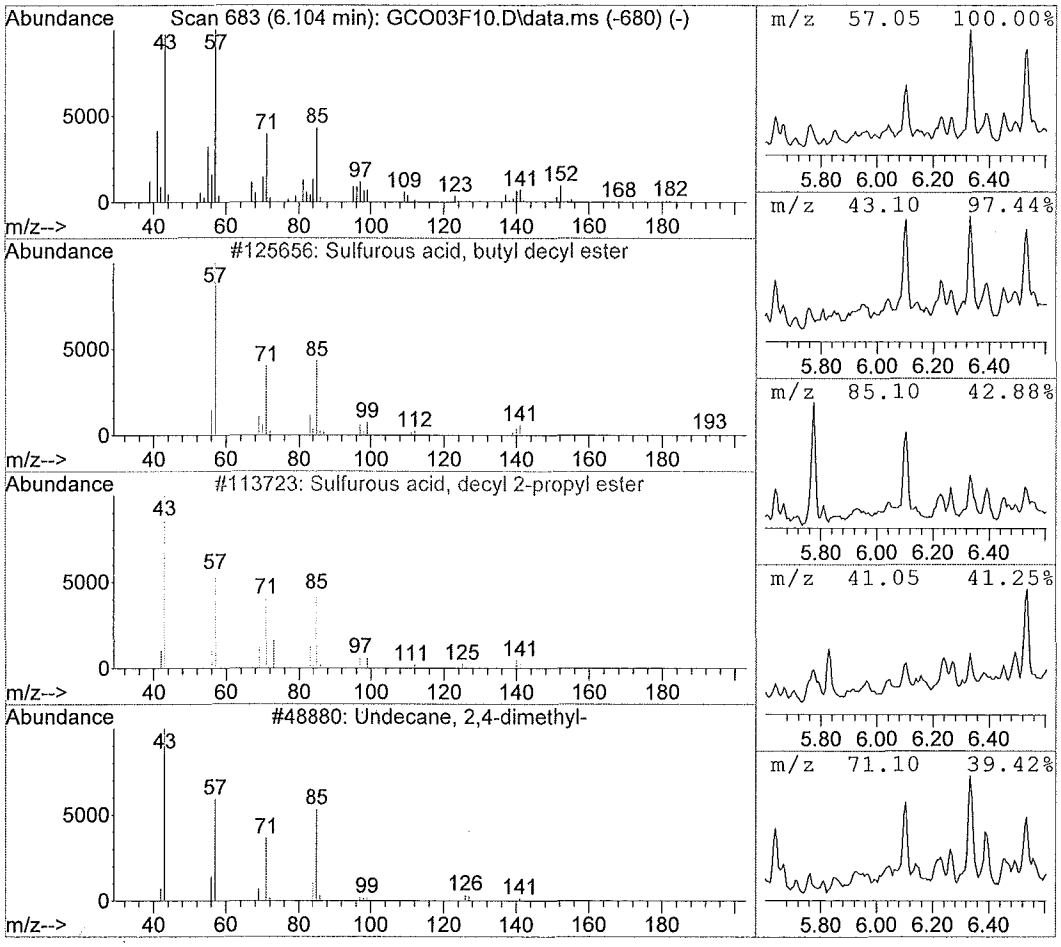
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.10	2.05 ug/ml	368952	Naphthalene-d8	3596924

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Sulfurous acid, butyl decyl ester	125656	1000309-17-7	72.00
2	Sulfurous acid, decyl 2-propyl este	113723	1000309-12-1	53.00
3	Undecane, 2,4-dimethyl-	48880	017312-80-0	50.00
4	Undecane, 2,7-dimethyl-	48861	017301-24-5	50.00
5	Nonane	12662	000111-84-2	47.00



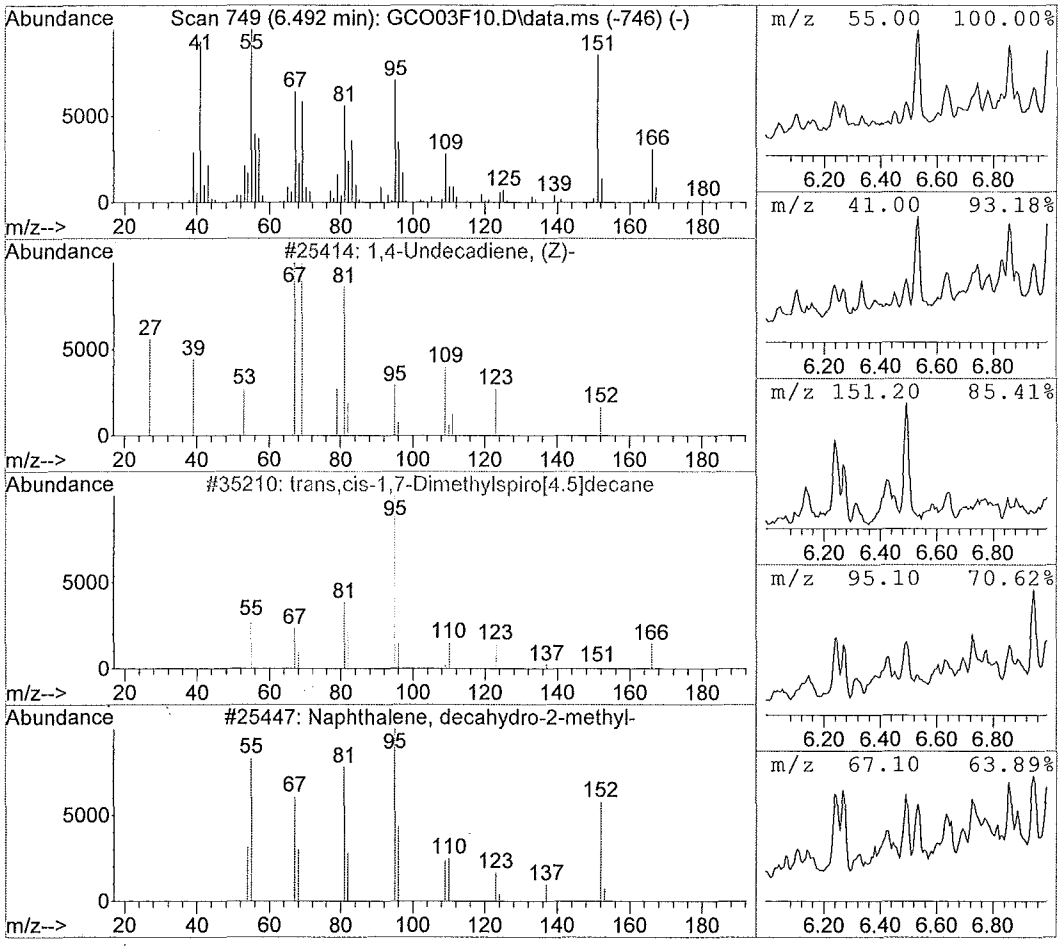
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.49	2.08 ug/ml	373881	Naphthalene-d8	3596924

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,4-Undecadiene, (Z)-	25414	055976-14-2	35.00
2	trans,cis-1,7-Dimethylspiro[4.5]dec	35210	1000111-72-7	30.00
3	Naphthalene, decahydro-2-methyl-	25447	002958-76-1	30.00
4	1-Cyclohexylheptene	45720	114614-83-4	30.00
5	trans,trans-1,6-Dimethylspiro[4.5]d	35215	1000111-72-1	30.00



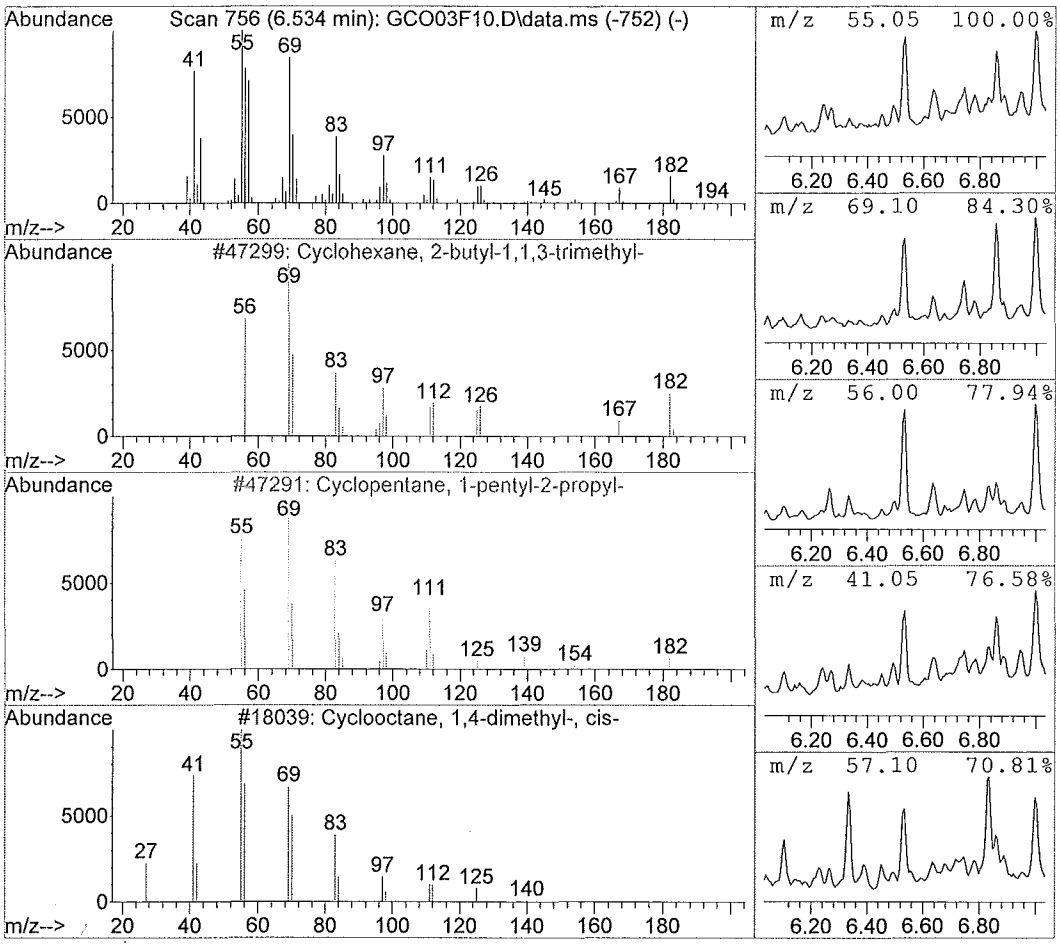
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.53	6.46 ug/ml	1162074	Naphthalene-d8	3596924

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 2-butyl-1,1,3-trimethy (A	47299	054676-39-0	97.00
2	Cyclopentane, 1-pentyl-2-propyl-	47291	062199-51-3	80.00
3	Cyclooctane, 1,4-dimethyl-, cis-	18039	013151-99-0	76.00
4	6-Tridecene, (Z)-	47277	006508-77-6	76.00
5	2-Tridecene, (E)-	47274	041446-58-6	72.00



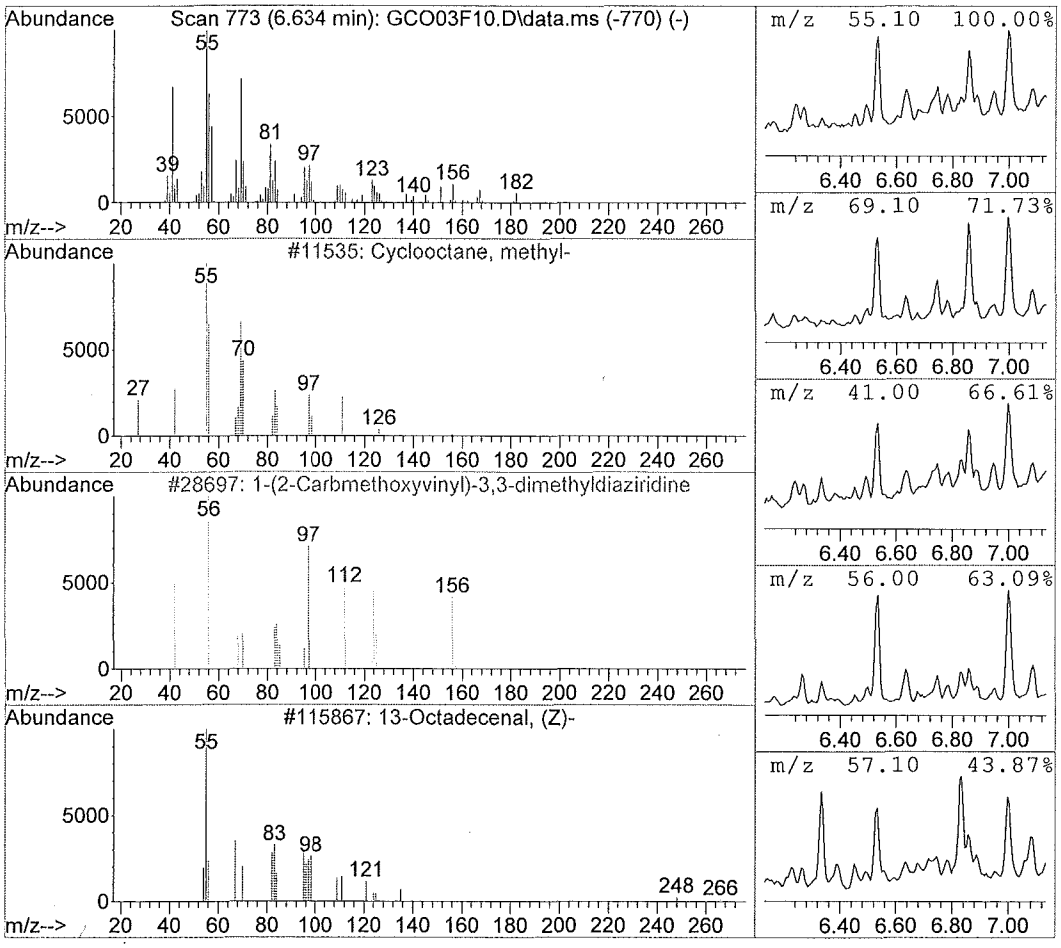
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.63	2.60 ug/ml	467159	Naphthalene-d8	3596924

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclooctane, methyl- CA	11535	001502-38-1	41.00
2	1-(2-Carbmethoxyvinyl)-3,3-dimethyl	28697	054897-24-4	30.00
3	13-Octadecenal, (Z)-	115867	058594-45-9	27.00
4	1-Tridecene	47265	002437-56-1	20.00
5	1-Hexene, 3-methyl-	3327	003404-61-3	18.00



Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.83	2.56 ug/ml	460220	Naphthalene-d8	3596924

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 7-methyl-	59891	026730-14-3	83.00
2	Octane, 2,3,7-trimethyl-	28444	062016-34-6	72.00
3	Dodecane, 2,6,11-trimethyl-	71411	031295-56-4	64.00
4	Nonane, 3-methyl-	19170	005911-04-6	64.00
5	Undecane, 6-ethyl-	48843	017312-60-6	59.00

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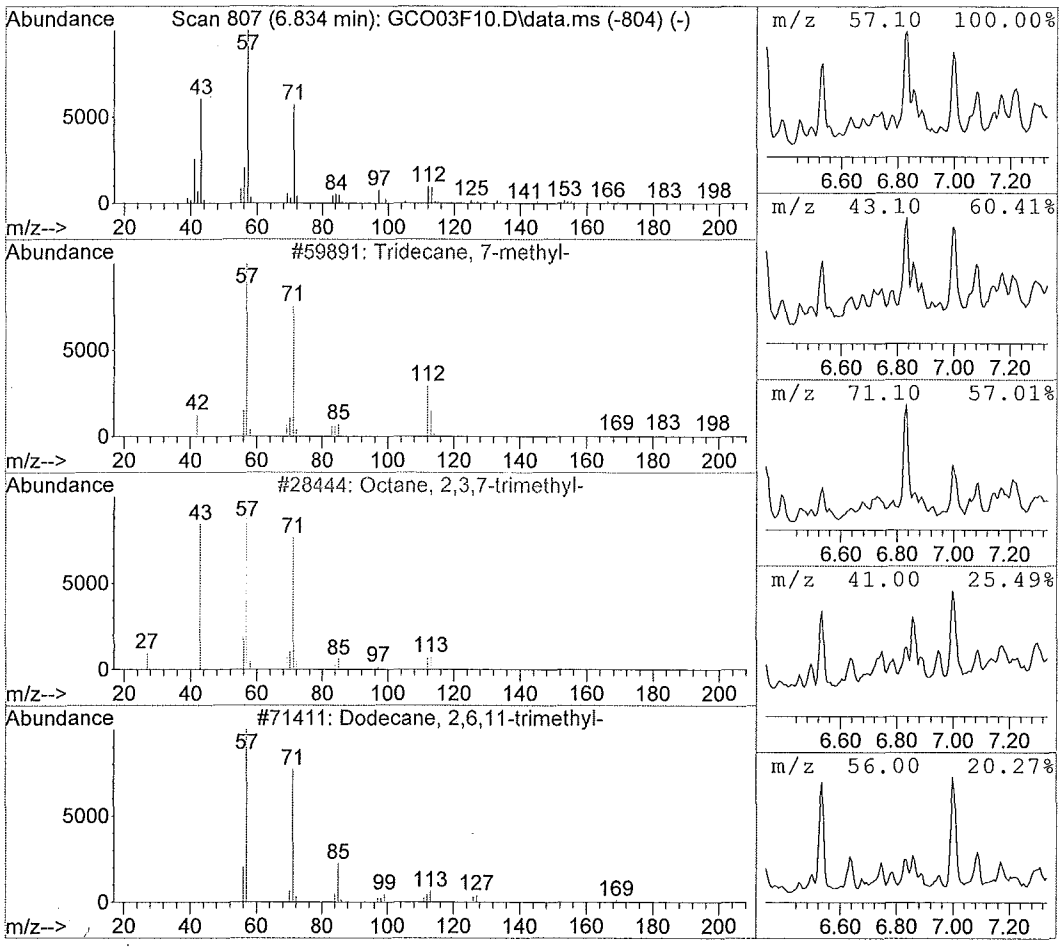


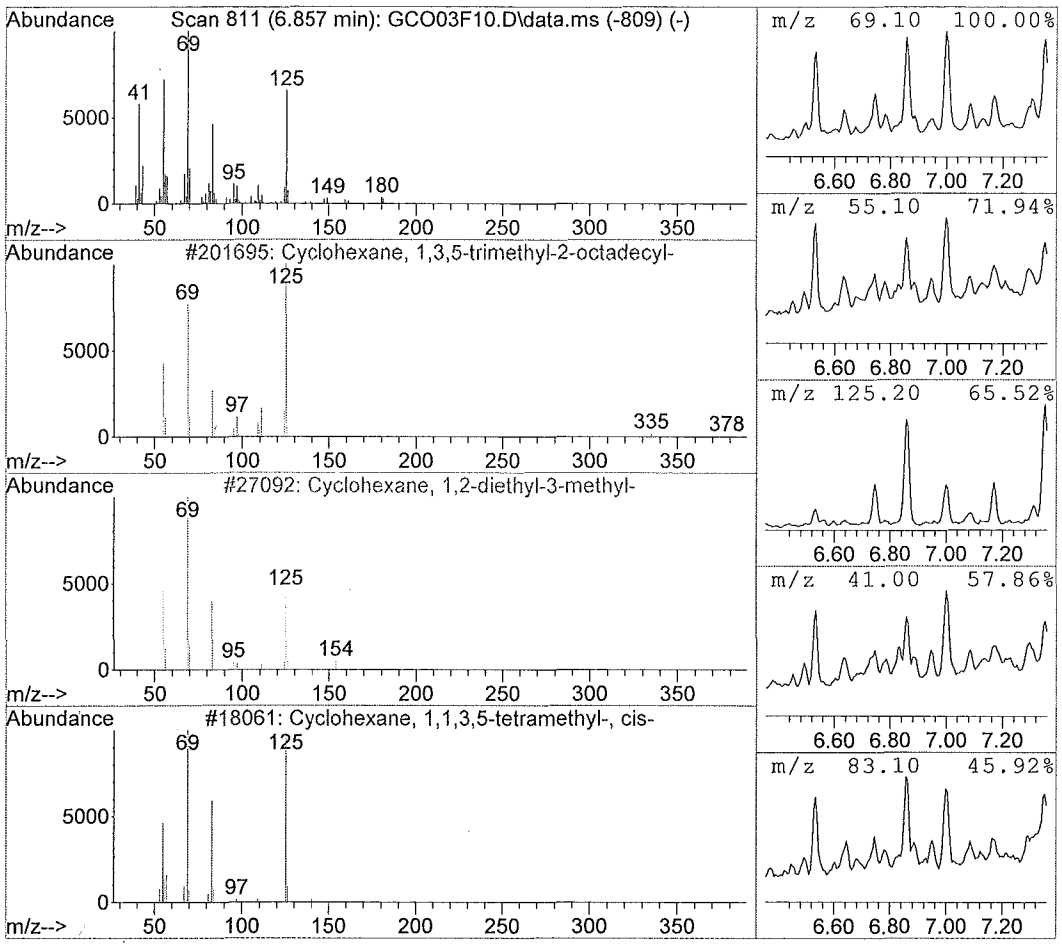
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.86	4.74 ug/ml	851778	Naphthalene-d8	3596924

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,3,5-trimethyl-2-octa CA	201695	055282-34-3	72.00
2	Cyclohexane, 1,2-diethyl-3-methyl-	27092	061141-80-8	64.00
3	Cyclohexane, 1,1,3,5-tetramethyl-,	18061	050876-32-9	59.00
4	Zinc, bis[2-(1,1-dimethylethyl)-3,3	156462	074793-36-5	59.00
5	Cyclooctane, 1-methyl-3-propyl-	36851	255885-37-1	53.00



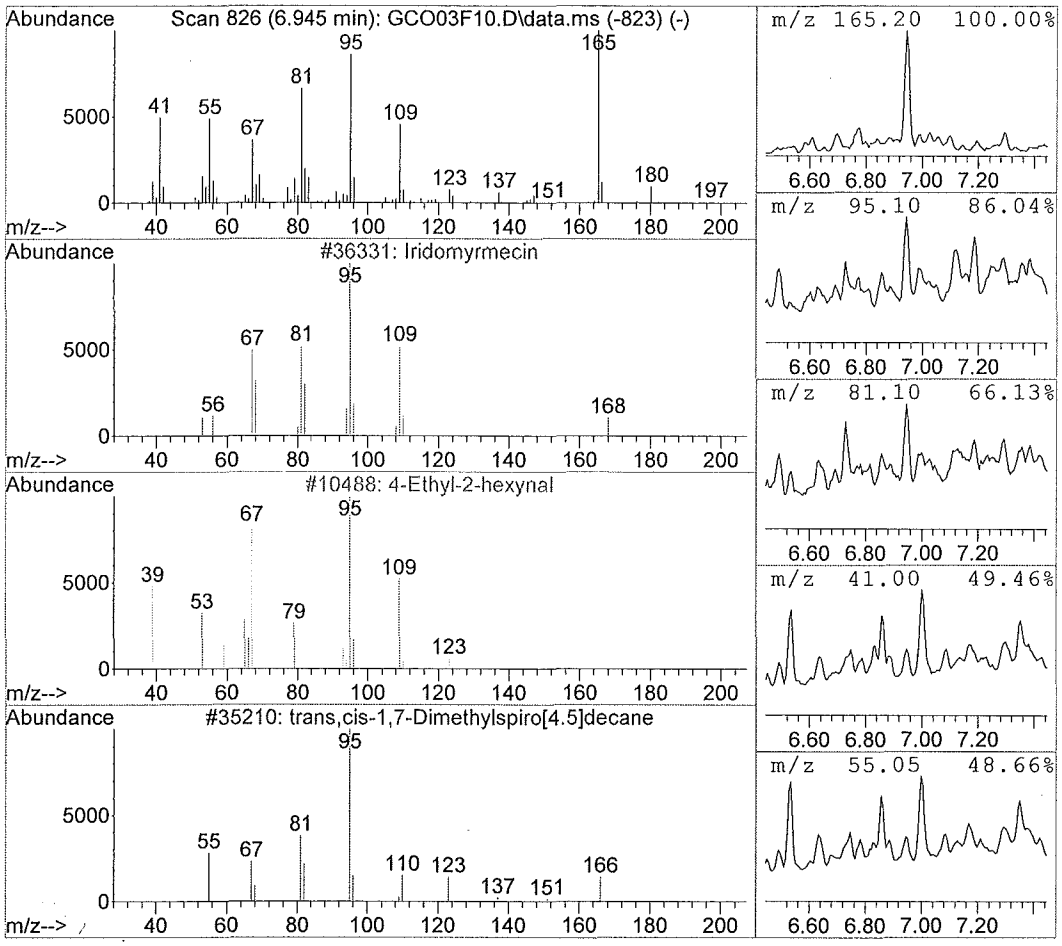
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.95	2.84 ug/ml	510040	Naphthalene-d8	3596924

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Iridomyrmecin	36331	000485-43-8	47.00
2	4-Ethyl-2-hexynal	10488	071932-97-3	45.00
3	trans,cis-1,7-Dimethylspiro[4.5]dec	35210	1000111-72-7	38.00
4	Bicyclo[3.1.0]hexane, 1,5-dimethyl-	6031	1000142-17-5	35.00
5	4-Methyl-1-prop-1-ynyl-cyclohexanol	25201	1000362-94-7	35.00



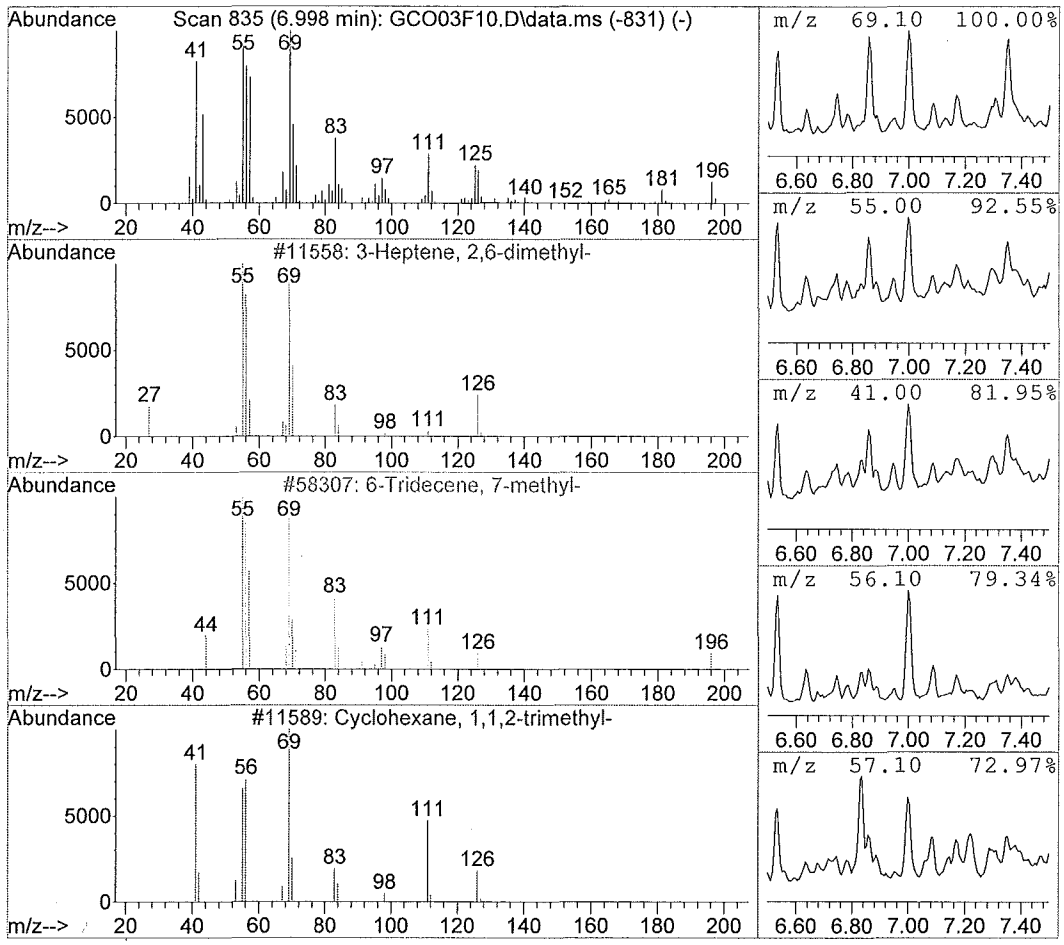
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.00	9.23 ug/ml	1660781	Naphthalene-d8	3596924

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Heptene, 2,6-dimethyl-	11558	002738-18-3	68.00
2	6-Tridecene, 7-methyl-	58307	024949-42-6	64.00
3	Cyclohexane, 1,1,2-trimethyl-	11589	007094-26-0	62.00
4	trans-2-Methyl-3-octene	11549	052937-36-7	58.00
5	Cyclopropane, 1,1-dimethyl-2-nonyl-	58320	041977-38-2	58.00



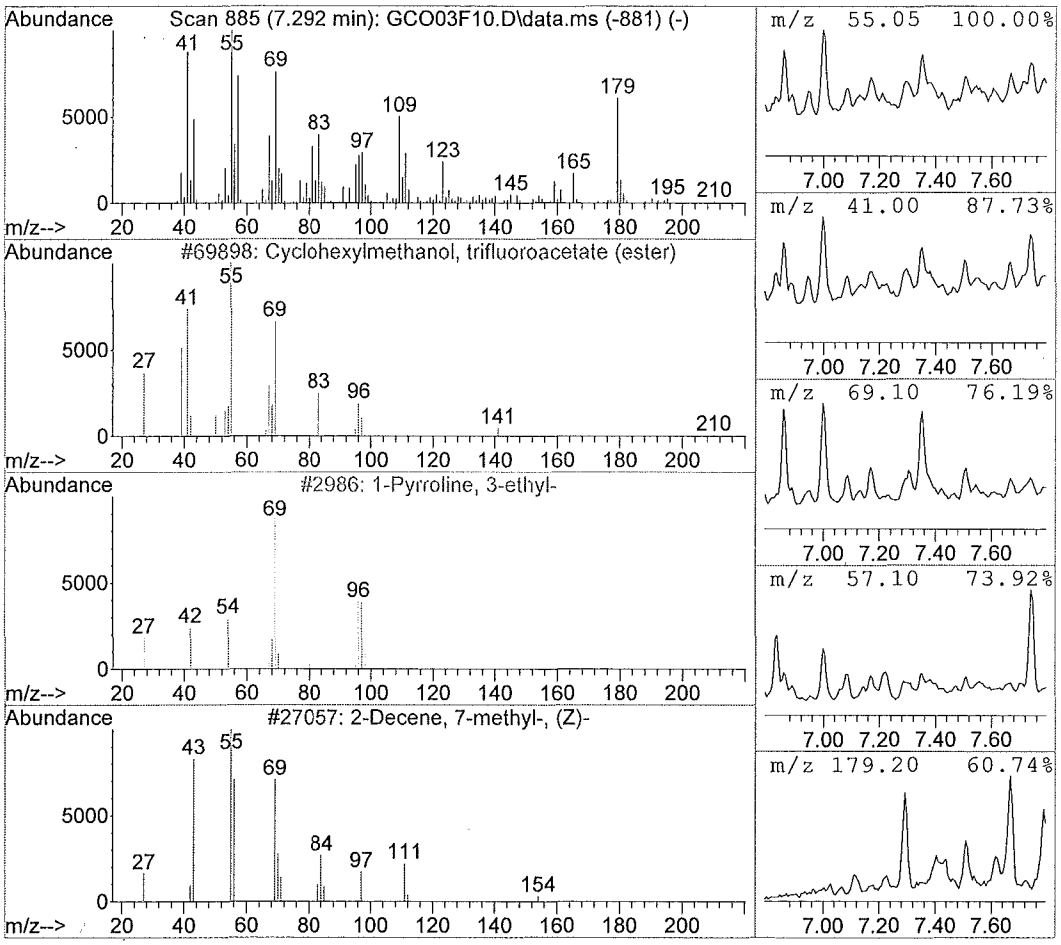
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.29	4.79 ug/ml	862123	Naphthalene-d8	3596924

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexylmethanol, trifluoroacetat	69898	164071-20-9	43.00
2	1-Pyrroline, 3-ethyl-	2986	1000073-06-0	30.00
3	2-Decene, 7-methyl-, (Z)-	27057	074630-23-2	25.00
4	Cyclopentane, (2-methylbutyl)-	18023	053366-38-4	22.00
5	Cyclohexane, 1,2,4-trimethyl-	11592	002234-75-5	22.00



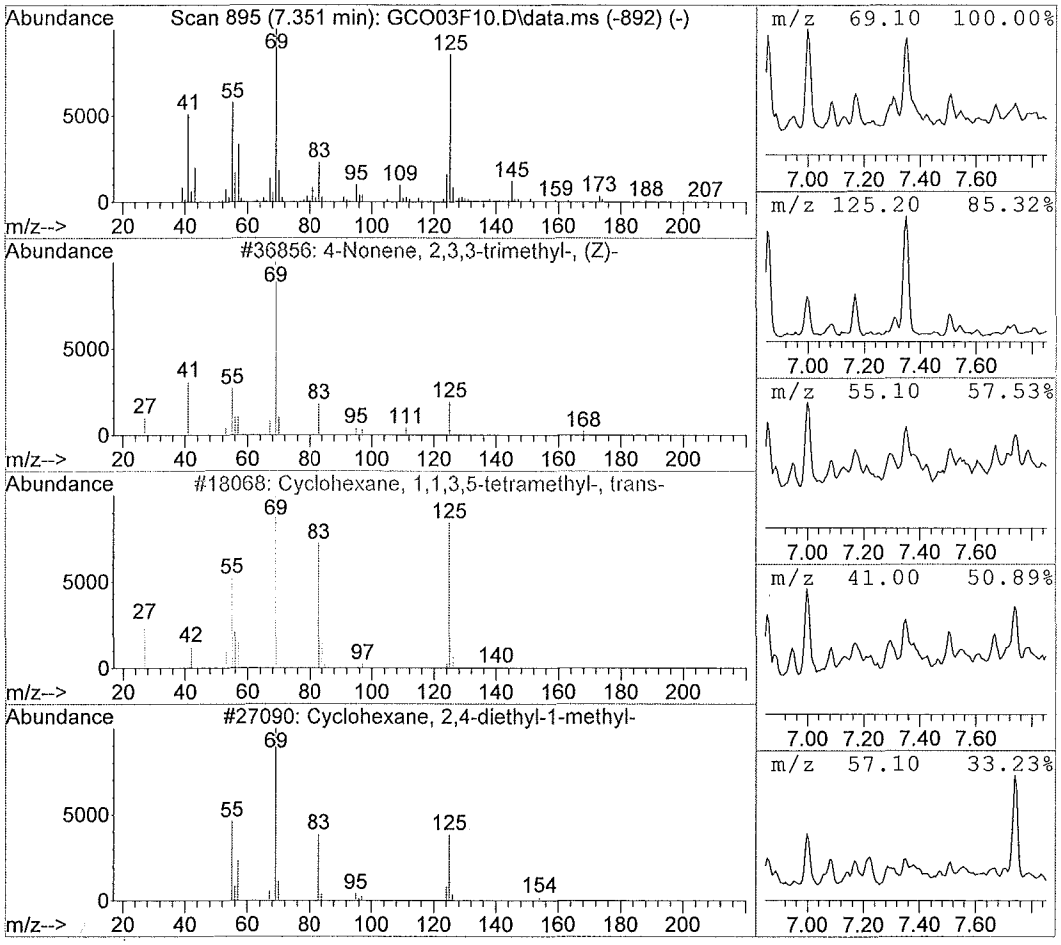
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.35	3.52 ug/ml	633878	Naphthalene-d8	3596924

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Nonene, 2,3,3-trimethyl-, (Z)-	36856	063830-68-2	64.00
2	Cyclohexane, 1,1,3,5-tetramethyl-,	18068	050876-31-8	58.00
3	Cyclohexane, 2,4-diethyl-1-methyl-	27090	061142-70-9	45.00
4	Cyclohexanecarboxylic acid, 4-propy	203443	075941-50-3	45.00
5	4N-Methylcytosine	10751	006220-47-9	38.00



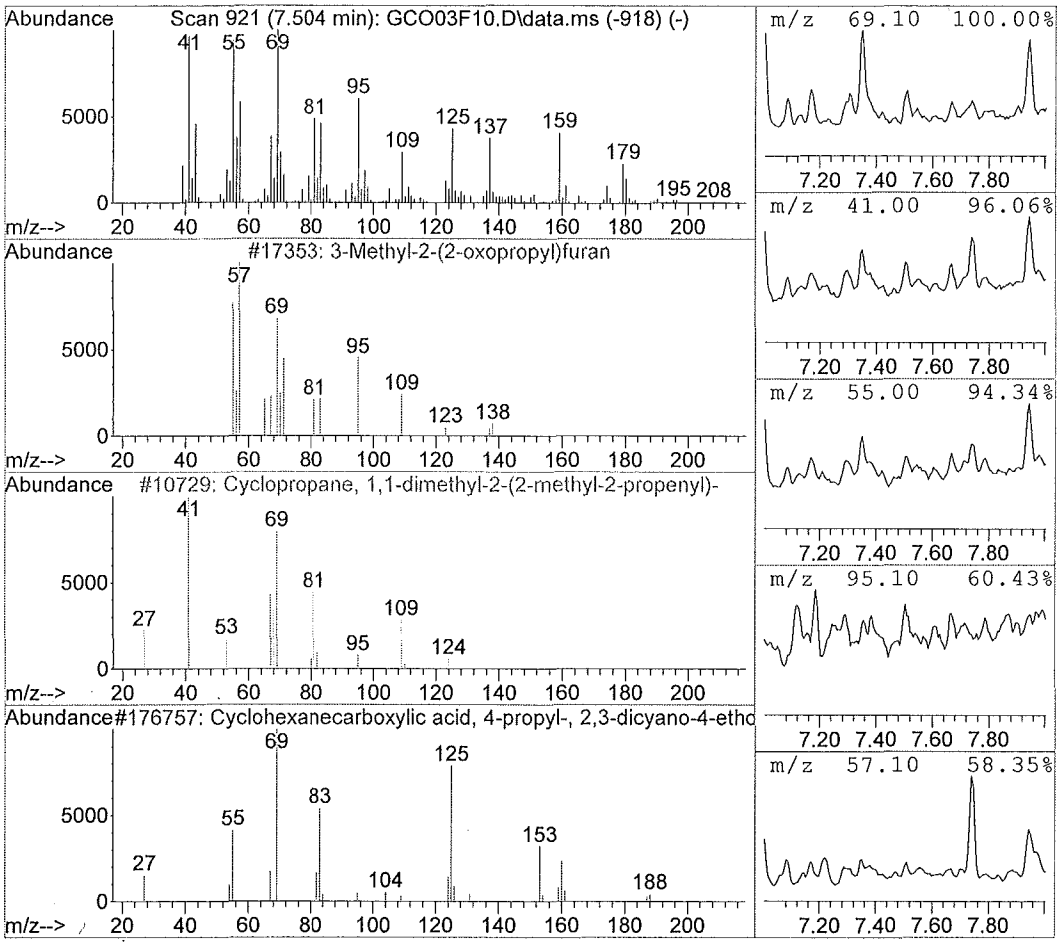
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.50	4.03 ug/ml	725087	Naphthalene-d8	3596924

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Methyl-2-(2-oxopropyl)furan	17353	087773-62-4	43.00
2	Cyclopropane, 1,1-dimethyl-2-(2-met	10729	069147-03-1	42.00
3	Cyclohexanecarboxylic acid, 4-propy	176757	133856-82-3	38.00
4	2-Octene, 2-methyl-6-methylene-	16921	010054-09-8	27.00
5	6,11-Dimethyl-2,6,10-dodecatrien-1-	67856	1000196-53-3	22.00



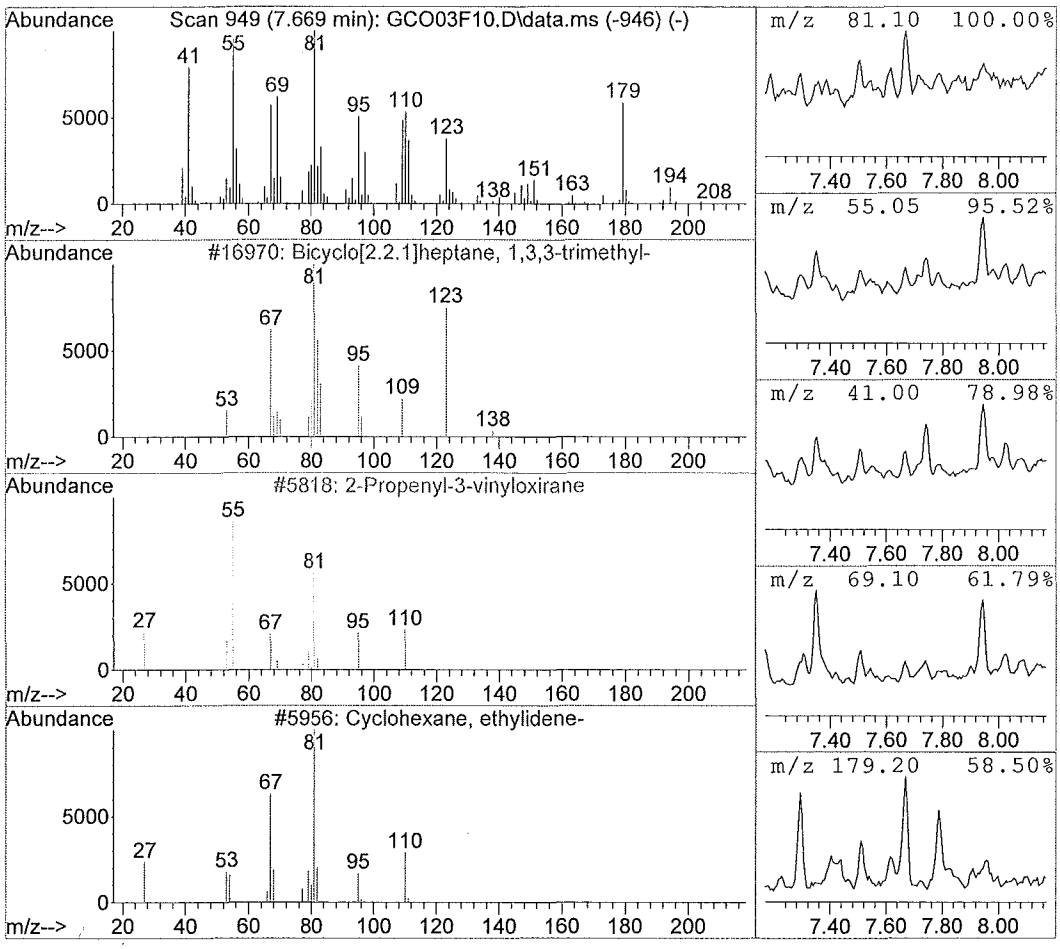
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.67	3.05 ug/ml	455942	Acenaphthene-d10	2985050

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bicyclo[2.2.1]heptane, 1,3,3-trimet	16970	006248-88-0	43.00
2	2-Propenyl-3-vinyloxirane	5818	070597-49-8	38.00
3	Cyclohexane, ethylidene-	5956	001003-64-1	38.00
4	2-Ethylcyclohexanol, heptafluorobut	163663	959079-92-6	35.00
5	Cyclohexene, 1-ethyl-	5937	001453-24-3	27.00



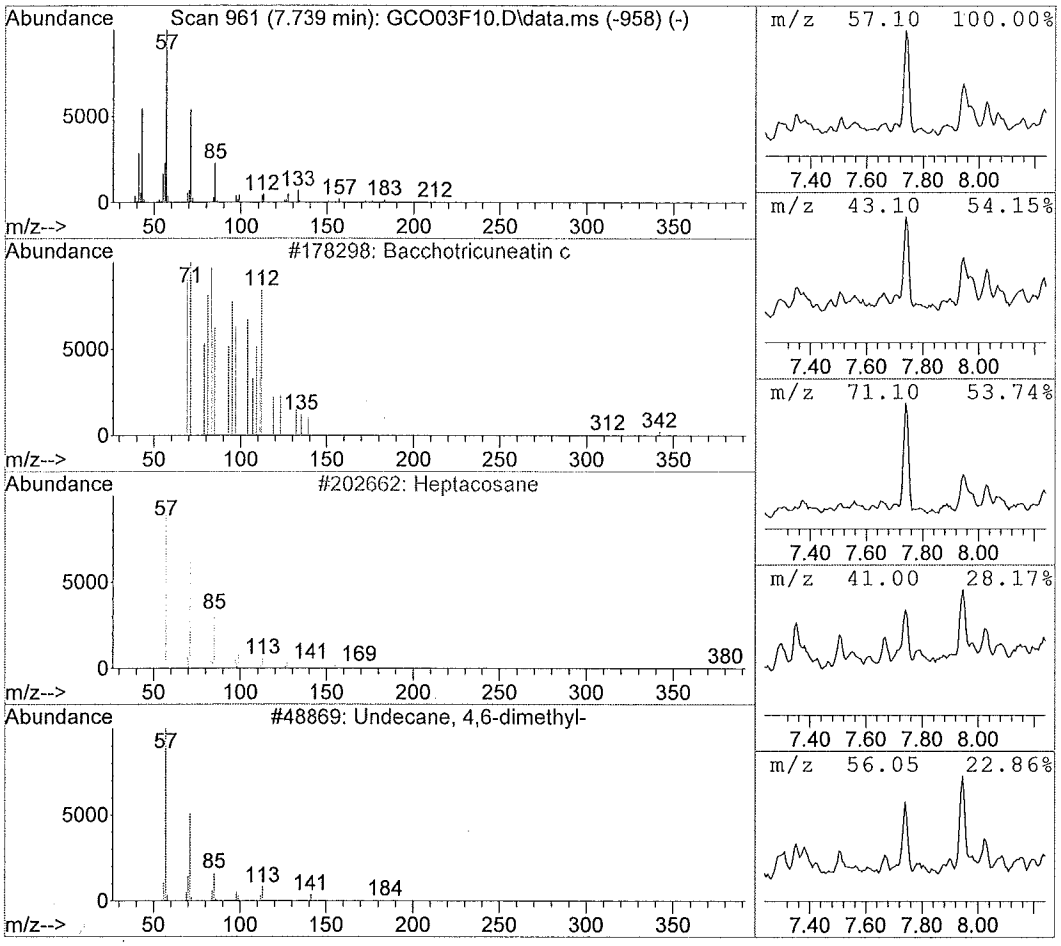
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.74	6.76 ug/ml	1009502	Acenaphthene-d10	2985050

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bacchotricuneatin c	178298	066563-30-2	68.00
2	Heptacosane	202662	000593-49-7	64.00
3	Undecane, 4,6-dimethyl-	48869	017312-82-2	64.00
4	Nonane, 3,7-dimethyl-	28441	017302-32-8	64.00
5	Dodecane, 2,7,10-trimethyl-	71407	074645-98-0	58.00



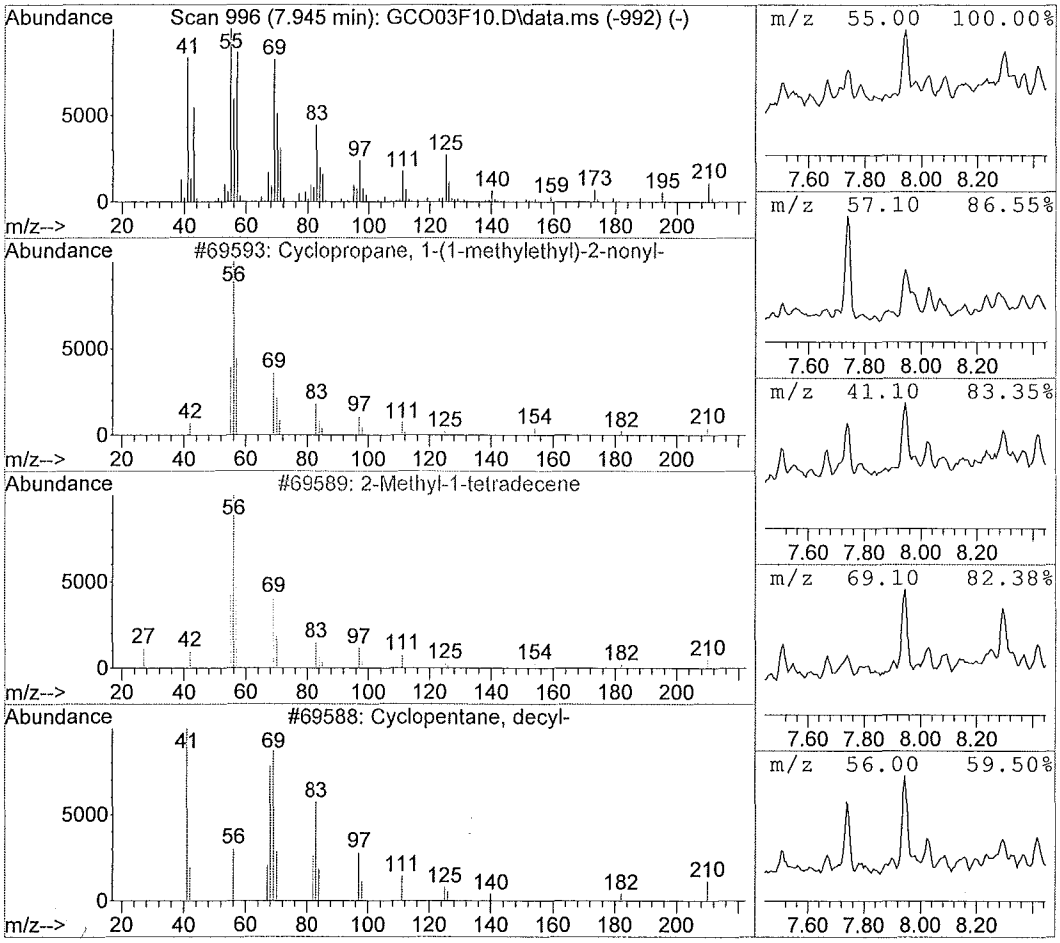
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.95	8.45 ug/ml	1261600	Acenaphthene-d10	2985050

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclopropane, 1-(1-methylethyl)-2-n CA	69593	041977-39-3	89.00
2	2-Methyl-1-tetradecene	69589	052254-38-3	81.00
3	Cyclopentane, decyl-	69588	001795-21-7	70.00
4	3-Nonene, (E)-	11513	020063-92-7	70.00
5	4-Undecene, (E)-	27039	000693-62-9	68.00



: 00249

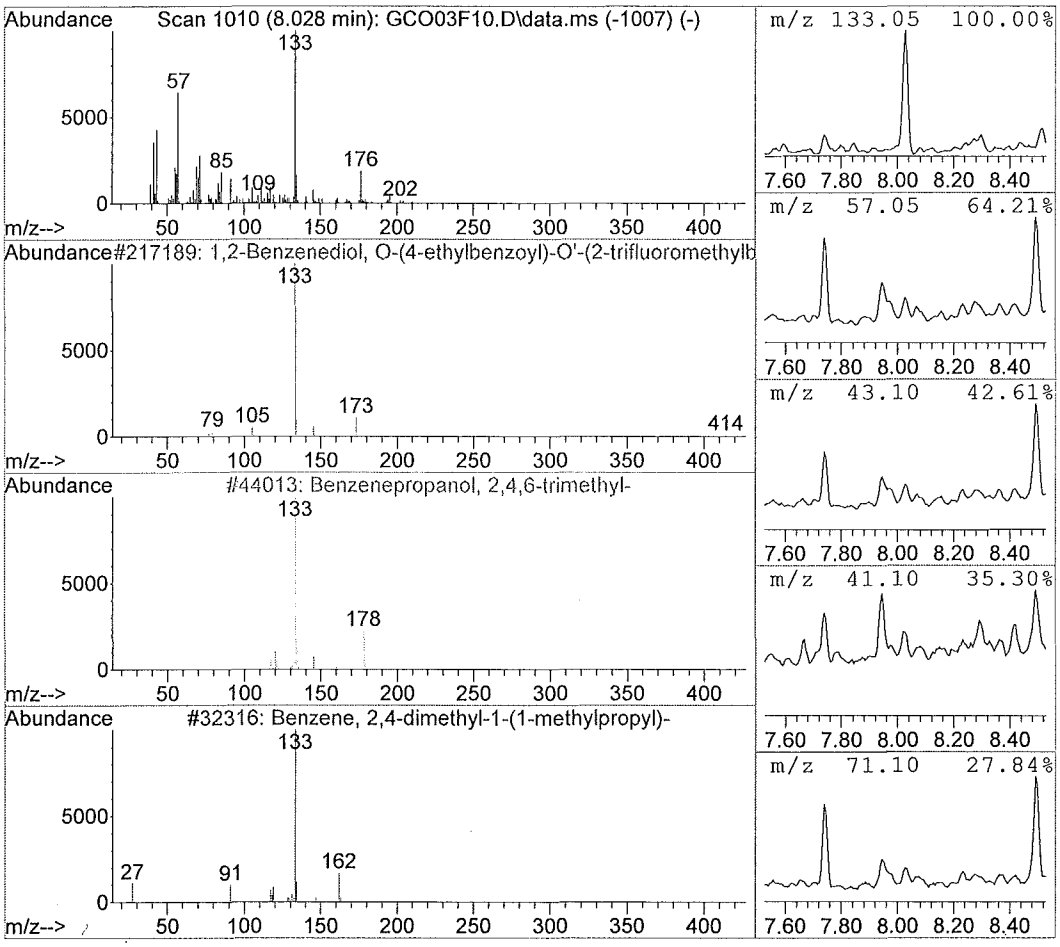
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.03	4.31 ug/ml	643971	Acenaphthene-d10	2985050

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Benzenediol, O-(4-ethylbenzoyl)	217189	1000330-50-5	50.00
2	Benzenepropanol, 2,4,6-trimethyl-	44013	027645-07-4	49.00
3	Benzene, 2,4-dimethyl-1-(1-methylpr	32316	001483-60-9	47.00
4	Benzene, 2-(chloromethyl)-1,3,5-tri	36313	001585-16-6	47.00
5	Benzene, 1,3,5-trimethyl-2-propyl-	32297	004810-04-2	47.00



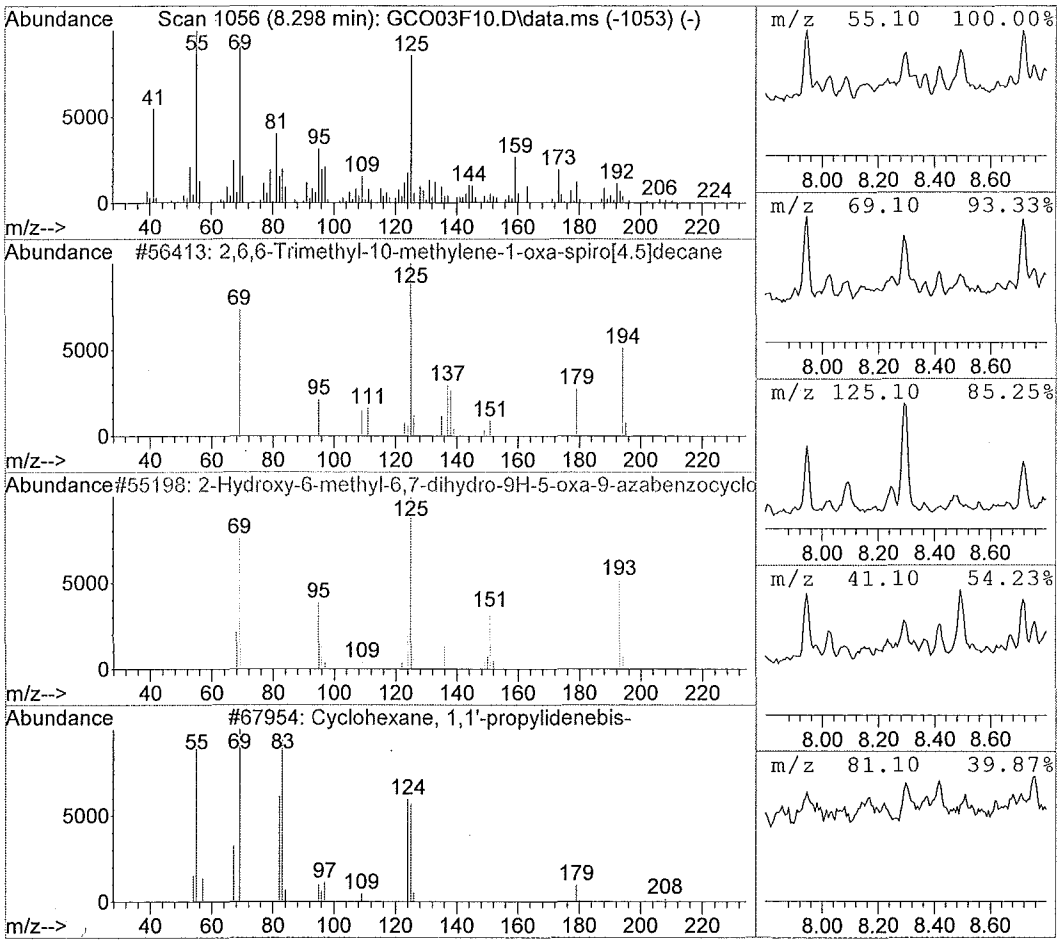
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.30	3.09 ug/ml	461367	Acenaphthene-d10	2985050

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,6,6-Trimethyl-10-methylene-1-oxa-	56413	1000194-34-6	64.00
2	2-Hydroxy-6-methyl-6,7-dihydro-9H-5	55198	1000210-15-9	58.00
3	Cyclohexane, 1,1'-propylidenebis-	67954	054934-91-7	38.00
4	2-Amino-4-hydroxy-6-methylpyrimidin	10760	003977-29-5	27.00
5	Bicyclo[3.1.1]heptan-3-one, 6,6-dim	56437	1000163-97-9	25.00



: 00251

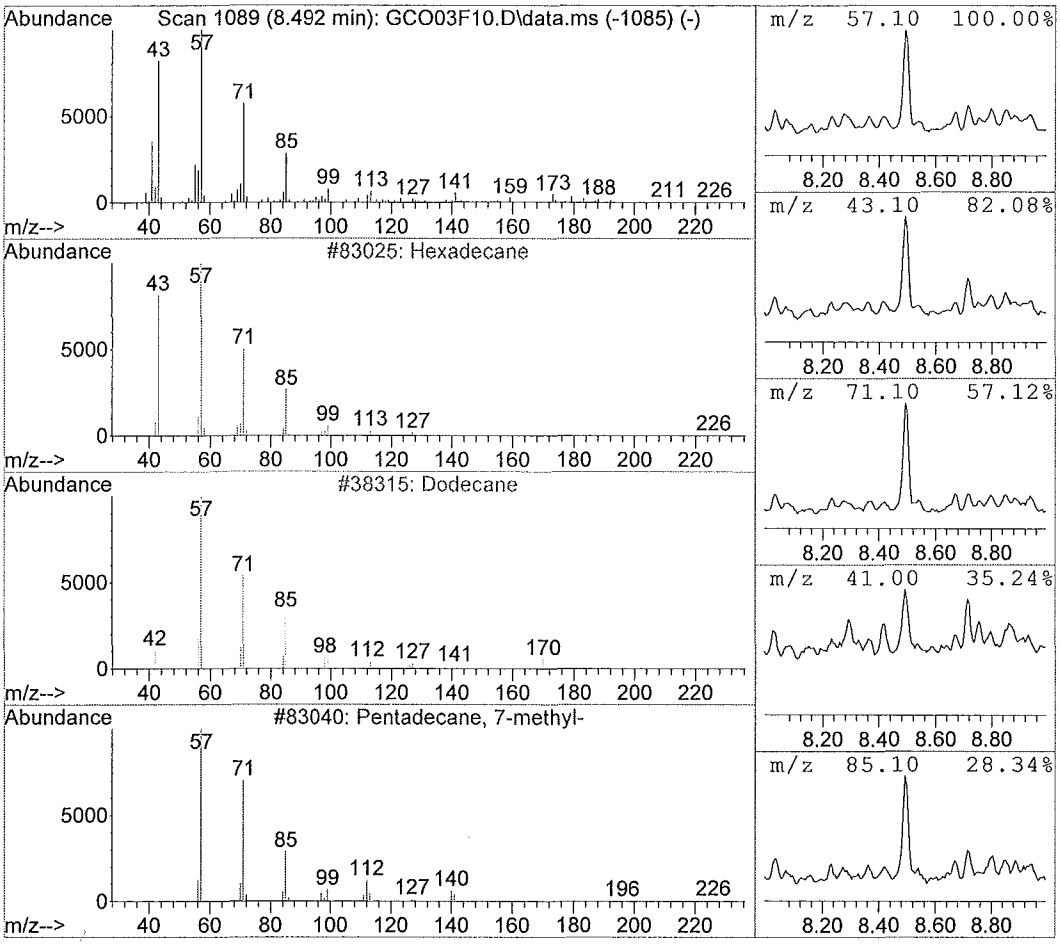
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.49	10.68 ug/ml	1594486	Acenaphthene-d10	2985050

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane	83025	000544-76-3	94.00
2	Dodecane	38315	000112-40-3	83.00
3	Pentadecane, 7-methyl-	83040	006165-40-8	80.00
4	Dodecane, 4-methyl-	48846	006117-97-1	74.00
5	Decane, 5-propyl-	48838	017312-62-8	72.00



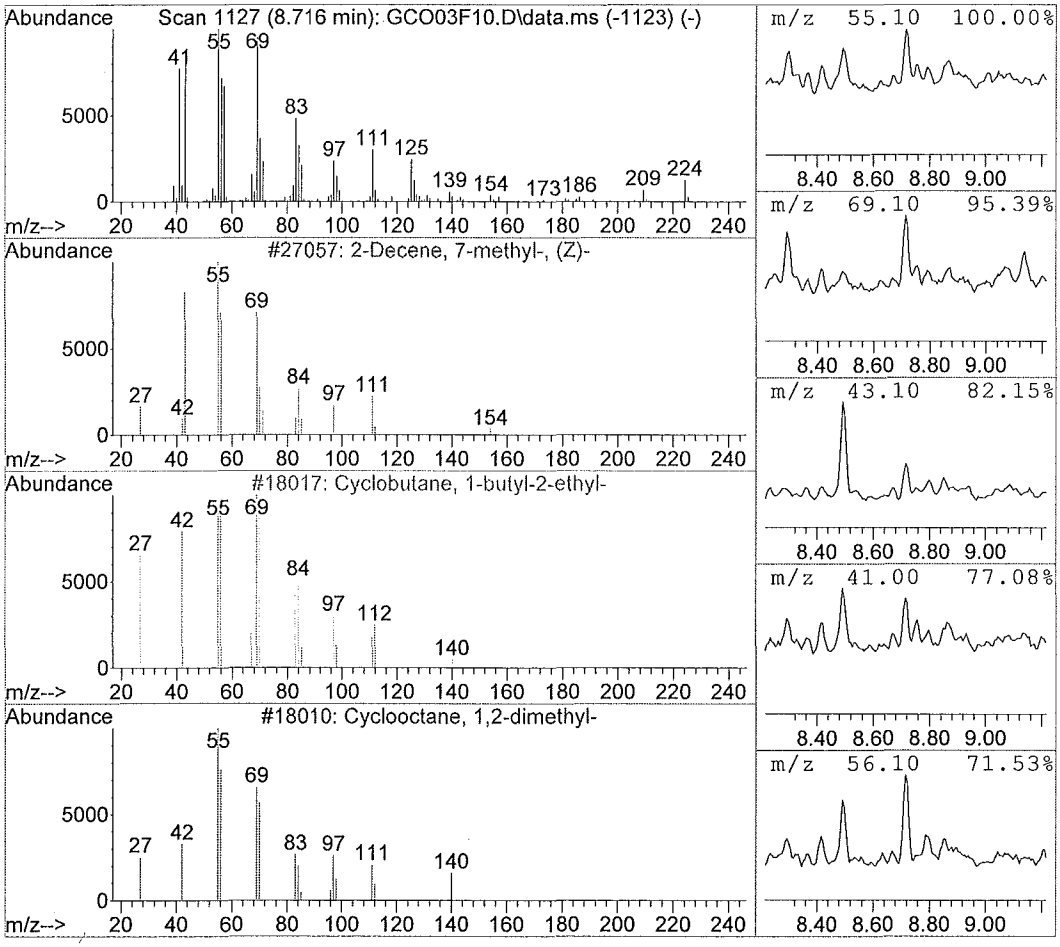
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.72	7.15 ug/ml	1067839	Acenaphthene-d10	2985050

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Decene, 7-methyl-, (Z)-	27057	074630-23-2	92.00
2	Cyclobutane, 1-butyl-2-ethyl-	18017	1000150-67-3	58.00
3	Cyclooctane, 1,2-dimethyl-	18010	013151-94-5	58.00
4	Cyclopentane, 1,1,2-trimethyl-	6787	004259-00-1	49.00
5	2,3-Dimethyl-3-heptene, (Z)-	11577	059643-73-1	49.00



Library Search Compound Report

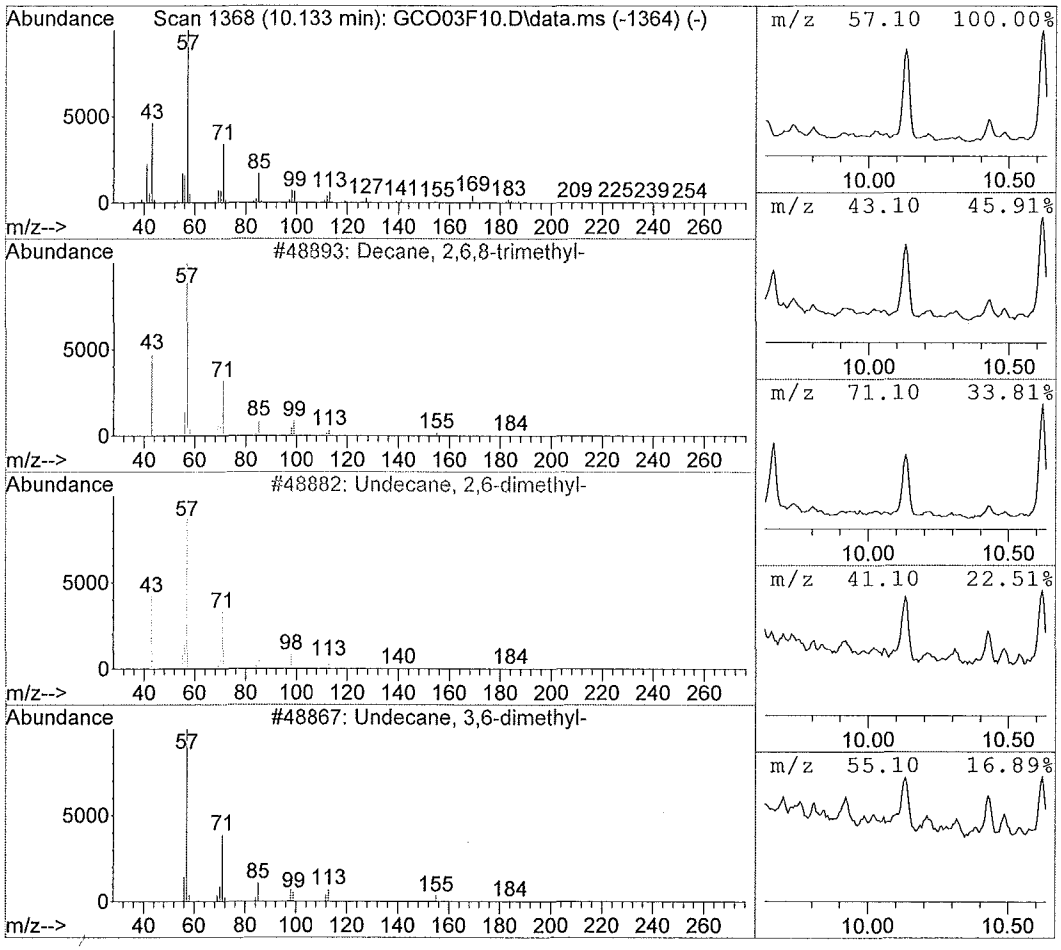
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.13	12.28 ug/ml	1833082	Acenaphthene-d10	2985050

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 2,6,8-trimethyl-	48893	062108-26-3	87.00
2	Undecane, 2,6-dimethyl-	48882	017301-23-4	87.00
3	Undecane, 3,6-dimethyl-	48867	017301-28-9	86.00
4	Pentadecane, 2,6,10-trimethyl-	105904	003892-00-0	72.00
5	Undecane, 3,5-dimethyl-	48868	017312-81-1	72.00

BA



: 00254

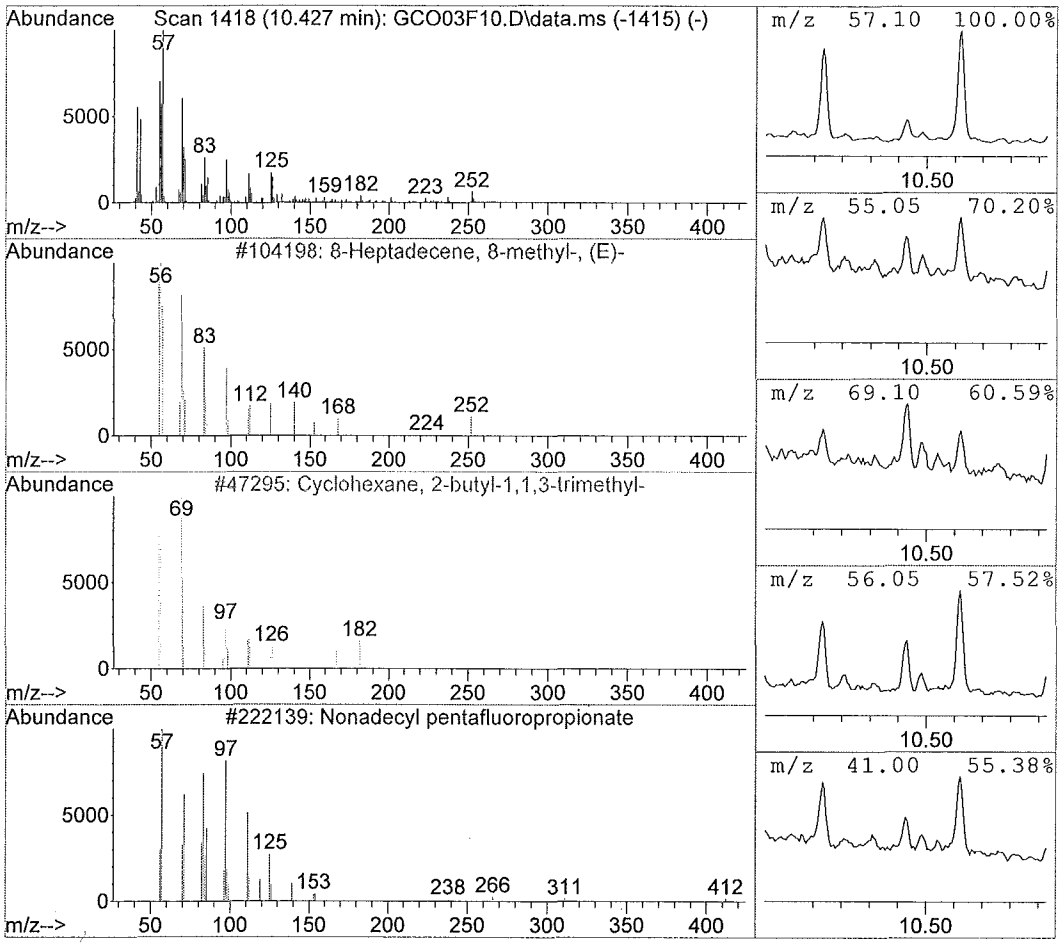
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.43	4.64 ug/ml	665129	Phenanthrene-d10	2869514

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	8-Heptadecene, 8-methyl-, (E)-	104198	055044-98-9	91.00
2	Cyclohexane, 2-butyl-1,1,3-trimethy	47295	054676-39-0	64.00
3	Nonadecyl pentafluoropropionate	222139	1000351-88-8	53.00
4	1-Decene	17935	000872-05-9	52.00
5	Cyclohexane, 1,1,3-trimethyl-2-(3-m	69597	054965-05-8	50.00



Library Search Compound Report

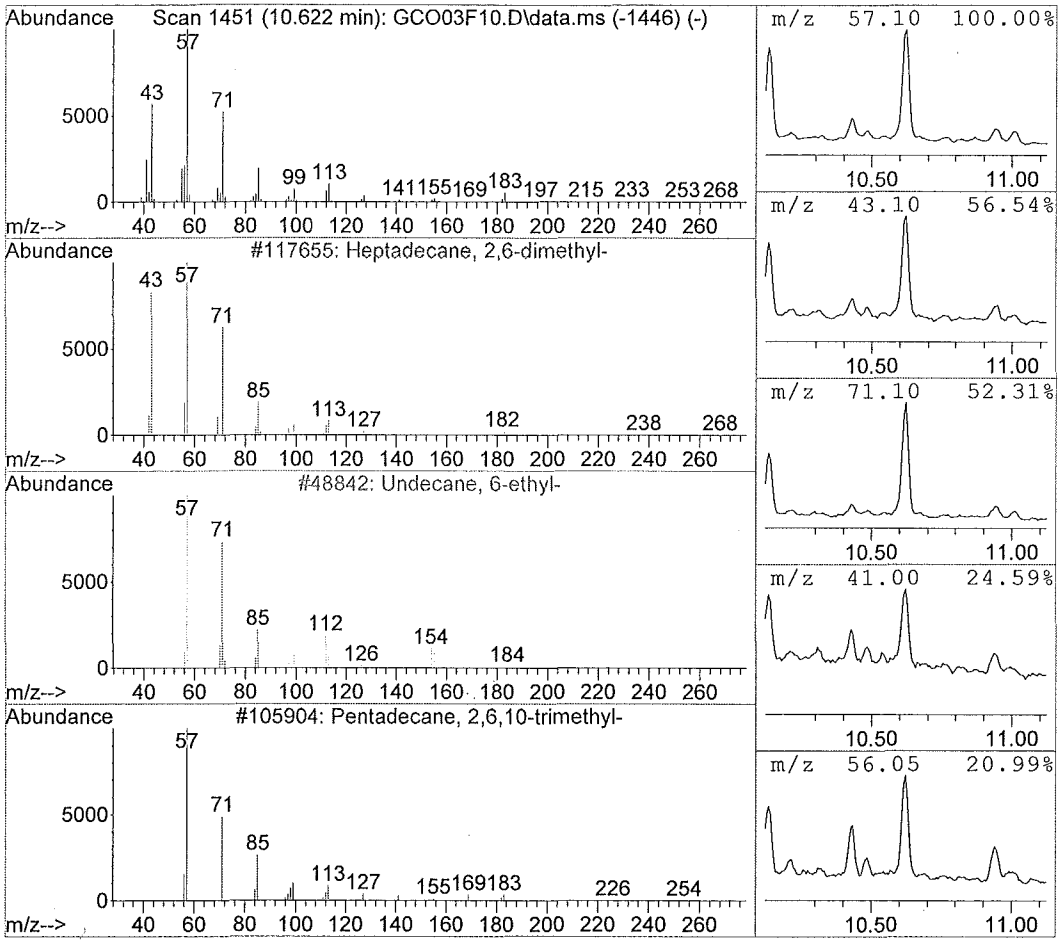
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.62	15.01 ug/ml	2154251	Phenanthrene-d10	2869514

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane, 2,6-dimethyl-	117655	054105-67-8	91.00
2	Undecane, 6-ethyl-	48842	017312-60-6	81.00
3	Pentadecane, 2,6,10-trimethyl-	105904	003892-00-0	80.00
4	Undecane, 3,6-dimethyl-	48867	017301-28-9	74.00
5	Nonane, 2-methyl-5-propyl-	48913	031081-17-1	72.00

BA



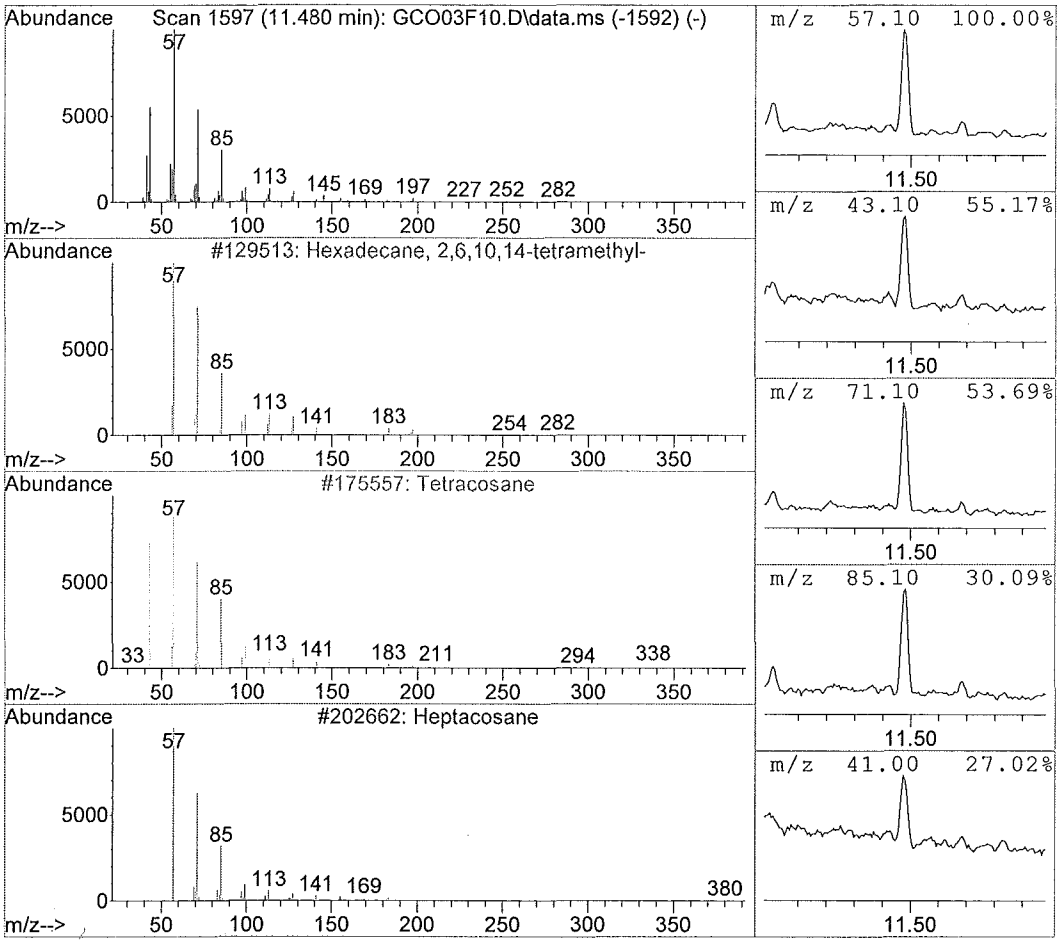
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.48	6.93 ug/ml	993944	Phenanthrene-d10	2869514

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane, 2,6,10,14-tetramethyl- BA	129513	000638-36-8	91.00
2	Tetracosane	175557	000646-31-1	86.00
3	Heptacosane	202662	000593-49-7	86.00
4	Dodecane, 5,8-diethyl-	83038	024251-86-3	83.00
5	Tridecane, 5-propyl-	83031	055045-11-9	83.00



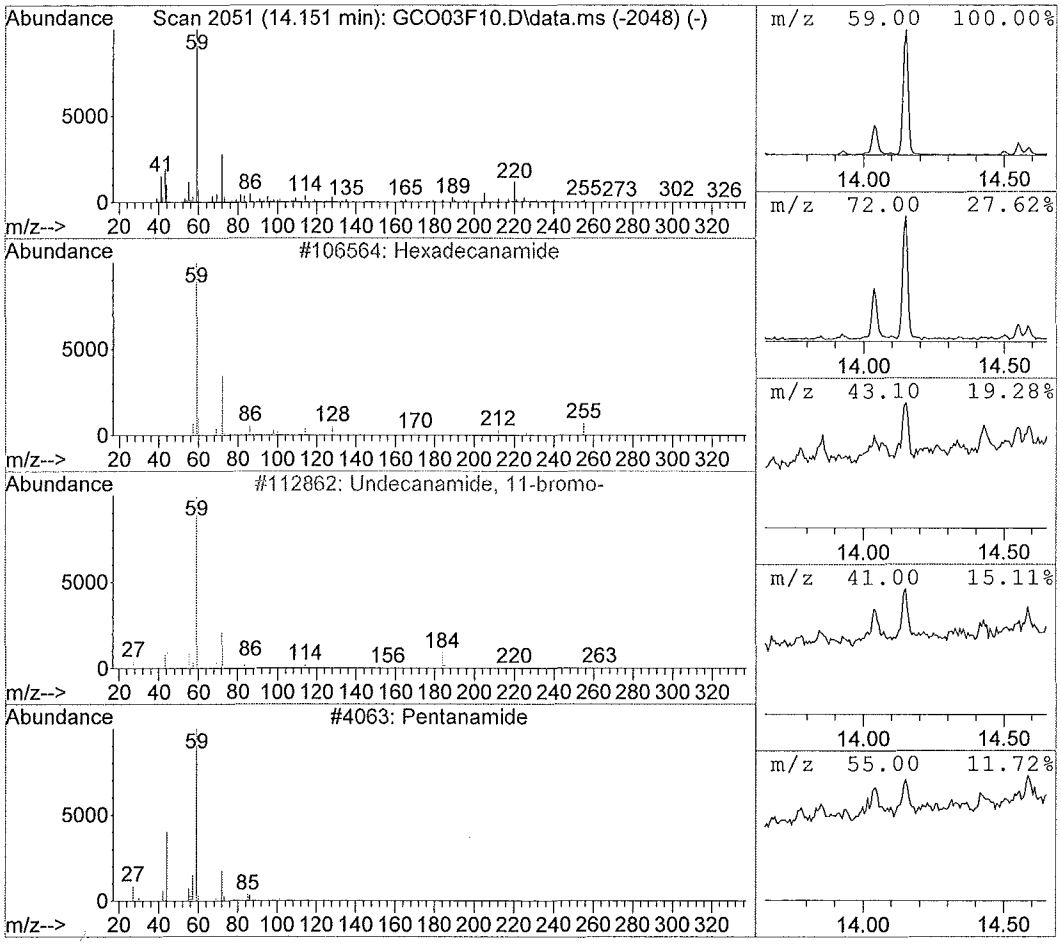
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	2.84 ug/ml	493261	Chrysene-d12	3471579

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	87.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	68.00
3	Pentanamide	4063	000626-97-1	59.00
4	Dodecanamide	60440	001120-16-7	50.00
5	6,8-Dichlorooctanamide	70436	003579-00-8	50.00



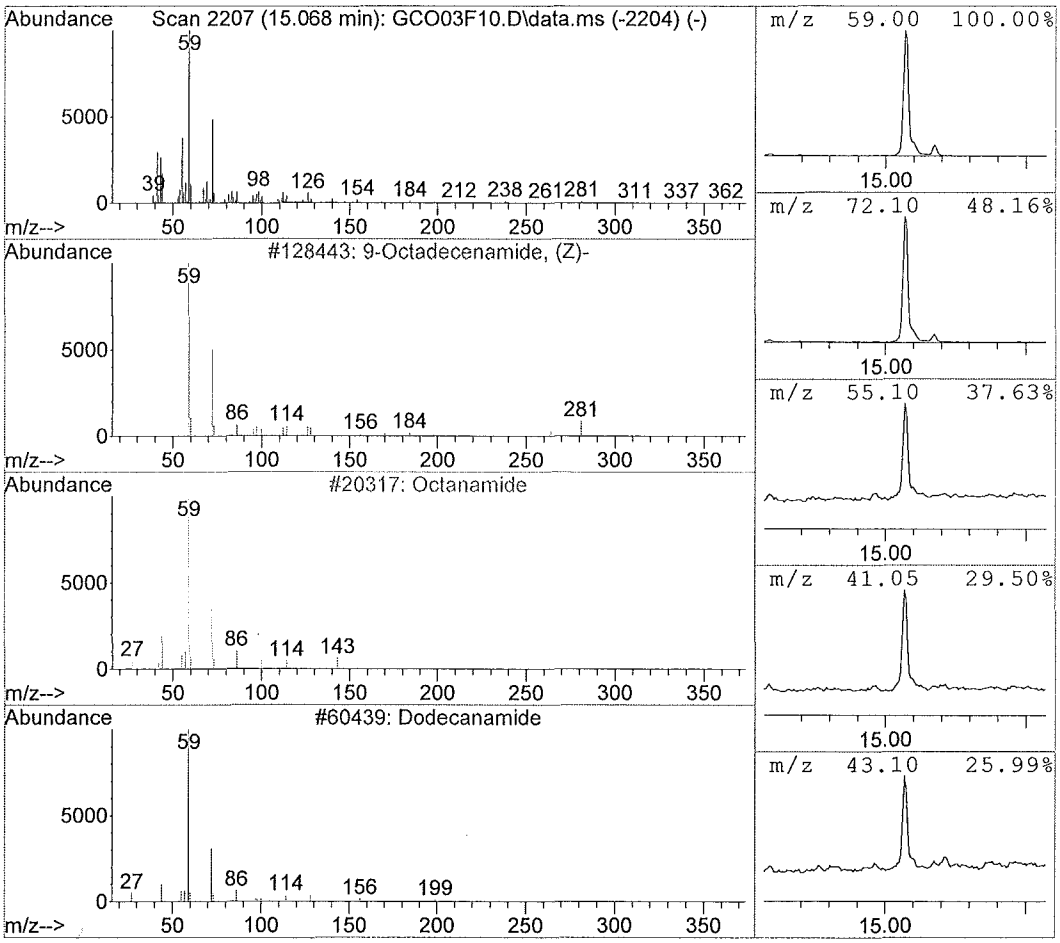
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.07	13.10 ug/ml	2274024	Chrysene-d12	3471579

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Octanamide	20317	000629-01-6	64.00
3	Dodecanamide	60439	001120-16-7	59.00
4	Decanamide-	38977	002319-29-1	56.00
5	Nonanamide	29478	001120-07-6	50.00



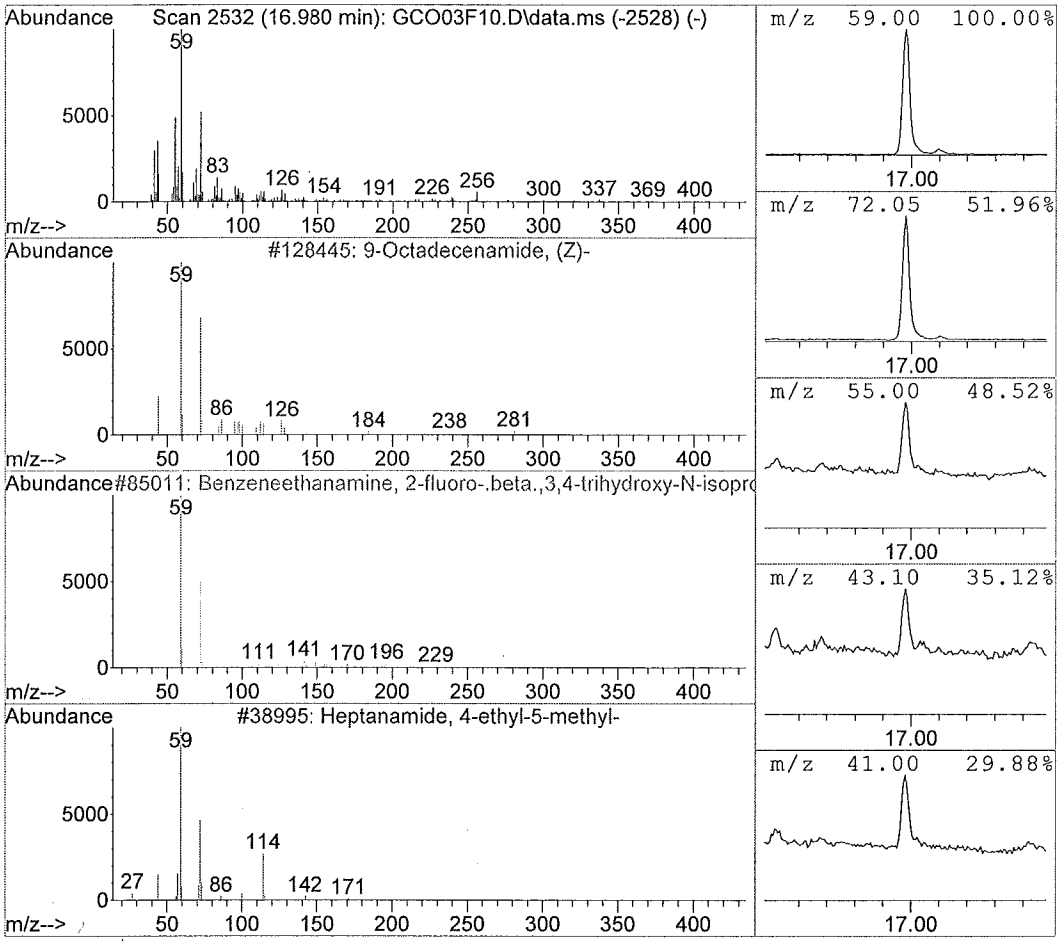
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO03F10.D Vial: 3
Acq On : 07/08/2015 09:17 Operator: TJM
Sample : 1515375010 F9M05 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.98	7.44 ug/ml	1111214	Perylene-d12	2987867

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	86.00
2	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
3	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00
4	Nonanamide	29478	001120-07-6	53.00
5	Dodecanamide	60439	001120-16-7	53.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

F9M06

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375011

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GC004F11

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.9 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	210	J
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	770	J
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.:

F9M06

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375011

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GC004F11

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.9 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	1600	J
120-12-7	Anthracene	210	J
86-74-8	Carbazole	2000	U
84-74-2	Di-n-butylphthalate	2000	U
206-44-0	Fluoranthene	270	J
129-00-0	Pyrene	1500	J
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)anthracene	630	J
218-01-9	Chrysene	1200	J
117-81-7	Bis(2-ethylhexyl)phthalate	2000	U
117-84-0	Di-n-octylphthalate	2000	U
205-99-2	Benzo(b)fluoranthene	430	J
207-08-9	Benzo(k)fluoranthene	2000	U
50-32-8	Benzo(a)pyrene	620	J
193-39-5	Indeno(1,2,3-cd)pyrene	210	J
53-70-3	Dibenzo(a,h)anthracene	2000	U
191-24-2	Benzo(g,h,i)perylene	490	J
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.: F9M06

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375011
Sample wt/vol: 30.0 (g/mL) g Lab File ID: GC004F11
Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 14. Decanted: (Y/N) N Date Received: 06/02/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015
GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 10.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	814-78-8	3-Buten-2-one, 3-methyl-	2.20	790	JN
02		Unknown Methacrylamide	2.81	960	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.49	4700	JB
04		Unknown 1H-Pyrrole-2,5-dione	4.28	1800	J
05		Unknown 2-Pentanone, 3-methyl-	4.59	1300	J
06		Unknown Nonanal	5.48	1600	J
07		Unknown Butane, 2-iodo-3-methyl-	9.66	1000	J
08		Unknown Hexanamide	10.35	2100	J
09	2531-84-2	Phenanthrene, 2-methyl-	12.50	1500	JN
10	4505-48-0	1H-Indene, 2-phenyl-	12.69	780	JN
11	638-58-4	Tetradecanamide	12.76	1800	JN
12	1120-16-7	Dodecanamide	14.15	5800	JN
13	33543-31-6	Fluoranthene, 2-methyl-	14.72	770	JN
14	301-02-0	9-Octadecenamide, (Z)-	15.09	36000	JNB
15	629-54-9	Hexadecanamide	15.17	1800	JNB
16		Unknown 7-Nonenamide	15.94	2800	J
17		Unknown N'-(4-Nitrobenzylidene)-2-pentyl-1-cyclc	16.20	2500	J
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	820	J

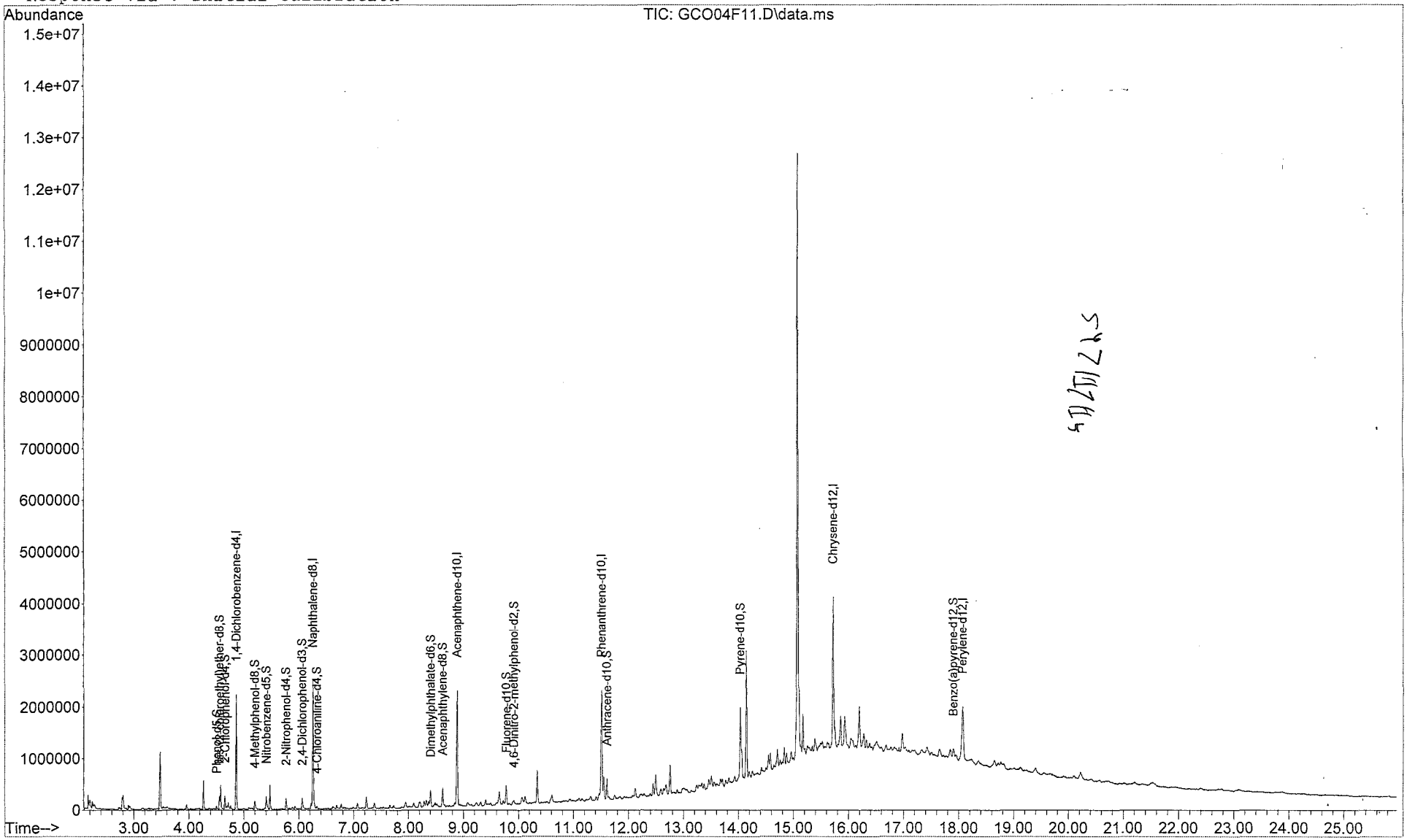
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 16 13:36:56 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 16 13:36:56 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	308429	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1171343	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	688825	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1198523	20.00 ug/ml
73) Chrysene-d12	15.73	240	1186470	20.00 ug/ml
81) Perylene-d12	18.08	264	768918	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	20470	0.763ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	55061	2.632ug/mL
7) 2-Chlorophenol-d4	4.66	132	66045	2.914ug/ml
13) 4-Methylphenol-d8	5.20	113	41640	2.319ug/mL
17) Nitrobenzene-d5	5.42	128	30131	2.928ug/ml
21) 2-Nitrophenol-d4	5.77	143	32691	3.006ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	51701	3.053ug/mL
28) 4-Chloroaniline-d4	6.33	131	10428	0.564ug/mL
42) Dimethylphthalate-d6	8.41	166	156487	3.623ug/mL
45) Acenaphthylene-d8	8.63	160	207205	3.530ug/mL
50) 4-Nitrophenol-d4	9.16	143	497	0.056ug/mL
57) Fluorene-d10	9.79	176	139367	3.778ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	11234	1.321ug/mL
69) Anthracene-d10	11.62	188	232006	3.650ug/mL
75) Pyrene-d10	14.04	212	206245	3.483ug/mL
86) Benzo(a)pyrene-d12	17.91	264	125409	3.404ug/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	6.29	128	32546	0.550ug/ml	98
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	7.24	142	75196	2.007ug/ml	100
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

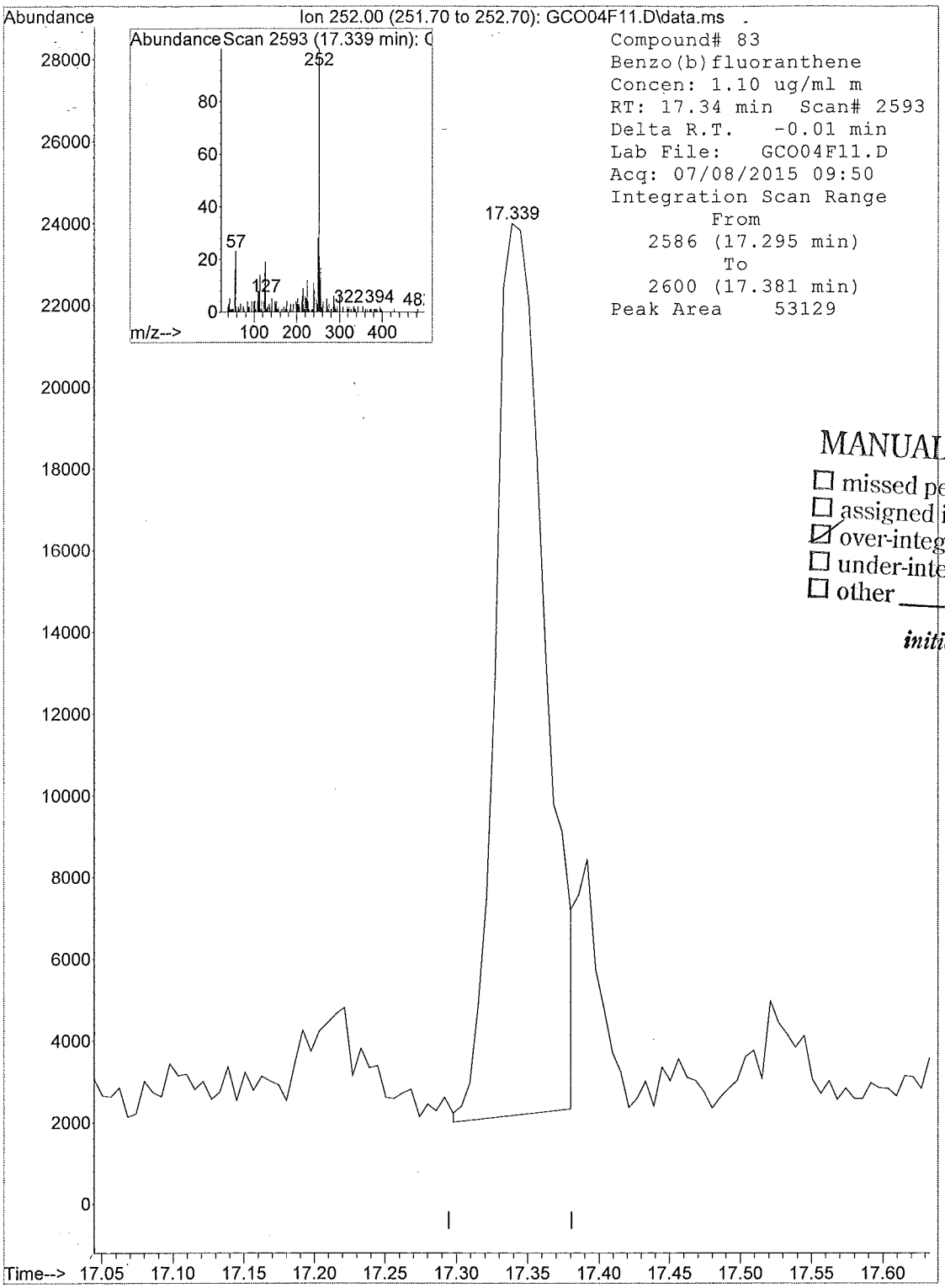
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GC004F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 16 13:36:56 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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	11.56	178	259316	4.057ug/ml	99
68)	Anthracene	11.65	178	36268	0.556ug/ml	94
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	13.71	202	48554	0.689ug/ml	98
74)	Pyrene	14.07	202	292682	3.875ug/ml	98
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.72	228	118015	1.640ug/ml	71
79)	Chrysene	15.76	228	199418	3.068ug/ml	88
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.34	252	53129	1.103ug/ml m SY	94
84)	Benzo(k)fluoranthene	0.00	252		Not Detected 7/17/15	
85)	Benzo(a)pyrene	17.96	252	73382	1.619ug/ml	93
87)	Indeno(1,2,3-c,d)pyrene	20.72	276	21521	0.537ug/ml	87
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	21.53	276	50379	1.277ug/ml	94

(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(b)fluoranthene

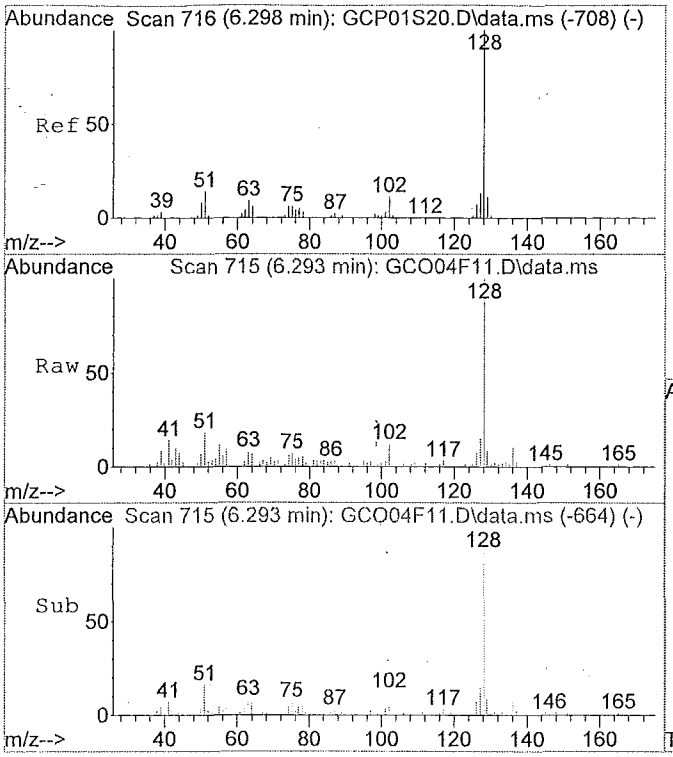


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to pe
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials _____ *date* 7/17/15

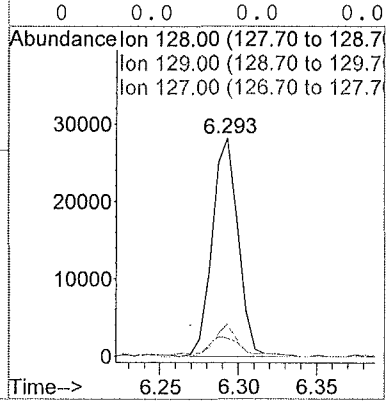
GSOM01D6.M 5975-G GSOM01D6.M 1515375011 F9M06 (10) . SOIL SOM

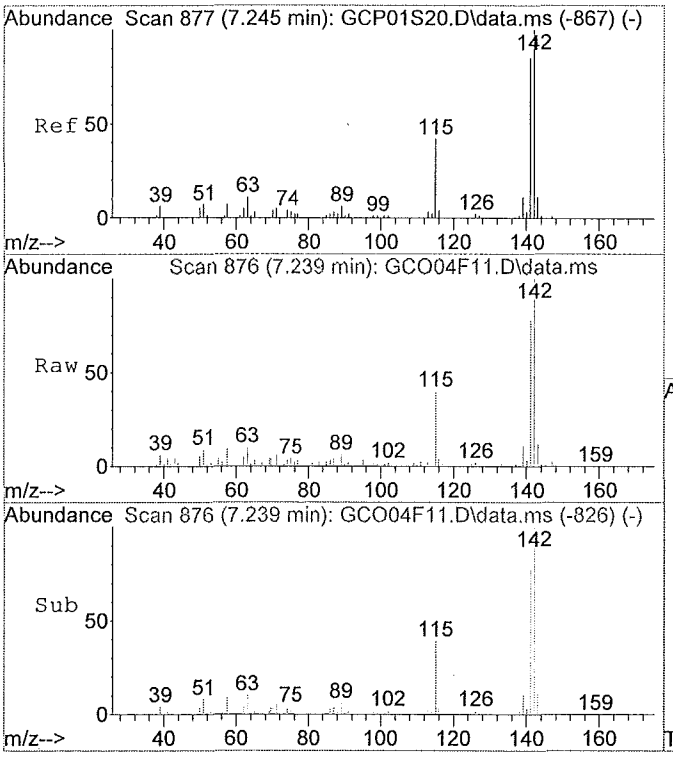


#26
Naphthalene
Concen: 0.55 ug/ml
RT: 6.29 min Scan# 715
Delta R.T. -0.00 min
Lab File: GCO04F11.D
Acq: 07/08/2015 09:50

Tgt Ion:128 Resp: 32546

Ion	Ratio	Lower	Upper
128	100		
129	12.5	7.8	14.4
127	12.8	9.3	17.3
0	0.0	0.0	0.0

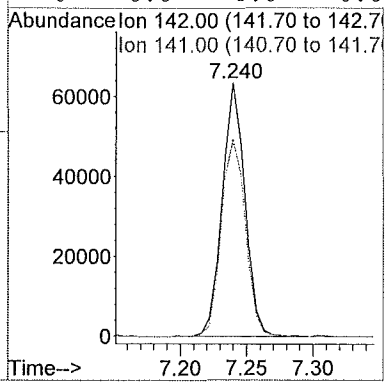


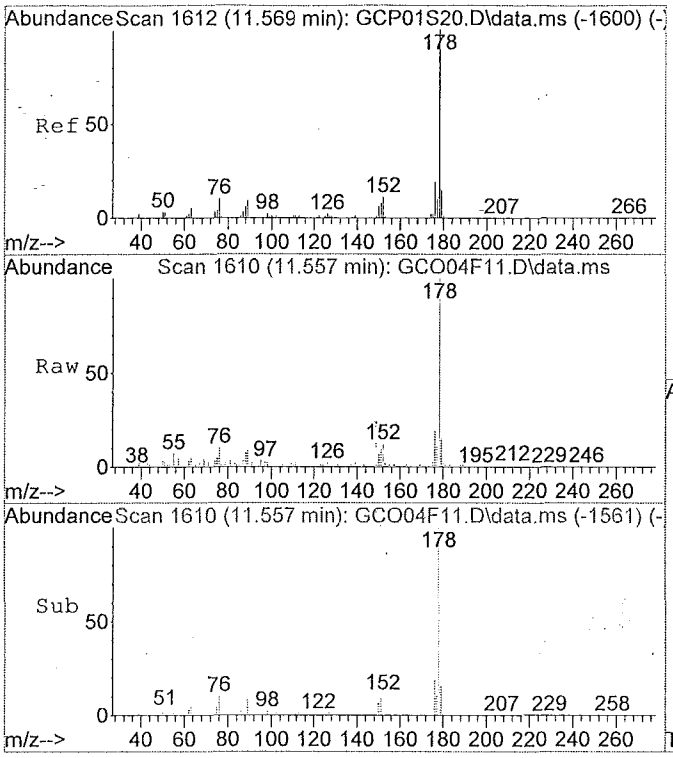


#32
2-Methylnaphthalene
Concen: 2.01 ug/ml
RT: 7.24 min Scan# 876
Delta R.T. -0.01 min
Lab File: GCO04F11.D
Acq: 07/08/2015 09:50

Tgt Ion:142 Resp: 75196

Ion	Ratio	Lower	Upper
142	100		
141	82.4	57.7	107.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

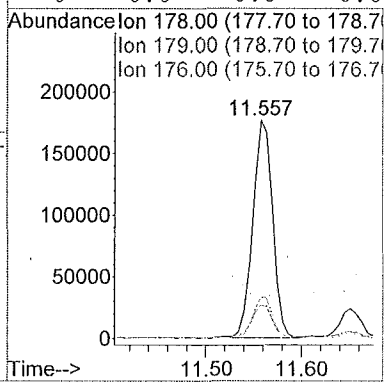


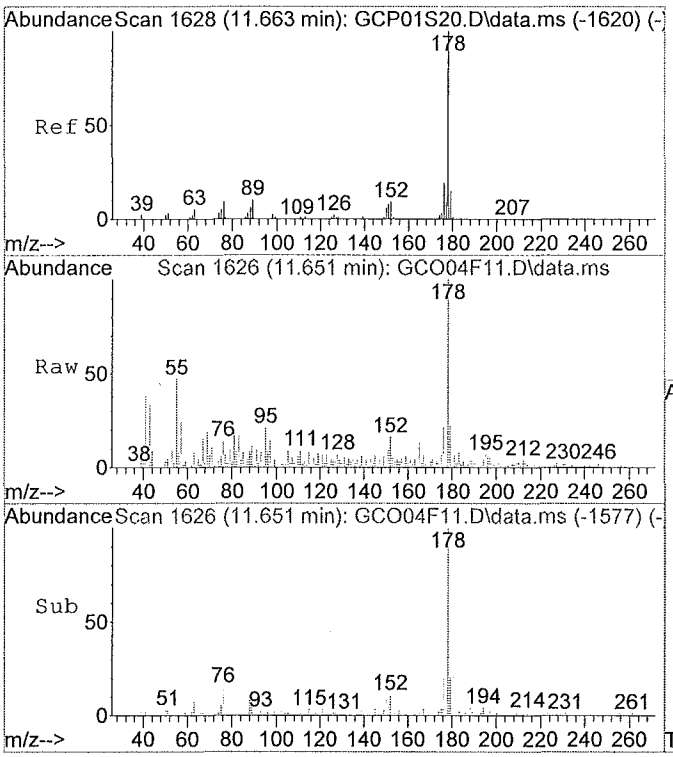


#67
Phenanthrene
Concen: 4.06 ug/ml
RT: 11.56 min Scan# 1610
Delta R.T. -0.01 min
Lab File: GCO04F11.D
Acq: 07/08/2015 09:50

Tgt Ion:178 Resp: 259316

Ion	Ratio	Lower	Upper
178	100		
179	15.9	10.6	19.8
176	18.3	13.2	24.4
0	0.0	0.0	0.0

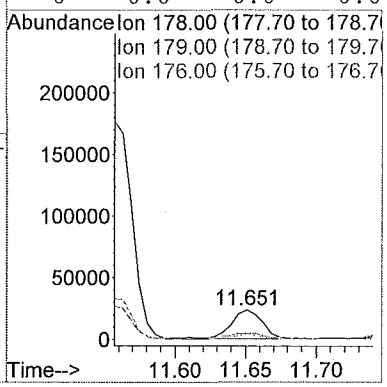


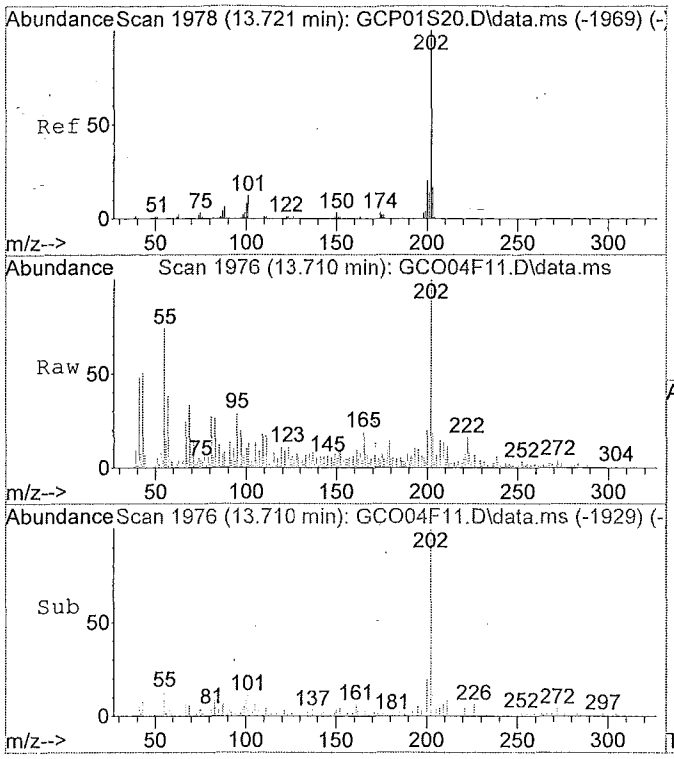


#68
Anthracene
Concen: 0.56 ug/ml
RT: 11.65 min Scan# 1626
Delta R.T. -0.01 min
Lab File: GCO04F11.D
Acq: 07/08/2015 09:50

Tgt Ion:178 Resp: 36268

Ion	Ratio	Lower	Upper
178	100		
179	19.9	10.5	19.5#
176	17.2	12.7	23.5
0	0.0	0.0	0.0

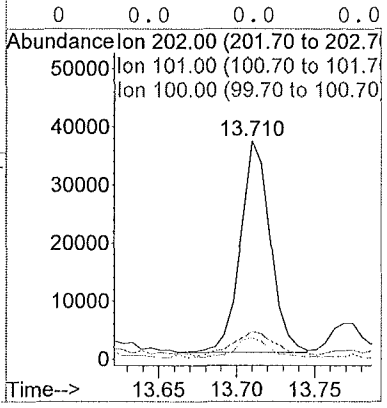


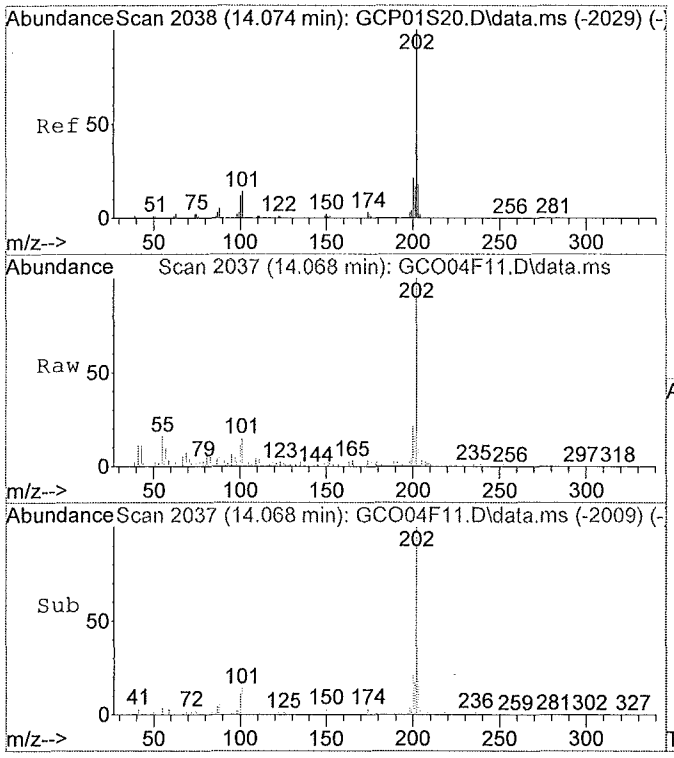


#72
Fluoranthene
Concen: 0.69 ug/ml
RT: 13.71 min Scan# 1976
Delta R.T. -0.01 min
Lab File: GCO04F11.D
Acq: 07/08/2015 09:50

Tgt Ion:202 Resp: 48554

Ion	Ratio	Lower	Upper
202	100		
101	16.1	10.5	19.5
100	10.6	7.4	13.8
0	0.0	0.0	0.0

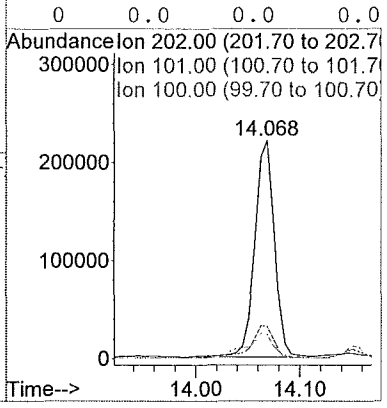


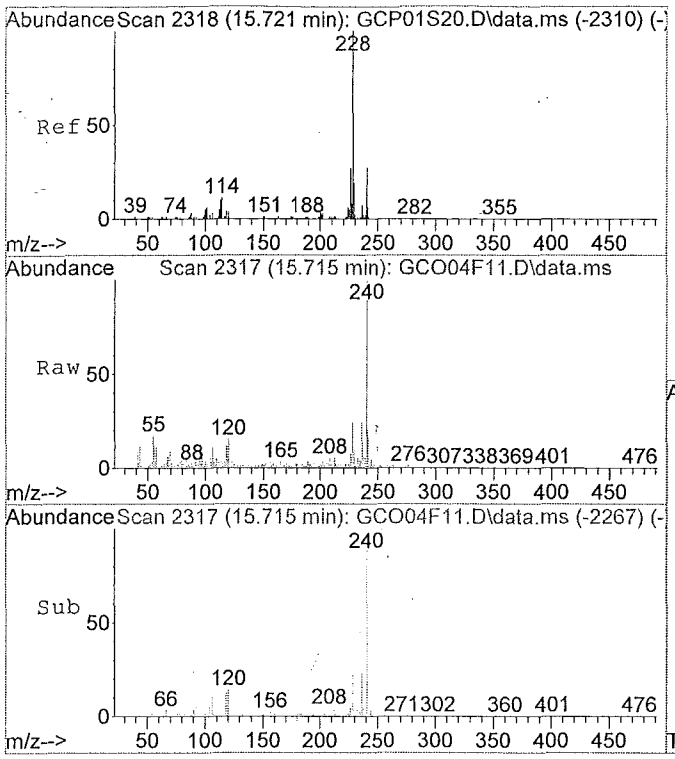


#74
Pyrene
Concen: 3.88 ug/ml
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: GCO04F11.D
Acq: 07/08/2015 09:50

Tgt Ion:202 Resp: 292682

Ion	Ratio	Lower	Upper
202	100		
101	17.5	12.2	22.7
100	16.3	10.1	18.7
0	0.0	0.0	0.0

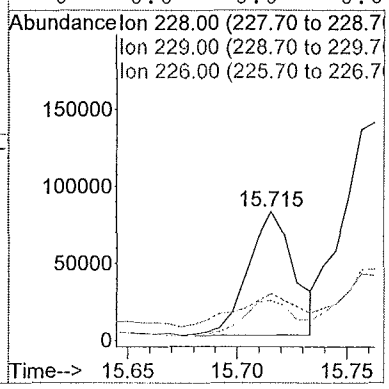


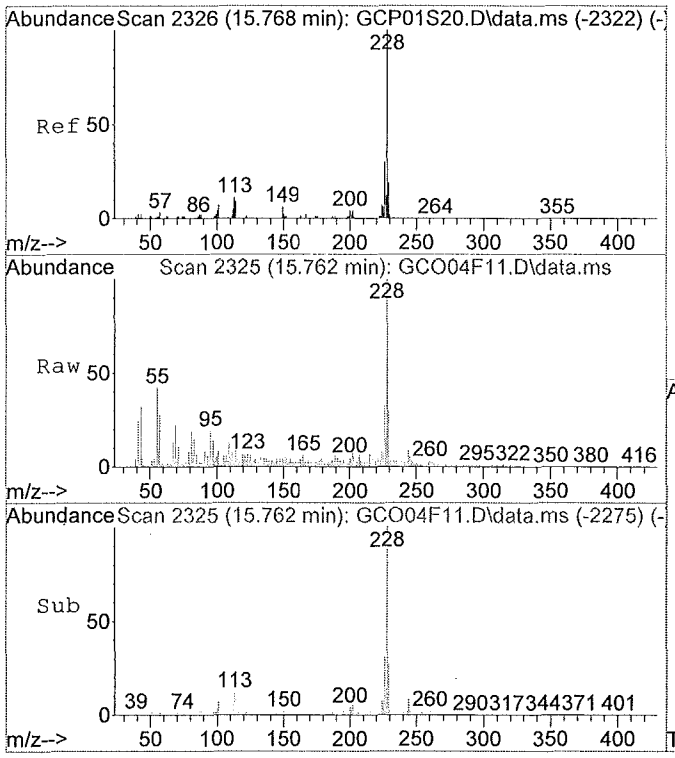


#78
Benzo(a)anthracene
Concen: 1.64 ug/ml
RT: 15.72 min Scan# 2317
Delta R.T. -0.01 min
Lab File: GCO04F11.D
Acq: 07/08/2015 09:50

Tgt Ion:228 Resp: 118015

Ion	Ratio	Lower	Upper
228	100		
229	41.7	13.7	25.5#
226	33.1	18.2	33.8
0	0.0	0.0	0.0

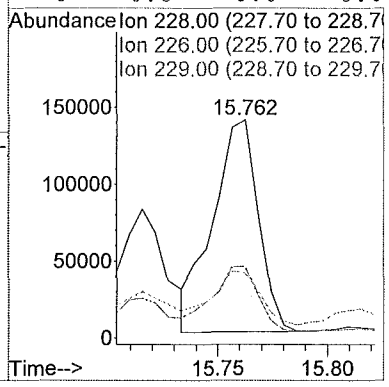


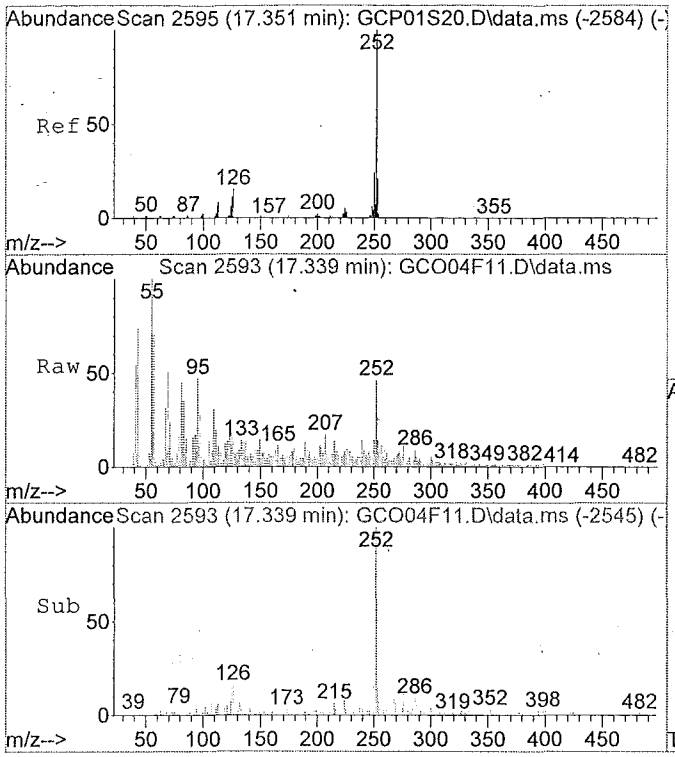


#79
Chrysene
Concen: 3.07 ug/ml
RT: 15.76 min Scan# 2325
Delta R.T. -0.01 min
Lab File: GCO04F11.D
Acq: 07/08/2015 09:50

Tgt Ion:228 Resp: 199418

Ion	Ratio	Lower	Upper
228	100		
226	32.3	20.1	37.3
229	28.9	13.7	25.5#
0	0.0	0.0	0.0

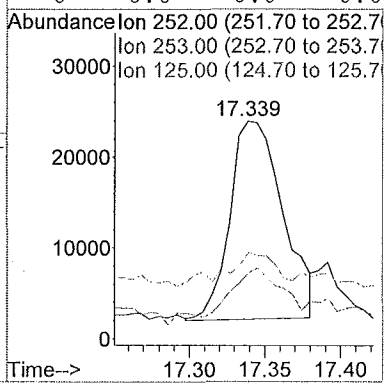


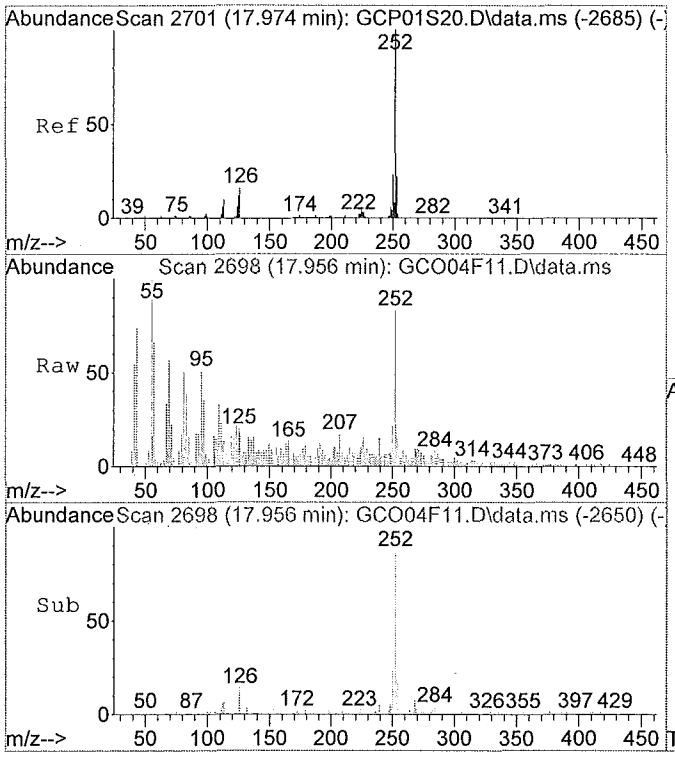


#83
Benzo(b)fluoranthene
Concen: 1.10 ug/ml m
RT: 17.34 min Scan# 2593
Delta R.T. -0.01 min
Lab File: GCO04F11.D
Acq: 07/08/2015 09:50

Tgt Ion:252 Resp: 53129

Ion	Ratio	Lower	Upper
252	100		
253	21.9	15.1	28.1
125	13.2	10.6	19.8
0	0.0	0.0	0.0

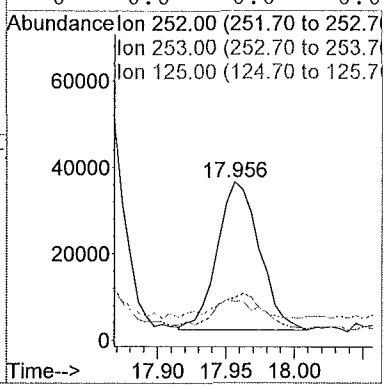


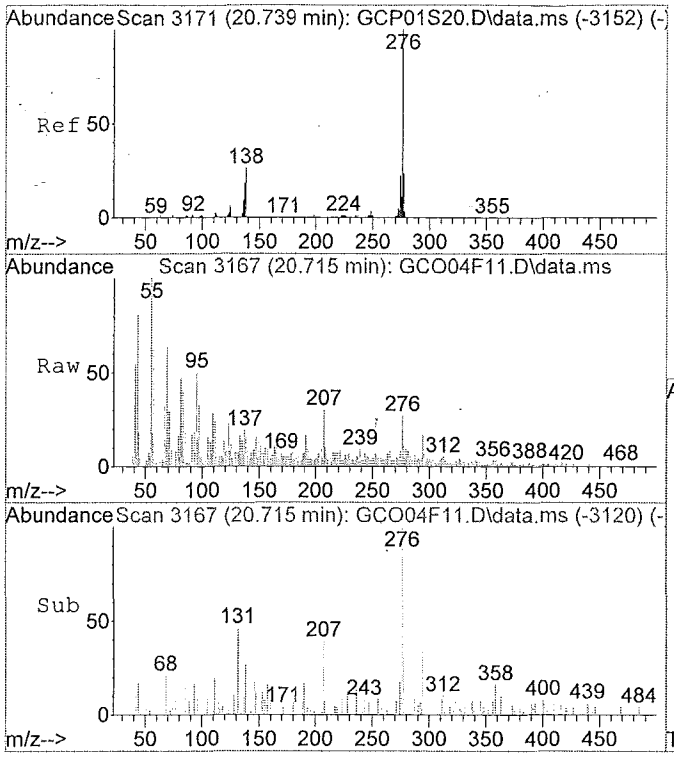


#85
Benzo(a)pyrene
Concen: 1.62 ug/ml
RT: 17.96 min Scan# 2698
Delta R.T. -0.02 min
Lab File: GCO04F11.D
Acq: 07/08/2015 09:50

Tgt Ion:252 Resp: 73382

Ion	Ratio	Lower	Upper
252	100		
253	25.6	15.2	28.2
125	14.0	11.8	21.8
0	0.0	0.0	0.0

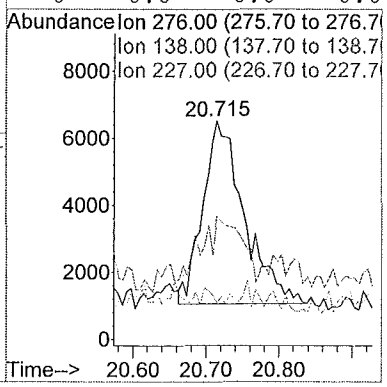


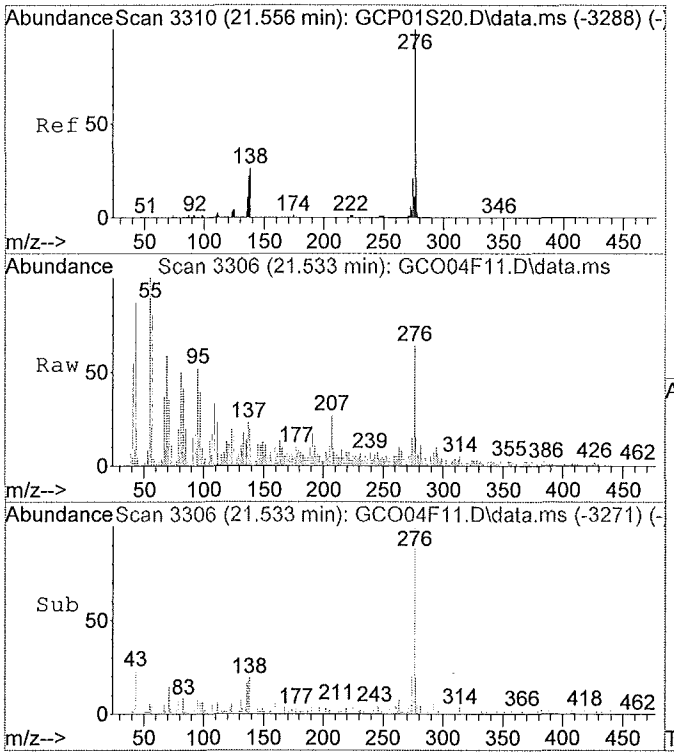


#87
Indeno(1,2,3-c,d)pyrene
Concen: 0.54 ug/ml
RT: 20.72 min Scan# 3167
Delta R.T. -0.02 min
Lab File: GCO04F11.D
Acq: 07/08/2015 09:50

Tgt Ion:276 Resp: 21521

Ion	Ratio	Lower	Upper
276	100		
138	24.5	22.3	41.5
227	0.0	0.1	0.1#
0	0.0	0.0	0.0

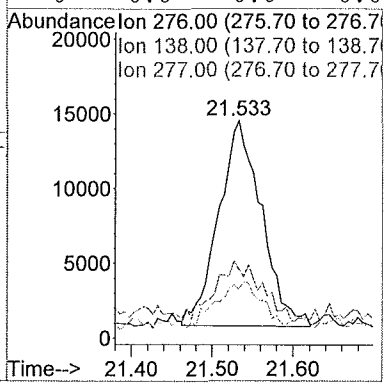




#89
Benzo(g,h,i)perylene
Concen: 1.28 ug/ml
RT: 21.53 min Scan# 3306
Delta R.T. -0.02 min
Lab File: GCO04F11.D
Acq: 07/08/2015 09:50

Tgt Ion:276 Resp: 50379

Ion	Ratio	Lower	Upper
276	100		
138	29.1	24.1	44.7
277	24.3	16.7	30.9
0	0.0	0.0	0.0



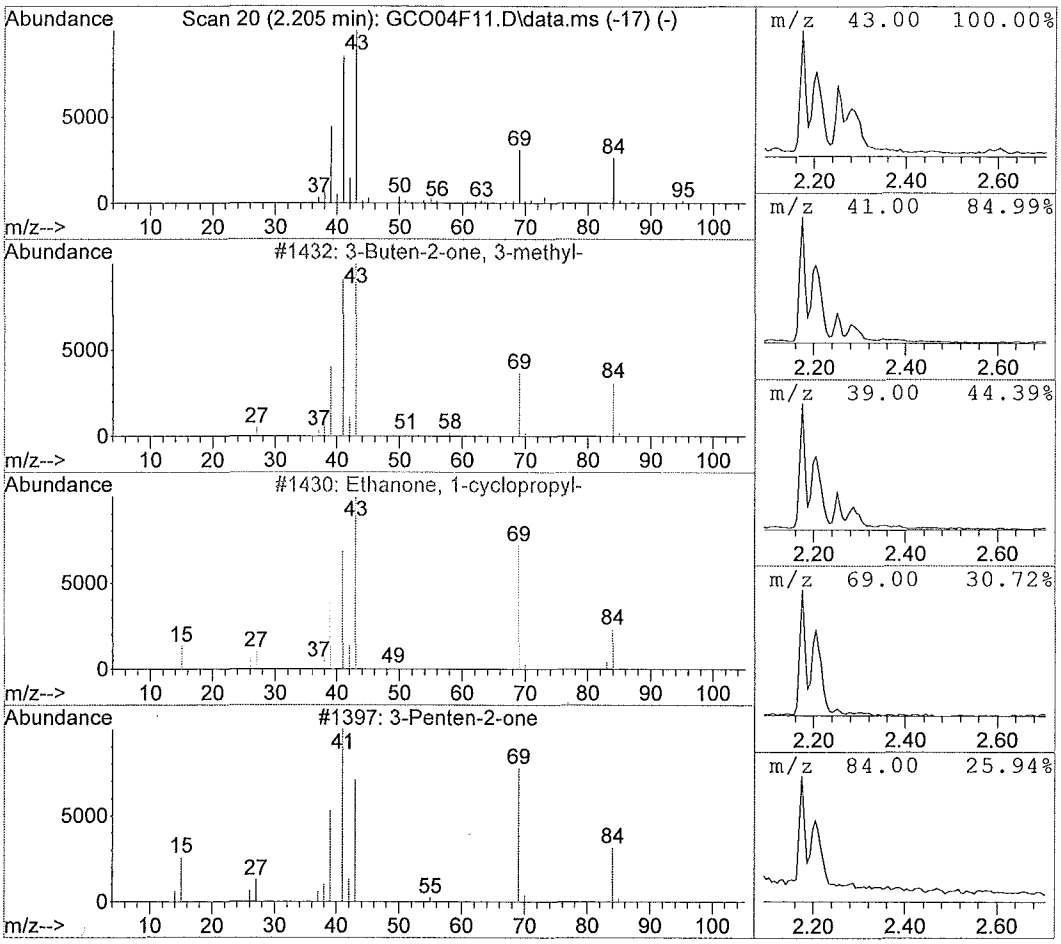
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.20	2.06 ug/ml	229374	1,4-Dichlorobenzene-d4	2227182

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	1432	000814-78-8	91.00
2	Ethanone, 1-cyclopropyl-	1430	000765-43-5	56.00
3	3-Penten-2-one	1397	000625-33-2	50.00
4	Methacrylamide	1538	000079-39-0	40.00
5	Propane, 1-nitro-	2166	000108-03-2	38.00



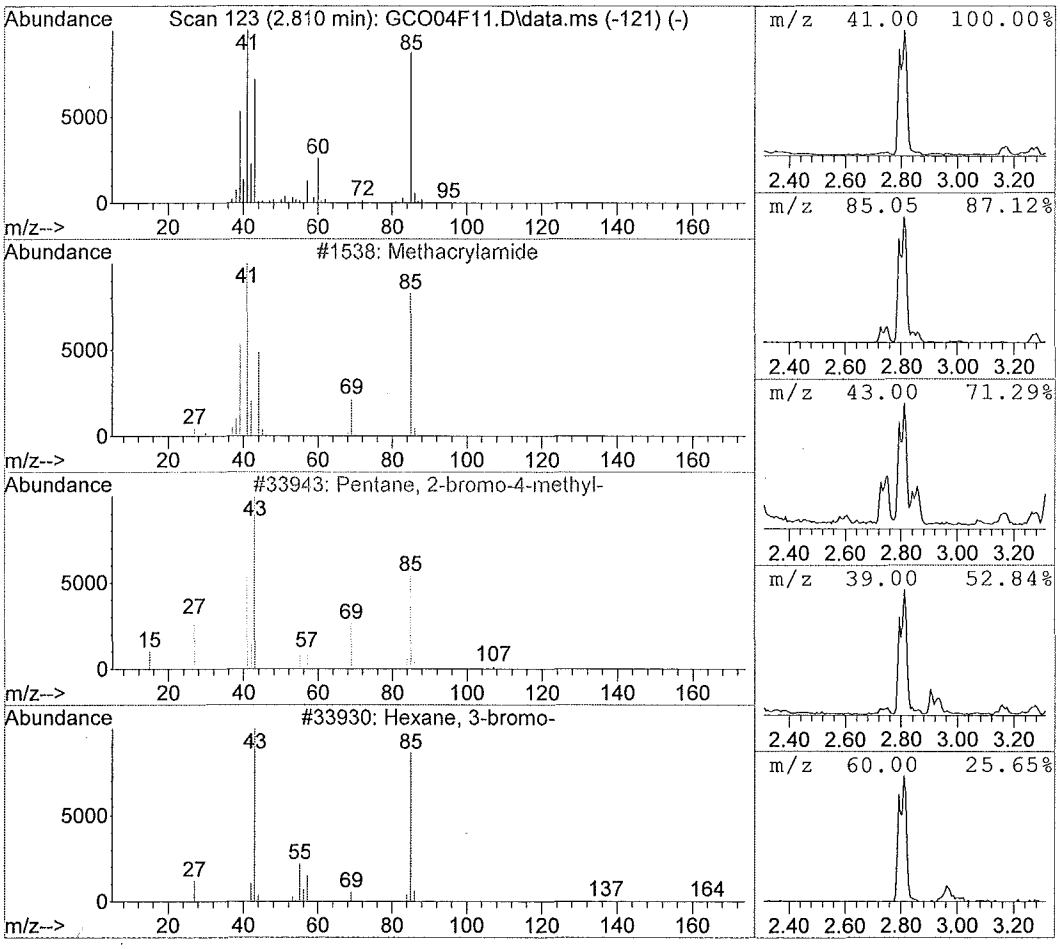
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.81	2.48 ug/ml	275872	1,4-Dichlorobenzene-d4	2227182

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methacrylamide	1538	000079-39-0	64.00
2	Pentane, 2-bromo-4-methyl-	33943	030310-22-6	33.00
3	Hexane, 3-bromo-	33930	003377-87-5	23.00
4	Sulfurous acid, hexyl pentyl ester	90252	1000309-14-1	23.00
5	2,2-Dimethylvaleroyl chloride	23063	015721-22-9	23.00



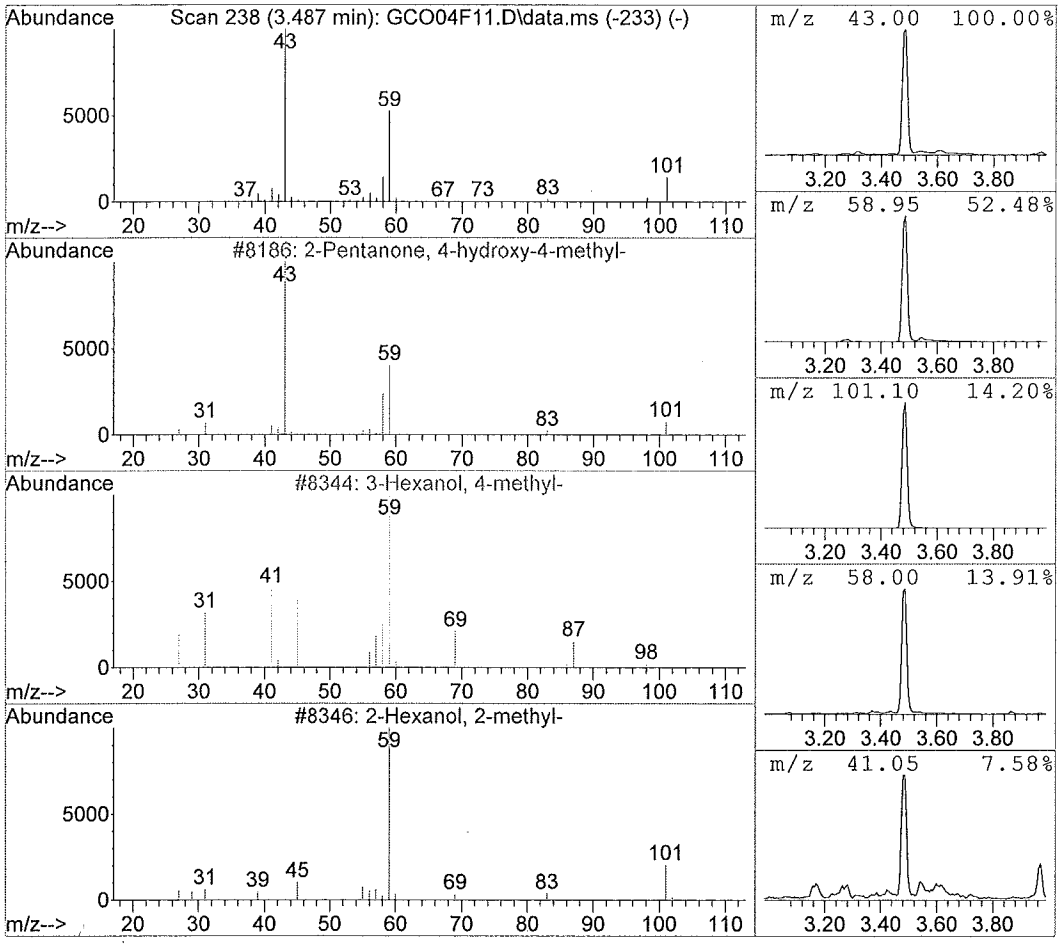
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.49	12.27 ug/ml	1366784	1,4-Dichlorobenzene-d4	2227182

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
4	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
5	Propanoic acid, 2-nitro-, methyl es	14600	006118-50-9	9.00



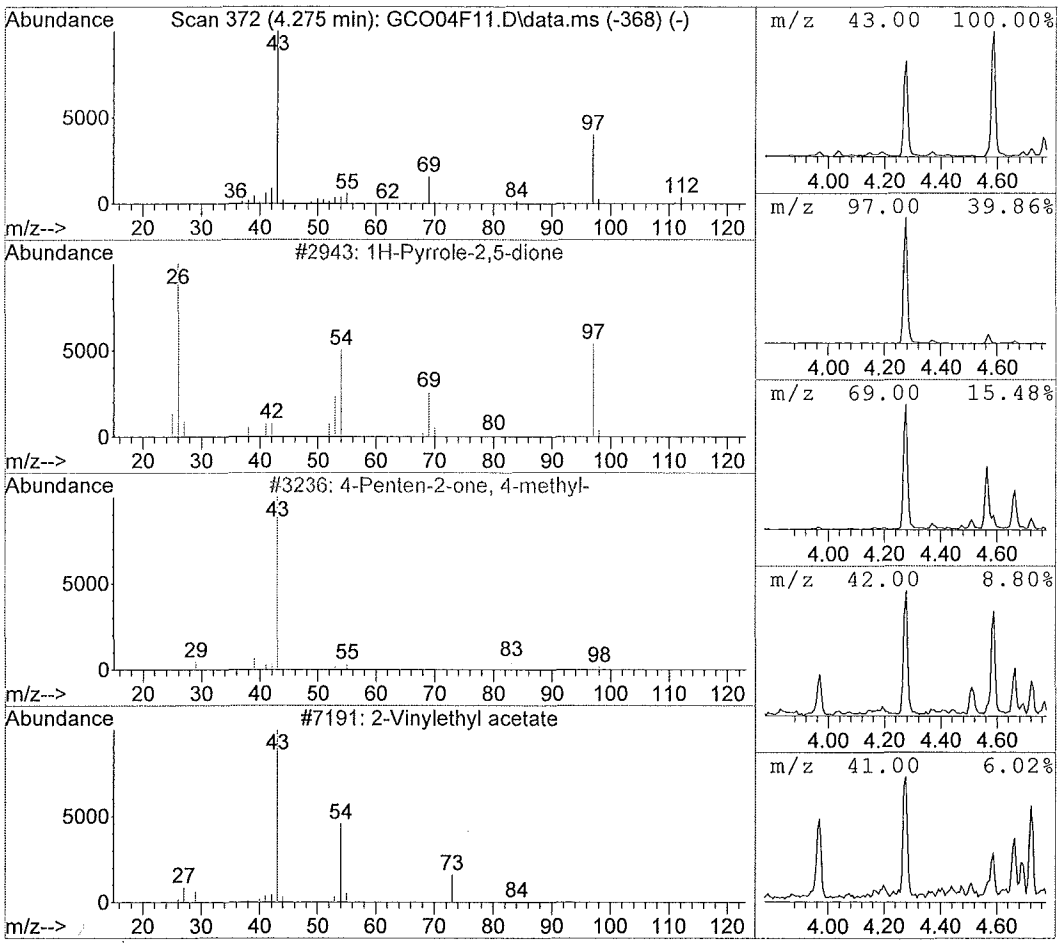
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.27	4.68 ug/ml	520874	1,4-Dichlorobenzene-d4	2227182

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2943	000541-59-3	32.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	2-Vinylethyl acetate	7191	001576-84-7	9.00
4	5-Hexen-2-one, 5-methyl-	6517	003240-09-3	5.00
5	2-Propyn-1-ol, acetate	3098	000627-09-8	5.00



: 00277

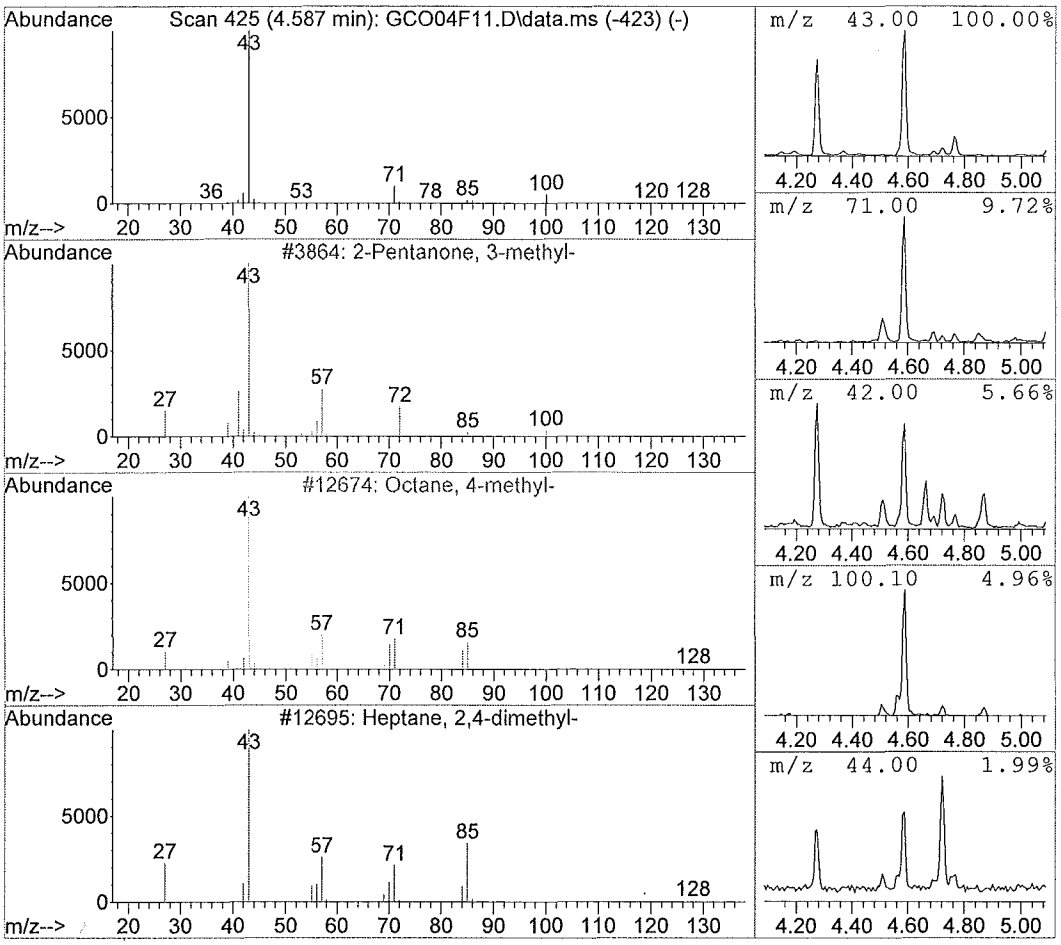
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.59	3.44 ug/ml	383250	1,4-Dichlorobenzene-d4	2227182

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 3-methyl-	3864	000565-61-7	9.00
2	Octane, 4-methyl-	12674	002216-34-4	9.00
3	Heptane, 2,4-dimethyl-	12695	002213-23-2	7.00
4	Heptane, 2,3-dimethyl-	12694	003074-71-3	7.00
5	1-Propen-2-ol, acetate	3687	000108-22-5	5.00



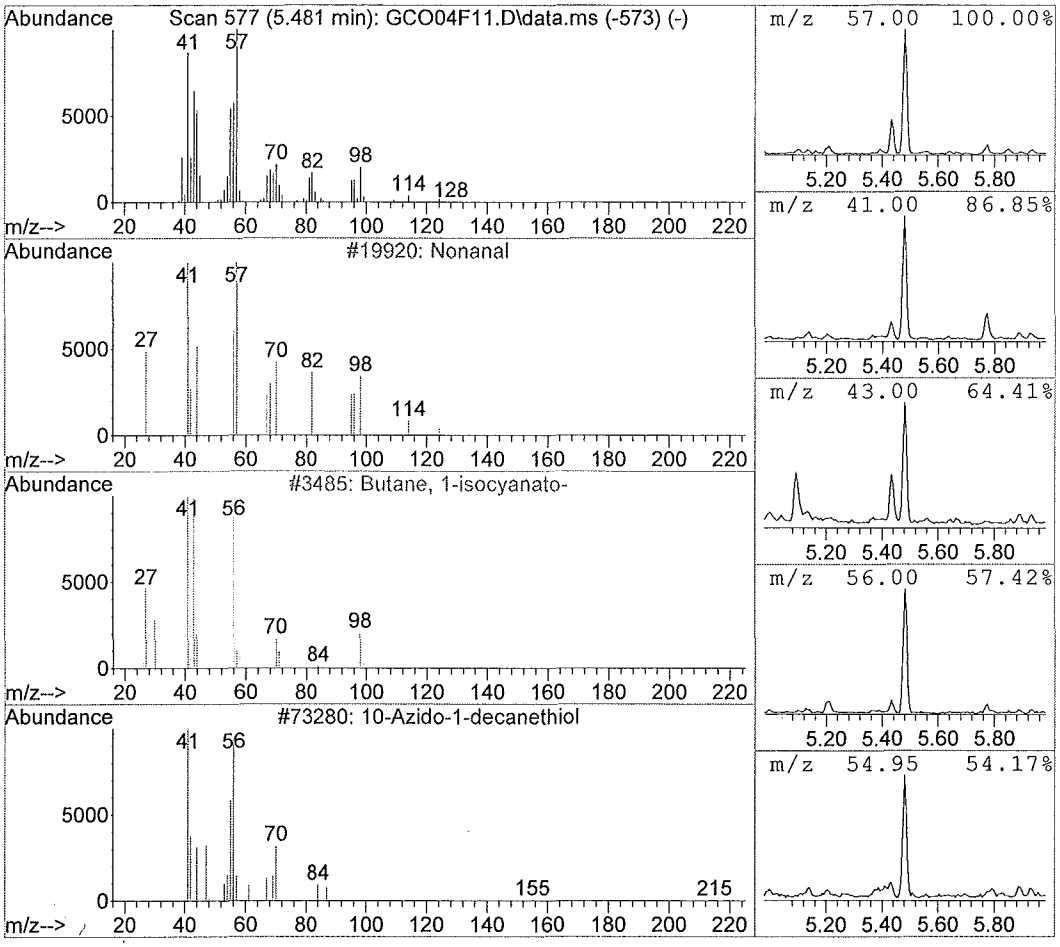
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.48	4.16 ug/ml	463677	1,4-Dichlorobenzene-d4	2227182

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonanal	19920	000124-19-6	53.00
2	Butane, 1-isocyanato-	3485	000111-36-4	38.00
3	10-Azido-1-decanethiol	73280	1152113-44-4	35.00
4	5-Methyl-2-hexene,c&t	3347	003404-62-4	35.00
5	2-Heptene	3295	000592-77-8	27.00



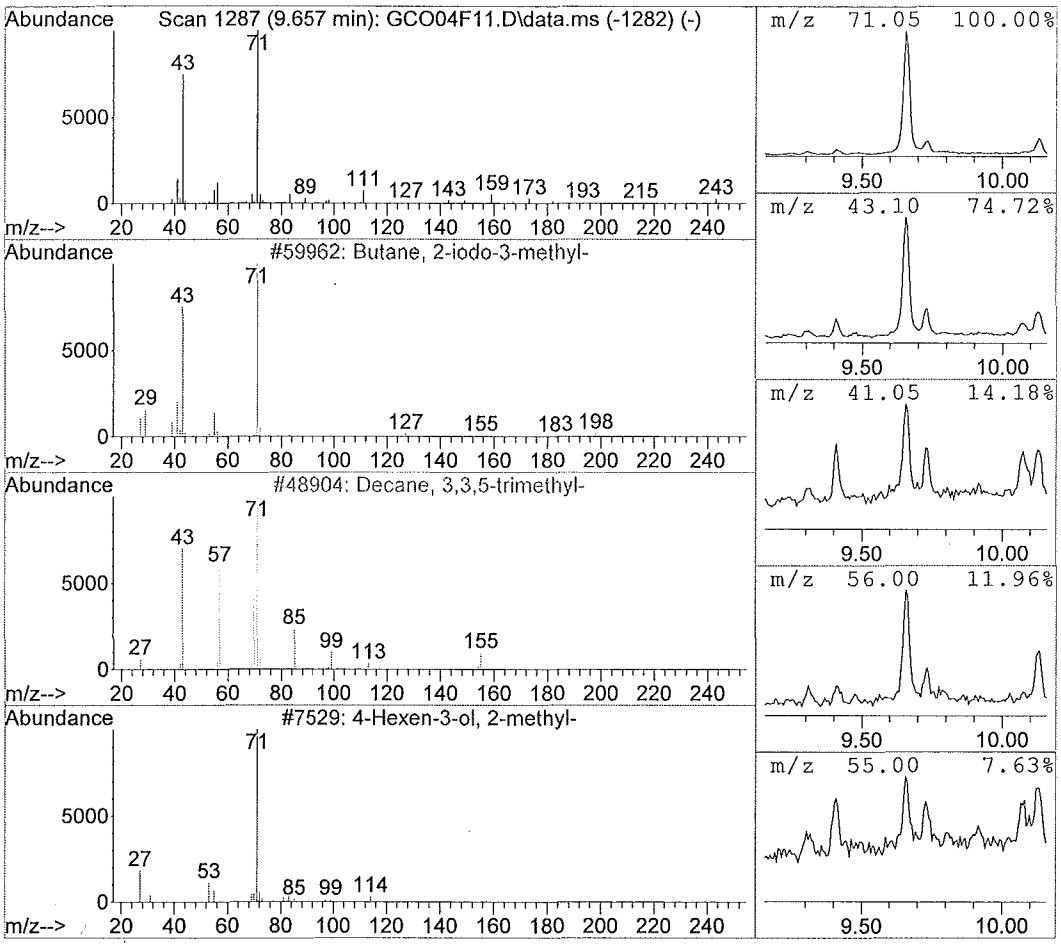
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.66	2.64 ug/ml	398723	Acenaphthene-d10	3019751

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butane, 2-iodo-3-methyl-	59962	018295-27-7	39.00
2	Decane, 3,3,5-trimethyl-	48904	062338-13-0	39.00
3	4-Hexen-3-ol, 2-methyl-	7529	004798-60-1	38.00
4	3-Buten-2-ol, 2-methyl-	1792	000115-18-4	38.00
5	Propanoic acid, 2-methyl-, 1-(1,1-d	132857	074381-40-1	35.00



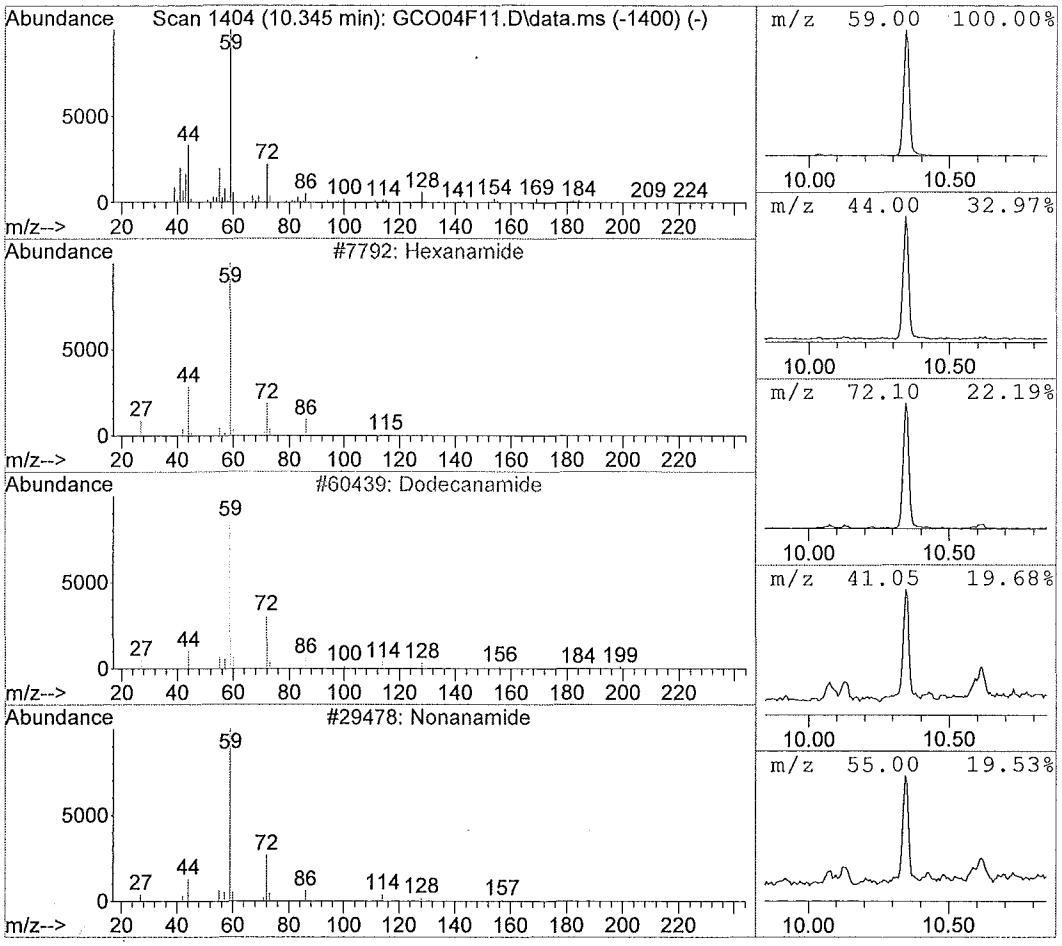
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.35	5.33 ug/ml	860796	Phenanthrene-d10	3232225

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexanamide	7792	000628-02-4	80.00
2	Dodecanamide	60439	001120-16-7	78.00
3	Nonanamide	29478	001120-07-6	72.00
4	Pentanamide	4064	000626-97-1	72.00
5	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	64.00



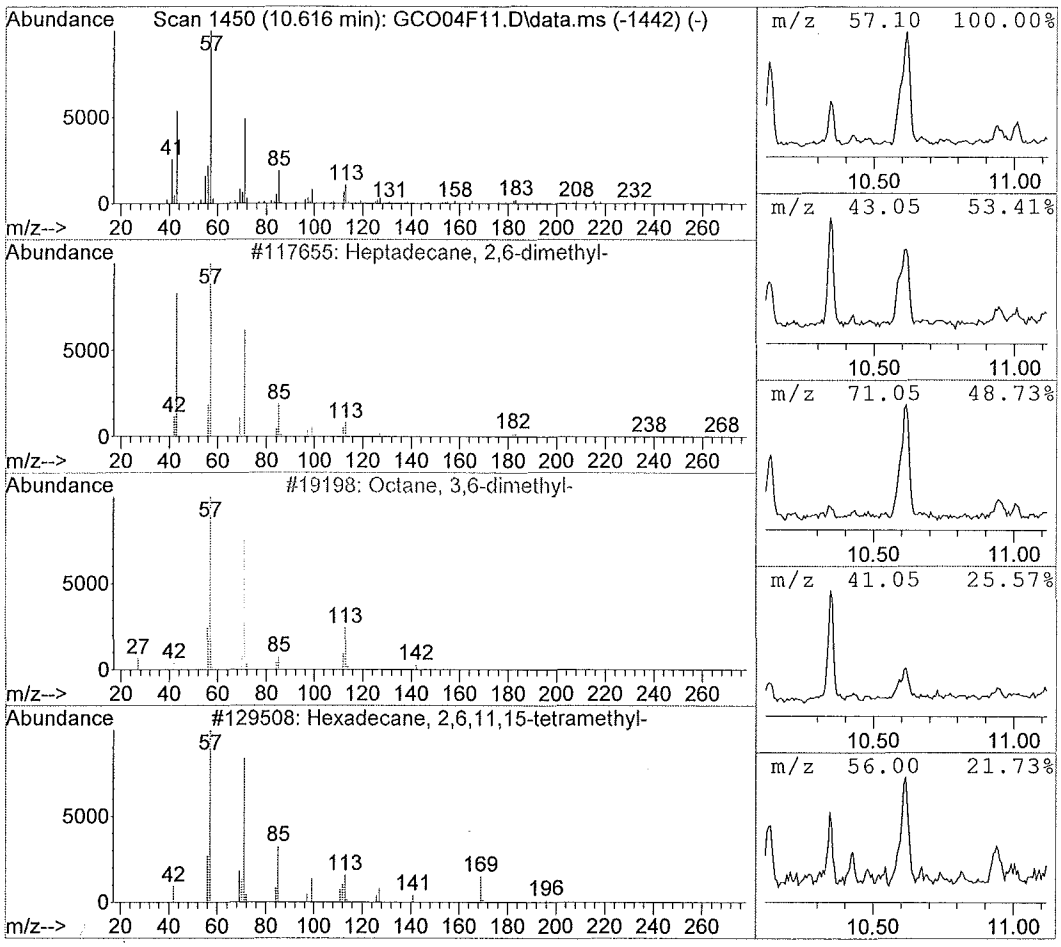
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.62	2.11 ug/ml	341729	Phenanthrene-d10	3232225

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane, 2,6-dimethyl- BA	117655	054105-67-8	72.00
2	Octane, 3,6-dimethyl-	19198	015869-94-0	64.00
3	Hexadecane, 2,6,11,15-tetramethyl-	129508	000504-44-9	64.00
4	Octane, 2,6-dimethyl-	19194	002051-30-1	64.00
5	Pentadecane, 2,6,10,14-tetramethyl-	117658	001921-70-6	64.00



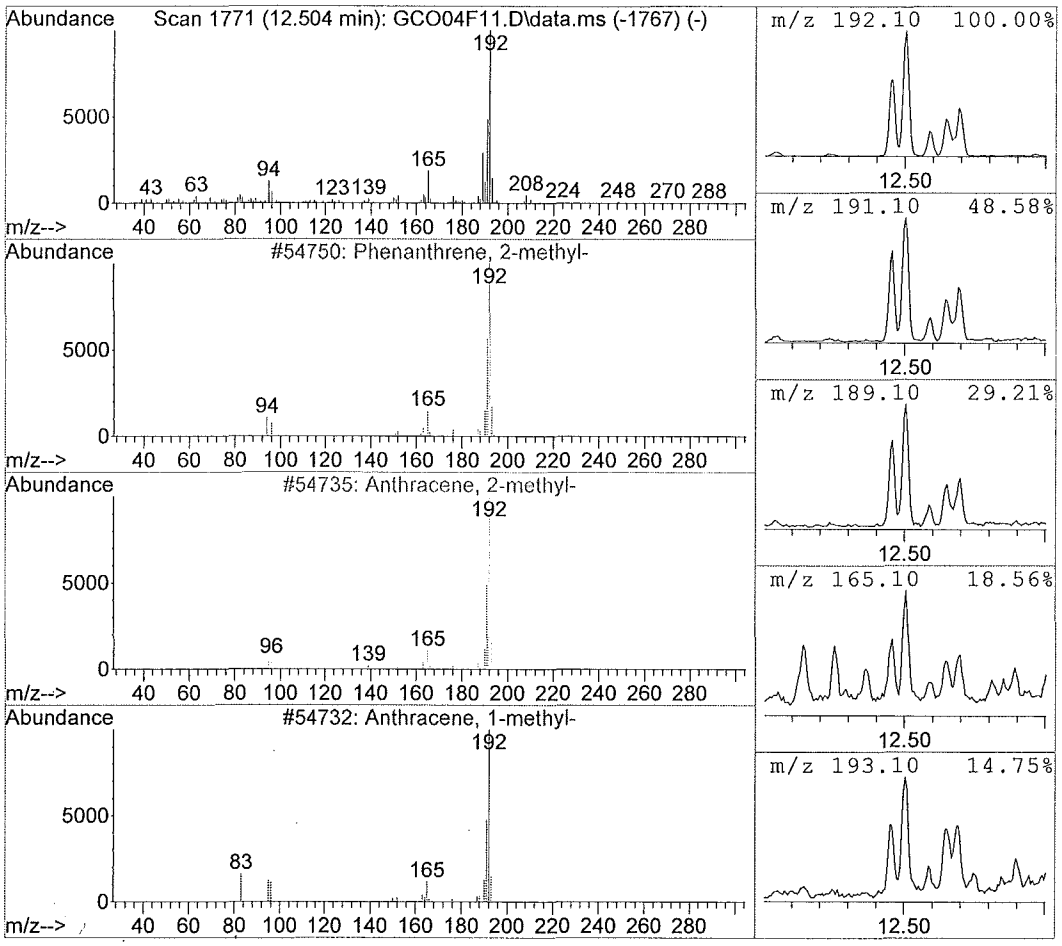
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.50	3.91 ug/ml	631967	Phenanthrene-d10	3232225

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2-methyl-	54750	002531-84-2	96.00
2	Anthracene, 2-methyl-	54735	000613-12-7	96.00
3	Anthracene, 1-methyl-	54732	000610-48-0	95.00
4	Phenanthrene, 3-methyl-	54754	000832-71-3	93.00
5	Phenanthrene, 1-methyl-	54753	000832-69-9	93.00



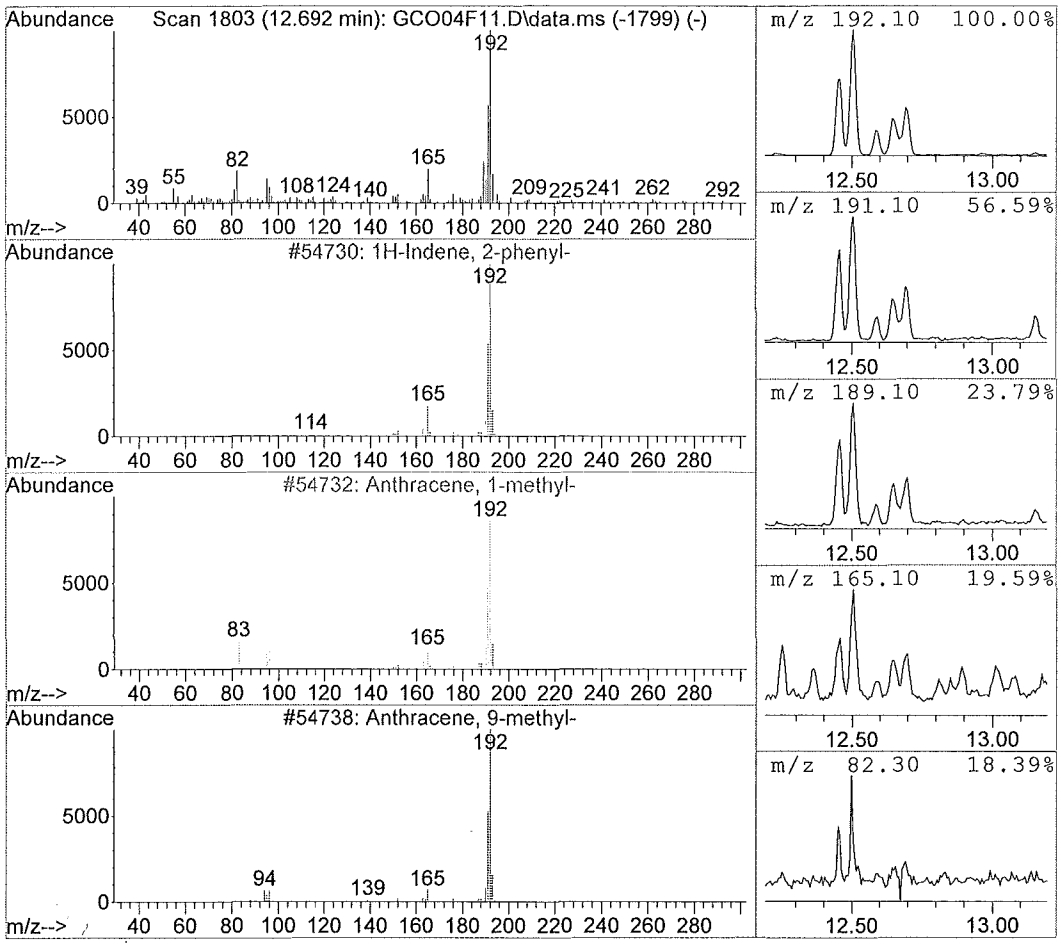
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.69	2.02 ug/ml	327020	Phenanthrene-d10	3232225

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Indene, 2-phenyl-	54730	004505-48-0	93.00
2	Anthracene, 1-methyl-	54732	000610-48-0	93.00
3	Anthracene, 9-methyl-	54738	000779-02-2	91.00
4	Phenanthrene, 2-methyl-	54750	002531-84-2	91.00
5	Phenanthrene, 4-methyl-	54745	000832-64-4	91.00



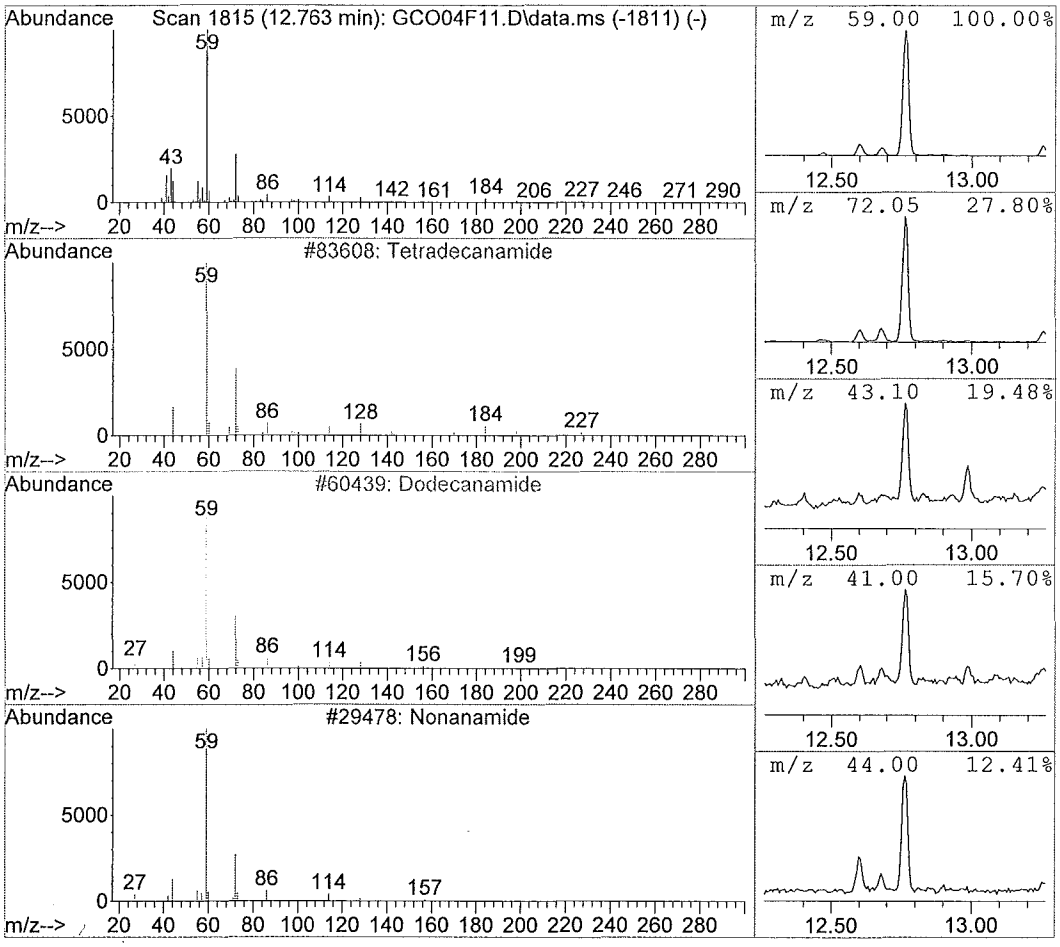
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.76	4.77 ug/ml	771551	Phenanthrene-d10	3232225

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	93.00
2	Dodecanamide	60439	001120-16-7	90.00
3	Nonanamide	29478	001120-07-6	78.00
4	Octanamide	20317	000629-01-6	78.00
5	Decanamide-	38977	002319-29-1	74.00



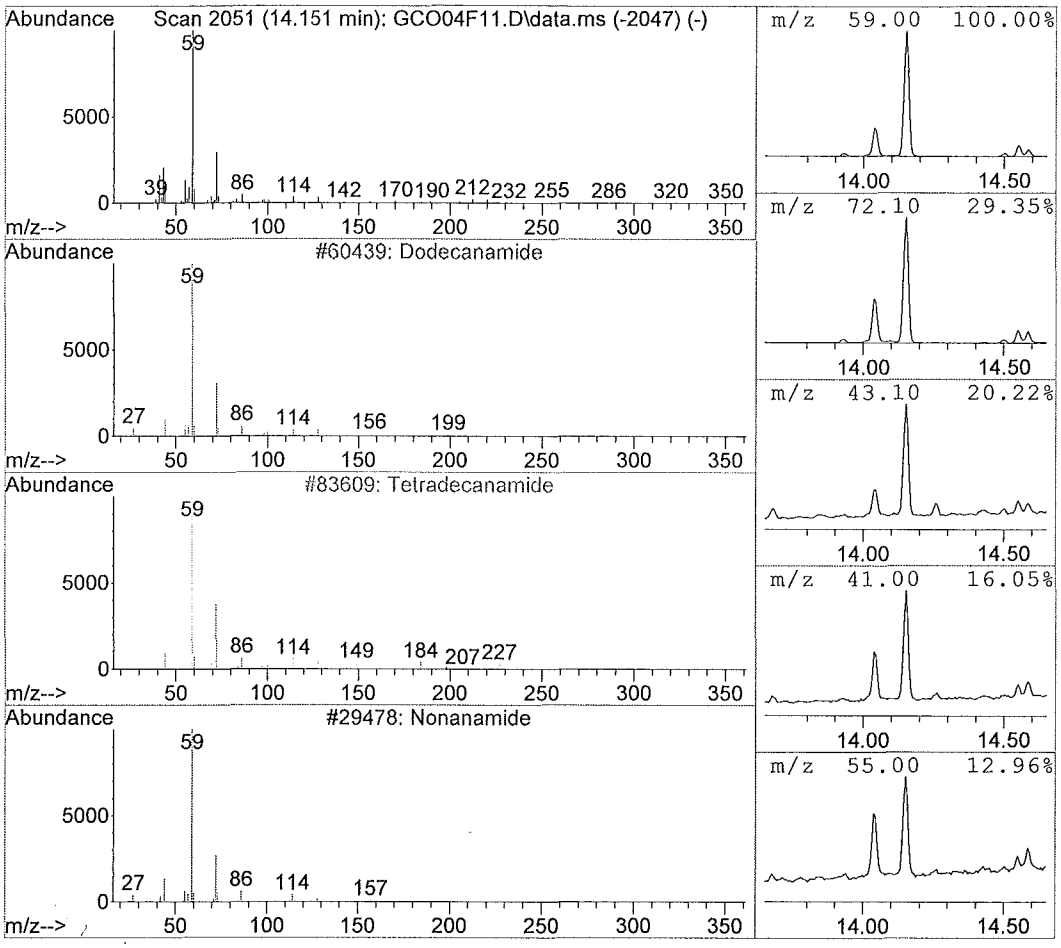
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	14.97 ug/ml	2765126	Chrysene-d12	3694348

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Tetradecanamide	83609	000638-58-4	83.00
3	Nonanamide	29478	001120-07-6	83.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
5	Decanamide-	38977	002319-29-1	74.00



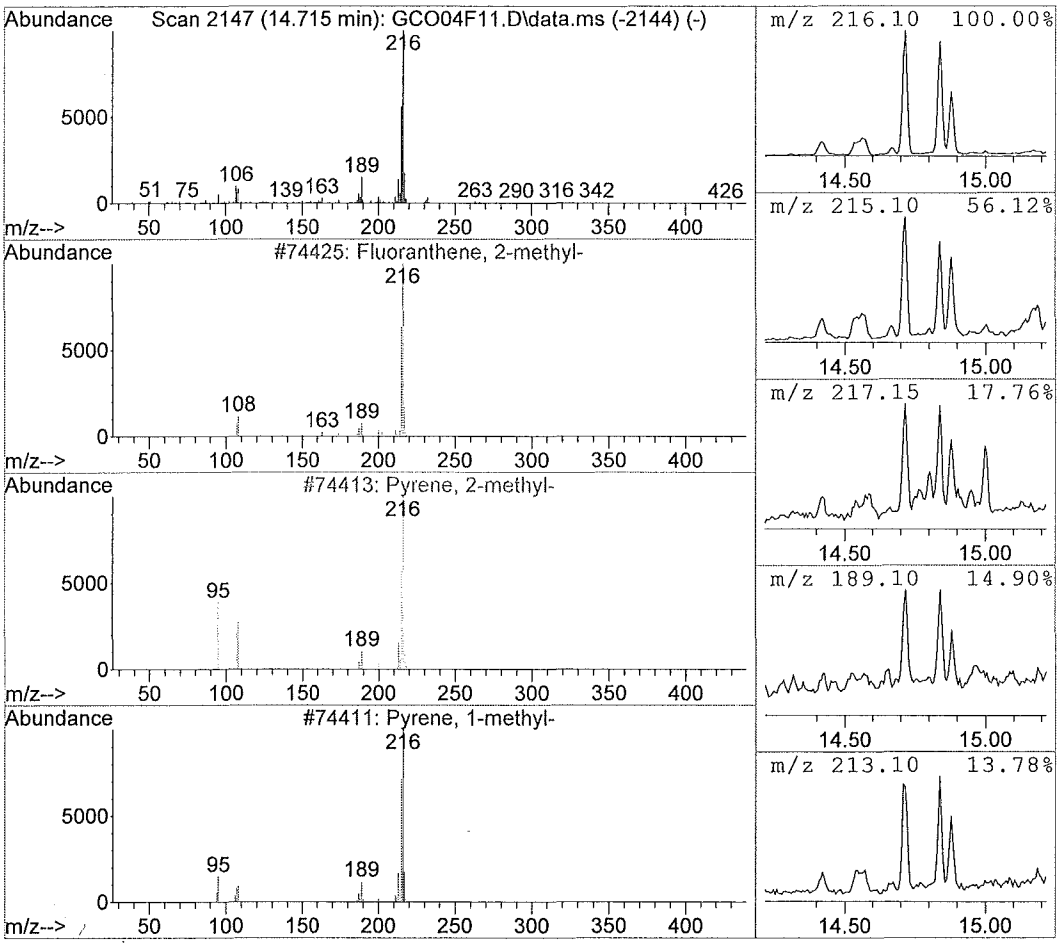
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.72	2.00 ug/ml	369452	Chrysene-d12	3694348

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Fluoranthene, 2-methyl-	74425	033543-31-6	96.00
2	Pyrene, 2-methyl-	74413	003442-78-2	94.00
3	Pyrene, 1-methyl-	74411	002381-21-7	94.00
4	11H-Benzo[a]fluorene	74419	000238-84-6	91.00
5	Pyrene, 4-methyl-	74409	003353-12-6	90.00



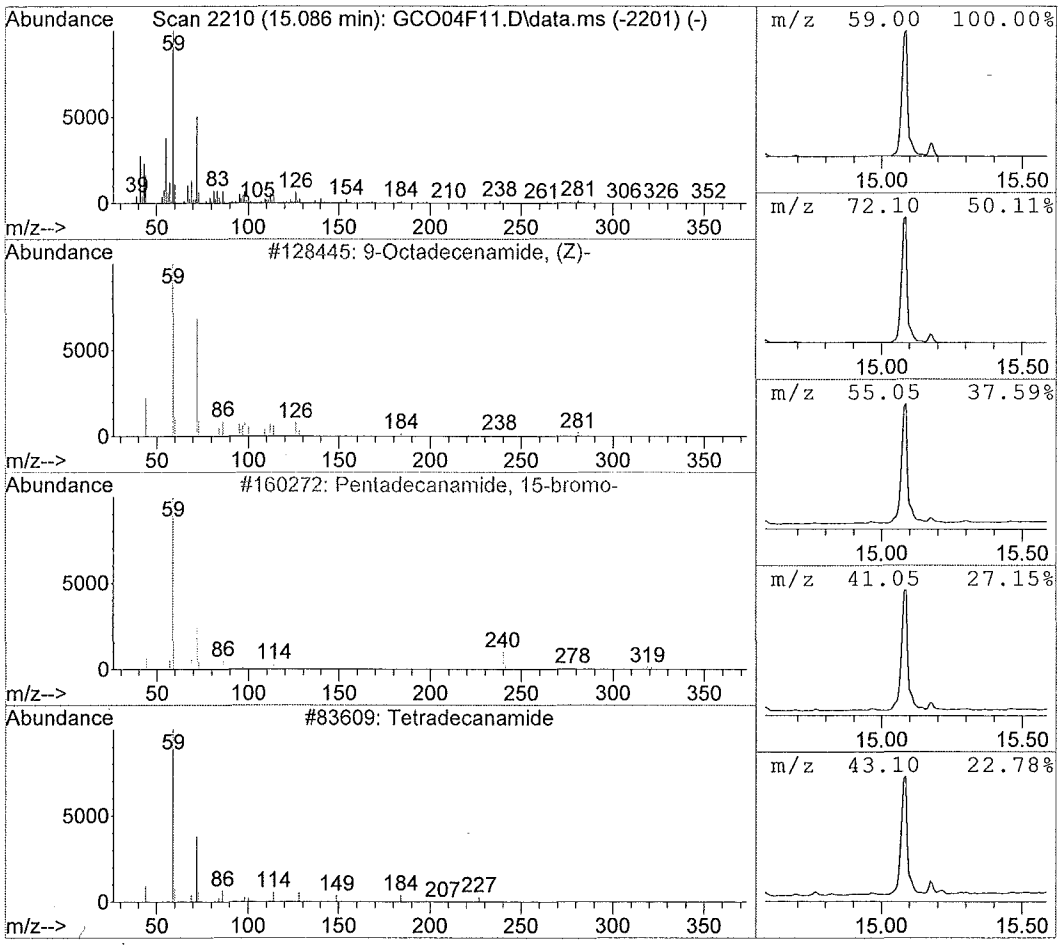
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.09	92.78 ug/ml	17137605	Chrysene-d12	3694348

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	97.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	83.00
3	Tetradecanamide	83609	000638-58-4	56.00
4	Hexadecanamide	106565	000629-54-9	56.00
5	Decanamide-	38977	002319-29-1	56.00



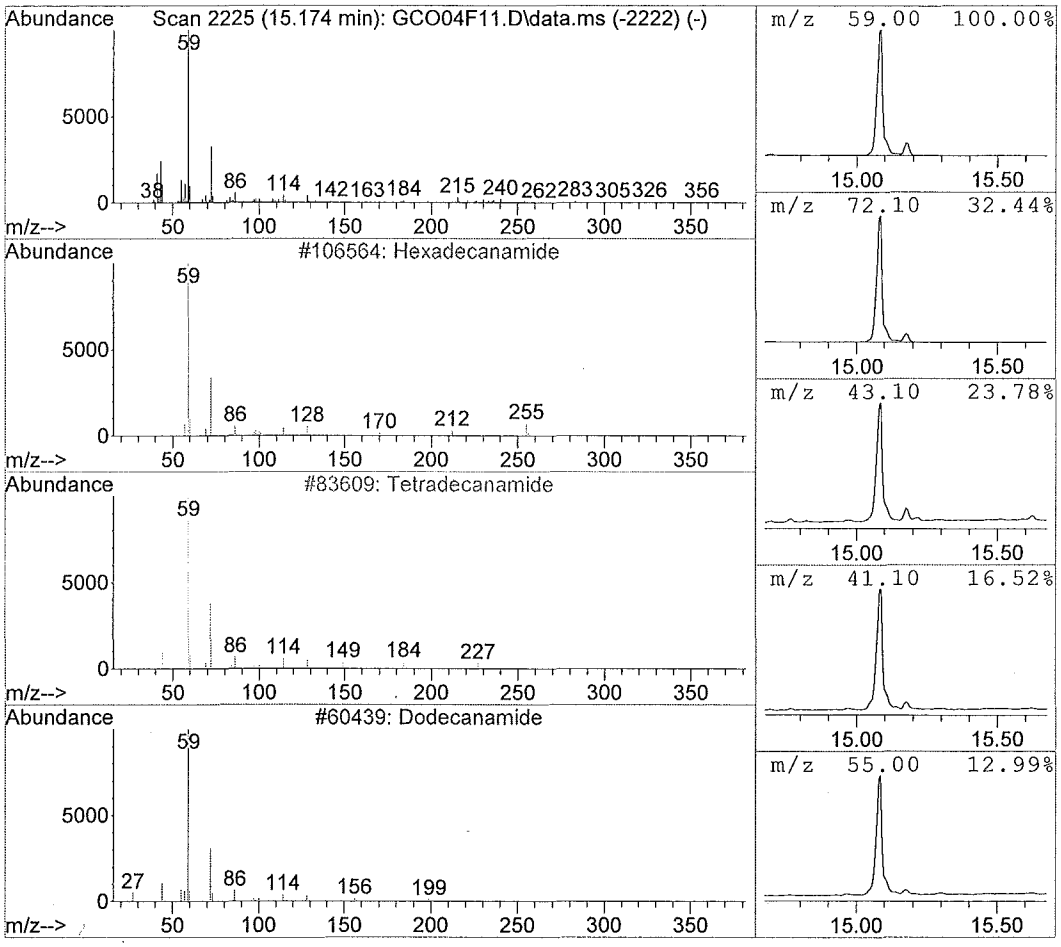
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	4.69 ug/ml	866989	Chrysene-d12	3694348

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	94.00
2	Tetradecanamide	83609	000638-58-4	83.00
3	Dodecanamide	60439	001120-16-7	80.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	78.00
5	Decanamide-	38977	002319-29-1	78.00



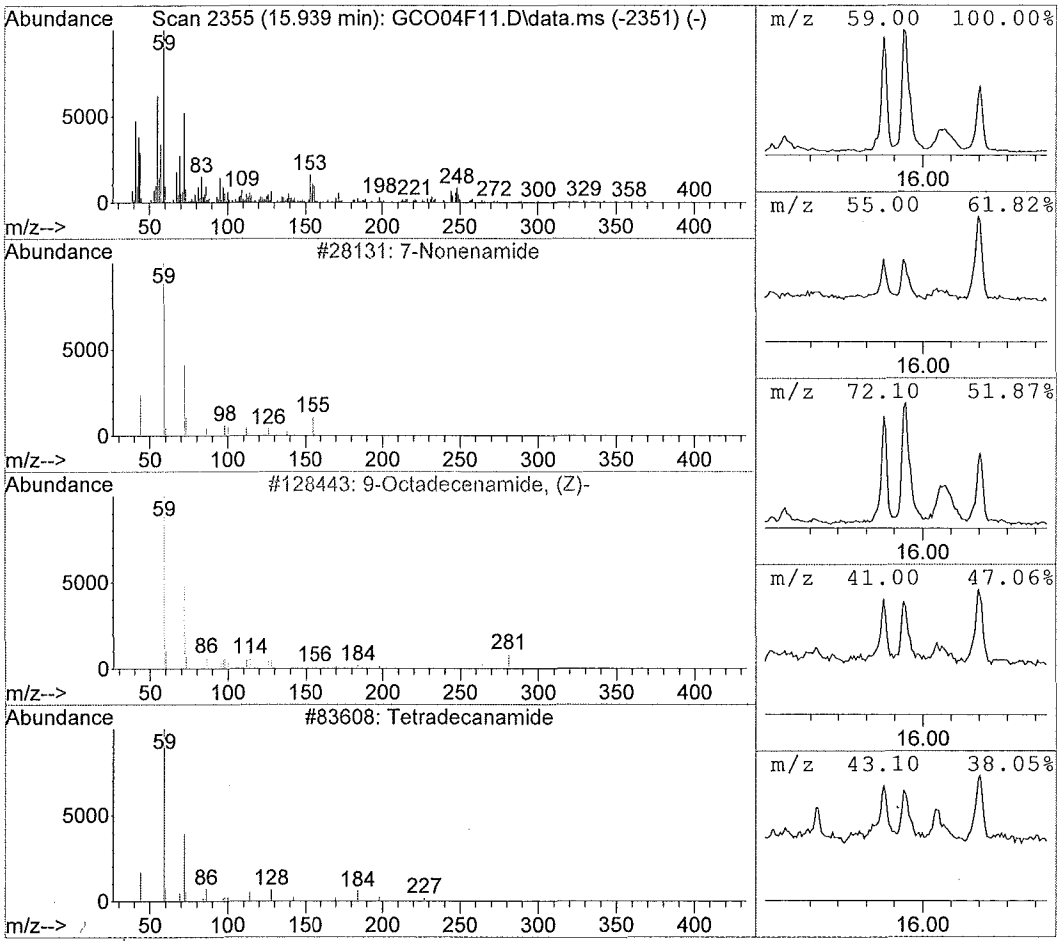
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.94	7.27 ug/ml	1342928	Chrysene-d12	3694348

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	76.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	58.00
3	Tetradecanamide	83608	000638-58-4	53.00
4	Dodecanamide	60440	001120-16-7	53.00
5	Octadecanamide	130205	000124-26-5	43.00



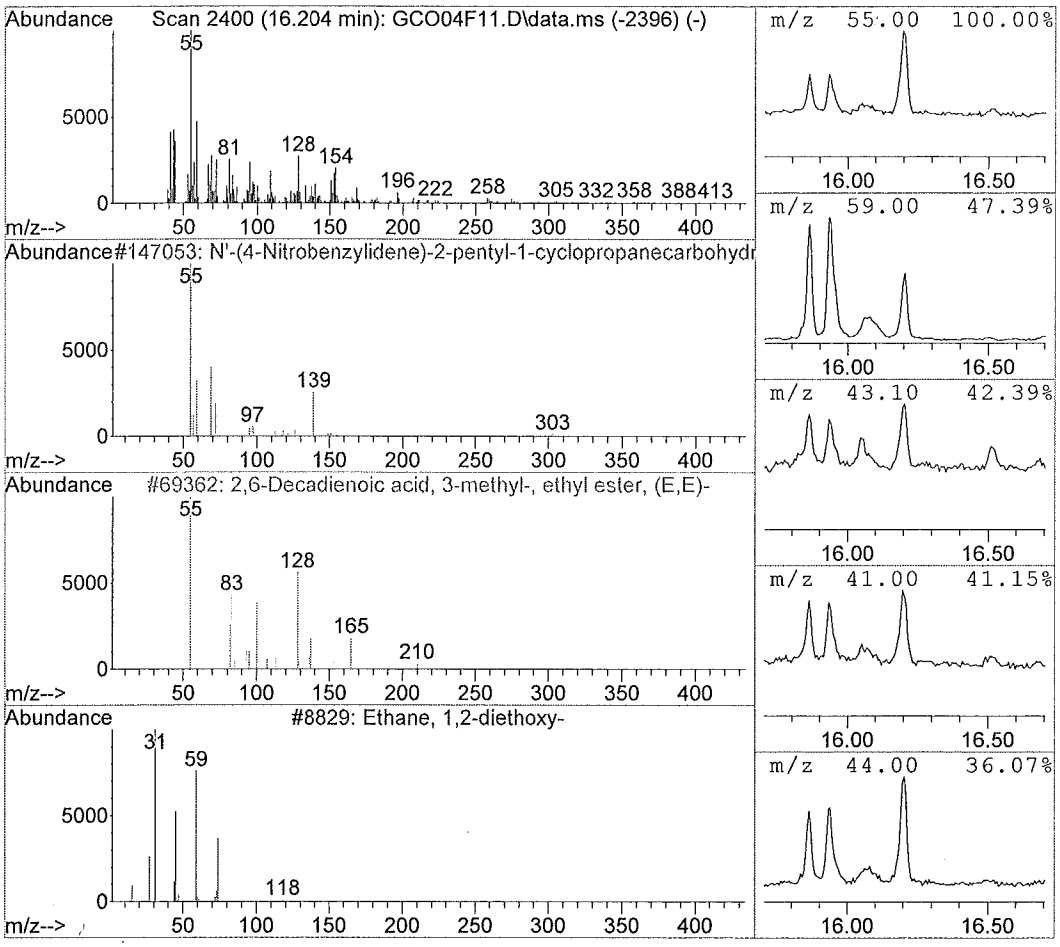
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO04F11.D Vial: 4
Acq On : 07/08/2015 09:50 Operator: TJM
Sample : 1515375011 F9M06 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	6.41 ug/ml	1184267	Chrysene-d12	3694348

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	N'-(4-Nitrobenzylidene)-2-pentyl-1-	147053	339027-09-7	16.00
2	2,6-Decadienoic acid, 3-methyl-, et	69362	055283-33-5	10.00
3	Ethane, 1,2-diethoxy-	8829	000629-14-1	9.00
4	Cyclohexanecarboxamide	11822	001122-56-1	9.00
5	1-Propanol, 3-bromo-	17048	000627-18-9	9.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M07

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375012

Sample wt/vol: 30.5 (g/mL) g Lab File ID: GC005F12

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 6.7 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	330	J
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	1100	J
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	3600	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	3600	U
83-32-9	Acenaphthene	1900	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M07

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375012

Sample wt/vol: 30.5 (g/mL) g Lab File ID: GC005F12

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	3600	U
100-02-7	4-Nitrophenol	3600	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	3600	U
534-52-1	4,6-Dinitro-2-methylphenol	3600	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	3600	U
85-01-8	Phenanthrene	500	J
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	560	J
85-68-7	Butylbenzylphthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	160	J
218-01-9	Chrysene	520	J
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.

F9M07

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375012

Sample wt/vol: 30.5 (g/mL) g Lab File ID: GC005F12

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 6.7 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-	3.49	4200	JB
02		Unknown 5(4H)-Oxazolone, 2-(1,1-dimethylethyl)-	4.25	1900	J
03		Unknown Benzene, propyl-	4.40	1700	J
04		Unknown 4-Undecene, (E)-	5.13	1800	J
05	91-17-8	Naphthalene, decahydro-	5.26	1600	JN
06		Unknown 1-Decene, 10-bromo-	5.39	3800	J
07		Unknown trans-2,4-Dimethylthiane, S,S-dioxide	5.49	1200	J
08		Unknown Sulfurous acid, butyl dodecyl ester	5.56	2000	J
09	2958-76-1	Naphthalene, decahydro-2-methyl-	5.70	2000	JN
10	2547-27-5	trans-4a-Methyl-decahydronaphthalene	5.83	2600	JN
11		Unknown Oxalic acid, cyclobutyl pentadecyl ester	5.90	1800	J
12	527-84-4	o-Cymene	5.94	3900	JN
13		Unknown 4-Nonene, 5-butyl-	6.03	1400	J
14		Unknown Naphthalene, decahydro-1,2-dimethyl-	6.14	1200	J
15		Unknown Sulfurous acid, butyl dodecyl ester	6.23	4900	J
16		Unknown Benzene, pentamethyl-	6.37	2400	J
17		Unknown Benzene, pentamethyl-	6.46	1600	J
18		Unknown 2(1H)-Naphthalenone, octahydro-8a-methyl	6.49	1300	J
19		Unknown Dichloroacetic acid, 3-tridecyl ester	6.89	1400	J
20		Unknown trans,trans-1,7-Dimethylspiro[4.5]decane	6.95	3000	J
21		Unknown 1-Undecene, 7-methyl-	7.00	5800	J
22		Unknown Cyclopropanecarboxamide, N-(4-fluorophen	7.30	2500	J
23		Unknown Dodecane, 1-fluoro-	7.51	4500	J
24	7206-21-5	5-Octadecene, (E)-	7.95	4300	JN
25	575-43-9	Naphthalene, 1,6-dimethyl-	8.38	1700	JN
26		Unknown 1-Undecene, 7-methyl-	8.72	1300	J
27		Unknown Oxalic acid, isobutyl nonyl ester	8.86	3300	J
28	2425-77-6	1-Decanol, 2-hexyl-	10.95	4900	JN
29	2319-29-1	Decanamide-	14.16	4900	JN
30	301-02-0	9-Octadecenamide, (Z)-	15.09	22000	JNB
	E966796[2]	Total Alkanes	N/A	200000	J

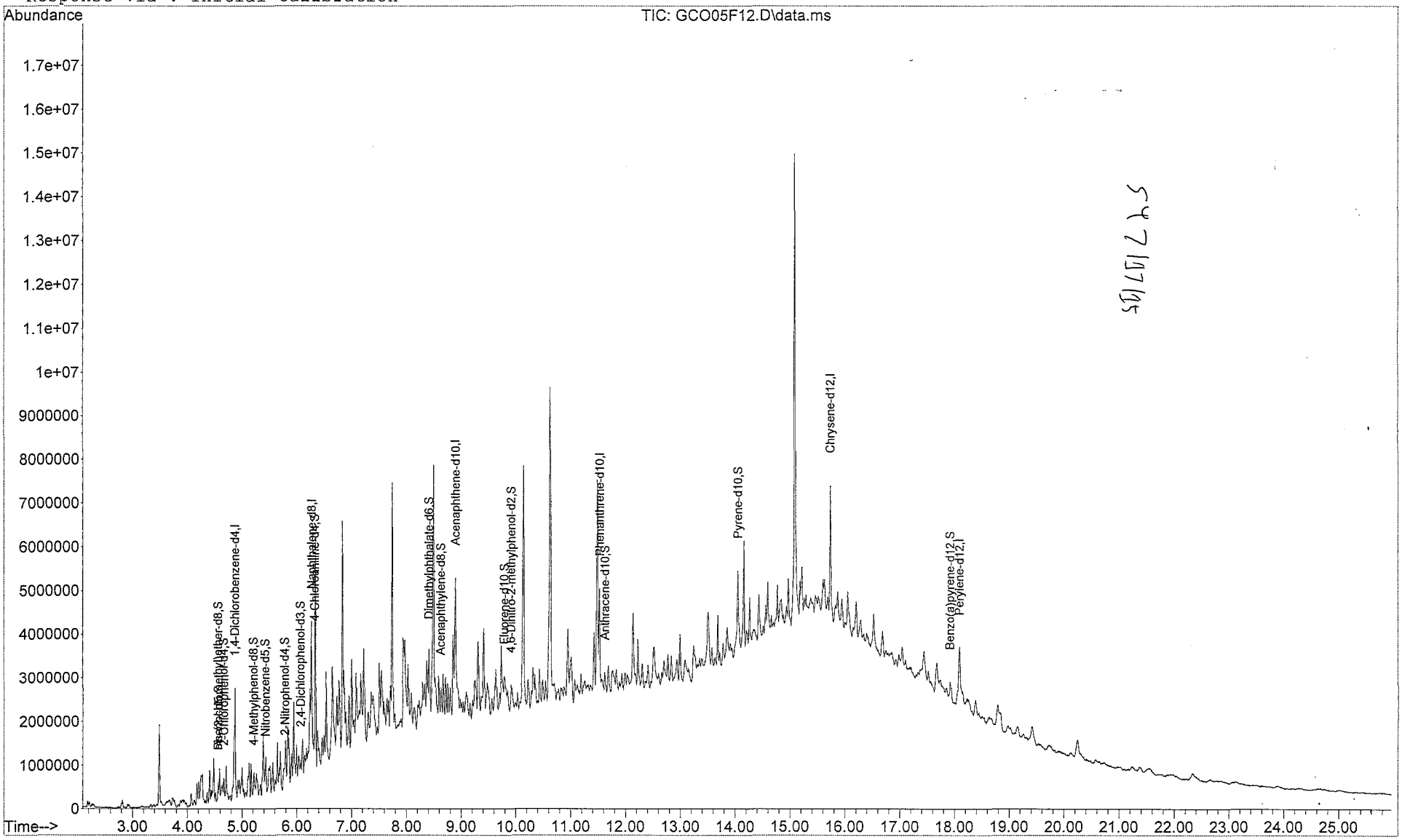
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 07:29:23 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



574197105

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 07:29:23 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	342487	20.00 ug/ml
16) Naphthalene-d8	6.27	136	1283681	20.00 ug/ml
33) Acenaphthene-d10	8.90	164	766734	20.00 ug/ml
59) Phenanthrene-d10	11.53	188	1332132	20.00 ug/ml
73) Chrysene-d12	15.74	240	1356782	20.00 ug/ml
81) Perylene-d12	18.10	264	884195	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.56	99	79966	2.683ug/ml m SY 7/17/15
6) bis-(2-chloroethyl)ether-d	4.56	67	97714	4.207ug/mL
7) 2-Chlorophenol-d4	4.66	132	78424	3.116ug/ml
13) 4-Methylphenol-d8	5.20	113	38525	1.933ug/mL
17) Nitrobenzene-d5	5.42	128	40089	3.555ug/ml
21) 2-Nitrophenol-d4	5.77	143	38629	3.241ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	58470	3.150ug/mL
28) 4-Chloroaniline-d4	6.32	131	80063	3.952ug/mL
42) Dimethylphthalate-d6	8.41	166	192113	3.996ug/mL
45) Acenaphthylene-d8	8.63	160	243902	3.733ug/mL
50) 4-Nitrophenol-d4	9.16	143	2669	0.272ug/mL
57) Fluorene-d10	9.79	176	169650	4.132ug/mL
61) 4,6-Dinitro-2-methylphenol	9.91	200	14109	1.492ug/mL
69) Anthracene-d10	11.63	188	275555	3.901ug/mL
75) Pyrene-d10	14.05	212	256308	3.785ug/mL
86) Benzo(a)pyrene-d12	17.92	264	157024	3.706ug/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	6.29	128	58384	0.900ug/ml	79
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	7.25	142	126019	3.069ug/ml	87
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

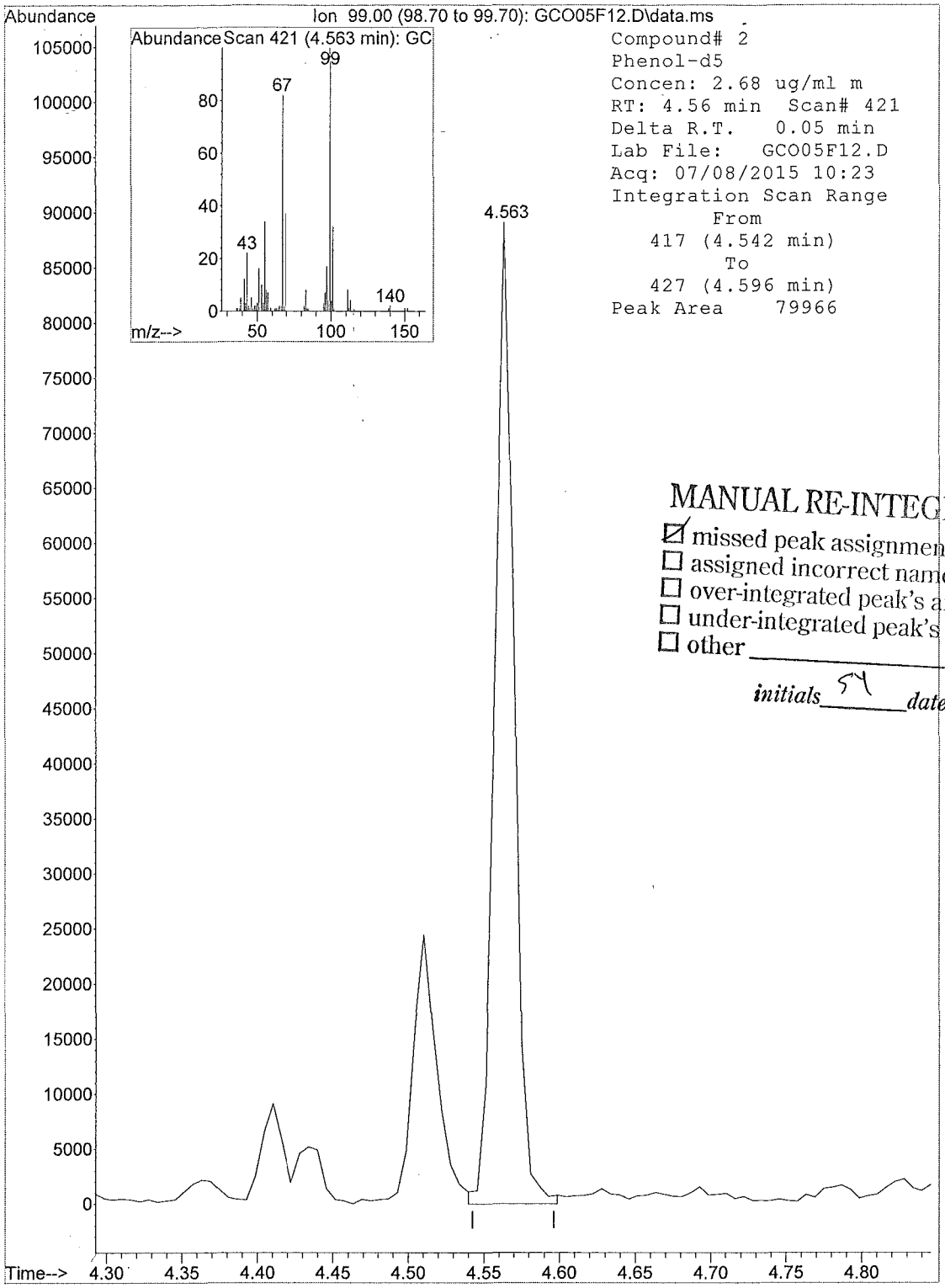
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GC005F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 07:29:23 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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	11.57	178	96521	1.358ug/ml	92
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	14.07	202	133530	1.546ug/ml	92
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.72	228	36399	0.442ug/ml m SY	55
79)	Chrysene	15.75	228	105793	1.423ug/ml m	69
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected 7/17/15	
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)

M A N U A L I N T E G R A T I O N FOR Phenol-d5

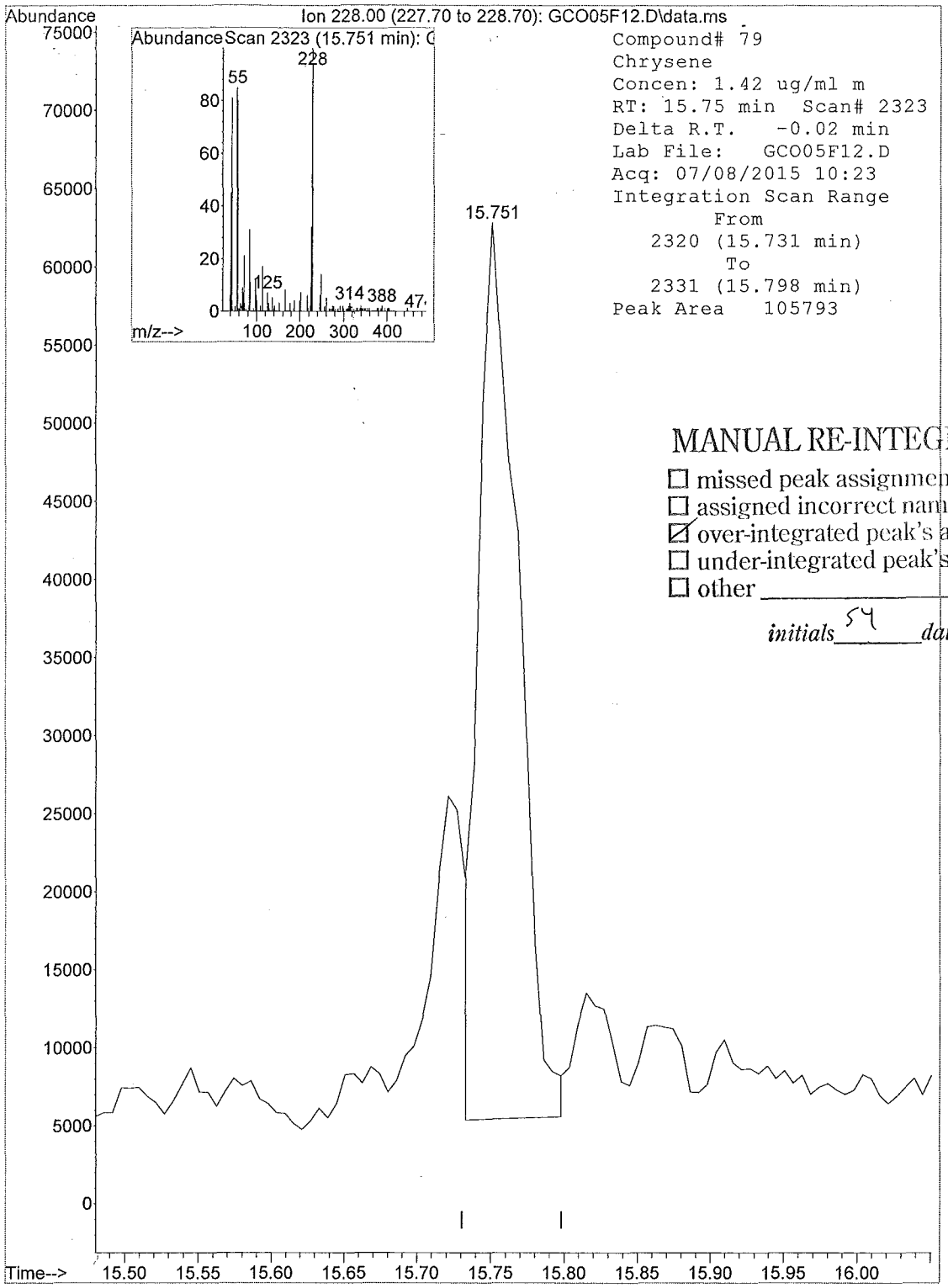


MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/17/15

M A N U A L I N T E G R A T I O N FOR Chrysene



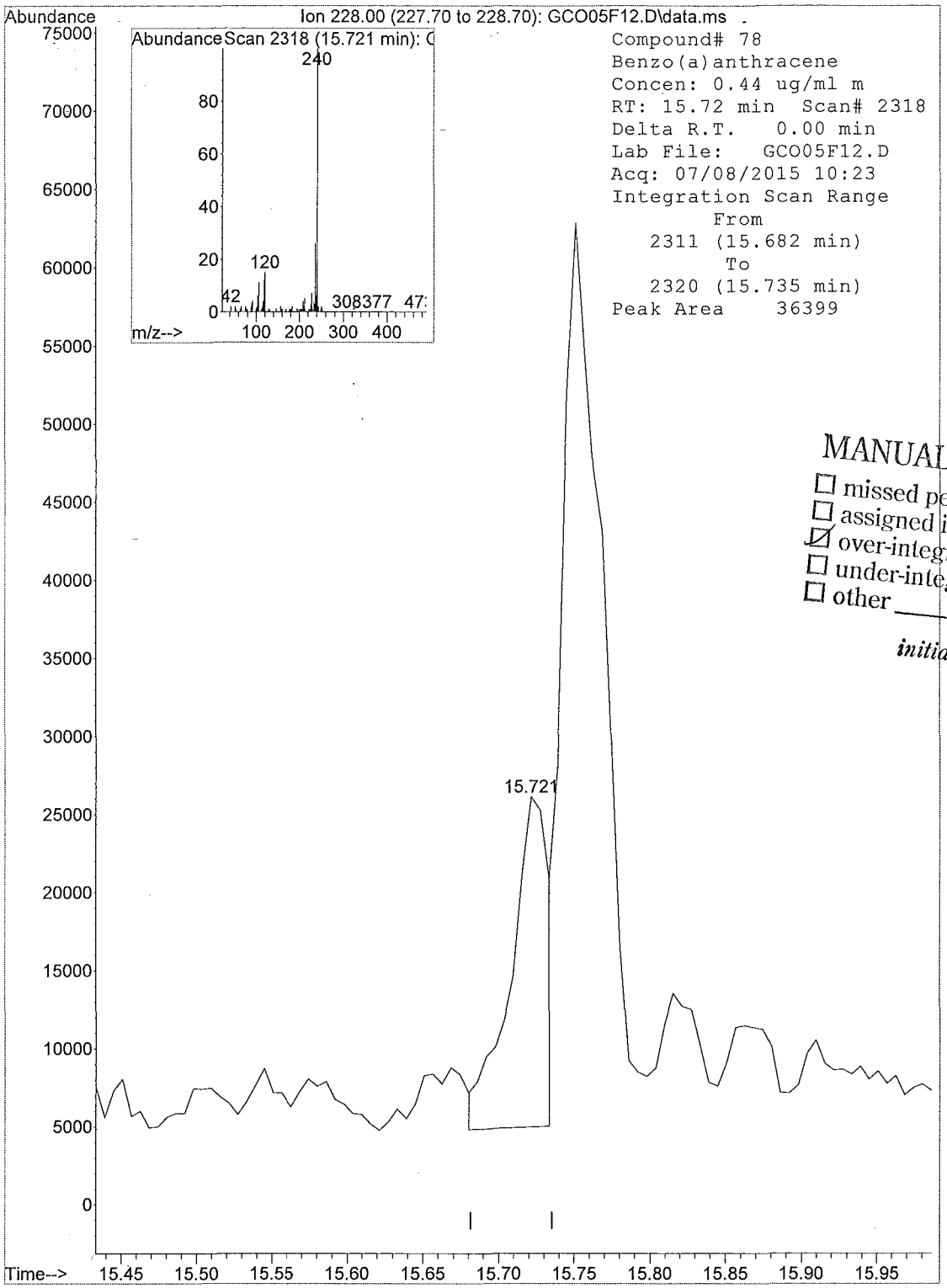
Compound# 79
Chrysene
Concen: 1.42 ug/ml m
RT: 15.75 min Scan# 2323
Delta R.T. -0.02 min
Lab File: GCO05F12.D
Acq: 07/08/2015 10:23
Integration Scan Range
From
2320 (15.731 min)
To
2331 (15.798 min)
Peak Area 105793

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 7/17/15

M A N U A L I N T E G R A T I O N FOR Benzo(a)anthracene

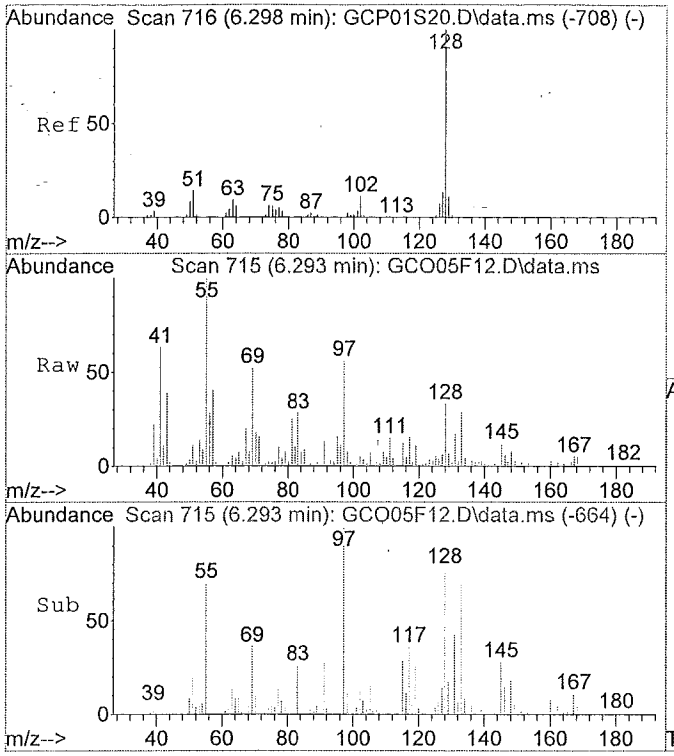


MANUAL RE-INTEGRA

☐ missed peak assignment
☐ assigned incorrect name
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other

initials SY date 7/17/15

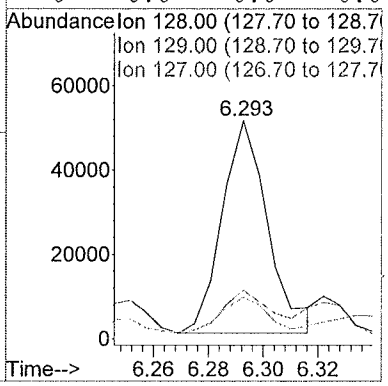
GSOM01D6.M 5975-G GSOM01D6.M 1515375012 F9M07 (10) . SOIL SOM

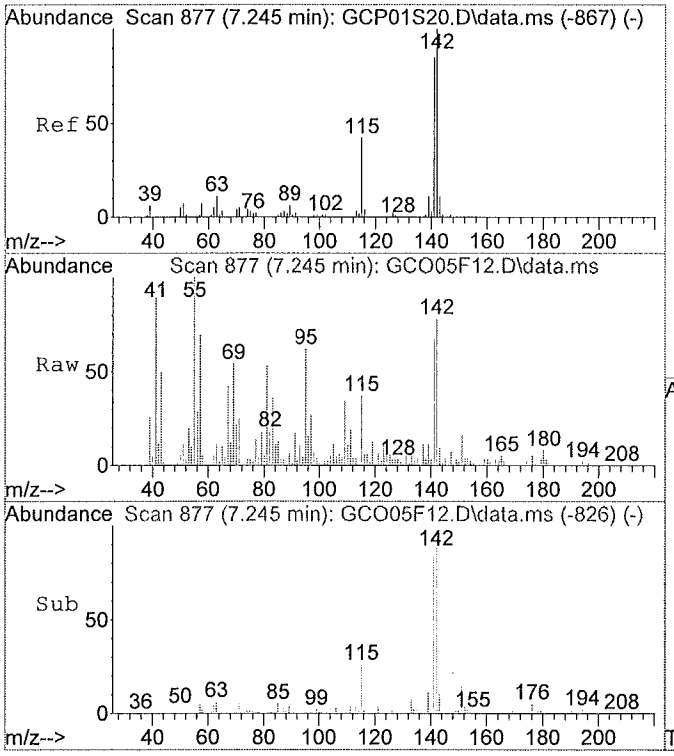


#26
Naphthalene
Concen: 0.90 ug/ml
RT: 6.29 min Scan# 715
Delta R.T. 0.00 min
Lab File: GCO05F12.D
Acq: 07/08/2015 10:23

Tgt Ion:128 Resp: 58384

Ion	Ratio	Lower	Upper
128	100		
129	23.2	7.8	14.4#
127	18.0	9.3	17.3#
0	0.0	0.0	0.0

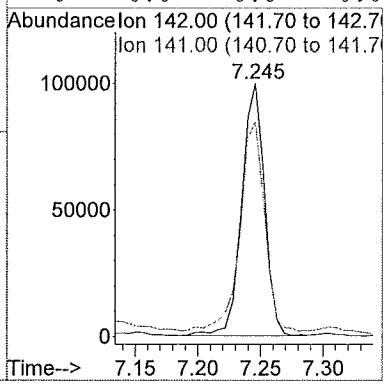


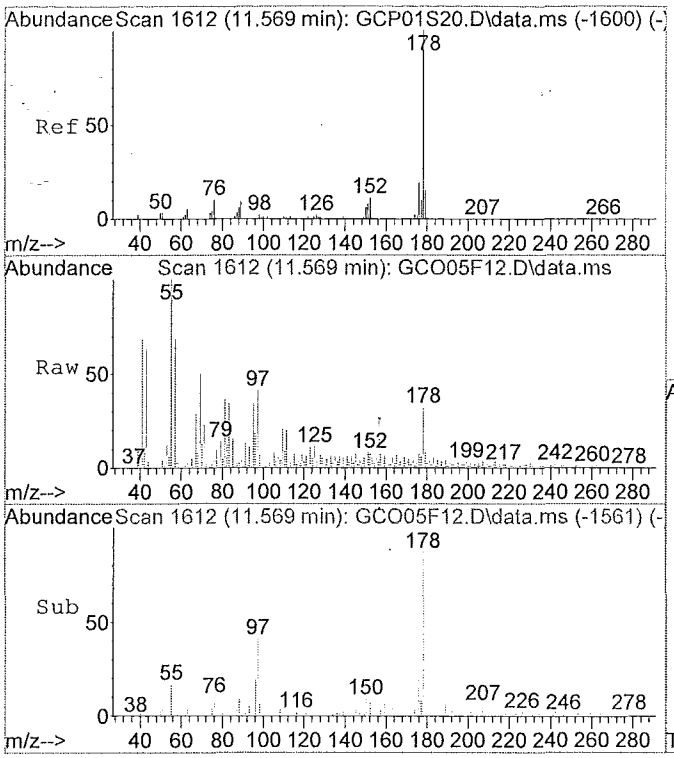


#32
2-Methylnaphthalene
Concen: 3.07 ug/ml
RT: 7.25 min Scan# 877
Delta R.T. 0.00 min
Lab File: GCO05F12.D
Acq: 07/08/2015 10:23

Tgt Ion:142 Resp: 126019

Ion	Ratio	Lower	Upper
142	100		
141	94.4	57.7	107.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

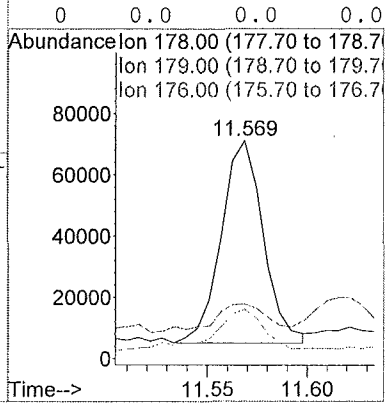


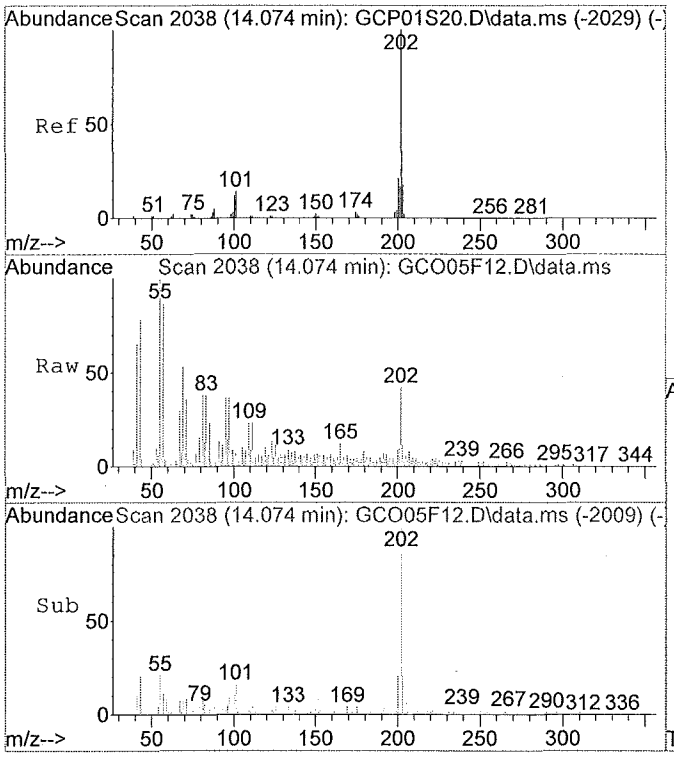


#67
Phenanthrene
Concen: 1.36 ug/ml
RT: 11.57 min Scan# 1612
Delta R.T. 0.00 min
Lab File: GCO05F12.D
Acq: 07/08/2015 10:23

Tgt Ion:178 Resp: 96521

Ion	Ratio	Lower	Upper
178	100		
179	16.0	10.6	19.8
176	24.3	13.2	24.4
0	0.0	0.0	0.0

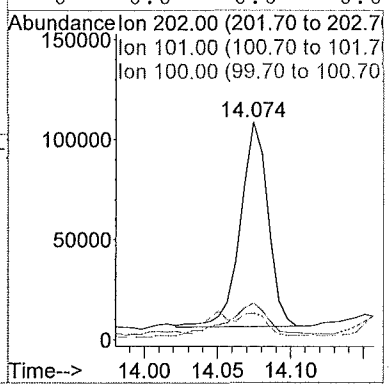


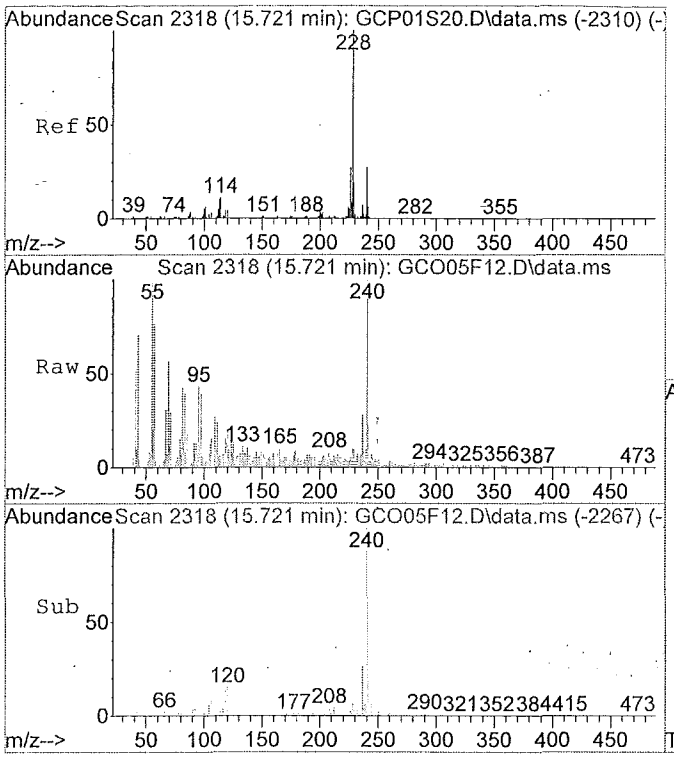


#74
Pyrene
Concen: 1.55 ug/ml
RT: 14.07 min Scan# 2038
Delta R.T. 0.00 min
Lab File: GCO05F12.D
Acq: 07/08/2015 10:23

Tgt Ion:202 Resp: 133530

Ion	Ratio	Lower	Upper
202	100		
101	21.3	12.2	22.7
100	11.3	10.1	18.7
0	0.0	0.0	0.0

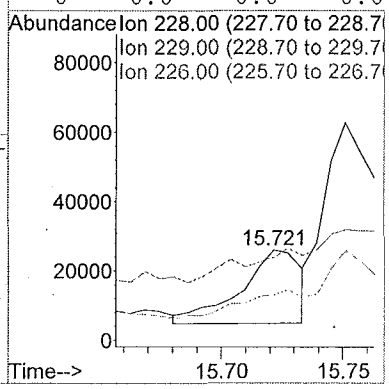


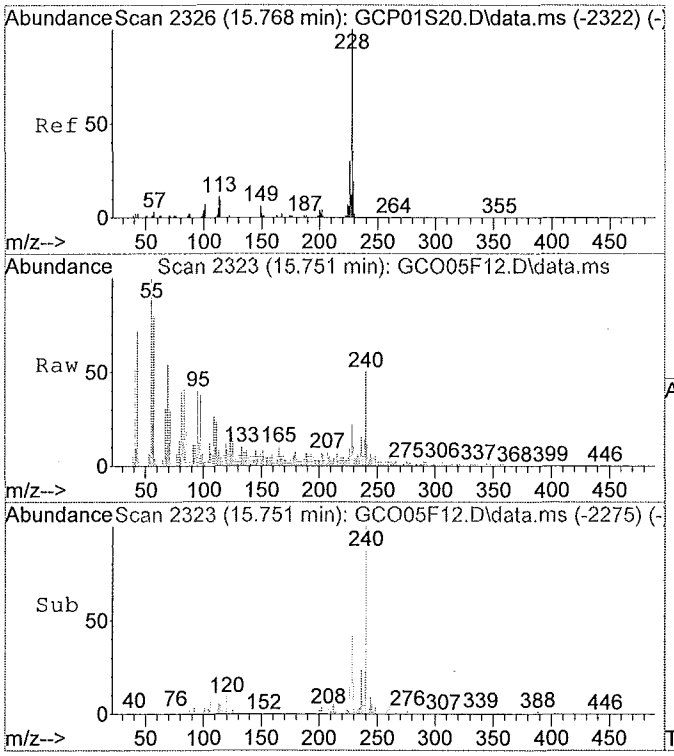


#78
Benzo(a)anthracene
Concen: 0.44 ug/ml m
RT: 15.72 min Scan# 2318
Delta R.T. 0.00 min
Lab File: GCO05F12.D
Acq: 07/08/2015 10:23

Tgt Ion:228 Resp: 36399

Ion	Ratio	Lower	Upper
228	100		
229	0.0	13.7	25.5#
226	0.0	18.2	33.8#
0	0.0	0.0	0.0

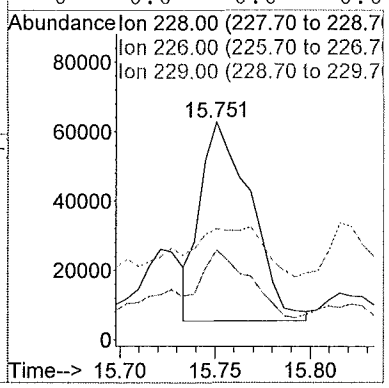




#79
Chrysene
Concen: 1.42 ug/ml m
RT: 15.75 min Scan# 2323
Delta R.T. -0.02 min
Lab File: GCO05F12.D
Acq: 07/08/2015 10:23

Tgt Ion:228 Resp: 105793

Ion	Ratio	Lower	Upper
228	100		
226	45.0	20.1	37.3#
229	60.0	13.7	25.5#
0	0.0	0.0	0.0



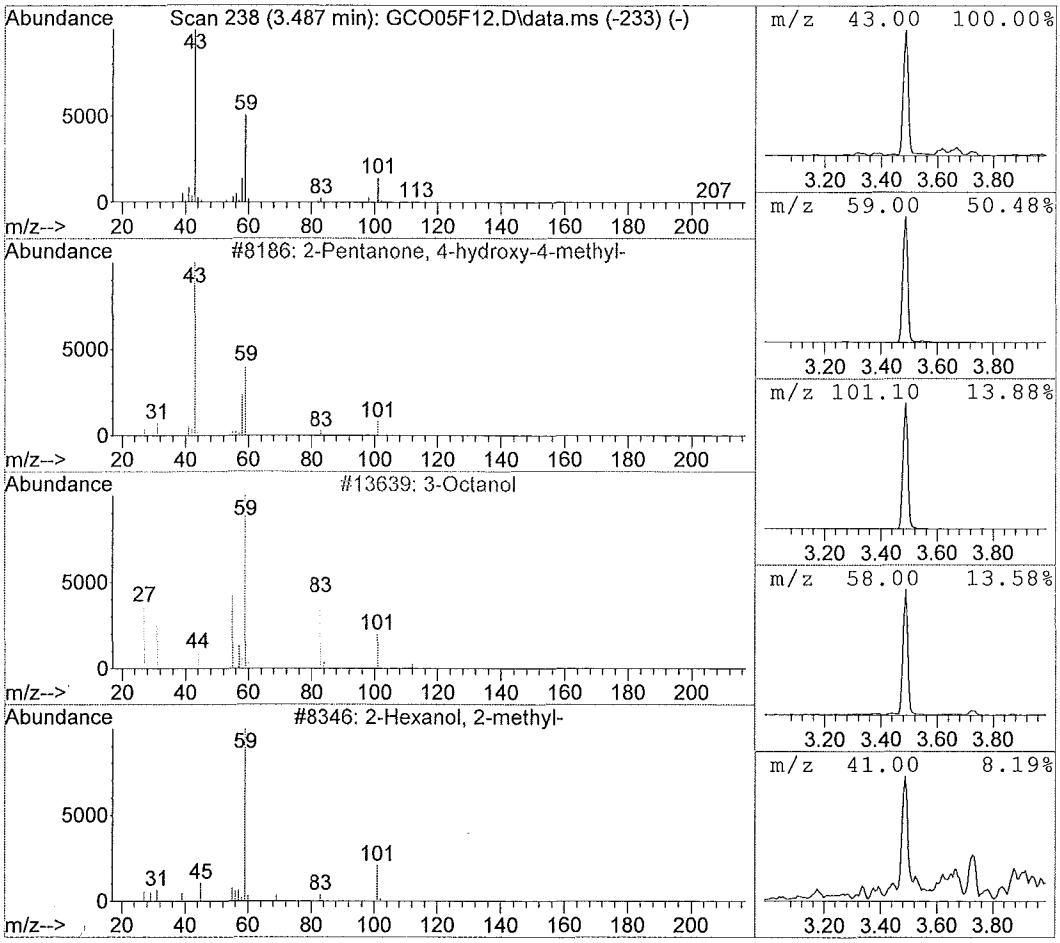
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.49	11.57 ug/ml	2253739	1,4-Dichlorobenzene-d4	3894616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	3-Octanol	13639	000589-98-0	33.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	33.00
4	Acetic acid, 1,1-dimethylethyl este	8205	000540-88-5	28.00
5	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00



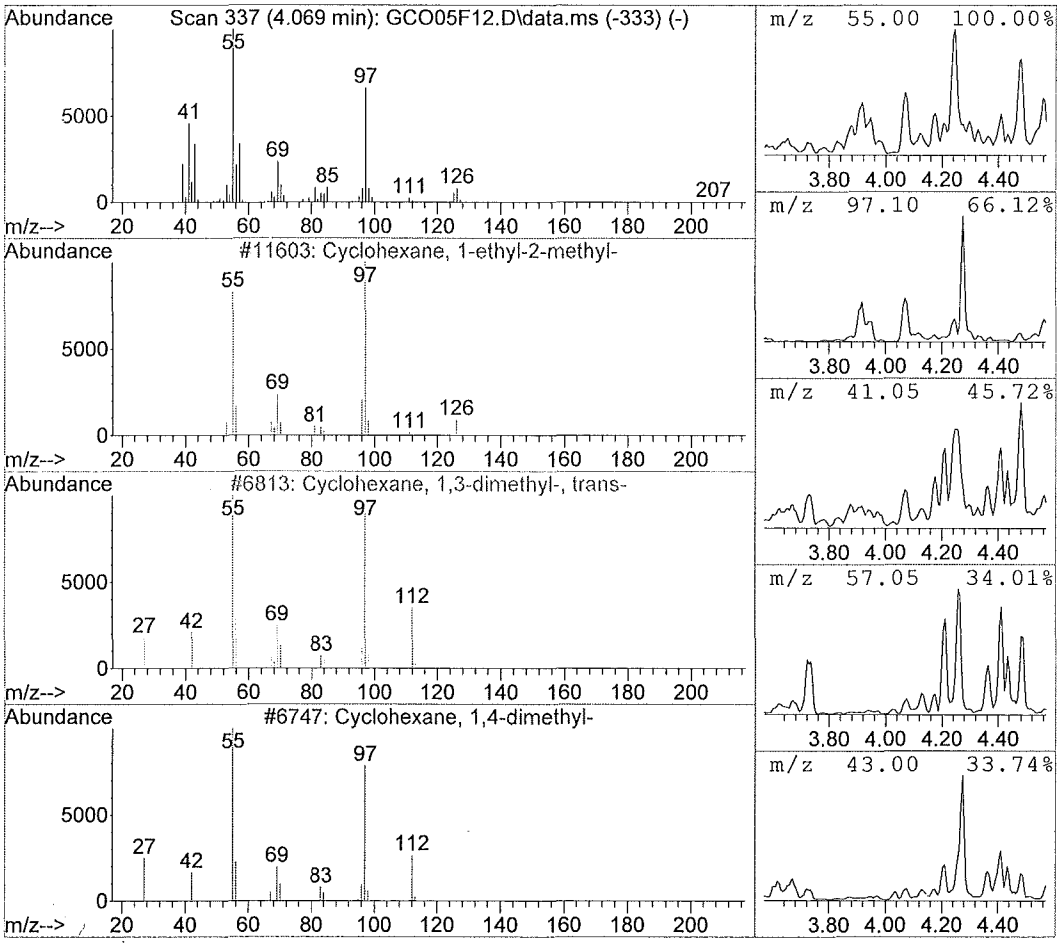
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.07	2.27 ug/ml	442133	1,4-Dichlorobenzene-d4	3894616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1-ethyl-2-methyl- CA	11603	003728-54-9	80.00
2	Cyclohexane, 1,3-dimethyl-, trans-	6813	002207-03-6	72.00
3	Cyclohexane, 1,4-dimethyl-	6747	000589-90-2	64.00
4	Cyclohexane, 1-ethyl-4-methyl-, cis	11622	004926-78-7	62.00
5	Cyclohexane, 1-ethyl-4-methyl-, tra	11625	006236-88-0	53.00



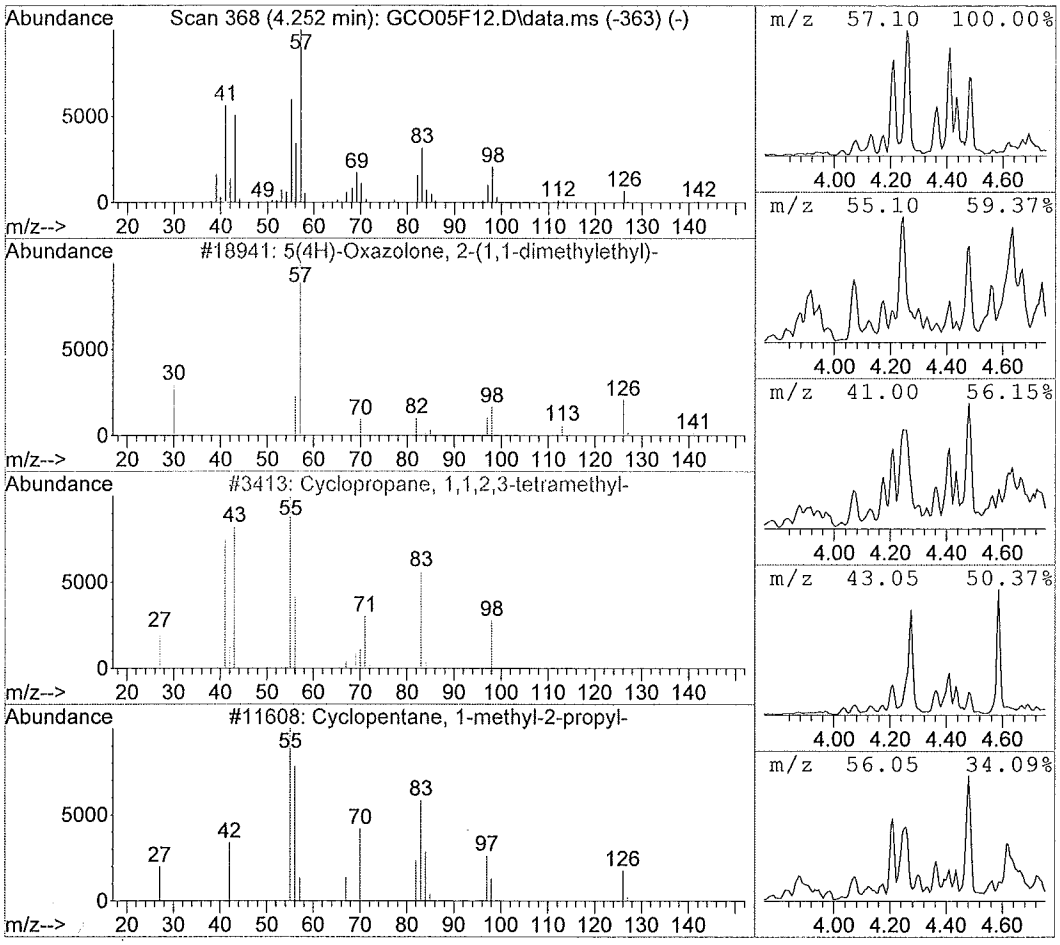
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.25	5.15 ug/ml	1003373	1,4-Dichlorobenzene-d4	3894616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	5(4H)-Oxazolone, 2-(1,1-dimethyleth	18941	081375-96-4	53.00
2	Cyclopropane, 1,1,2,3-tetramethyl-	3413	074752-93-5	49.00
3	Cyclopentane, 1-methyl-2-propyl-	11608	003728-57-2	43.00
4	Oxalic acid, cyclobutyl heptyl este	95465	1000309-69-8	38.00
5	3-Heptene, (E)-	3312	014686-14-7	38.00



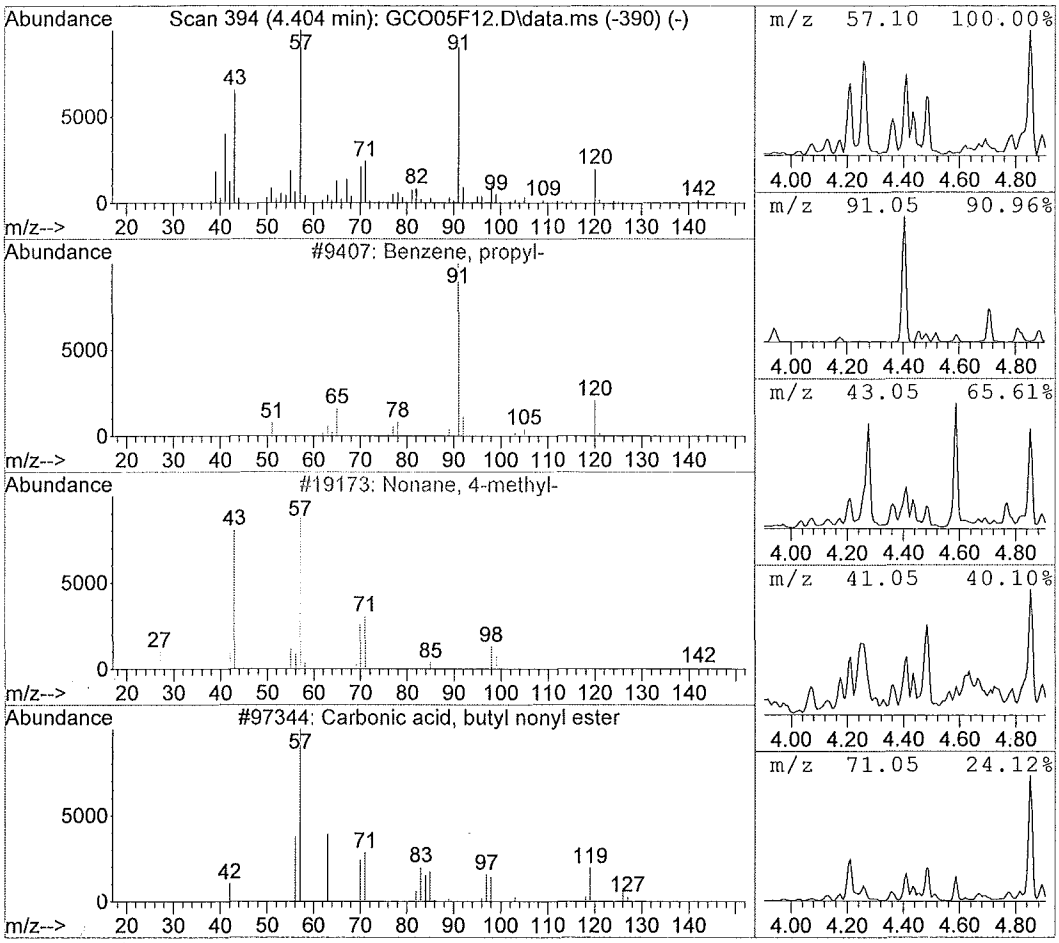
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.40	4.75 ug/ml	925173	1,4-Dichlorobenzene-d4	3894616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, propyl-	9407	000103-65-1	70.00
2	Nonane, 4-methyl-	19173	017301-94-9	50.00
3	Carbonic acid, butyl nonyl ester	97344	1000314-63-6	38.00
4	Octane, 2,3-dimethyl-	19191	007146-60-3	30.00
5	N-Benzyl-2-phenethylamine	70359	003647-71-0	22.00



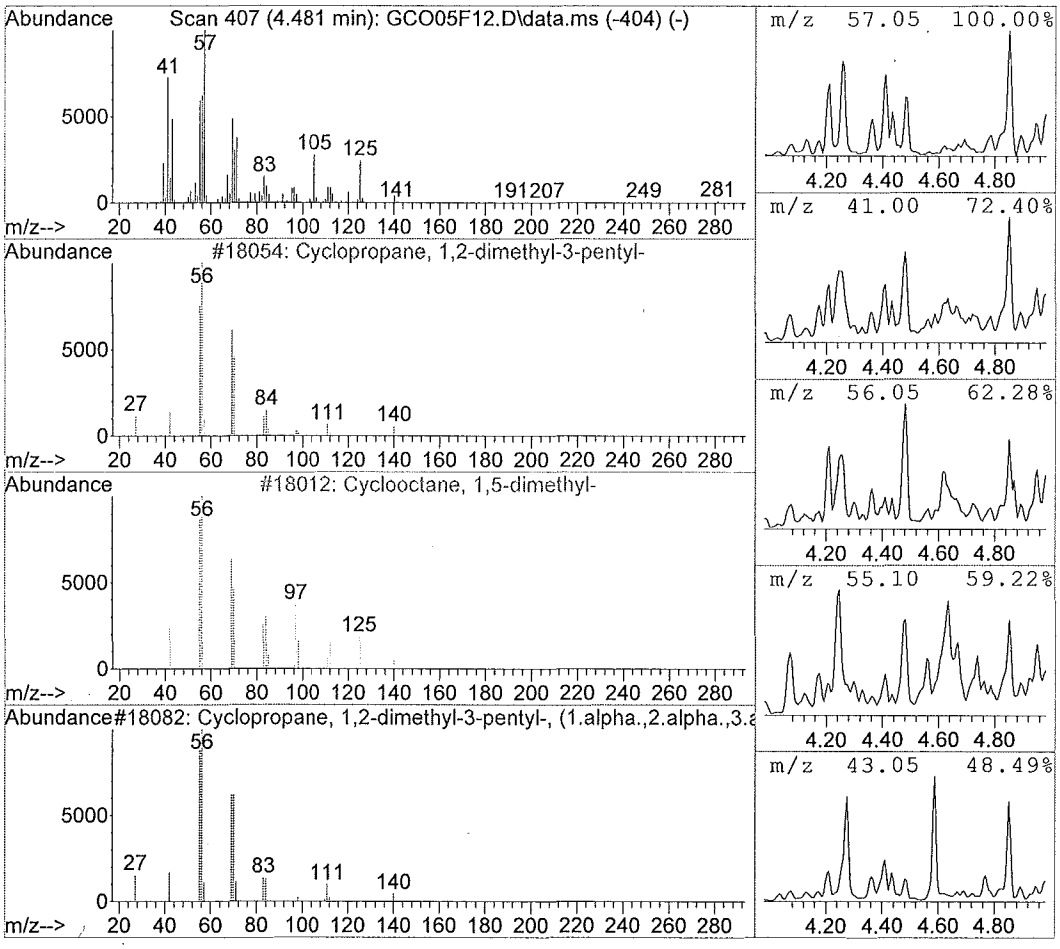
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.48	5.55 ug/ml	1080602	1,4-Dichlorobenzene-d4	3894616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclopropane, 1,2-dimethyl-3-pentyl CA	18054	062238-05-5	46.00
2	Cyclooctane, 1,5-dimethyl-	18012	021328-57-4	46.00
3	Cyclopropane, 1,2-dimethyl-3-pentyl	18082	062238-10-2	43.00
4	Cyclopropane, 1-ethyl-2-pentyl-	18031	062238-08-8	38.00
5	1-Decene	17935	000872-05-9	38.00



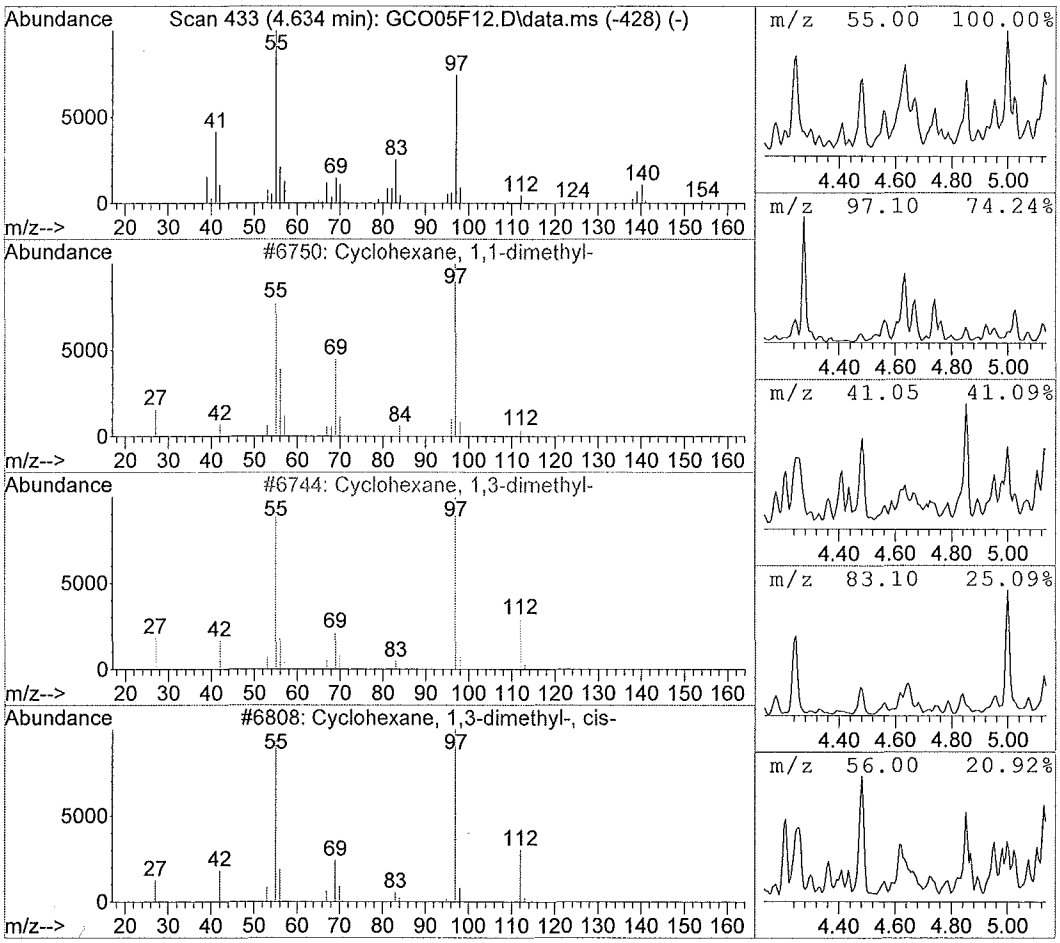
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	2.28 ug/ml	443940	1,4-Dichlorobenzene-d4	3894616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl- CA	6750	000590-66-9	70.00
2	Cyclohexane, 1,3-dimethyl-	6744	000591-21-9	64.00
3	Cyclohexane, 1,3-dimethyl-, cis-	6808	000638-04-0	64.00
4	Cyclohexane, 1-methyl-4-(1-methylet	18075	006069-98-3	62.00
5	Cyclohexane, 1-methyl-3-propyl-	18033	004291-80-9	59.00



Library Search Compound Report

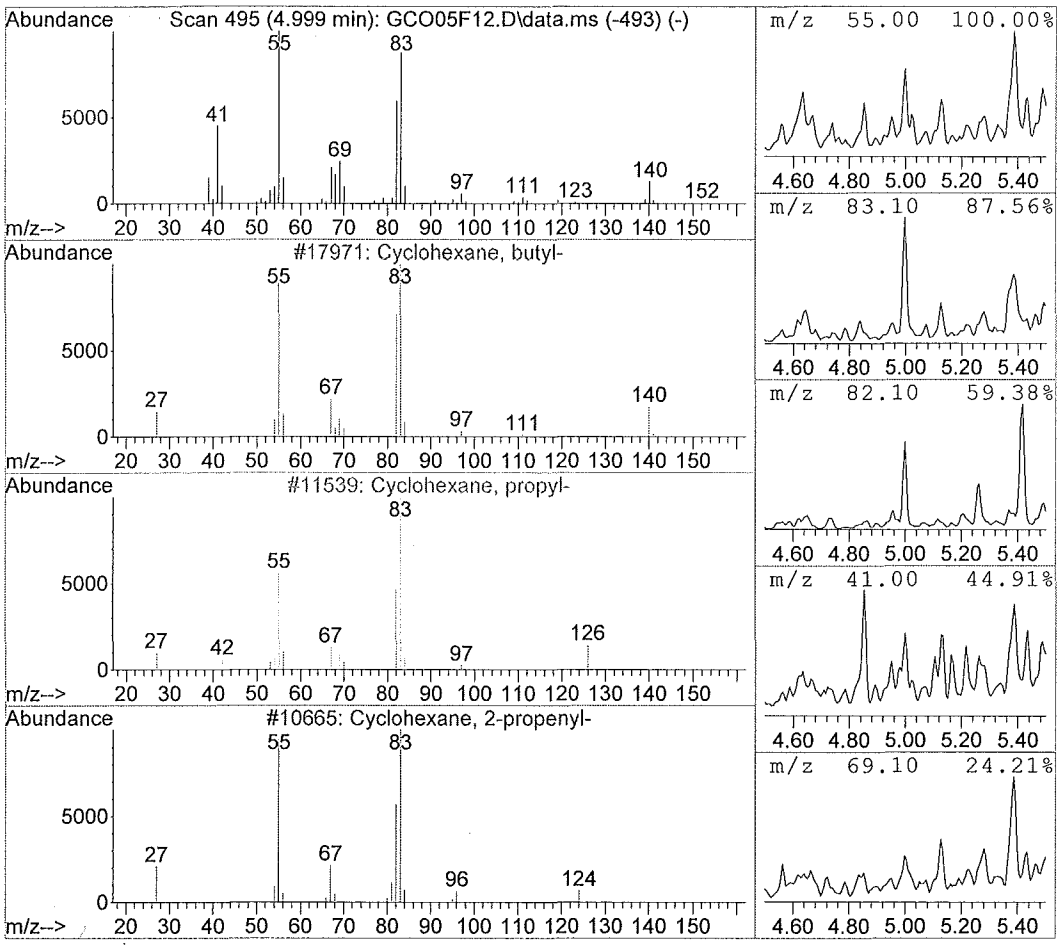
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.00	2.51 ug/ml	488517	1,4-Dichlorobenzene-d4	3894616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, butyl-	17971	001678-93-9	91.00
2	Cyclohexane, propyl-	11539	001678-92-8	72.00
3	Cyclohexane, 2-propenyl-	10665	002114-42-3	64.00
4	Cyclohexane, ethyl-	6669	001678-91-7	64.00
5	Cyclohexane, (1-methylethyl)-	11583	000696-29-7	64.00

CA



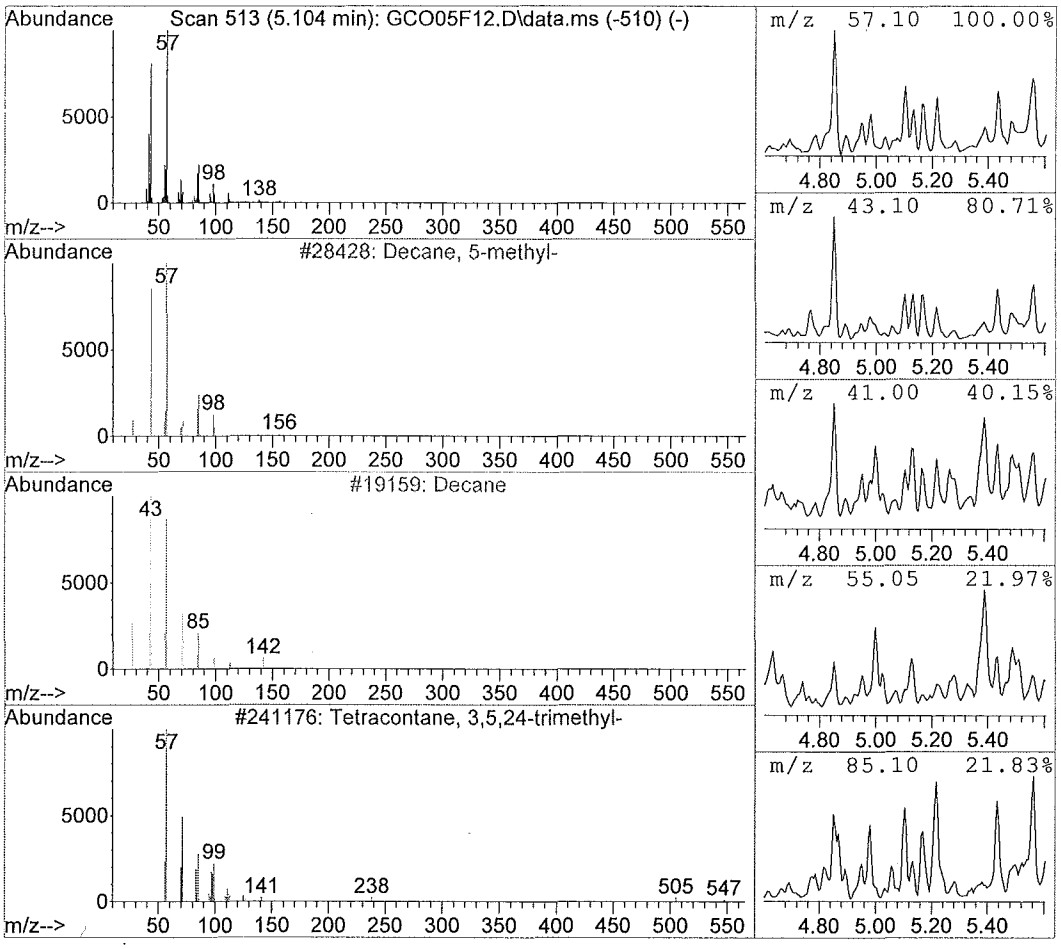
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.10	2.37 ug/ml	460559	1,4-Dichlorobenzene-d4	3894616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 5-methyl- BA	28428	013151-35-4	68.00
2	Decane	19159	000124-18-5	59.00
3	Tetracontane, 3,5,24-trimethyl-	241176	055162-61-3	59.00
4	Octane, 2,3,3-trimethyl-	28442	062016-30-2	53.00
5	Hexane, 1-(hexyloxy)-5-methyl-	61362	074421-19-5	50.00



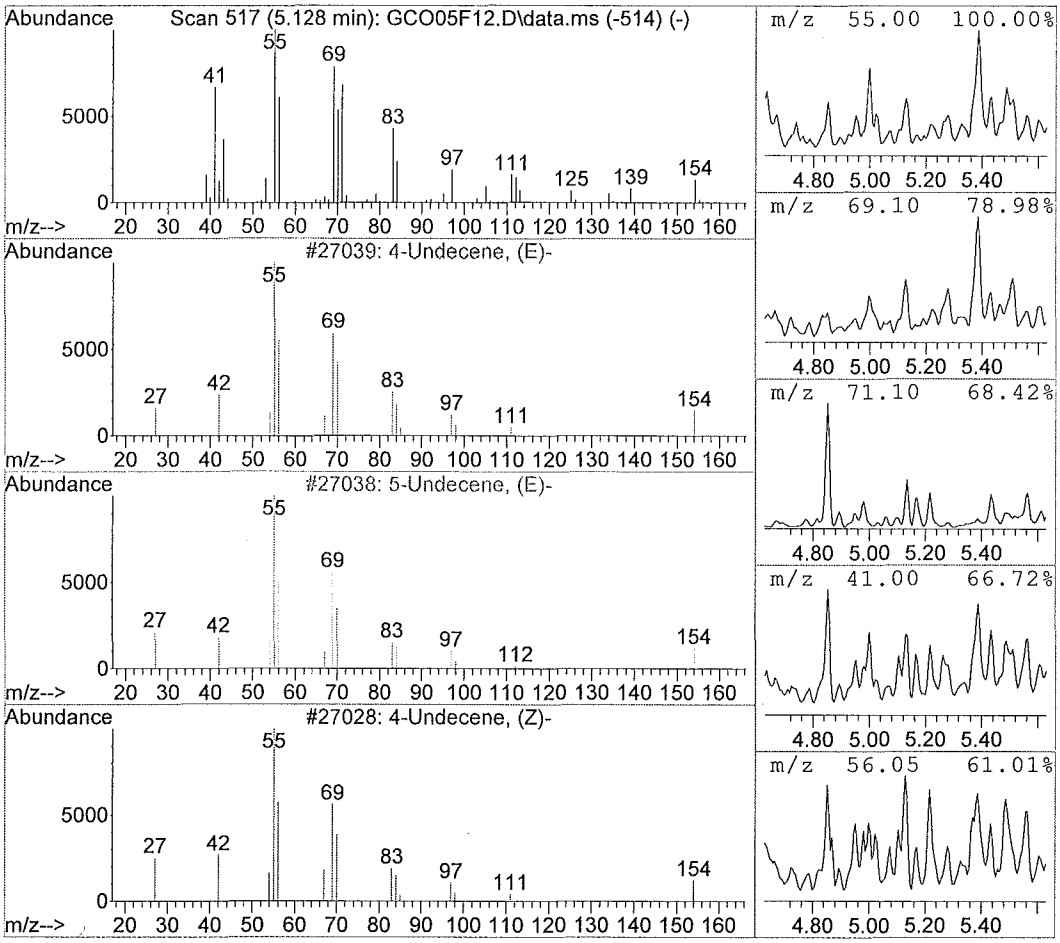
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.13	4.99 ug/ml	971269	1,4-Dichlorobenzene-d4	3894616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Undecene, (E)-	27039	000693-62-9	81.00
2	5-Undecene, (E)-	27038	000764-97-6	76.00
3	4-Undecene, (Z)-	27028	000821-98-7	68.00
4	2-Undecene, (E)-	27026	000693-61-8	64.00
5	5-Undecene, (Z)-	27029	000764-96-5	64.00



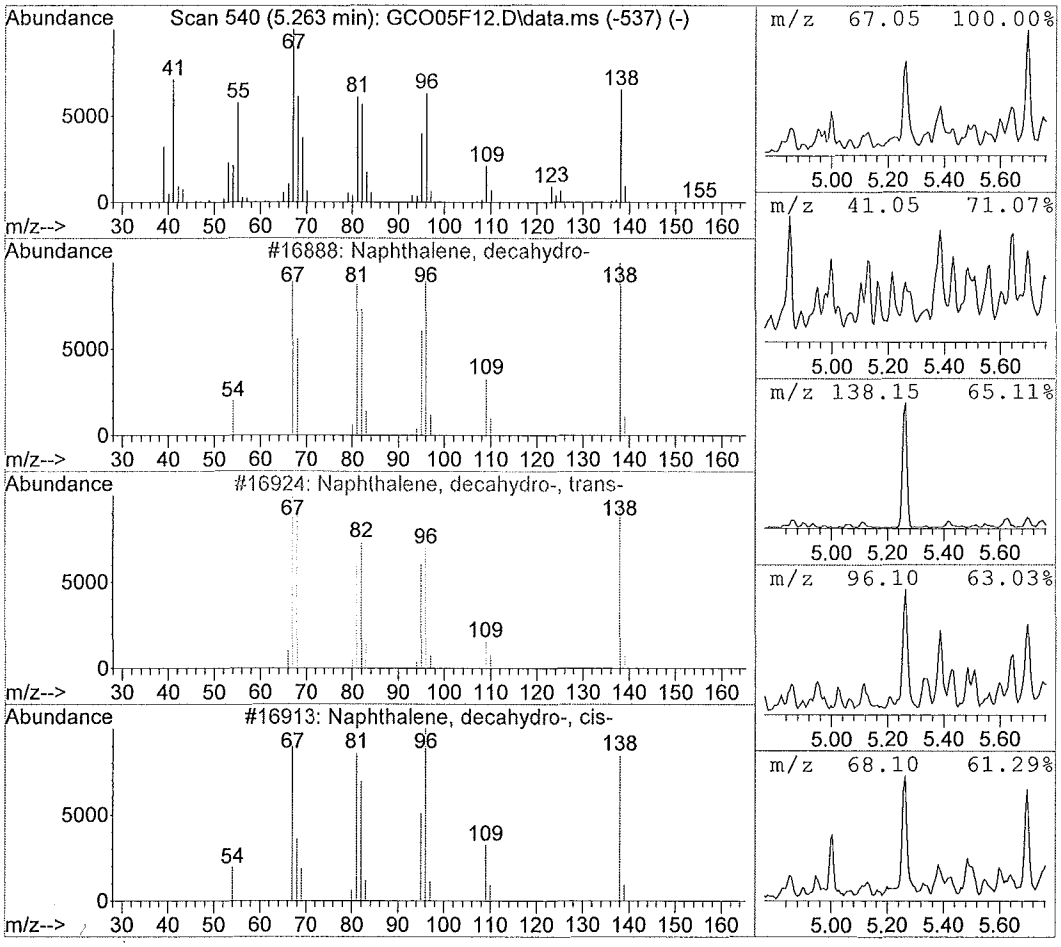
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.26	4.35 ug/ml	846931	1,4-Dichlorobenzene-d4	3894616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, decahydro-	16888	000091-17-8	97.00
2	Naphthalene, decahydro-, trans-	16924	000493-02-7	95.00
3	Naphthalene, decahydro-, cis-	16913	000493-01-6	94.00
4	Spiro[4.5]decane	16860	000176-63-6	91.00
5	Bicyclo[5.3.0]decane	16875	005661-80-3	72.00



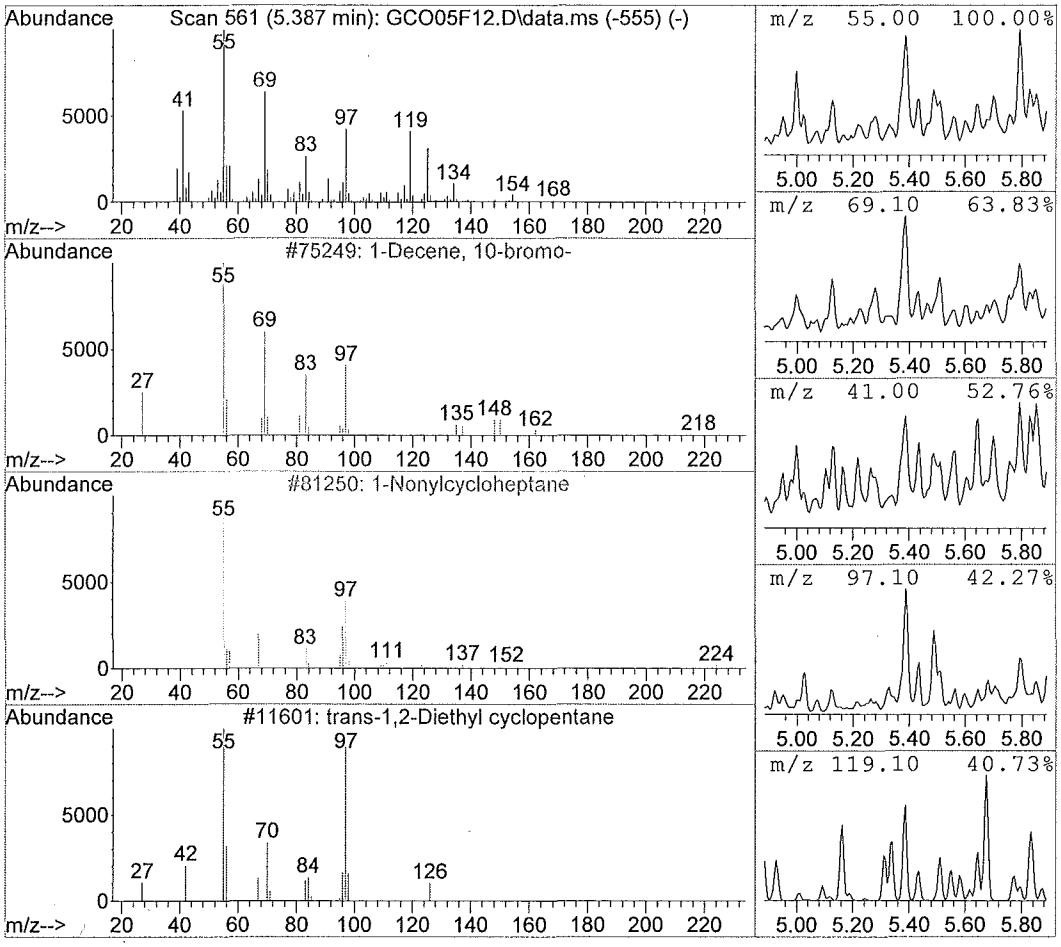
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.39	10.42 ug/ml	2030019	1,4-Dichlorobenzene-d4	3894616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Decene, 10-bromo-	75249	062871-09-4	38.00
2	1-Nonylcycloheptane	81250	1000371-47-7	27.00
3	trans-1,2-Diethyl cyclopentane	11601	000932-40-1	22.00
4	Cyclohexane, 1,2-diethyl-3-methyl-	27092	061141-80-8	18.00
5	Propanedinitrile, (2-methylcyclohex	32080	074764-54-8	14.00



Library Search Compound Report

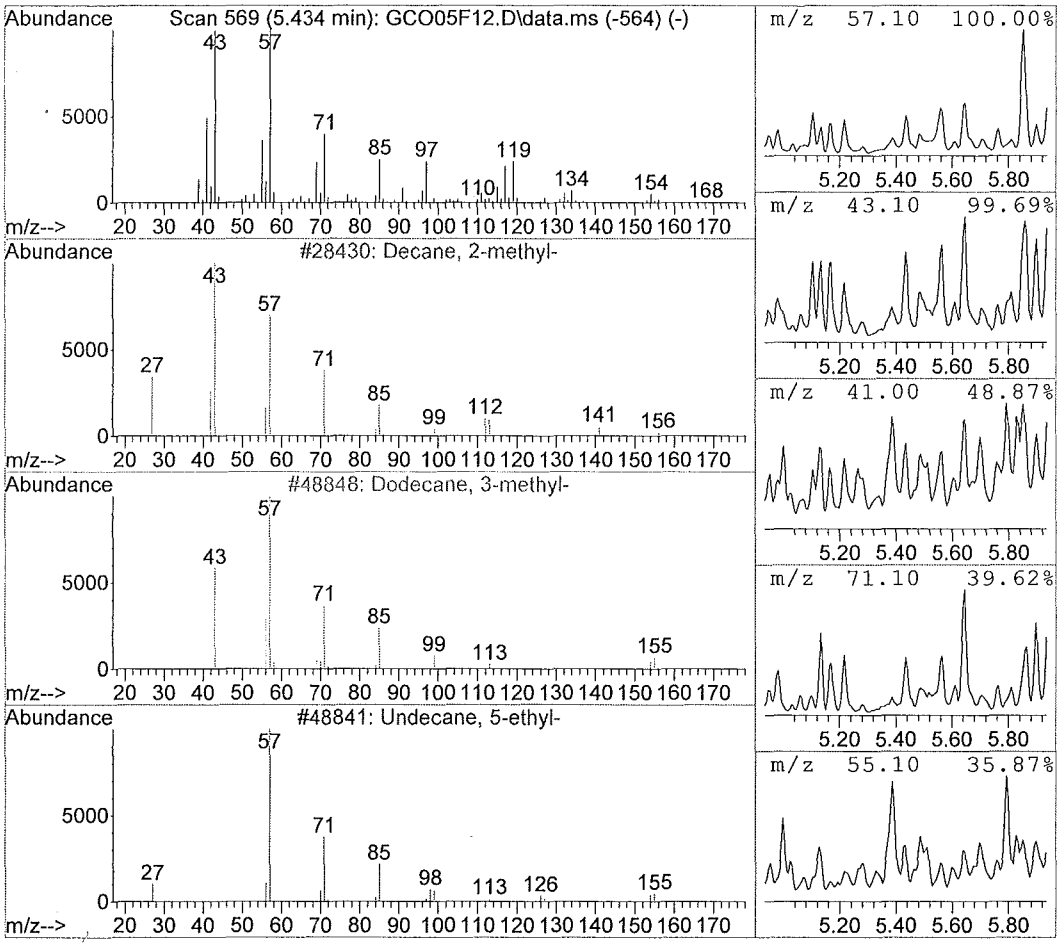
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.43	5.99 ug/ml	1166406	1,4-Dichlorobenzene-d4	3894616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 2-methyl-	28430	006975-98-0	38.00
2	Dodecane, 3-methyl-	48848	017312-57-1	38.00
3	Undecane, 5-ethyl-	48841	017453-94-0	38.00
4	3-Ethyl-3-methylheptane	19201	017302-01-1	35.00
5	2-Ethyl-1-butanol, pentafluoropropi	101054	1000352-36-5	35.00

BA



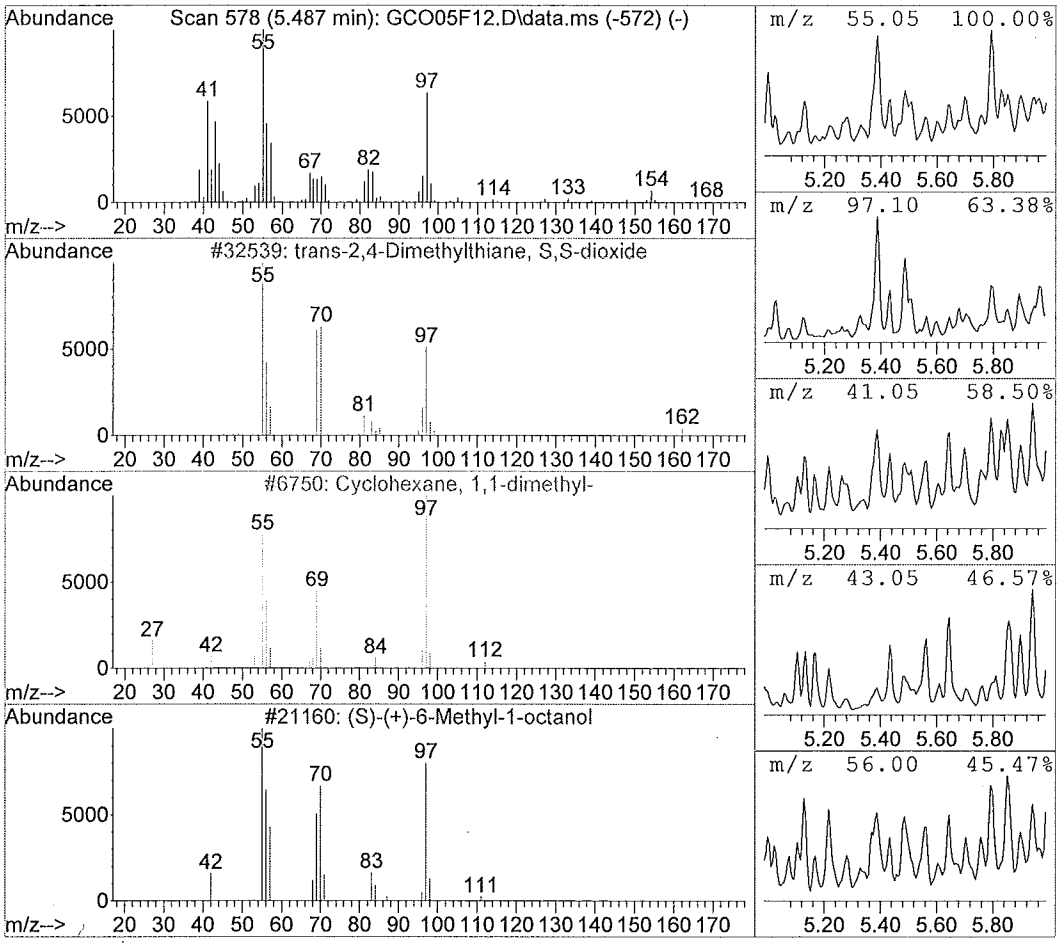
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.49	3.30 ug/ml	642137	1,4-Dichlorobenzene-d4	3894616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	trans-2,4-Dimethylthiane, S,S-dioxi	32539	1000215-67-6	78.00
2	Cyclohexane, 1,1-dimethyl-	6750	000590-66-9	53.00
3	(S)-(+)-6-Methyl-1-octanol	21160	110453-78-6	50.00
4	Cyclohexanone, 3-butyl-	26707	039178-69-3	50.00
5	Cyclopentane, 1-methyl-3-(2-methylp	18070	029053-04-1	50.00



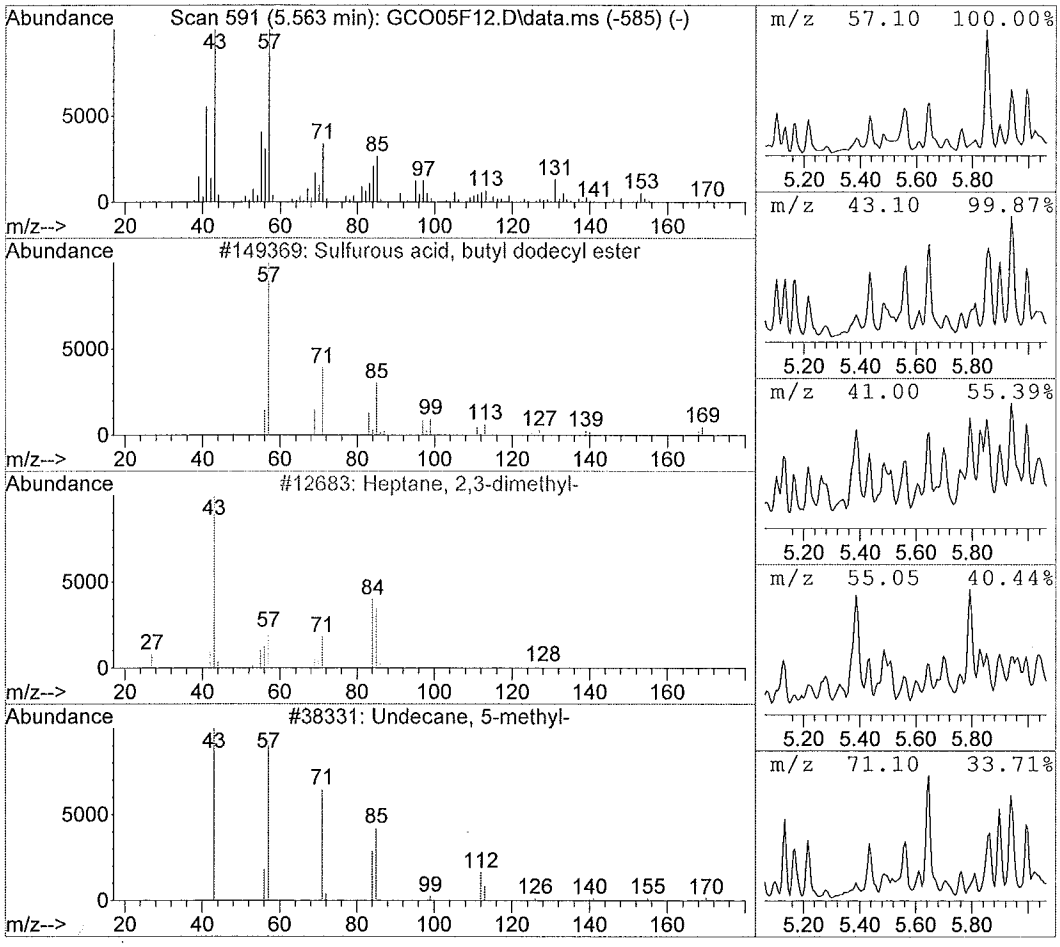
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.56	5.49 ug/ml	1069591	1,4-Dichlorobenzene-d4	3894616

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Sulfurous acid, butyl dodecyl ester	149369	1000309-17-9	43.00
2	Heptane, 2,3-dimethyl-	12683	003074-71-3	43.00
3	Undecane, 5-methyl-	38331	001632-70-8	43.00
4	Heptane, 4-ethyl-	12675	002216-32-2	38.00
5	Decane, 3,8-dimethyl-	38349	017312-55-9	38.00



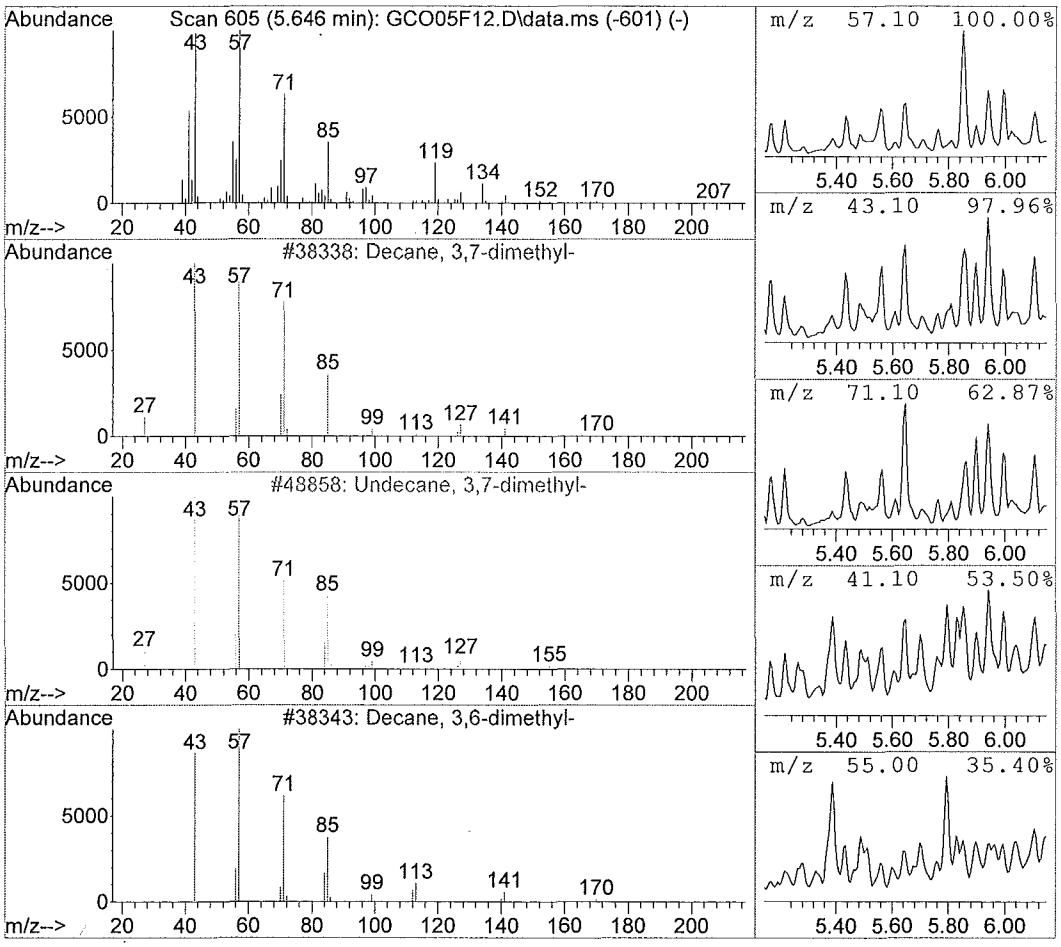
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.65	6.36 ug/ml	1157998	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 3,7-dimethyl- BA	38338	017312-54-8	64.00
2	Undecane, 3,7-dimethyl-	48858	017301-29-0	50.00
3	Decane, 3,6-dimethyl-	38343	017312-53-7	49.00
4	Undecane, 4-methyl-	38333	002980-69-0	49.00
5	Undecane, 5-methyl-	38332	001632-70-8	49.00



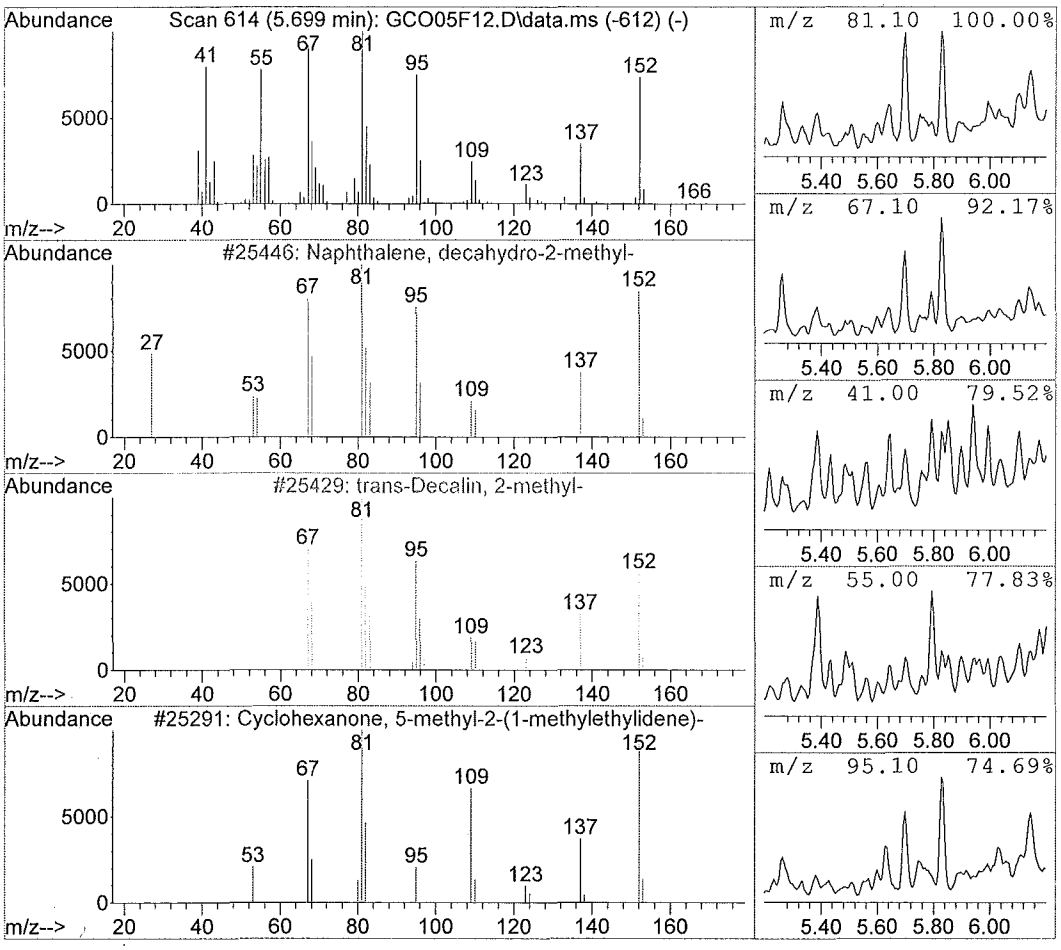
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.70	5.51 ug/ml	1002693	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	25446	002958-76-1	96.00
2	trans-Decalin, 2-methyl-	25429	1000152-47-3	90.00
3	Cyclohexanone, 5-methyl-2-(1-methyl	25291	015932-80-6	76.00
4	Decalin, syn-1-methyl-, cis-	25438	1000158-89-1	74.00
5	Cyclohexanone, 2-methyl-5-(1-methyl	25340	005948-04-9	72.00



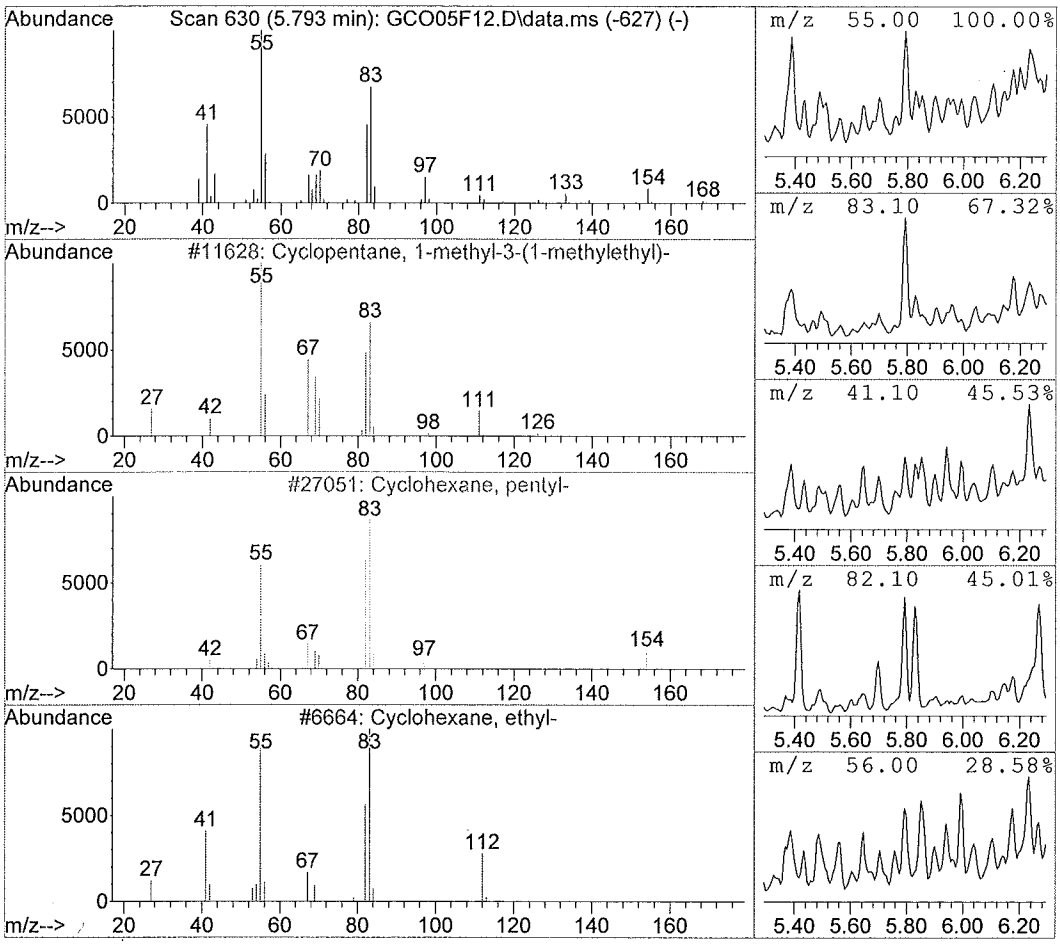
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.79	5.44 ug/ml	990989	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclopentane, 1-methyl-3-(1-methyle	11628	053771-88-3	83.00
2	Cyclohexane, pentyl- CA	27051	004292-92-6	53.00
3	Cyclohexane, ethyl-	6664	001678-91-7	53.00
4	Cyclohexane, (3-methylpentyl)-	36843	061142-38-9	47.00
5	Pyridine, 2,3,4,5-tetrahydro-	1312	000505-18-0	47.00



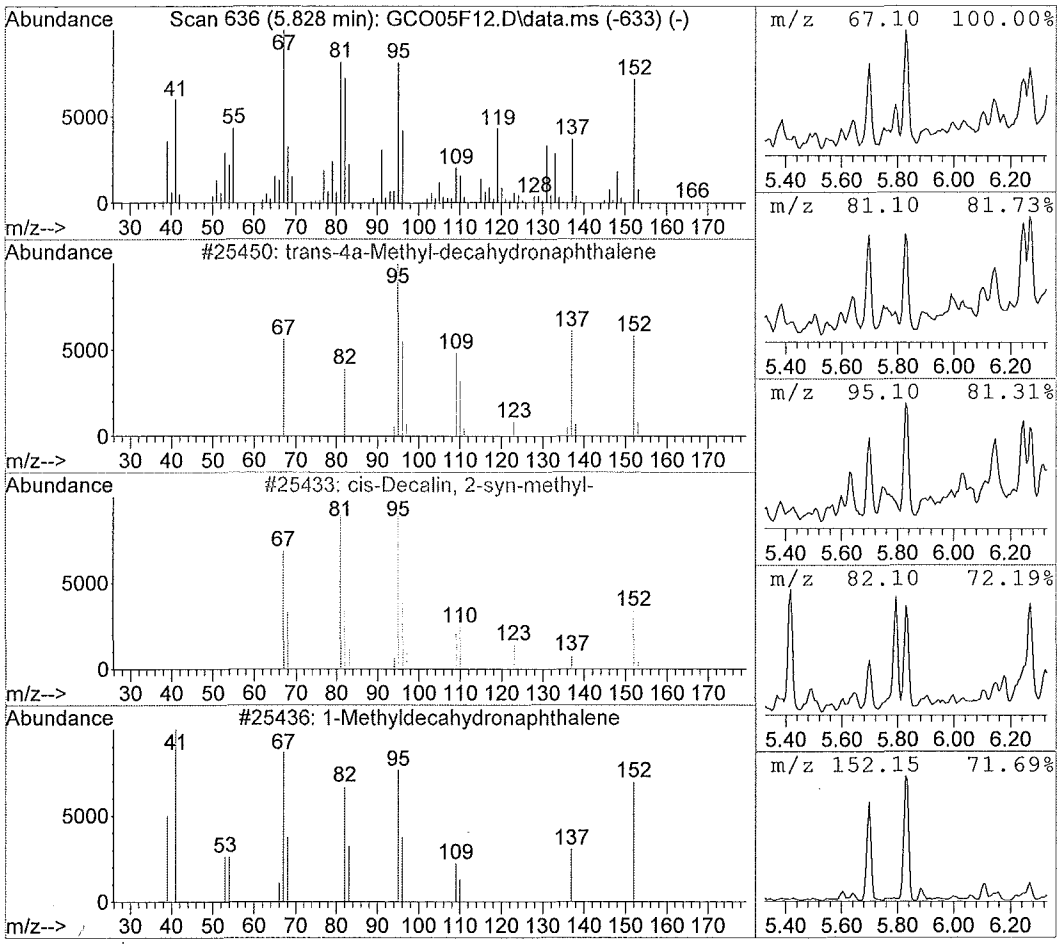
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.83	7.10 ug/ml	1292631	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	trans-4a-Methyl-decahydronaphthalen	25450	002547-27-5	90.00
2	cis-Decalin, 2-syn-methyl-	25433	1000155-85-6	62.00
3	1-Methyldecahydronaphthalene	25436	002958-75-0	60.00
4	Naphthalene, decahydro-2-methyl-	25446	002958-76-1	60.00
5	Spiro[5.5]undecane	25411	000180-43-8	50.00



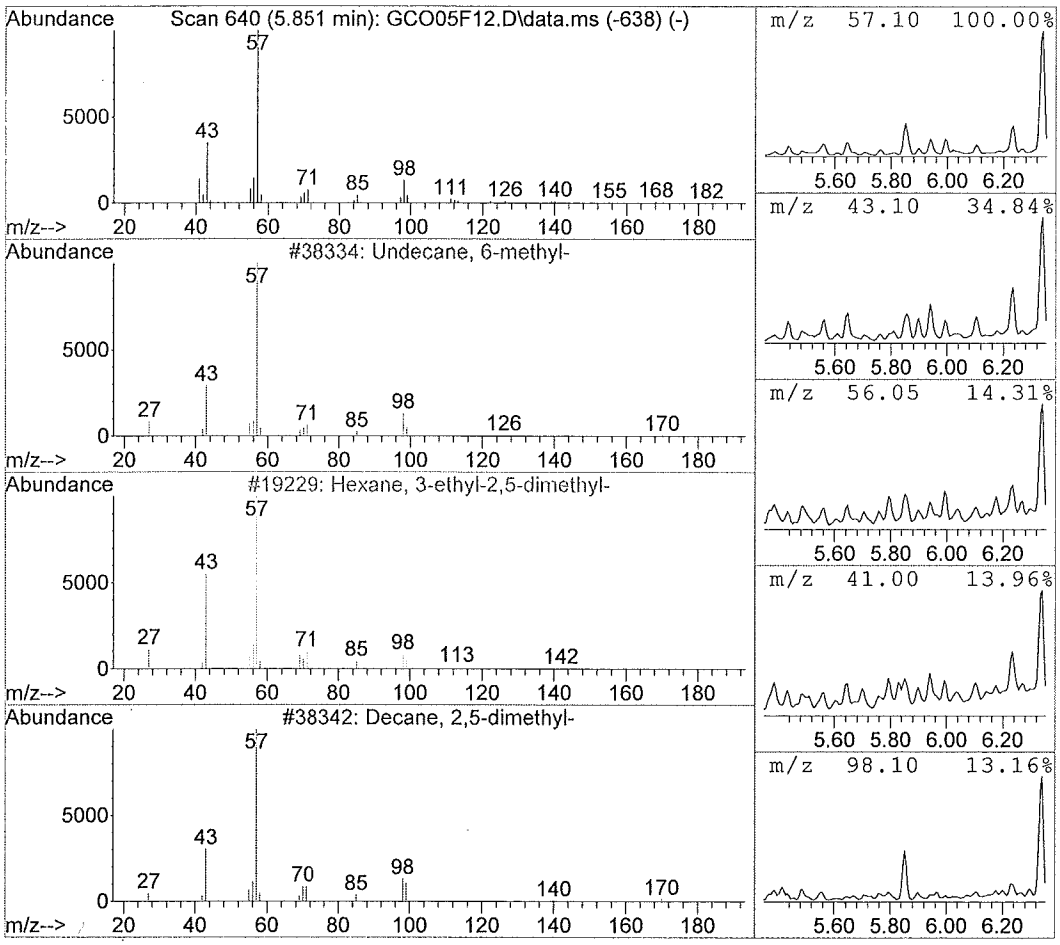
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.85	6.69 ug/ml	1217177	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 6-methyl- Ba	38334	017302-33-9	81.00
2	Hexane, 3-ethyl-2,5-dimethyl-	19229	052897-04-8	64.00
3	Decane, 2,5-dimethyl-	38342	017312-50-4	64.00
4	Decane, 5-methyl-	28428	013151-35-4	59.00
5	Decane, 2,5,9-trimethyl-	48890	062108-22-9	53.00



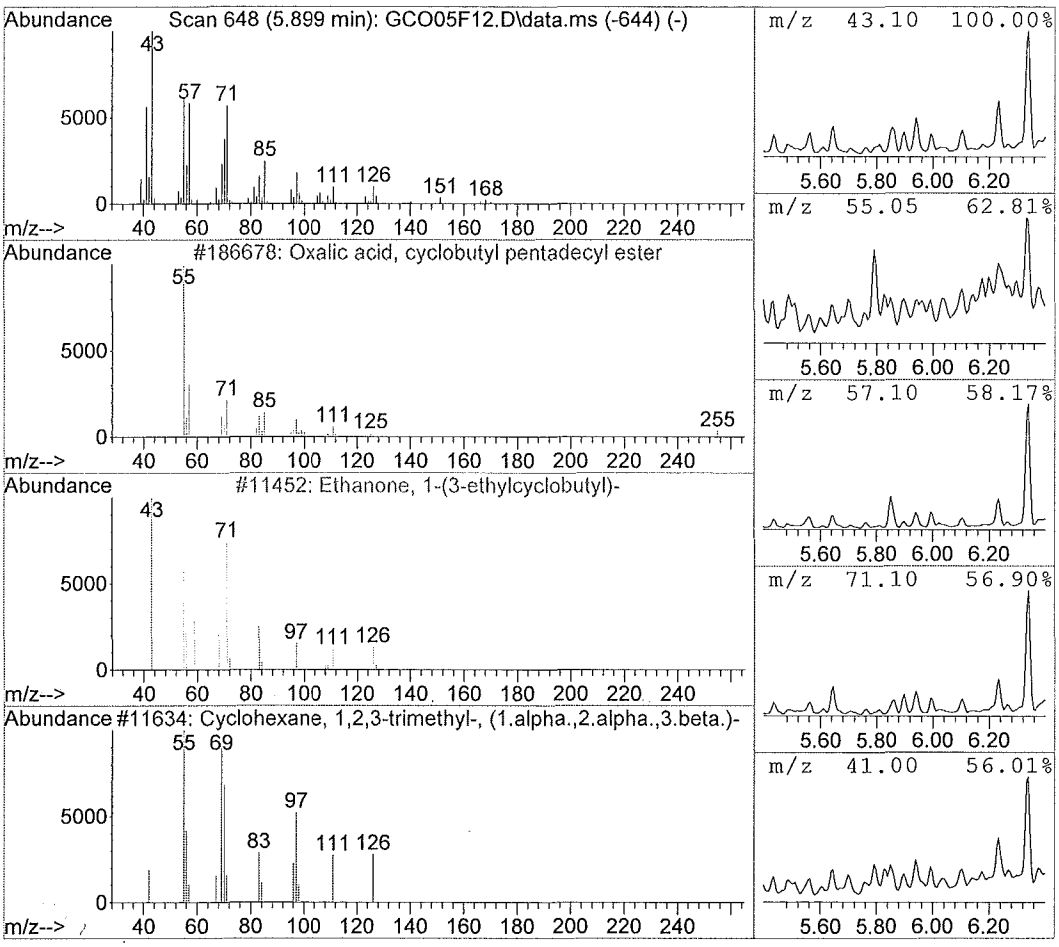
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.90	4.92 ug/ml	896120	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Oxalic acid, cyclobutyl pentadecyl	186678	1000309-70-5	50.00
2	Ethanone, 1-(3-ethylcyclobutyl)-	11452	056335-71-8	50.00
3	Cyclohexane, 1,2,3-trimethyl-, (1.a	11634	007667-55-2	45.00
4	Oxalic acid, cyclobutyl octyl ester	107150	1000309-69-9	43.00
5	Cyclohexane, 1,2,3-trimethyl-	11585	001678-97-3	43.00



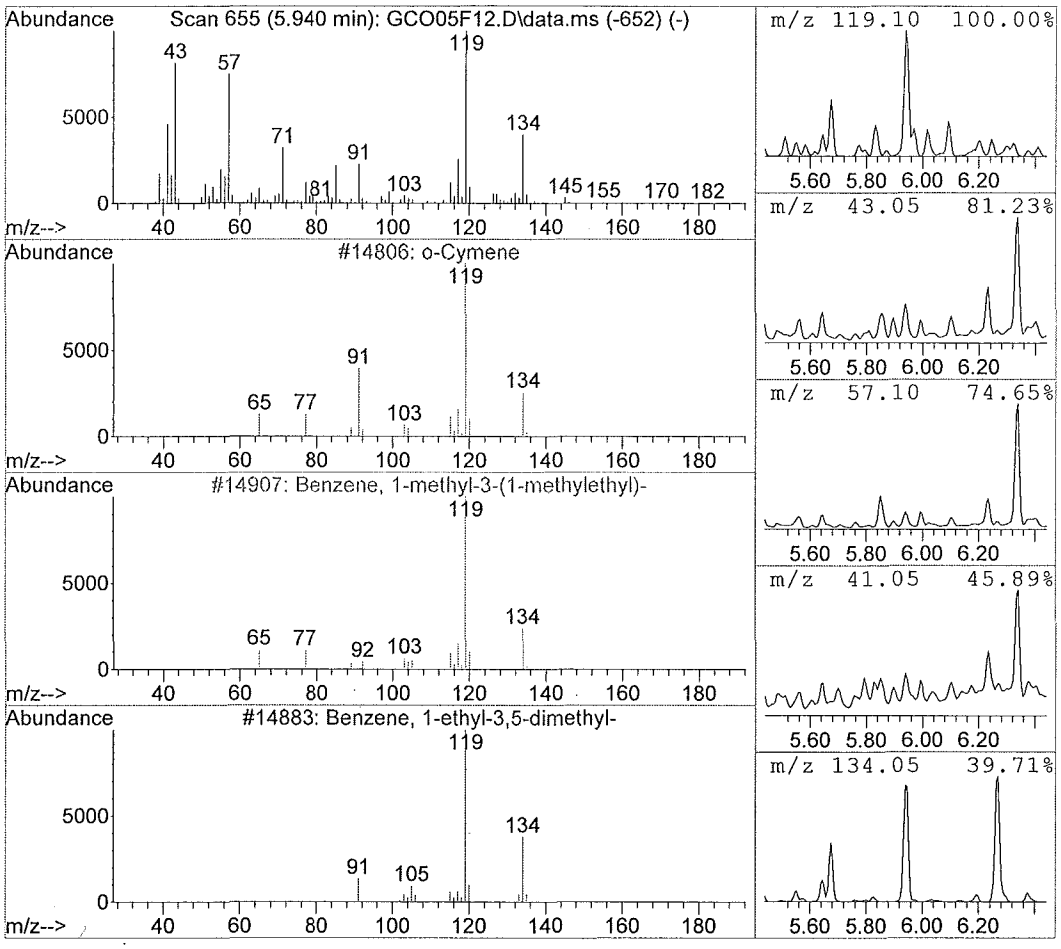
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.94	10.70 ug/ml	1946766	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	o-Cymene	14806	000527-84-4	91.00
2	Benzene, 1-methyl-3-(1-methylethyl)	14907	000535-77-3	64.00
3	Benzene, 1-ethyl-3,5-dimethyl-	14883	000934-74-7	60.00
4	Benzene, 1,2,4,5-tetramethyl-	14866	000095-93-2	60.00
5	Benzene, 2-ethyl-1,4-dimethyl-	14890	001758-88-9	60.00



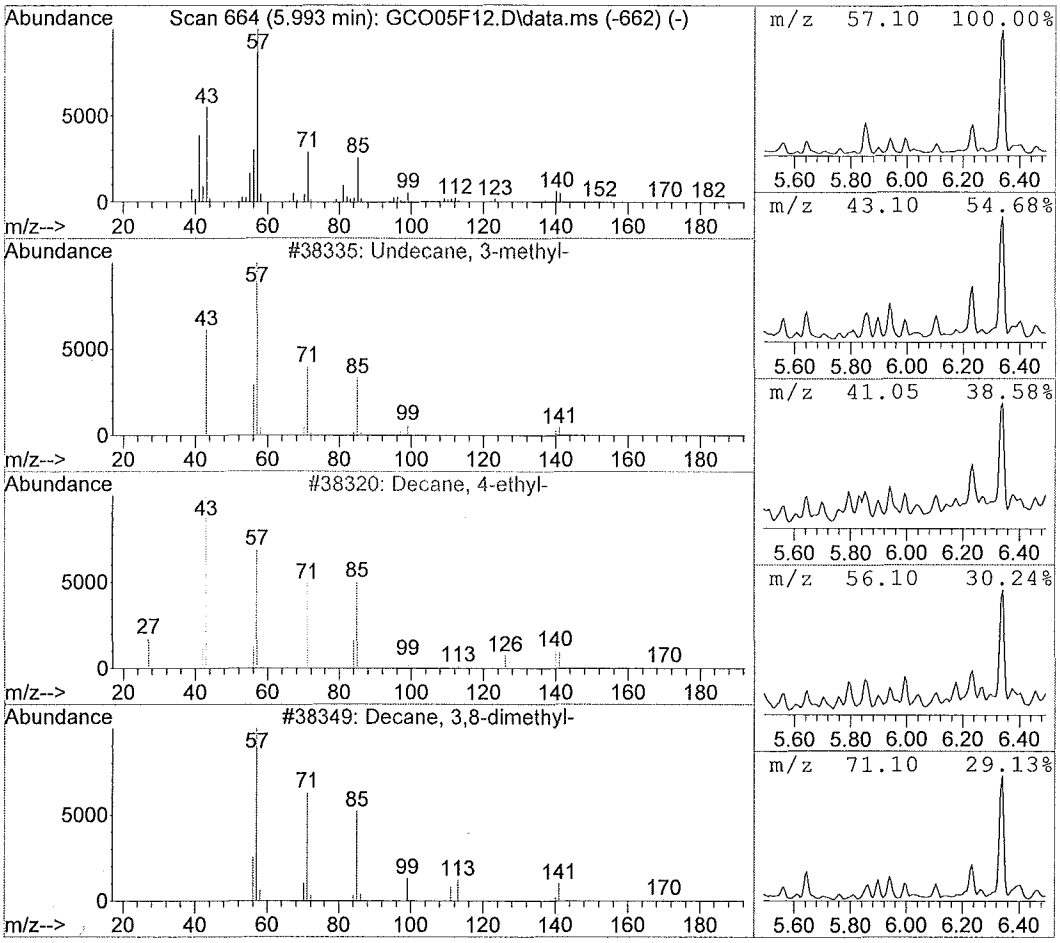
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.99	3.45 ug/ml	627872	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 3-methyl- BA	38335	001002-43-3	59.00
2	Decane, 4-ethyl-	38320	001636-44-8	58.00
3	Decane, 3,8-dimethyl-	38349	017312-55-9	49.00
4	Oxalic acid, isobutyl hexyl ester	85746	1000309-37-1	47.00
5	Sulfurous acid, butyl undecyl ester	137567	1000309-17-8	47.00



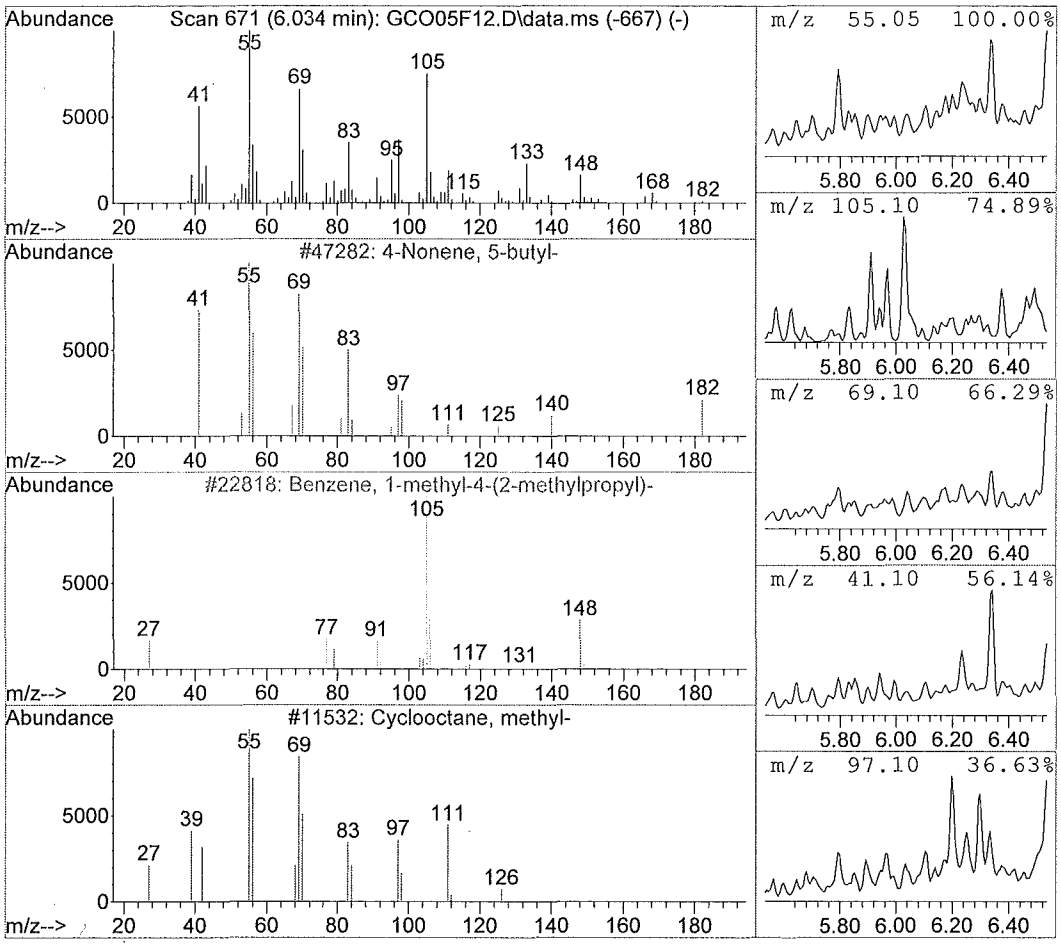
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.03	3.93 ug/ml	714529	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Nonene, 5-butyl-	47282	007367-38-6	41.00
2	Benzene, 1-methyl-4-(2-methylpropyl	22818	005161-04-6	25.00
3	Cyclooctane, methyl-	11532	001502-38-1	22.00
4	5-Methyl-1-heptanol	13660	007212-53-5	22.00
5	Cyclopentane, 1-methyl-3-(1-methyle	11628	053771-88-3	20.00



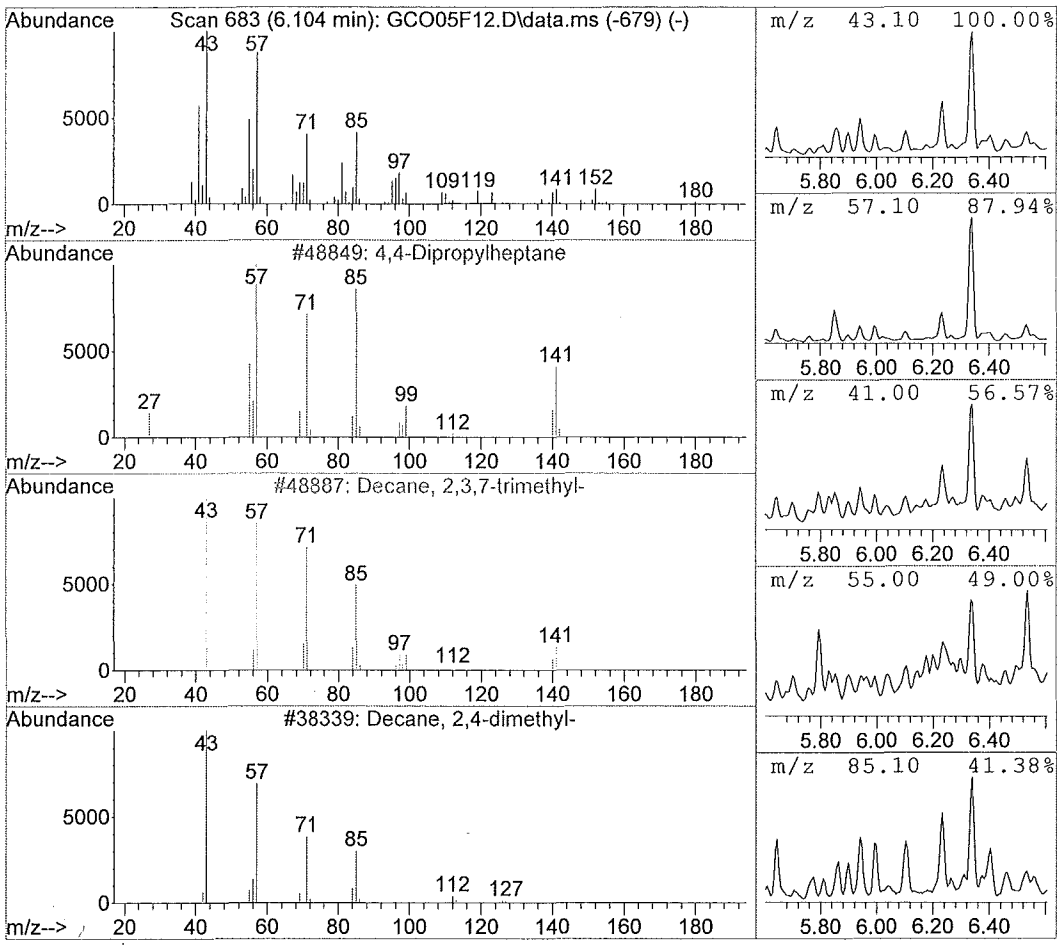
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.10	5.31 ug/ml	966778	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4,4-Dipropylheptane BA	48849	017312-72-0	64.00
2	Decane, 2,3,7-trimethyl-	48887	062238-13-5	58.00
3	Decane, 2,4-dimethyl-	38339	002801-84-5	53.00
4	Sulfurous acid, 2-propyl tetradecyl	161094	1000309-12-5	53.00
5	Octane, 2,4,6-trimethyl-	28445	062016-37-9	50.00



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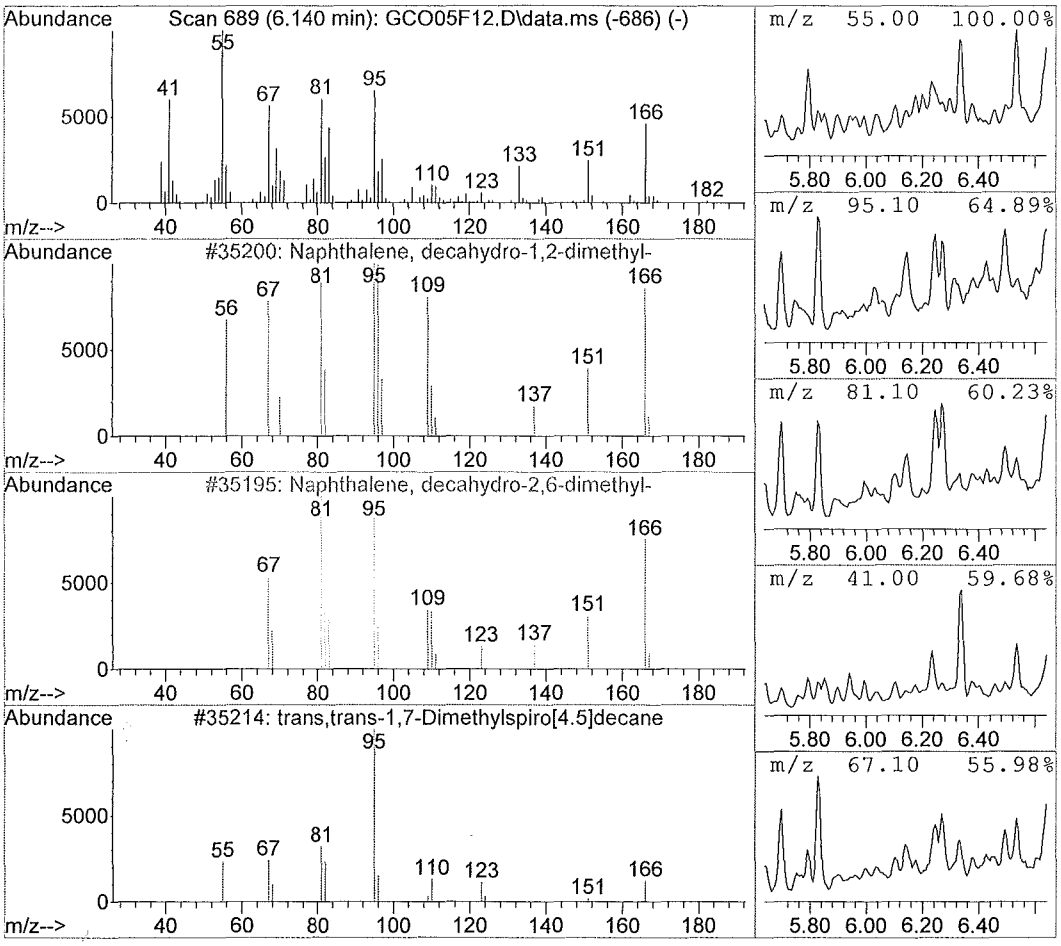
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.14	3.27 ug/ml	595185	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, decahydro-1,2-dimethyl	35200	003604-14-6	52.00
2	Naphthalene, decahydro-2,6-dimethyl	35195	001618-22-0	47.00
3	trans,trans-1,7-Dimethylspiro[4.5]d	35214	1000111-72-6	46.00
4	Bicyclo[4.1.0]heptane, 3-methyl-	6015	041977-47-3	38.00
5	Cyclohexene, 1,6-dimethyl-	5970	001759-64-4	38.00



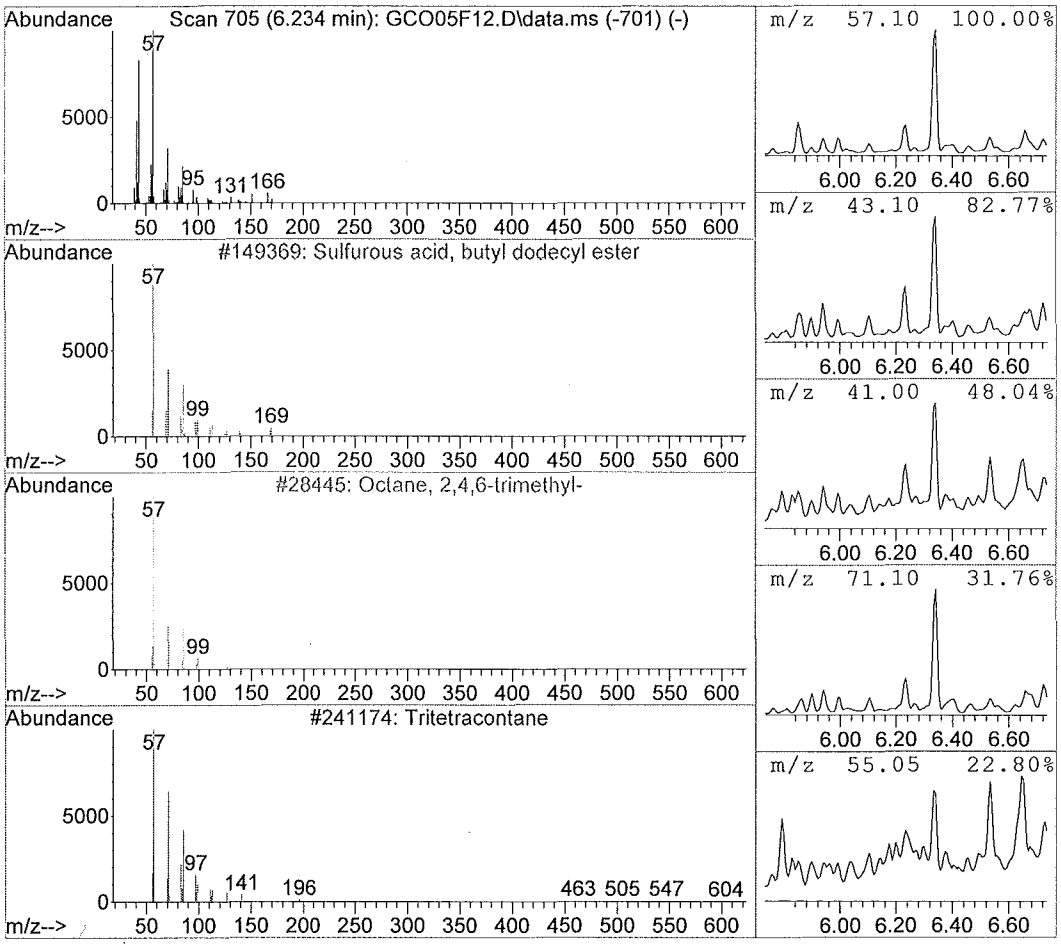
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.23	13.43 ug/ml	2445014	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Sulfurous acid, butyl dodecyl ester	149369	1000309-17-9	59.00
2	Octane, 2,4,6-trimethyl-	28445	062016-37-9	53.00
3	Tritetracontane	241174	007098-21-7	53.00
4	Sulfurous acid, dodecyl 2-propyl es	137569	1000309-12-3	53.00
5	Sulfurous acid, decyl 2-propyl este	113723	1000309-12-1	50.00



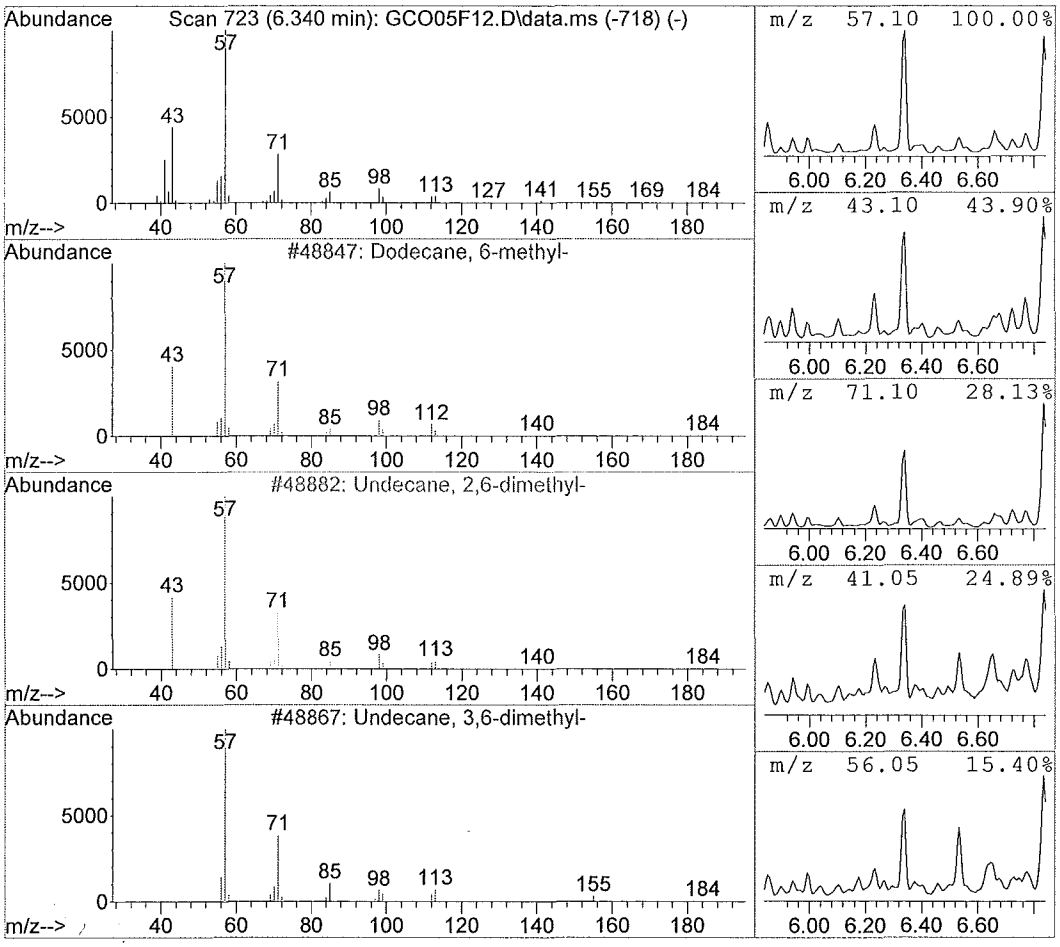
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.34	31.62 ug/ml	5755863	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 6-methyl-	48847	006044-71-9	93.00
2	Undecane, 2,6-dimethyl- BA	48882	017301-23-4	86.00
3	Undecane, 3,6-dimethyl-	48867	017301-28-9	74.00
4	Decane, 2,6,8-trimethyl-	48893	062108-26-3	64.00
5	Decane, 2,5,9-trimethyl-	48890	062108-22-9	64.00



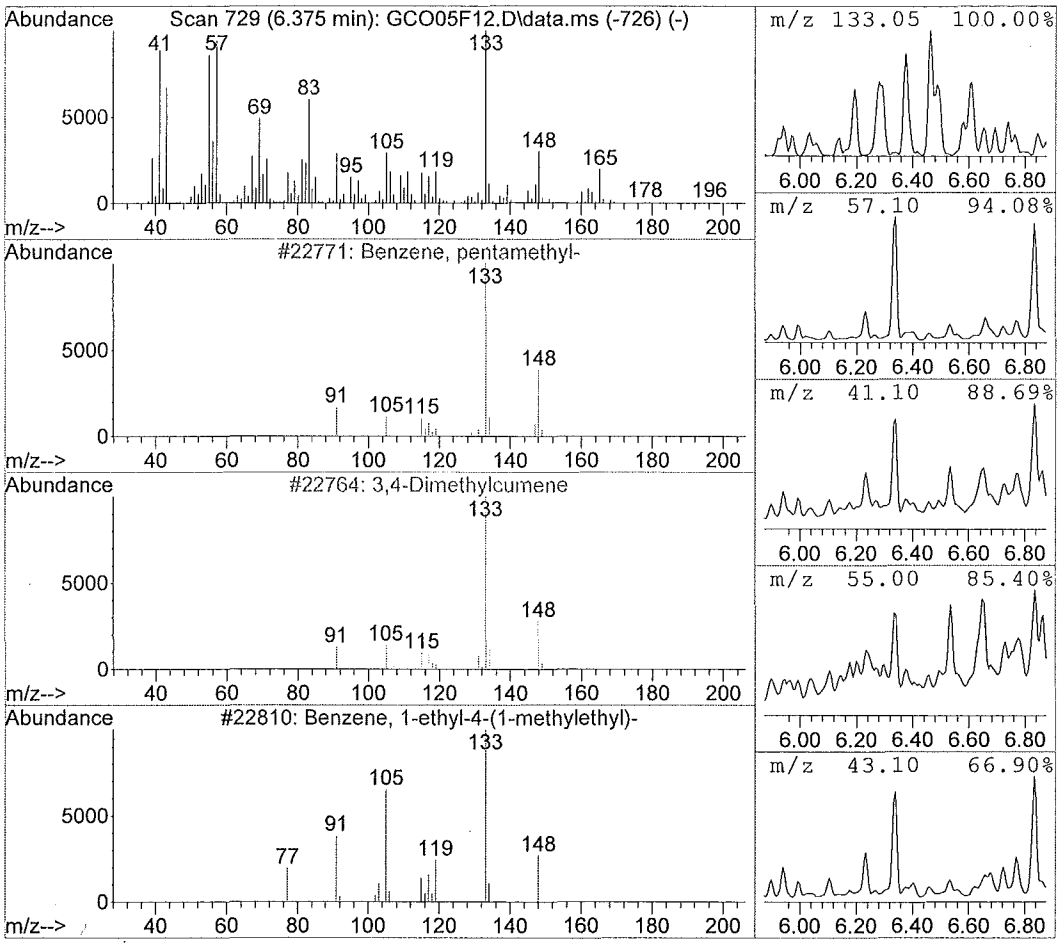
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.37	6.65 ug/ml	1209779	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, pentamethyl-	22771	000700-12-9	60.00
2	3,4-Dimethylcumene	22764	1000370-34-1	55.00
3	Benzene, 1-ethyl-4-(1-methylethyl)-	22810	004218-48-8	53.00
4	Benzene, 1,3-dimethyl-5-(1-methylet	22824	004706-90-5	49.00
5	1,5,6,7-Tetramethylbicyclo[3.2.0]he	22848	134329-46-7	46.00



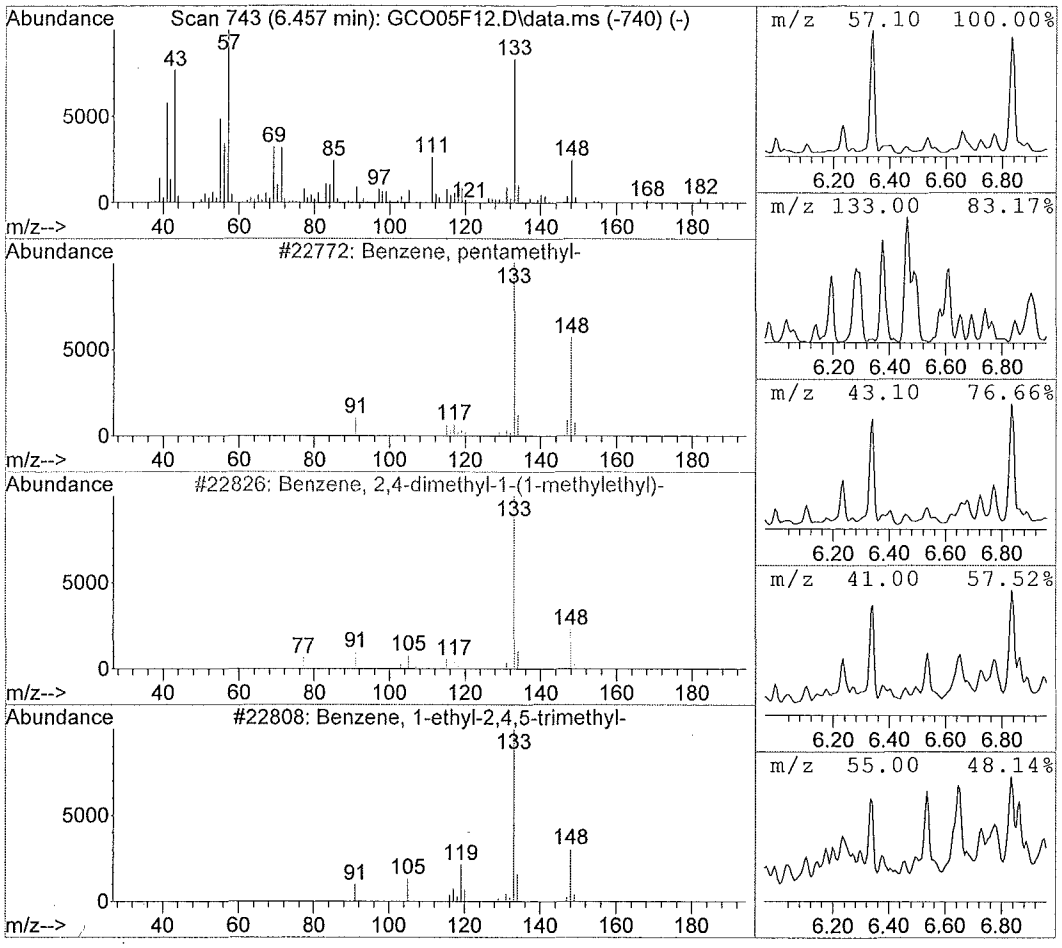
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.46	4.43 ug/ml	806902	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, pentamethyl-	22772	000700-12-9	50.00
2	Benzene, 2,4-dimethyl-1-(1-methylet	22826	004706-89-2	46.00
3	Benzene, 1-ethyl-2,4,5-trimethyl-	22808	017851-27-3	45.00
4	Benzene, 1,3-dimethyl-5-(1-methylet	22830	004706-90-5	43.00
5	1,5,6,7-Tetramethylbicyclo[3.2.0]he	22848	134329-46-7	43.00



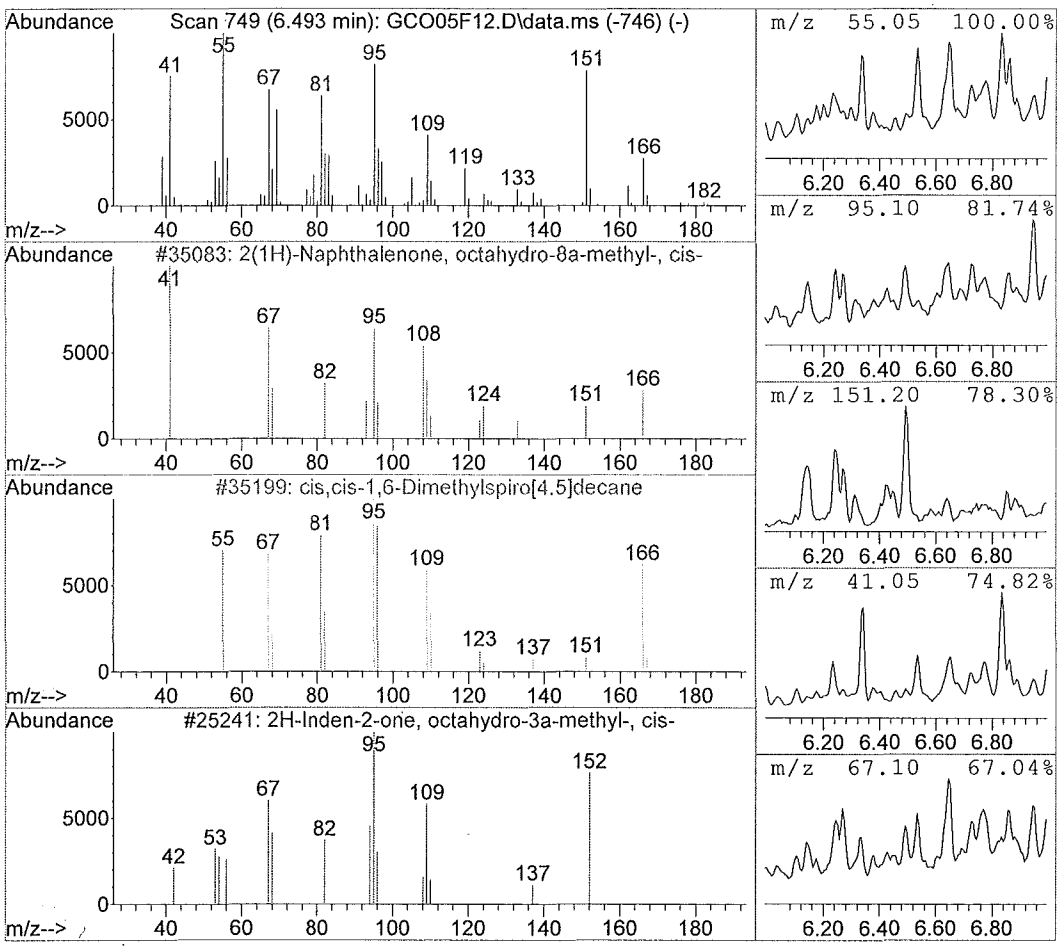
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.49	3.44 ug/ml	626127	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2(1H)-Naphthalenone, octahydro-8a-m	35083	002530-17-8	53.00
2	cis,cis-1,6-Dimethylspiro[4.5]decan	35199	1000111-72-4	49.00
3	2H-Inden-2-one, octahydro-3a-methyl	25241	013351-29-6	46.00
4	Naphthalene, decahydro-2-methyl-	25447	002958-76-1	41.00
5	trans,cis-1,7-Dimethylspiro[4.5]dec	35210	1000111-72-7	41.00



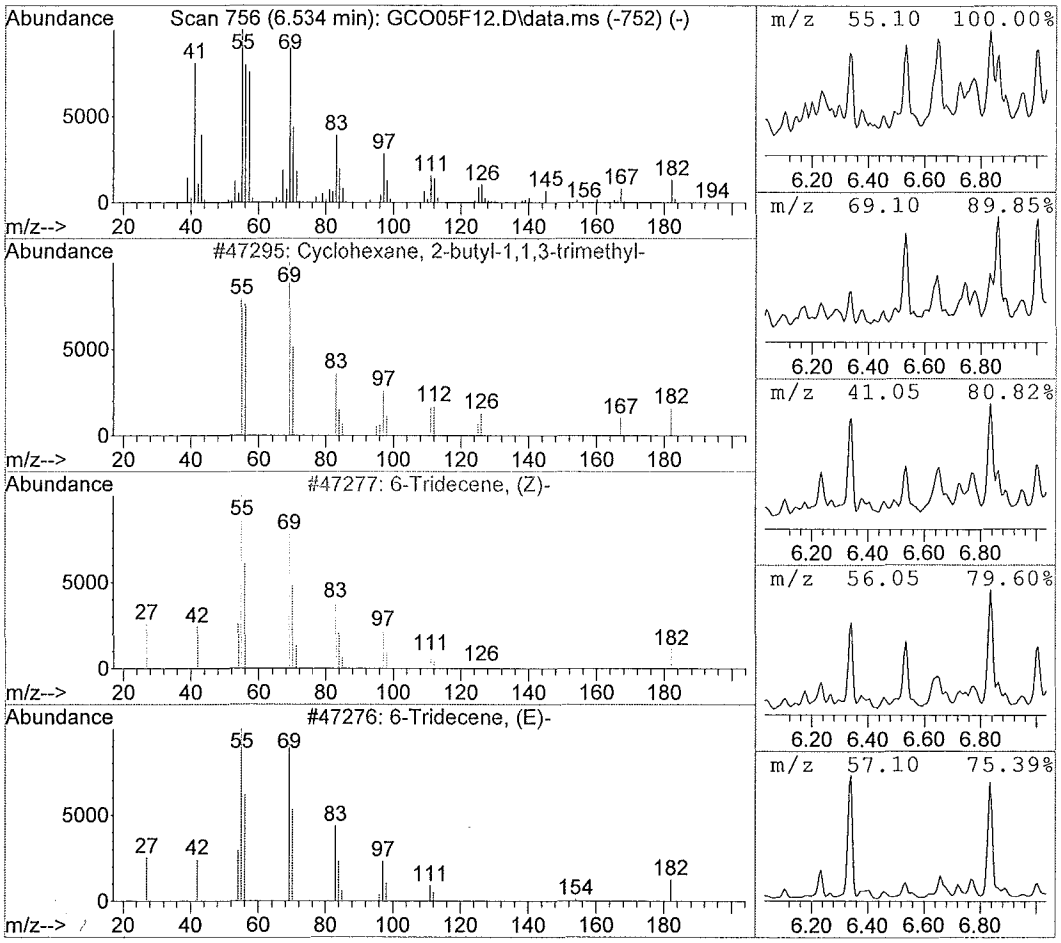
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.53	11.28 ug/ml	2052863	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 2-butyl-1,1,3-trimethy CA	47295	054676-39-0	95.00
2	6-Tridecene, (Z)-	47277	006508-77-6	94.00
3	6-Tridecene, (E)-	47276	006434-76-0	90.00
4	2-Tridecene, (Z)-	47271	041446-59-7	86.00
5	4-Nonene, 5-butyl-	47282	007367-38-6	83.00



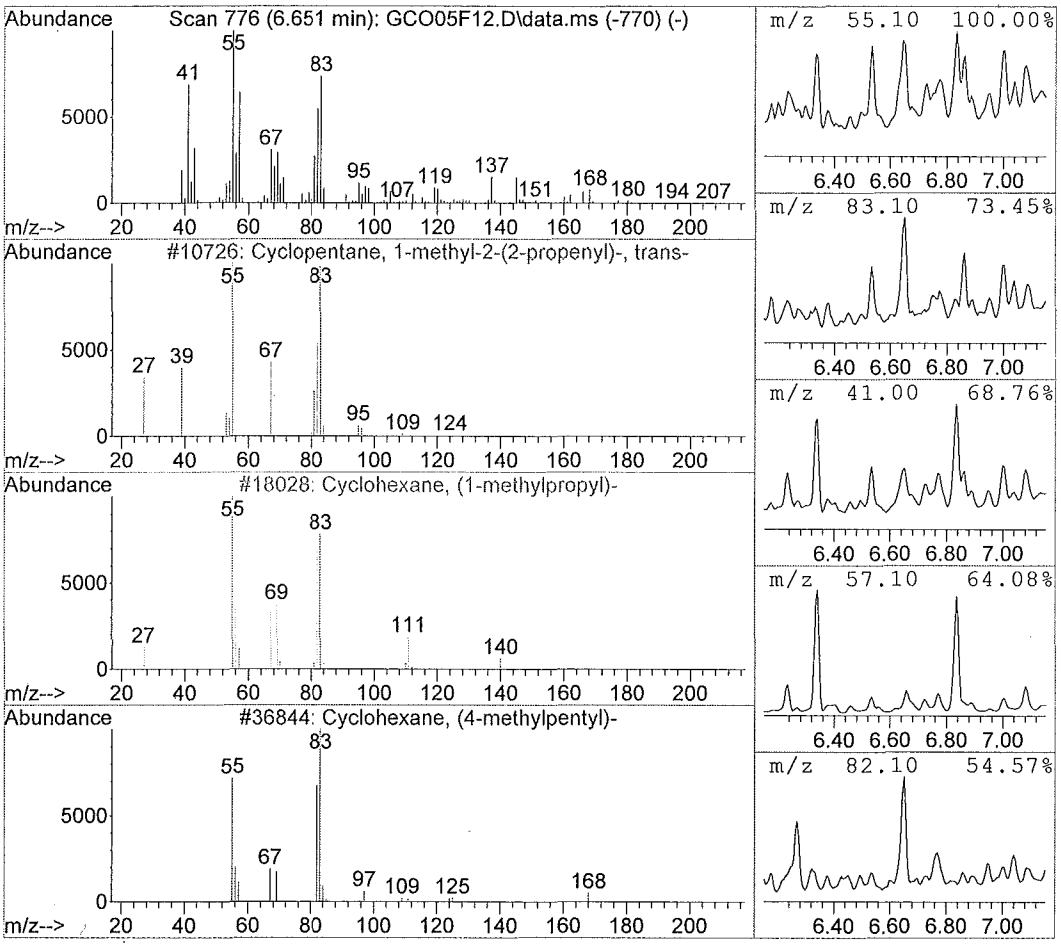
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.65	16.82 ug/ml	3062194	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclopentane, 1-methyl-2-(2-propeny CA	10726	050746-53-7	83.00
2	Cyclohexane, (1-methylpropyl)-	18028	007058-01-7	59.00
3	Cyclohexane, (4-methylpentyl)-	36844	061142-20-9	53.00
4	Cyclohexane, (1-methylethyl)-	11587	000696-29-7	53.00
5	Cyclohexane, 2-propenyl-	10665	002114-42-3	53.00



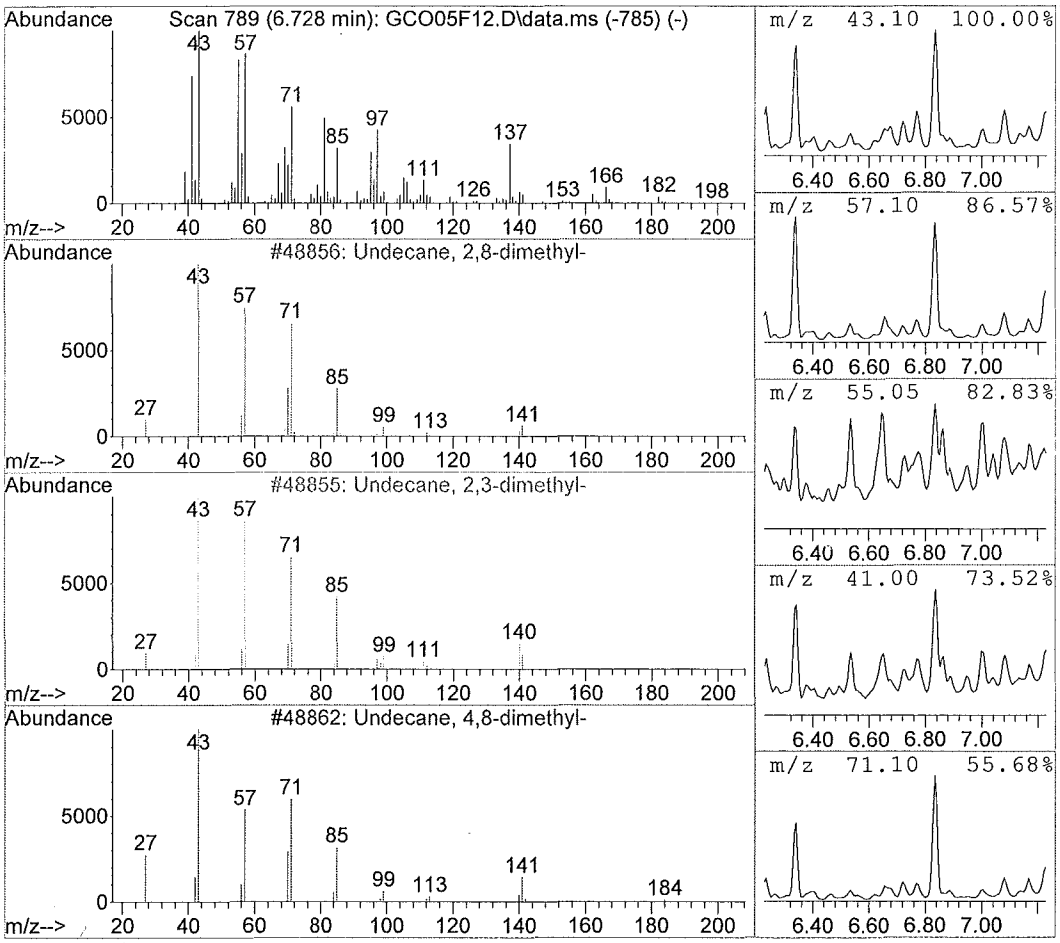
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.73	9.06 ug/ml	1648794	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 2,8-dimethyl-	48856	017301-25-6	25.00
2	Undecane, 2,3-dimethyl-	48855	017312-77-5	22.00
3	Undecane, 4,8-dimethyl-	48862	017301-33-6	22.00
4	Dodecane, 4-methyl-	48850	006117-97-1	20.00
5	Nonane, 2,6-dimethyl-	28437	017302-28-2	18.00



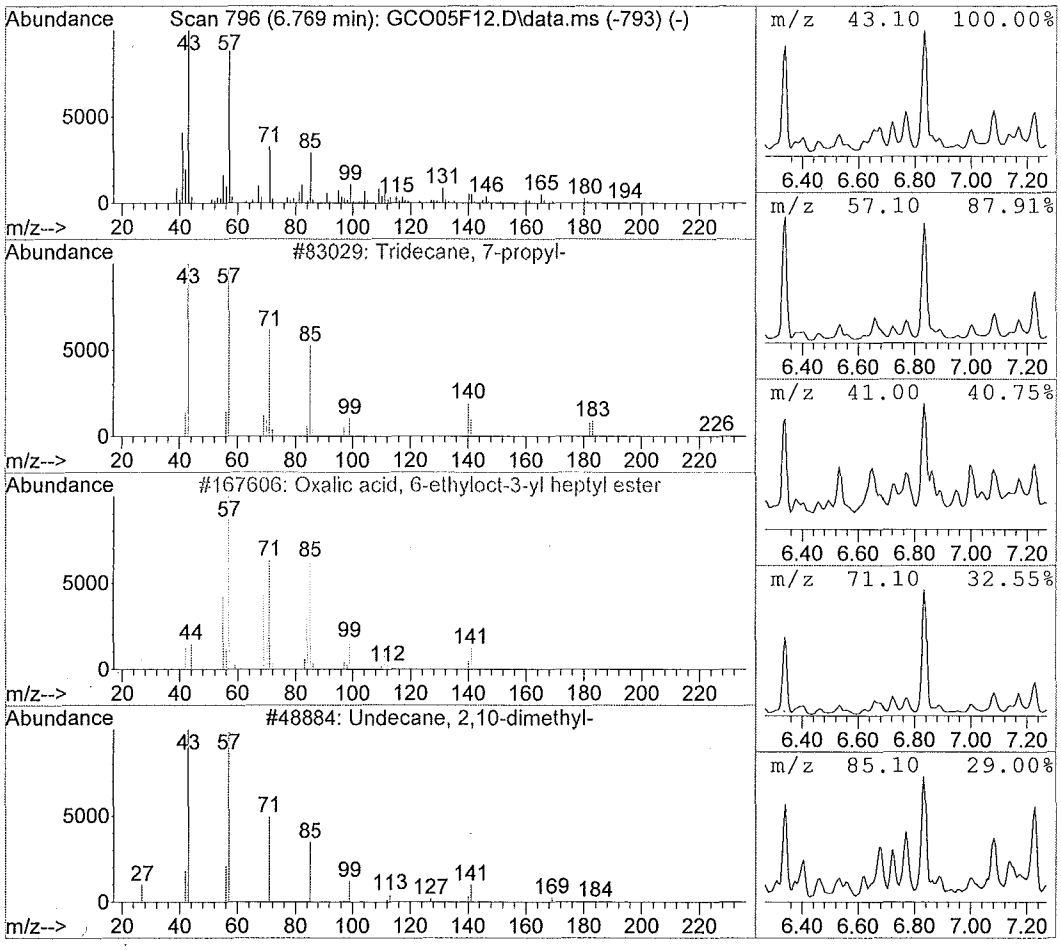
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.77	13.49 ug/ml	2455770	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 7-propyl- BA	83029	055045-09-5	50.00
2	Oxalic acid, 6-ethyloct-3-yl heptyl	167606	1000309-34-5	50.00
3	Undecane, 2,10-dimethyl-	48884	017301-27-8	49.00
4	1-Iodoundecane	128607	004282-44-4	47.00
5	Decane, 1-iodo-	116705	002050-77-3	43.00



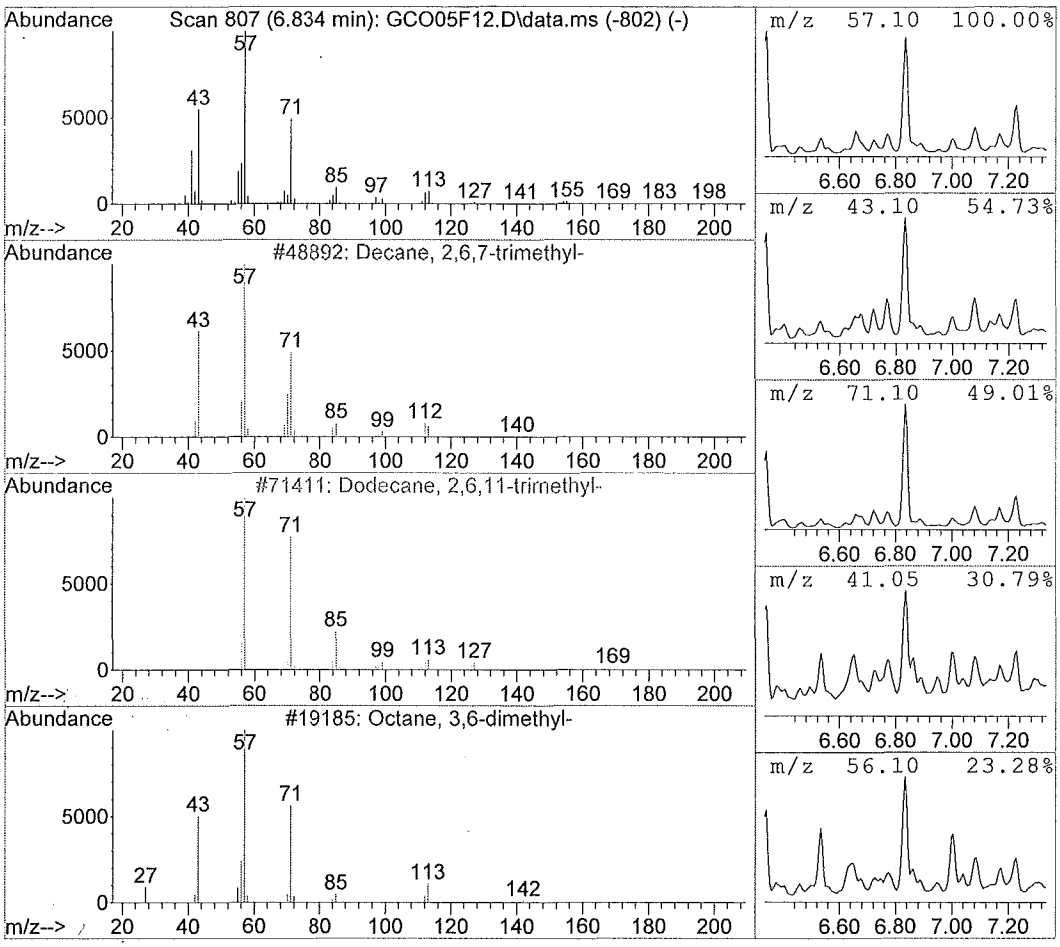
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.83	36.10 ug/ml	6570457	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 2,6,7-trimethyl- BA	48892	062108-25-2	78.00
2	Dodecane, 2,6,11-trimethyl-	71411	031295-56-4	72.00
3	Octane, 3,6-dimethyl-	19185	015869-94-0	64.00
4	Nonane, 3-methyl-	19171	005911-04-6	64.00
5	Dodecane, 2,6,10-trimethyl-	71410	003891-98-3	64.00



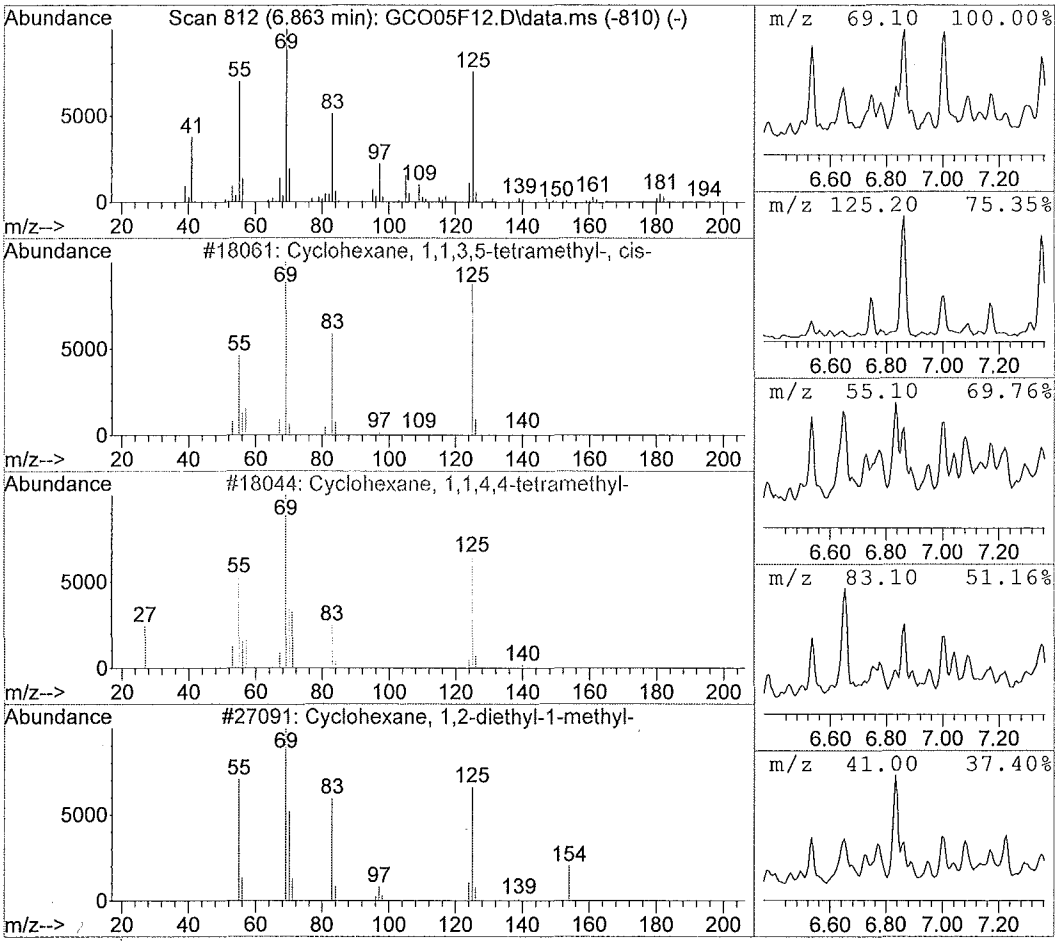
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.86	8.24 ug/ml	1498948	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,1,3,5-tetramethyl-, CA	18061	050876-32-9	68.00
2	Cyclohexane, 1,1,4,4-tetramethyl-	18044	002223-52-1	53.00
3	Cyclohexane, 1,2-diethyl-1-methyl-	27091	061141-79-5	50.00
4	Cyclohexane, 2,4-diethyl-1-methyl-	27090	061142-70-9	50.00
5	Cyclohexane, 1,1,3,5-tetramethyl-,	18068	050876-31-8	50.00



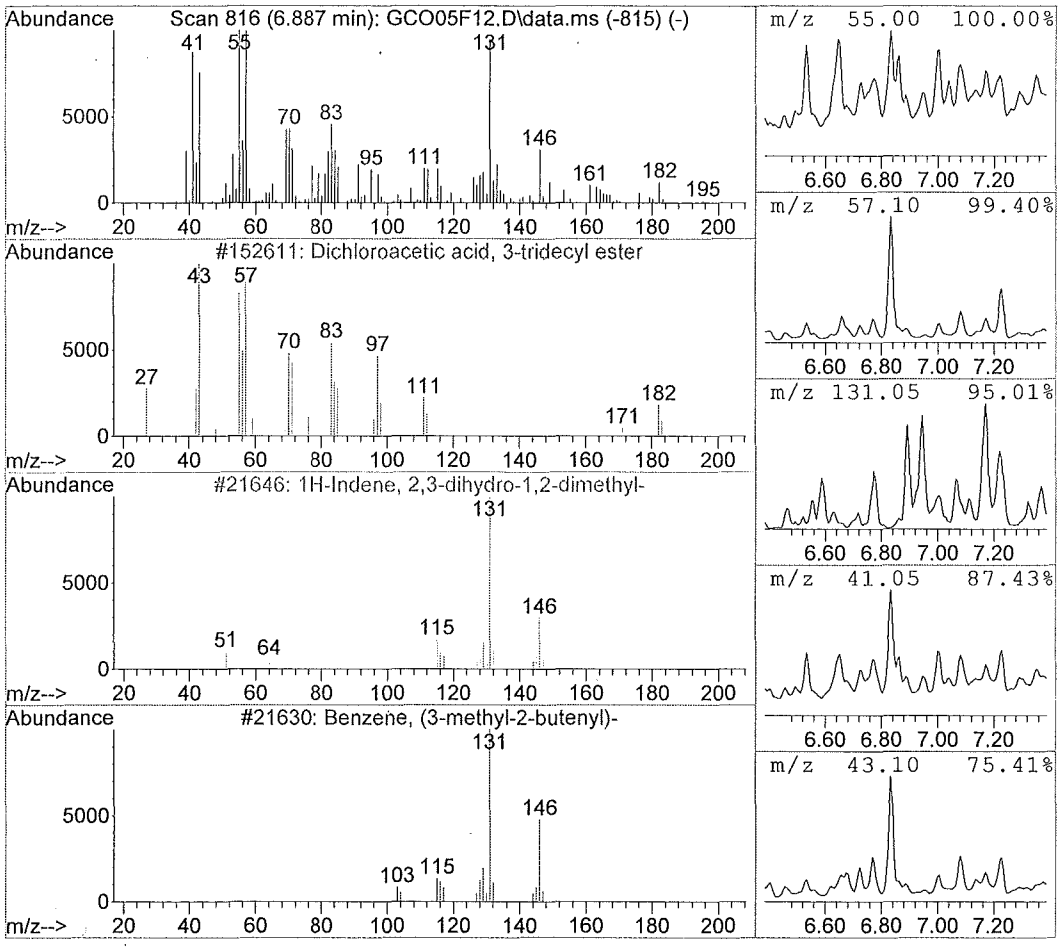
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.89	3.96 ug/ml	720573	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dichloroacetic acid, 3-tridecyl est	152611	1000280-64-2	38.00
2	1H-Indene, 2,3-dihydro-1,2-dimethyl	21646	017057-82-8	35.00
3	Benzene, (3-methyl-2-butenyl)-	21630	004489-84-3	35.00
4	Naphthalene, 1,2,3,4-tetrahydro-1-m	21672	001559-81-5	35.00
5	2-Butene, 3-chloro-1-phenyl-, (Z)-	34768	016608-68-7	25.00



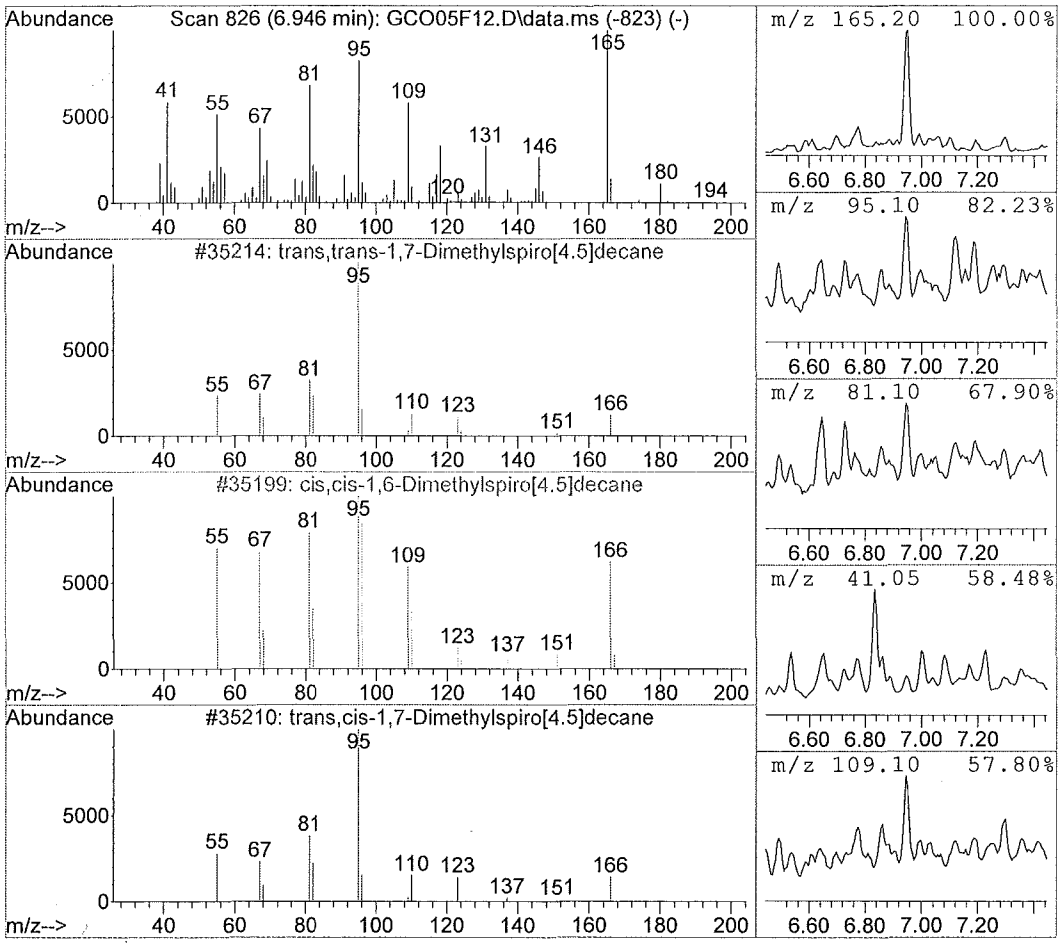
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.95	8.28 ug/ml	1506183	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	trans,trans-1,7-Dimethylspiro[4.5]d	35214	1000111-72-6	42.00
2	cis,cis-1,6-Dimethylspiro[4.5]decan	35199	1000111-72-4	41.00
3	trans,cis-1,7-Dimethylspiro[4.5]dec	35210	1000111-72-7	38.00
4	1,4-Pentadiene, 2,3,3-trimethyl-	6021	000756-02-5	25.00
5	Cyclopentene, 5-hexyl-3,3-dimethyl-	45735	061142-66-3	25.00



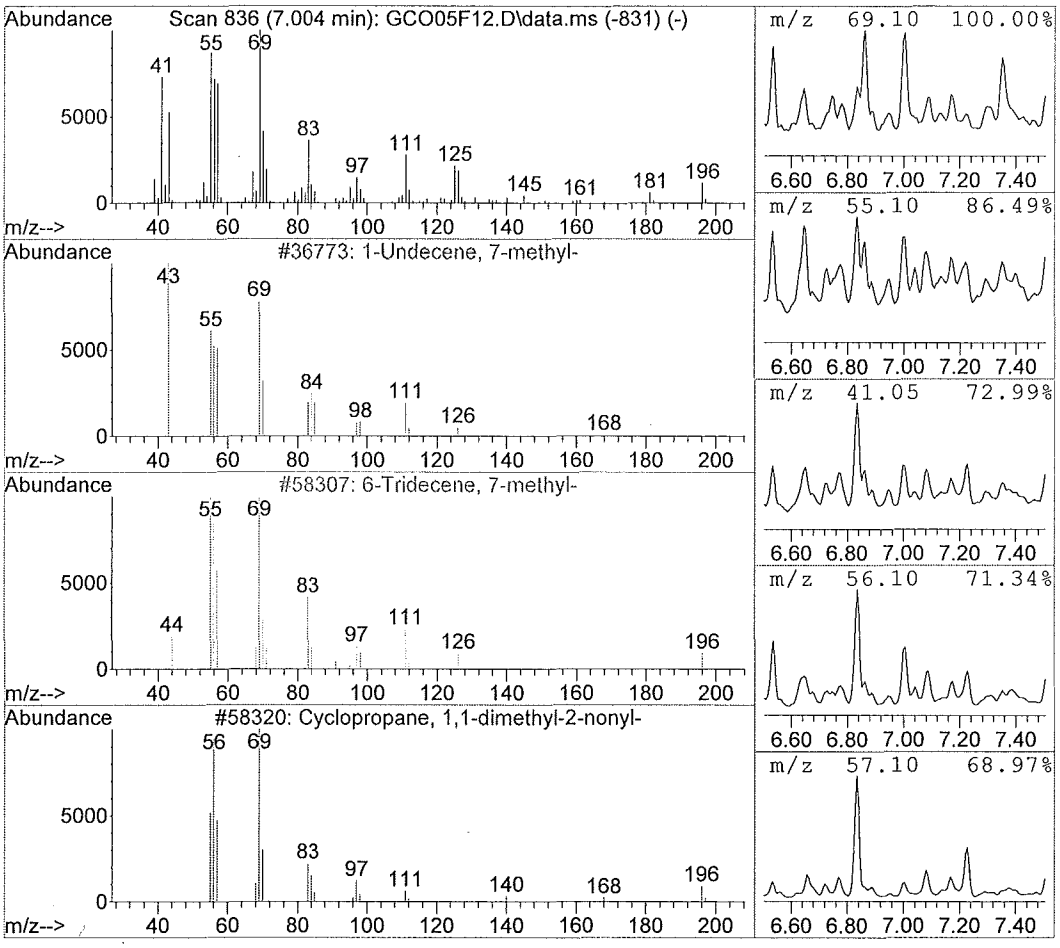
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.00	15.78 ug/ml	2871709	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Undecene, 7-methyl-	36773	074630-42-5	81.00
2	6-Tridecene, 7-methyl-	58307	024949-42-6	76.00
3	Cyclopropane, 1,1-dimethyl-2-nonyl-	58320	041977-38-2	62.00
4	Cyclohexane, 1,1,2-trimethyl-	11589	007094-26-0	58.00
5	3-Heptene, 2,6-dimethyl-	11558	002738-18-3	58.00



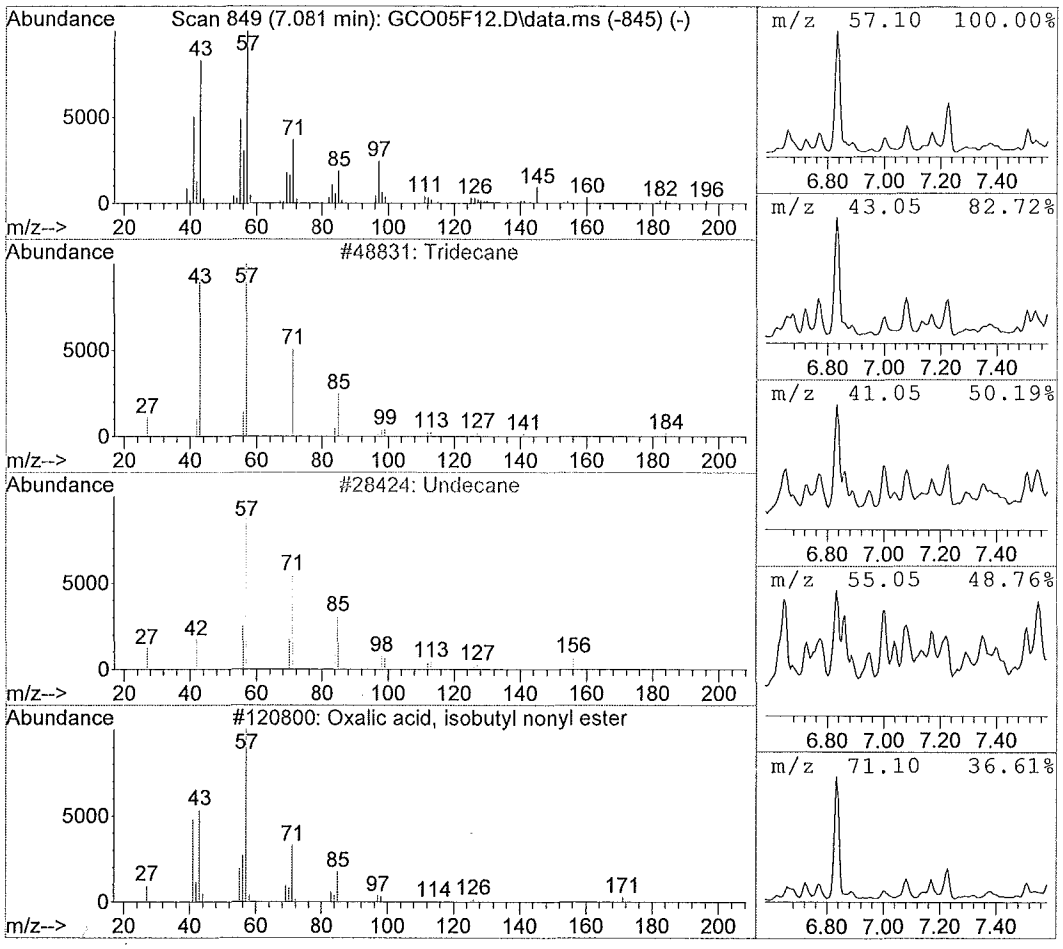
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.08	11.64 ug/ml	2118813	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane SA	48831	000629-50-5	60.00
2	Undecane	28424	001120-21-4	53.00
3	Oxalic acid, isobutyl nonyl ester	120800	1000309-37-4	52.00
4	Decane, 3-methyl-	28436	013151-34-3	49.00
5	Tetradecane, 1-chloro-	87665	002425-54-9	43.00



Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.17	5.63 ug/ml	1024735	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonane, 3-methyl-	19171	005911-04-6	38.00
2	Dodecane, 2,6,11-trimethyl-	71406	031295-56-4	35.00
3	Decane, 3,4-dimethyl-	38345	017312-45-7	35.00
4	Undecane, 2,5-dimethyl-	48872	017301-22-3	35.00
5	Sulfurous acid, butyl octyl ester	101974	1000309-17-5	27.00

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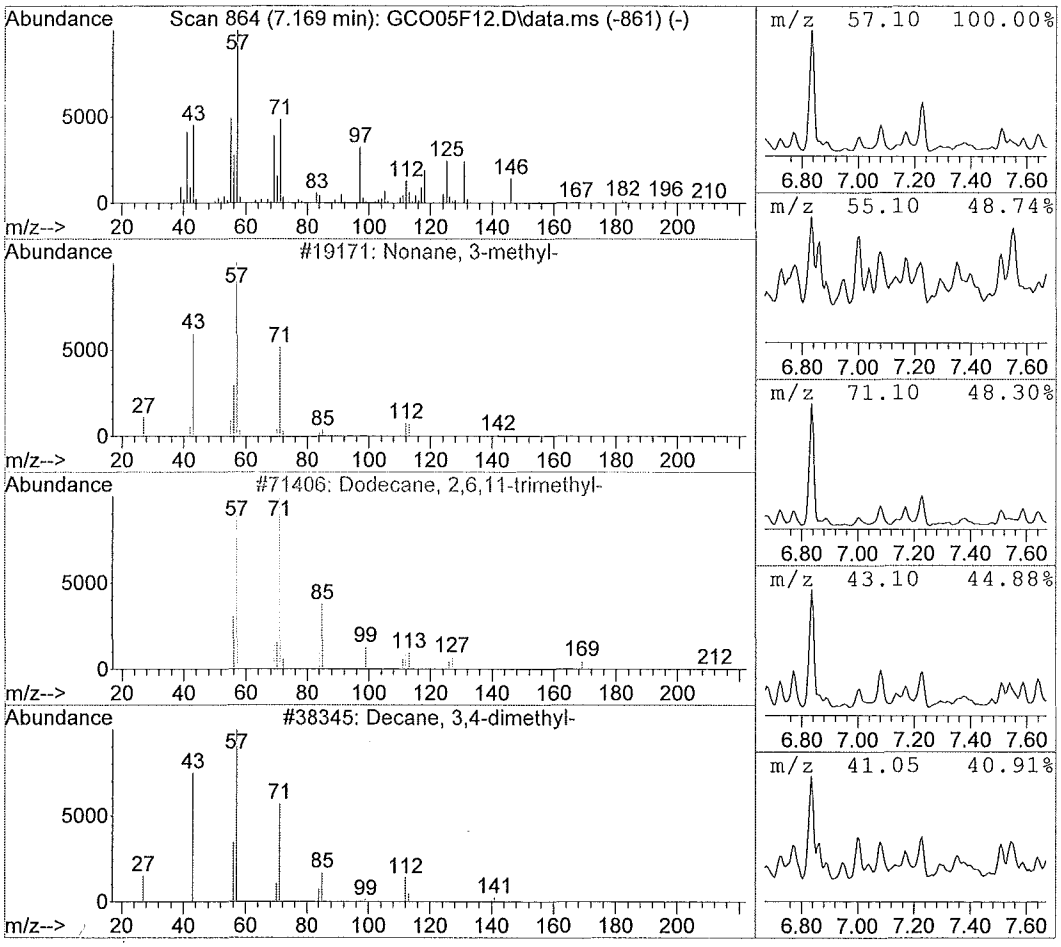

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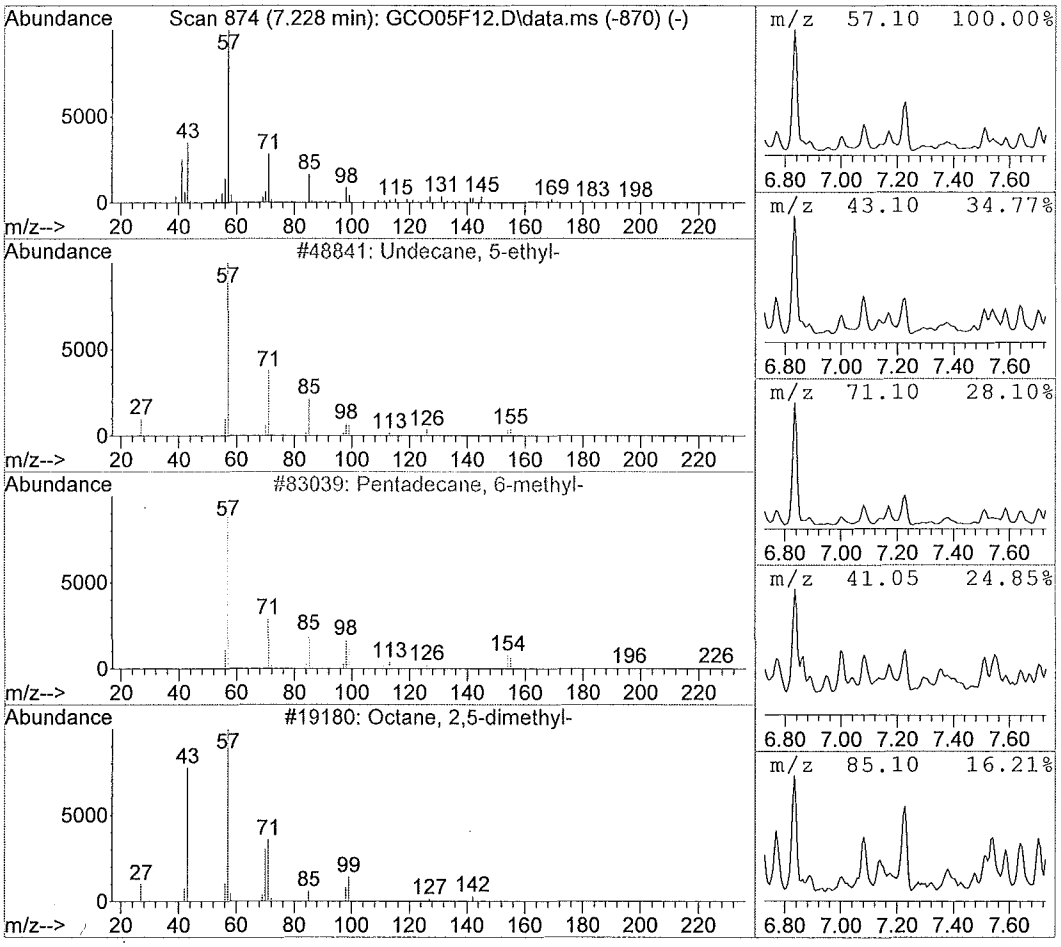
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.23	18.68 ug/ml	3399374	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 5-ethyl-	48841	017453-94-0	64.00
2	Pentadecane, 6-methyl-	83039	010105-38-1	59.00
3	Octane, 2,5-dimethyl-	19180	015869-89-3	58.00
4	Tridecane, 6-methyl-	59895	013287-21-3	58.00
5	Sulfurous acid, butyl decyl ester	125656	1000309-17-7	53.00



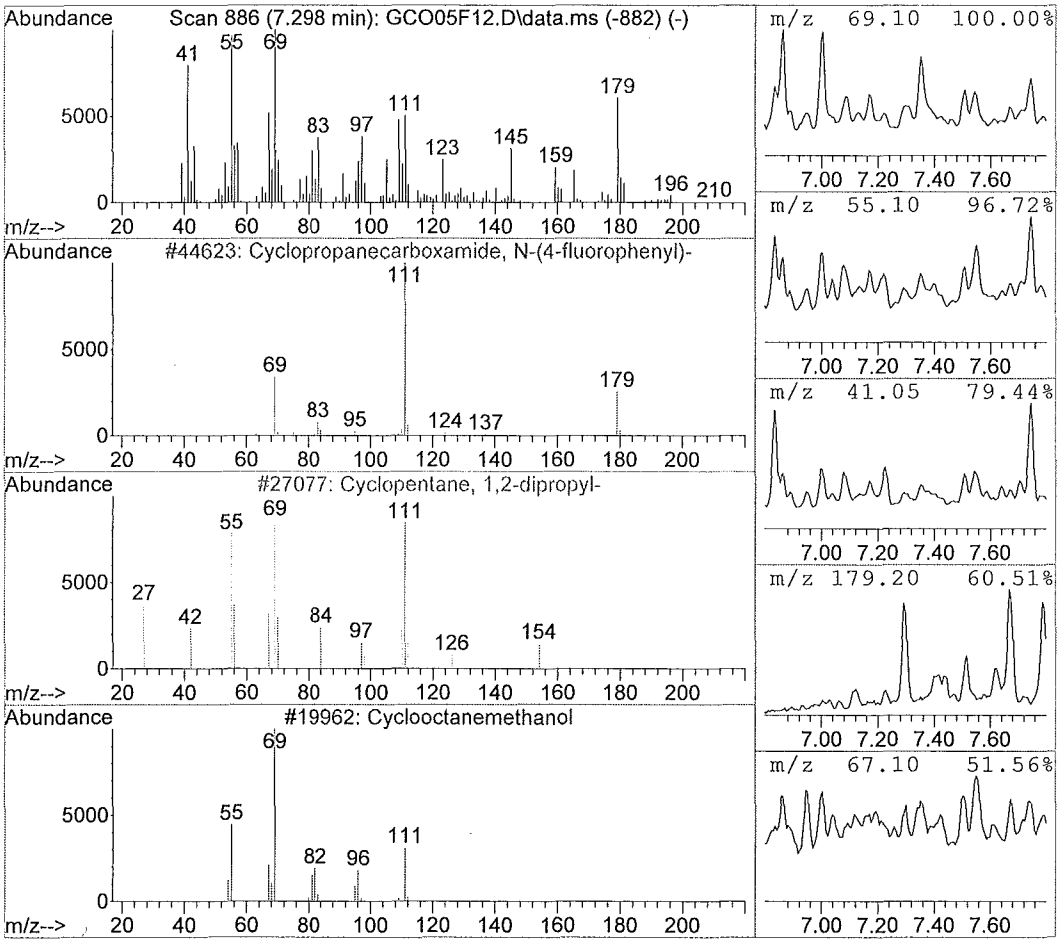
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.30	6.85 ug/ml	1247180	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclopropanecarboxamide, N-(4-fluor	44623	1000307-18-5	35.00
2	Cyclopentane, 1,2-dipropyl-	27077	091242-57-8	27.00
3	Cyclooctanemethanol	19962	003637-63-6	27.00
4	3-Tetradecene, (Z)-	58282	041446-67-7	27.00
5	Cyclohexane, (1,2-dimethylbutyl)-	36860	061142-37-8	27.00



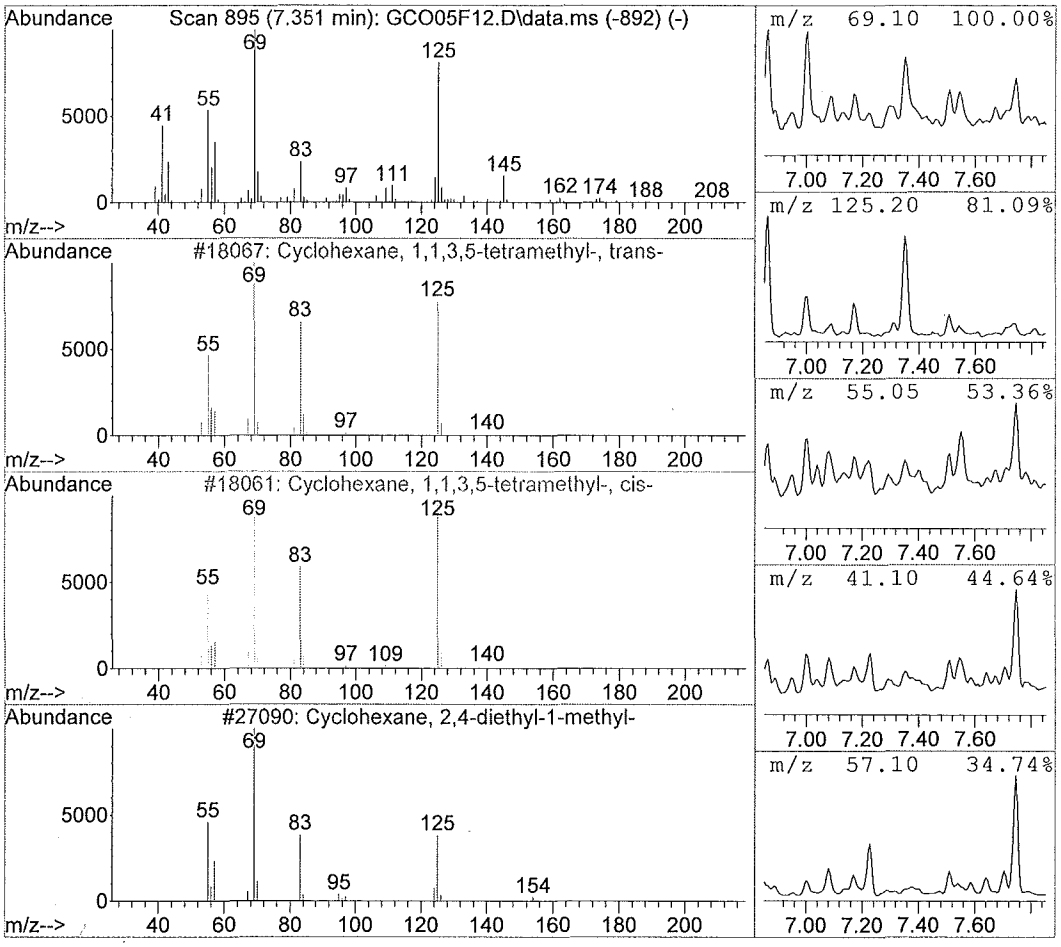
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.35	6.49 ug/ml	1180385	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,1,3,5-tetramethyl-, CA	18067	050876-31-8	64.00
2	Cyclohexane, 1,1,3,5-tetramethyl-,	18061	050876-32-9	53.00
3	Cyclohexane, 2,4-diethyl-1-methyl-	27090	061142-70-9	50.00
4	3,4-Dimethyl cyclohexanone	11397	005465-09-8	35.00
5	1-Pentene, 3,3-dimethyl-	3368	003404-73-7	35.00



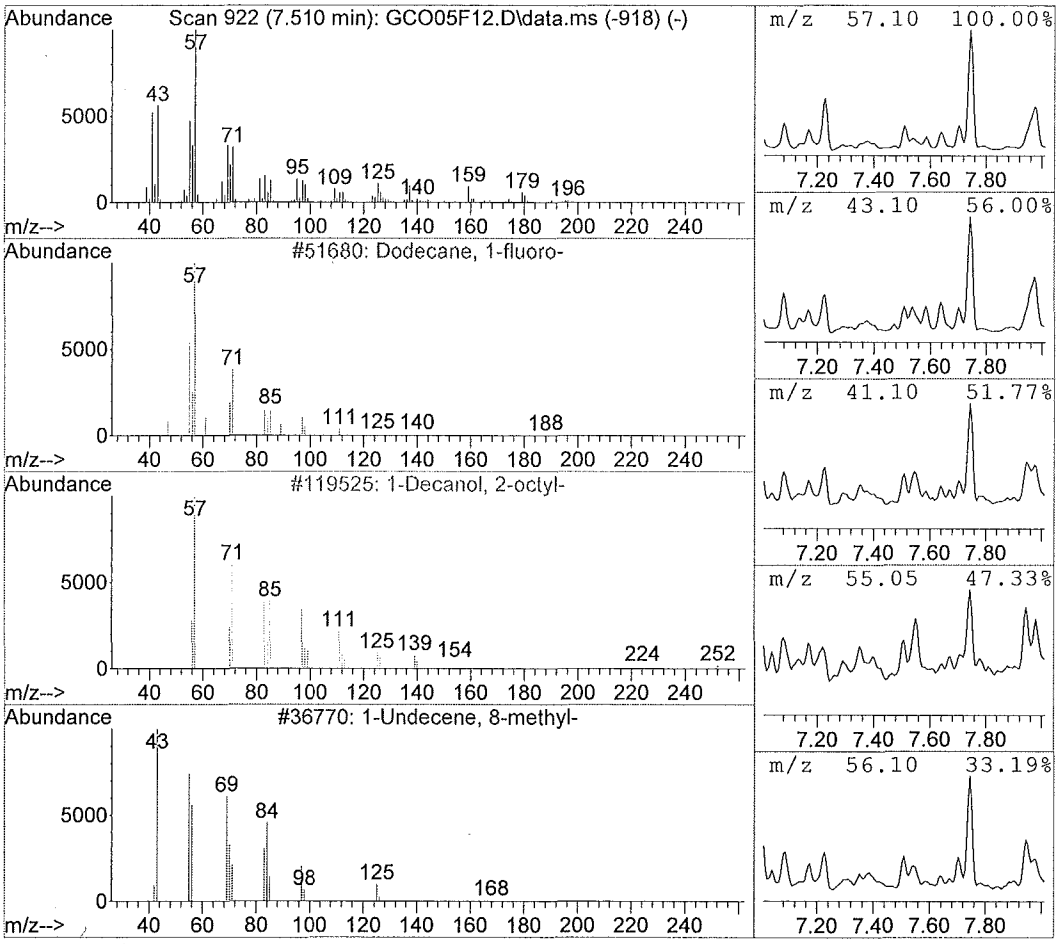
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.51	12.45 ug/ml	2266164	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 1-fluoro-	51680	000334-68-9	49.00
2	1-Decanol, 2-octyl-	119525	045235-48-1	43.00
3	1-Undecene, 8-methyl-	36770	074630-40-3	41.00
4	Dodecane, 2,5-dimethyl-	59898	056292-65-0	35.00
5	Decane	19158	000124-18-5	35.00



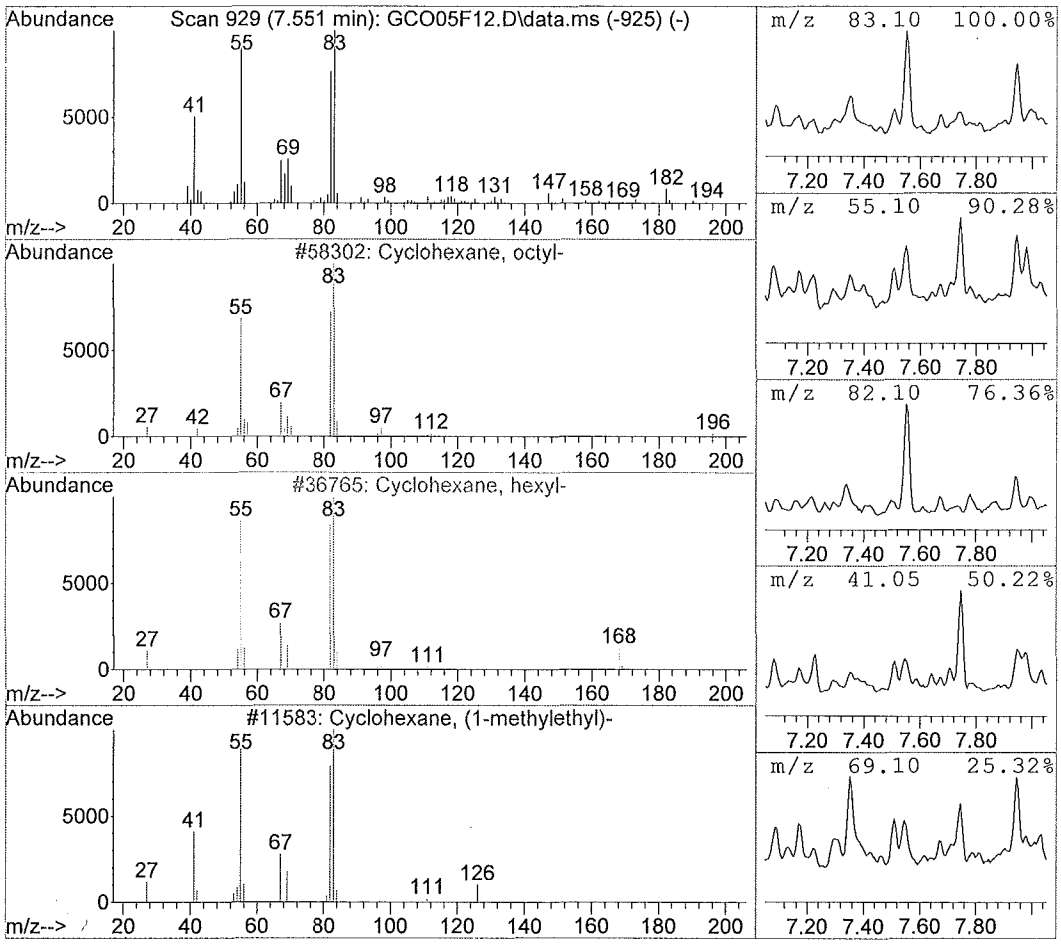
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.55	10.70 ug/ml	1946968	Naphthalene-d8	3640172

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, octyl-	58302	001795-15-9	72.00
2	Cyclohexane, hexyl-	36765	004292-75-5	72.00
3	Cyclohexane, (1-methylethyl)-	11583	000696-29-7	72.00
4	Cyclohexane, pentyl-	27055	004292-92-6	72.00
5	Cyclohexane, butyl-	17972	001678-93-9	64.00



Library Search Compound Report

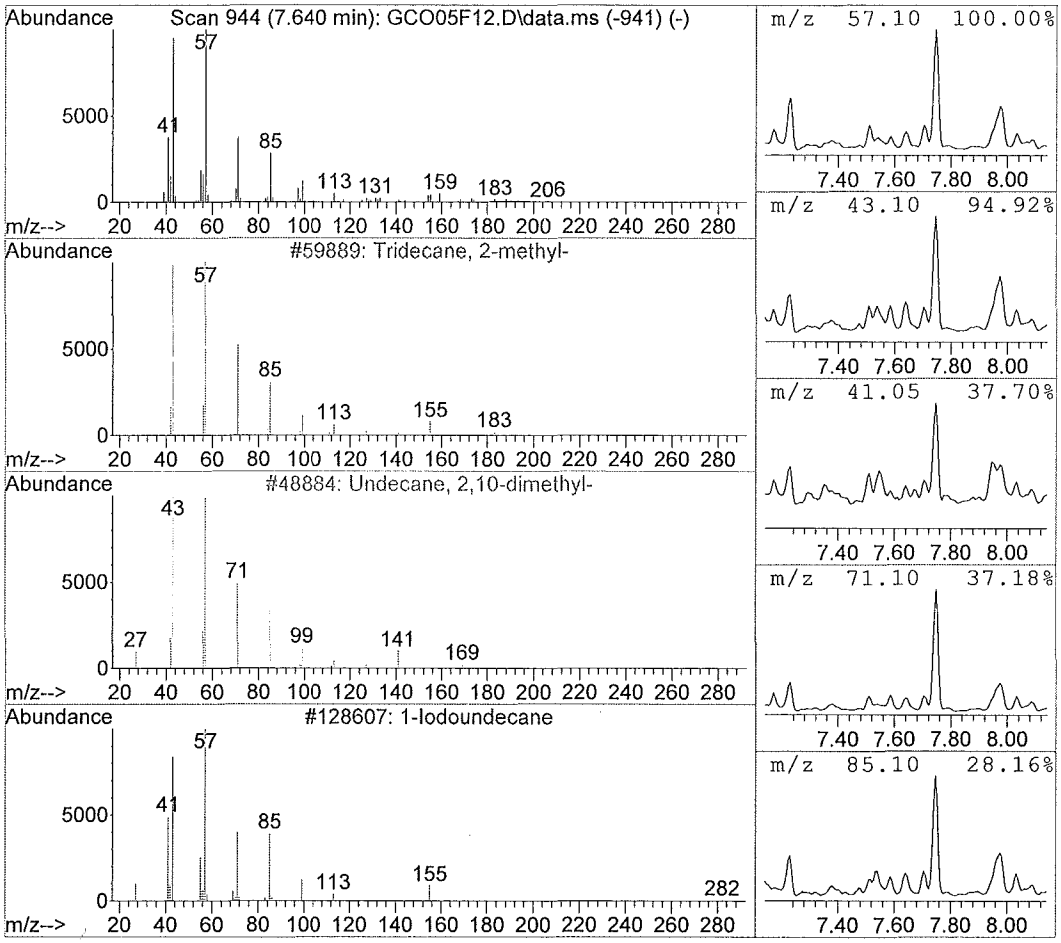
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.64	2.75 ug/ml	803157	Acenaphthene-d10	5831364

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 2-methyl-	59889	001560-96-9	91.00
2	Undecane, 2,10-dimethyl-	48884	017301-27-8	76.00
3	1-Iodoundecane	128607	004282-44-4	64.00
4	Undecane, 2,9-dimethyl-	48865	017301-26-7	64.00
5	Tridecane, 3-methyl-	59894	006418-41-3	64.00

BA



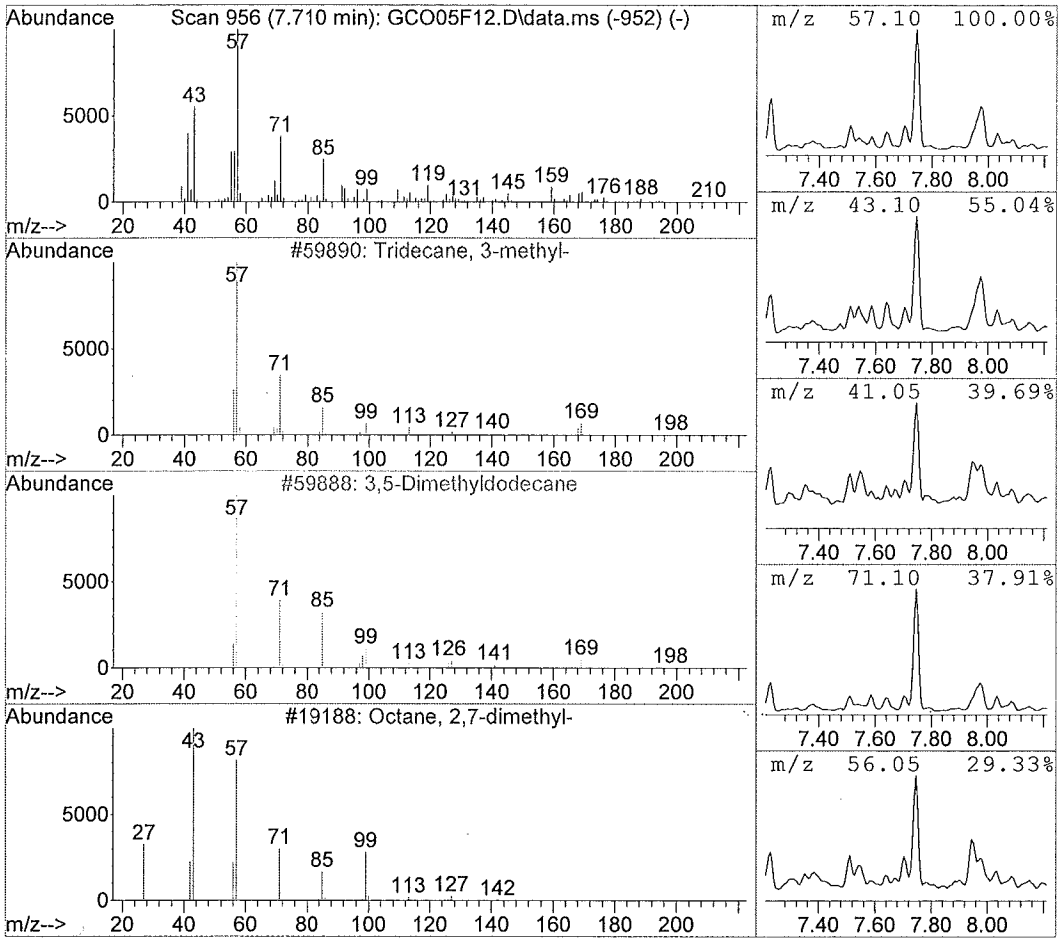
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.71	4.61 ug/ml	1342997	Acenaphthene-d10	5831364

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 3-methyl-	59890	006418-41-3	92.00
2	3,5-Dimethyldodecane	59888	107770-99-0	58.00
3	Octane, 2,7-dimethyl-	19188	001072-16-8	58.00
4	Dodecane, 3-methyl-	48848	017312-57-1	53.00
5	Nonane, 3-methyl-	19171	005911-04-6	49.00



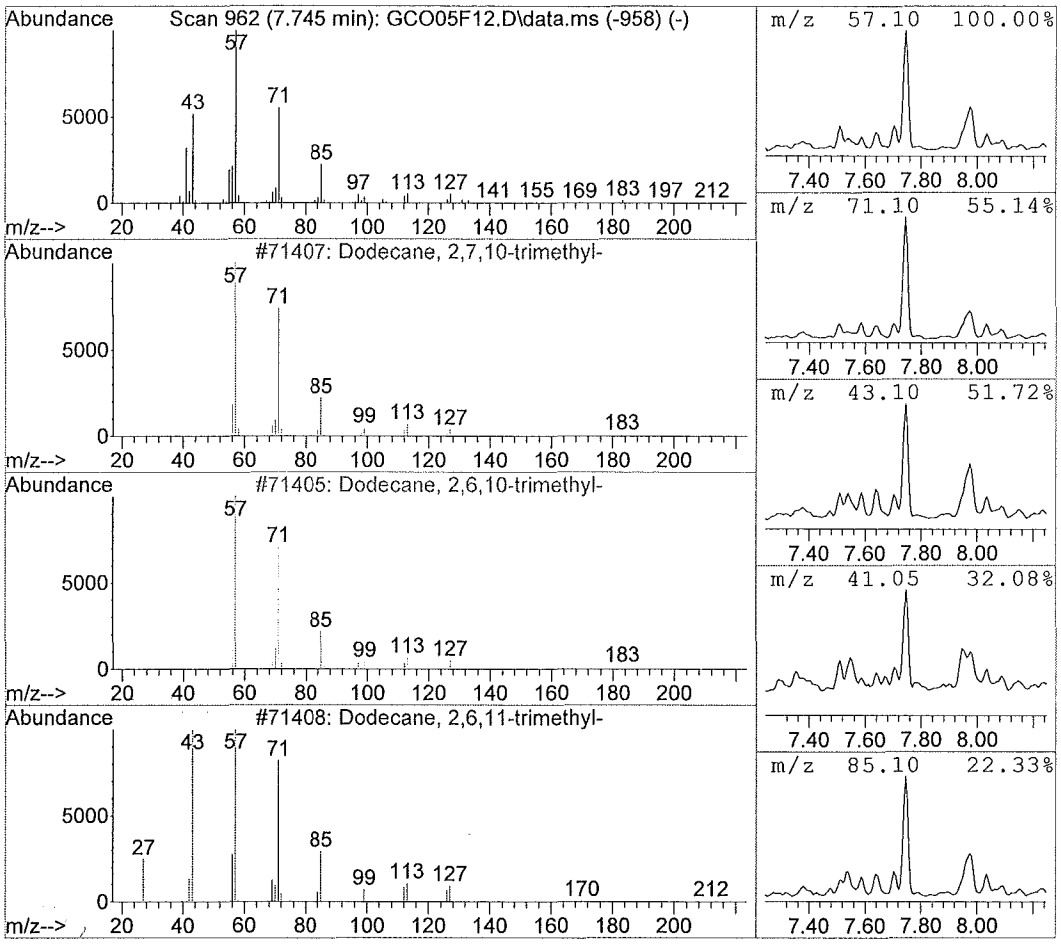
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.75	22.89 ug/ml	6674871	Acenaphthene-d10	5831364

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2,7,10-trimethyl- BA	71407	074645-98-0	83.00
2	Dodecane, 2,6,10-trimethyl-	71405	003891-98-3	80.00
3	Dodecane, 2,6,11-trimethyl-	71408	031295-56-4	70.00
4	Undecane, 5-methyl-	38325	001632-70-8	53.00
5	Octane, 5-ethyl-2-methyl-	28449	062016-18-6	53.00



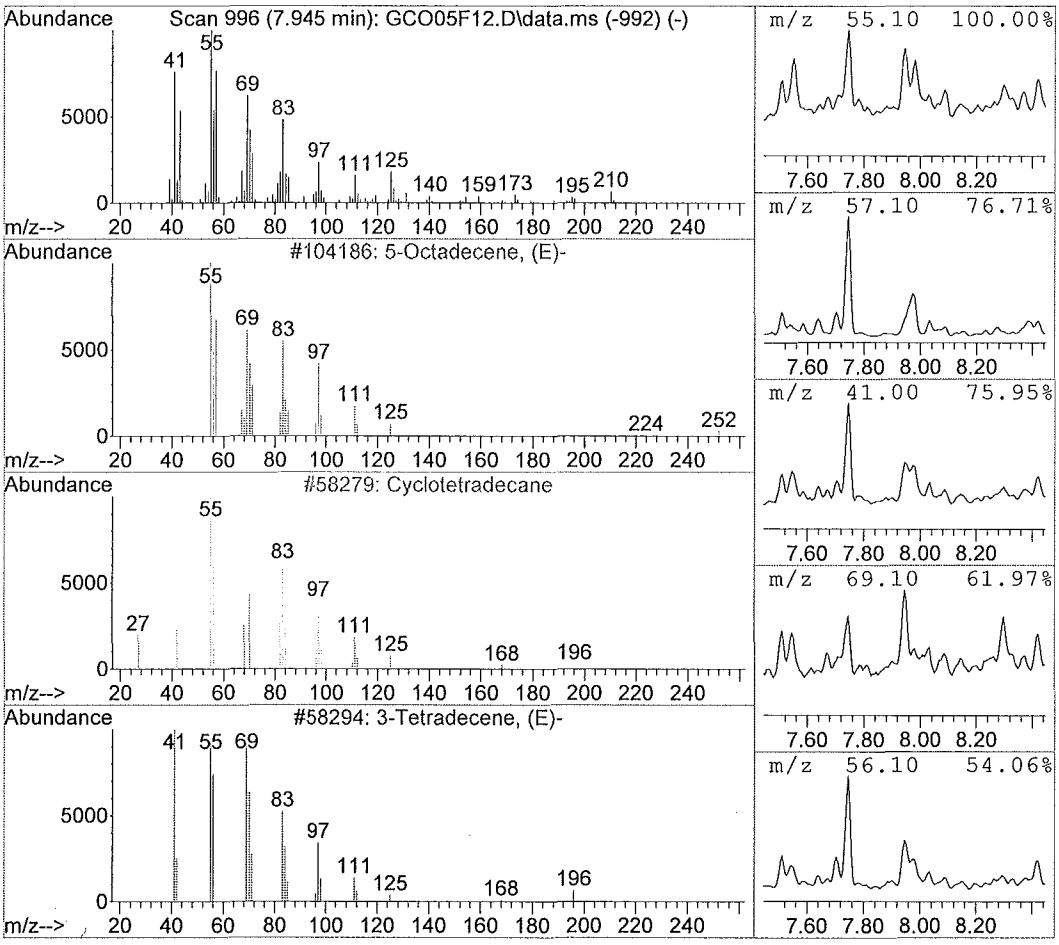
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.95	11.92 ug/ml	3476766	Acenaphthene-d10	5831364

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	5-Octadecene, (E)-	104186	007206-21-5	87.00
2	Cyclotetradecane	58279	000295-17-0	78.00
3	3-Tetradecene, (E)-	58294	041446-68-8	76.00
4	Cyclopentane, 1-butyl-2-pentyl-	58315	061142-52-7	70.00
5	4-Tetradecene, (E)-	58284	041446-78-0	70.00



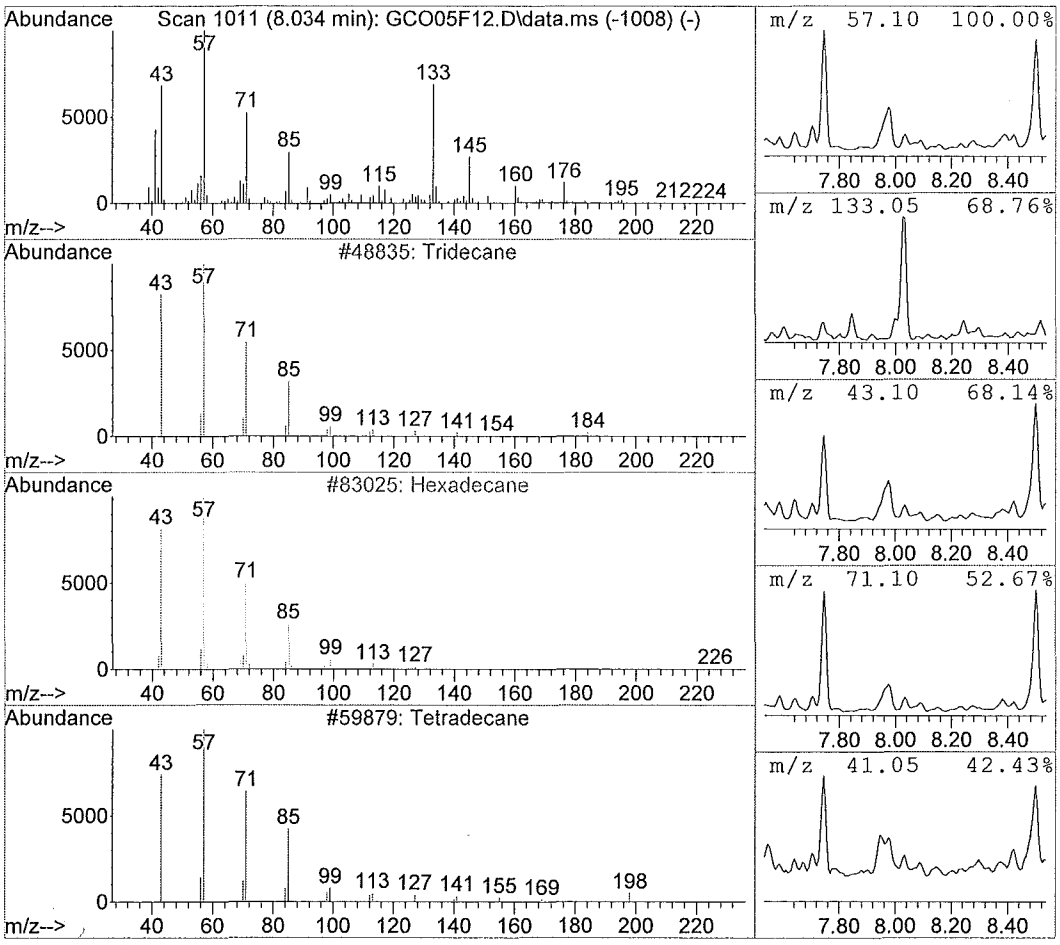
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.03	4.50 ug/ml	1310982	Acenaphthene-d10	5831364

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane 59	48835	000629-50-5	38.00
2	Hexadecane	83025	000544-76-3	38.00
3	Tetradecane	59879	000629-59-4	35.00
4	Undecane	28421	001120-21-4	35.00
5	Decane, 2,3,5-trimethyl-	48894	062238-11-3	35.00



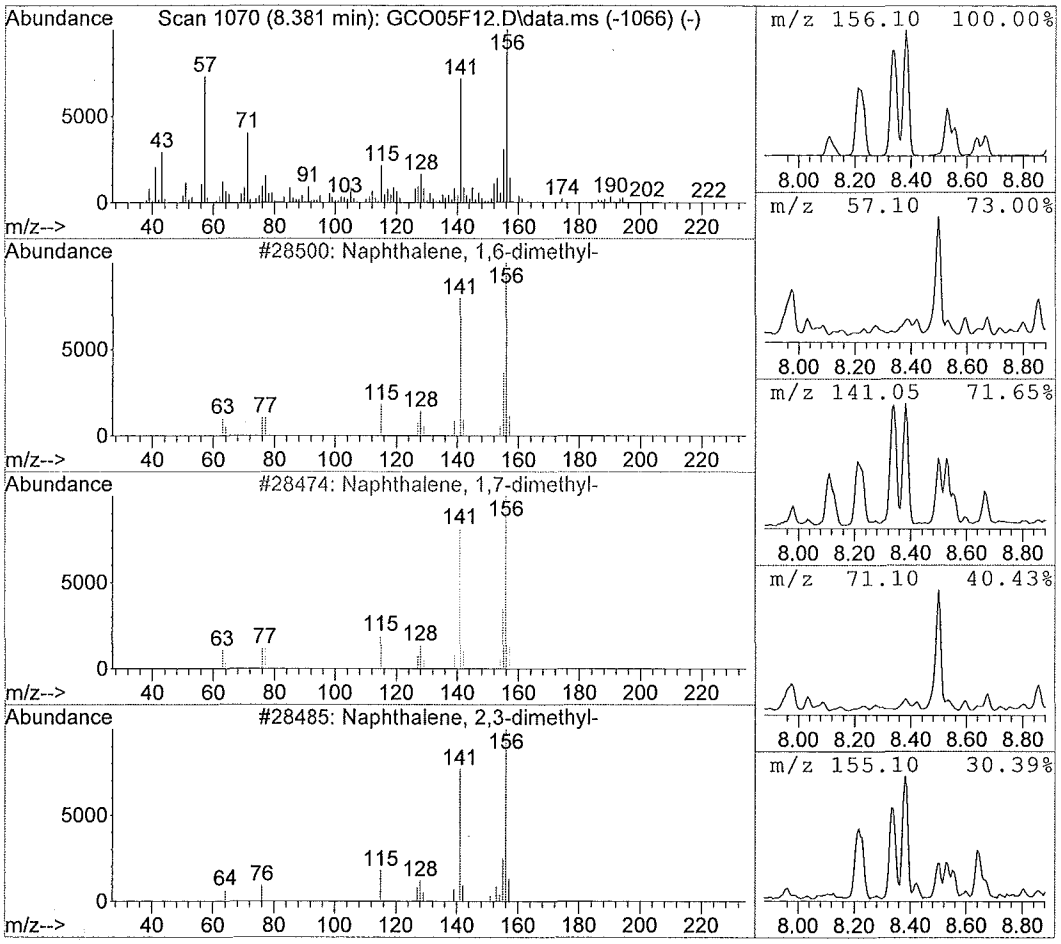
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.38	4.64 ug/ml	1353029	Acenaphthene-d10	5831364

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	28500	000575-43-9	98.00
2	Naphthalene, 1,7-dimethyl-	28474	000575-37-1	97.00
3	Naphthalene, 2,3-dimethyl-	28485	000581-40-8	96.00
4	Naphthalene, 2,6-dimethyl-	28488	000581-42-0	96.00
5	Naphthalene, 2,7-dimethyl-	28482	000582-16-1	96.00



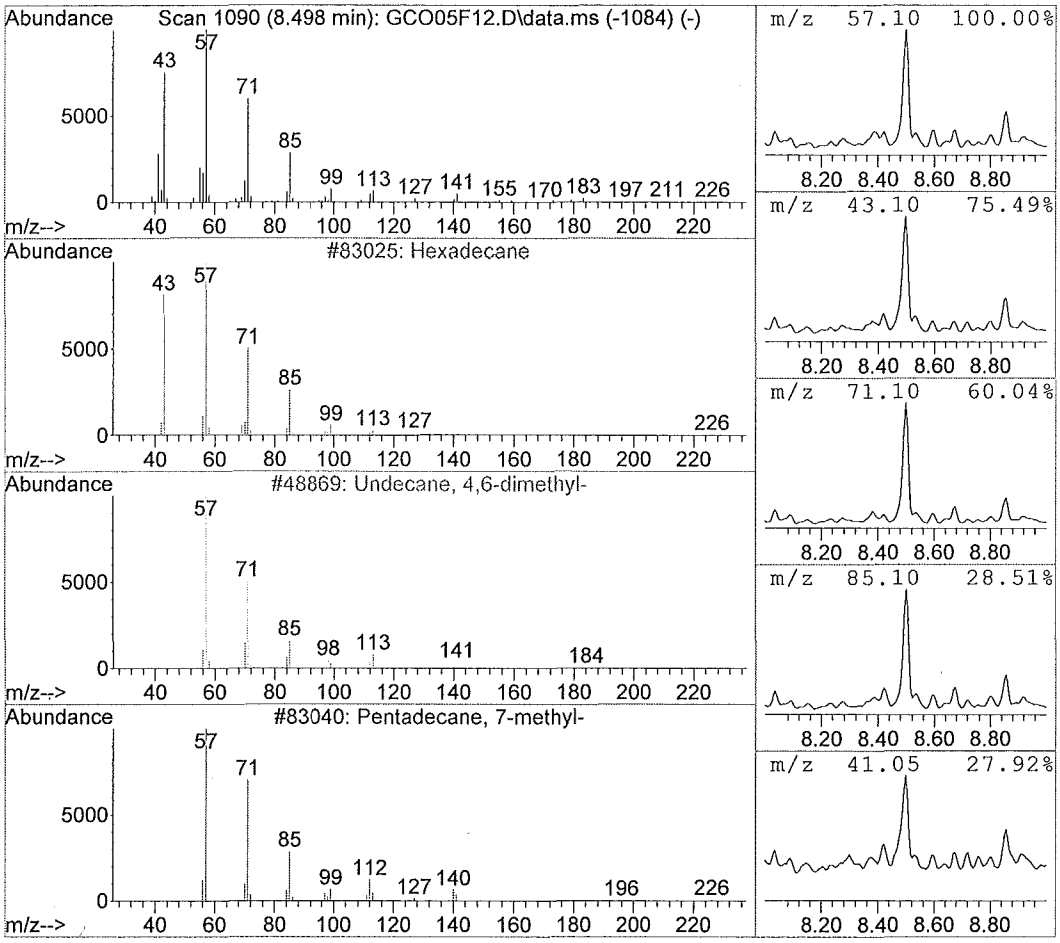
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.50	24.48 ug/ml	7138028	Acenaphthene-d10	5831364

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane SA	83025	000544-76-3	93.00
2	Undecane, 4,6-dimethyl-	48869	017312-82-2	90.00
3	Pentadecane, 7-methyl-	83040	006165-40-8	87.00
4	Heptadecane, 2,6,10,15-tetramethyl-	141442	054833-48-6	86.00
5	Heptadecane, 2,6,10,14-tetramethyl-	141441	018344-37-1	86.00



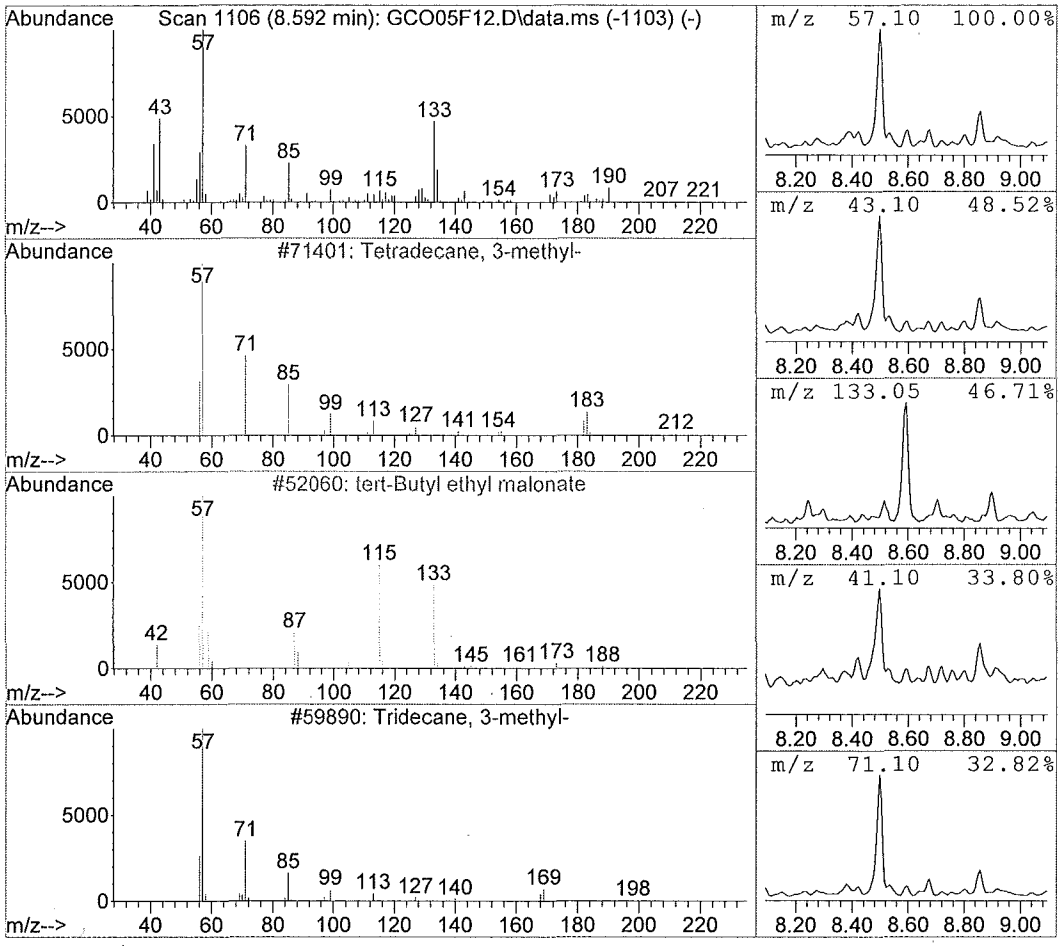
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.59	3.29 ug/ml	958782	Acenaphthene-d10	5831364

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecane, 3-methyl- BA	71401	018435-22-8	49.00
2	tert-Butyl ethyl malonate	52060	093117-74-9	43.00
3	Tridecane, 3-methyl-	59890	006418-41-3	43.00
4	Dodecane, 3-methyl-	48848	017312-57-1	43.00
5	3-Hexanone, 2,4-dimethyl-	12595	018641-70-8	35.00



Library Search Compound Report

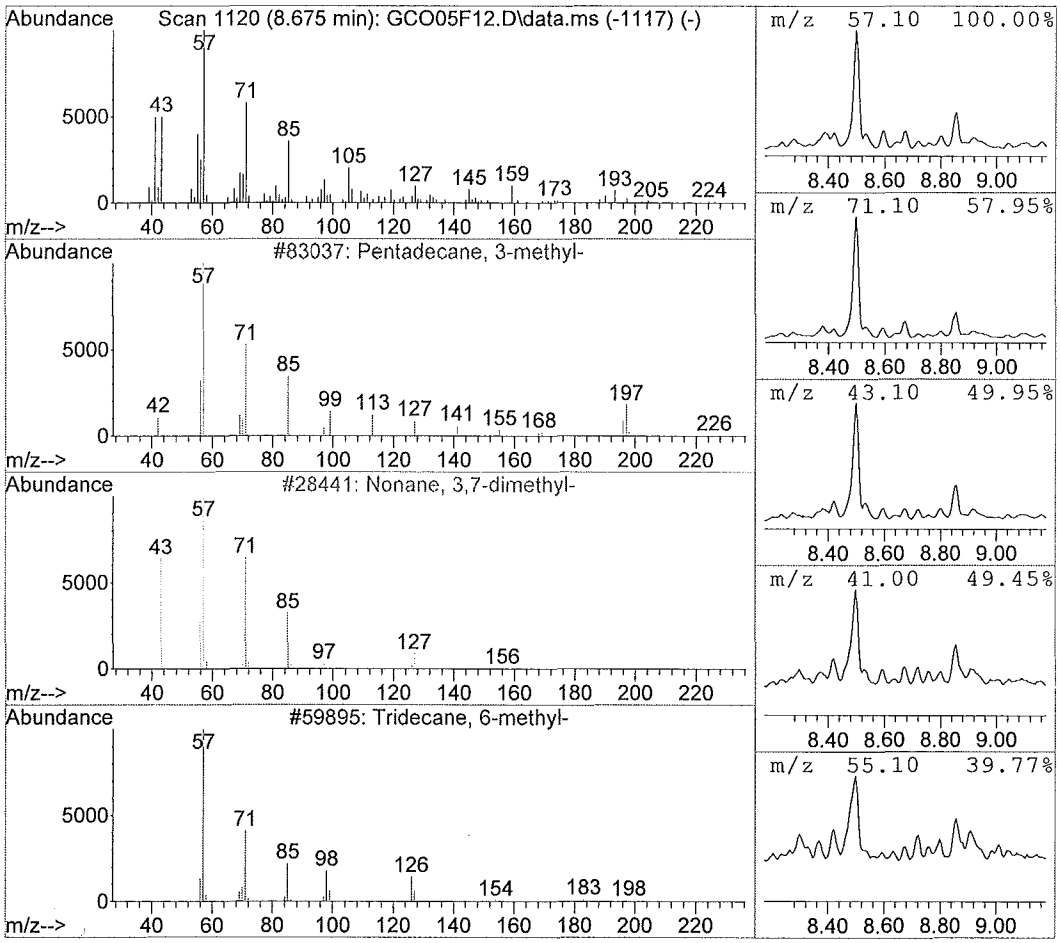
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.67	3.62 ug/ml	1055464	Acenaphthene-d10	5831364

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane, 3-methyl-	83037	002882-96-4	58.00
2	Nonane, 3,7-dimethyl-	28441	017302-32-8	53.00
3	Tridecane, 6-methyl-	59895	013287-21-3	52.00
4	Dodecane, 2,6,10-trimethyl-	71410	003891-98-3	50.00
5	Hexacosane	194493	000630-01-3	50.00

58



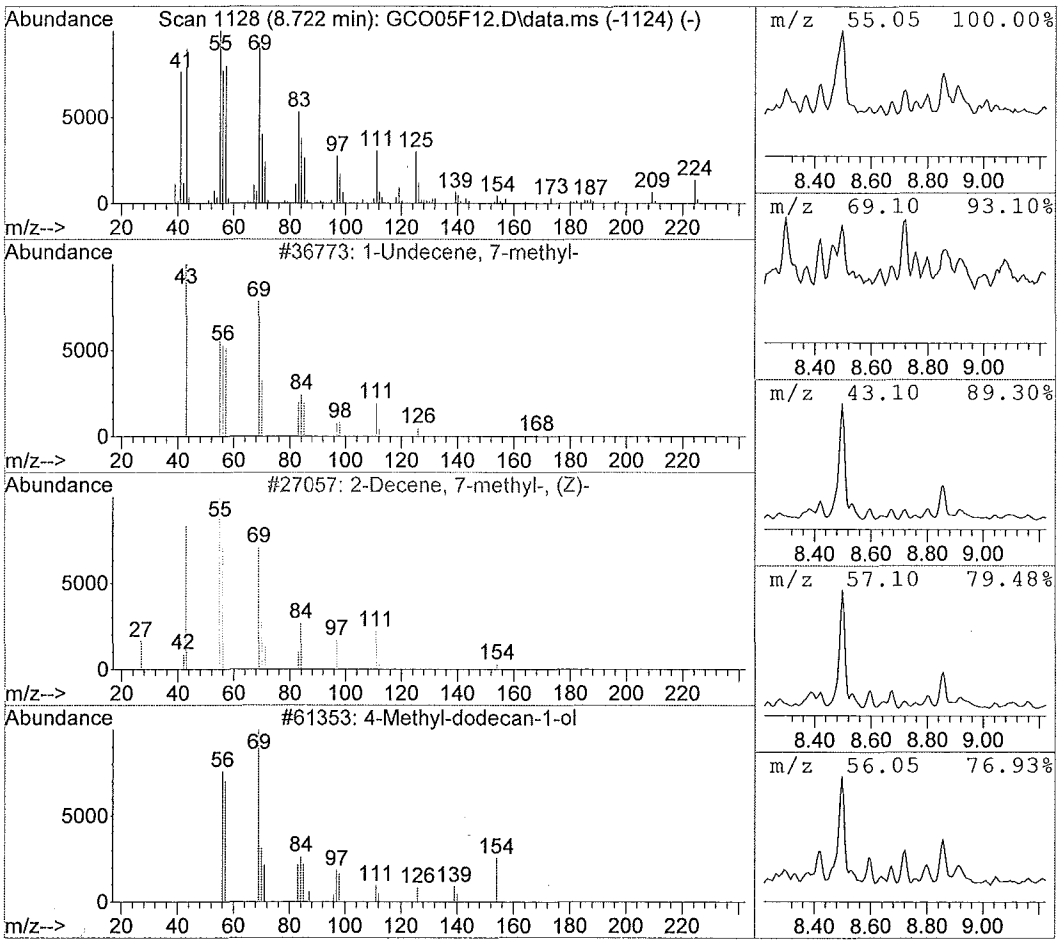
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.72	3.64 ug/ml	1061394	Acenaphthene-d10	5831364

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Undecene, 7-methyl-	36773	074630-42-5	81.00
2	2-Decene, 7-methyl-, (Z)-	27057	074630-23-2	76.00
3	4-Methyl-dodecan-1-ol	61353	1000192-41-3	59.00
4	Cyclopropane, 1,2-dimethyl-1-pentyl	18055	062238-04-4	52.00
5	3-Hexadecene, (Z)-	81248	034303-81-6	52.00



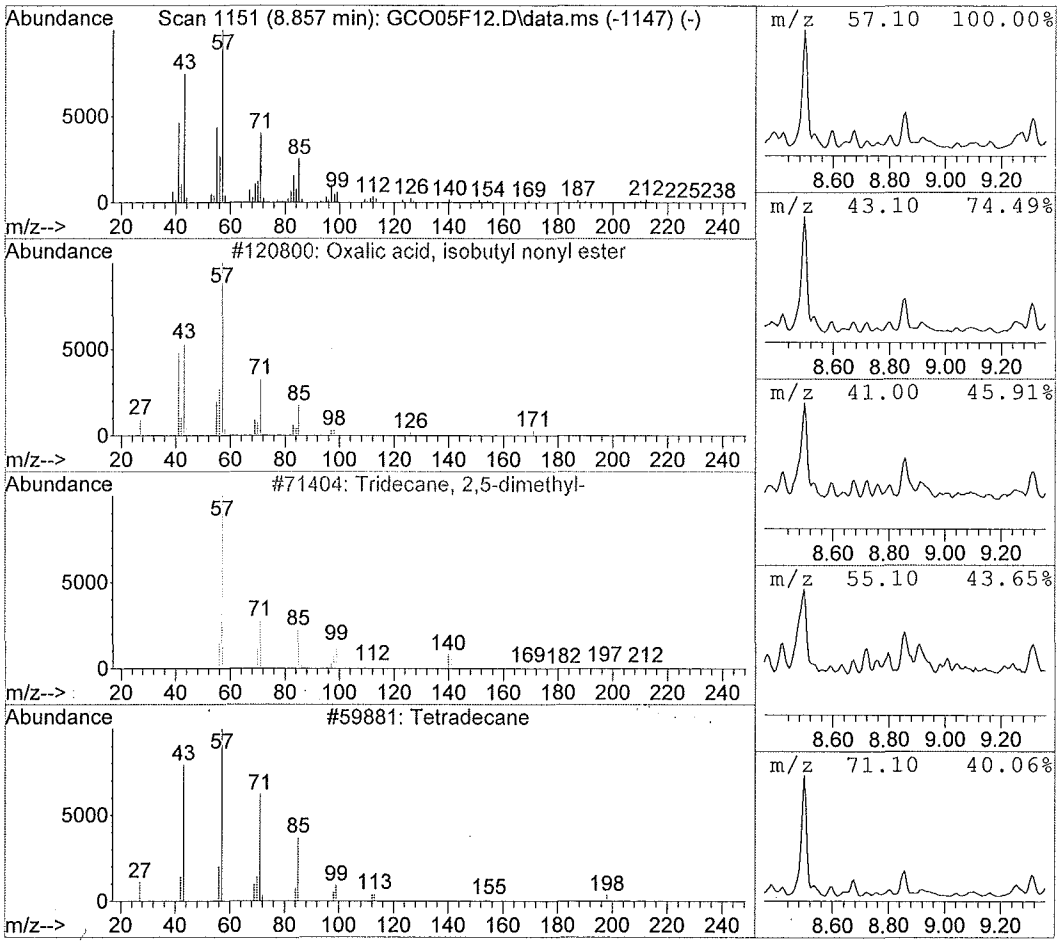
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.86	8.96 ug/ml	2611816	Acenaphthene-d10	5831364

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Oxalic acid, isobutyl nonyl ester	120800	1000309-37-4	80.00
2	Tridecane, 2,5-dimethyl-	71404	056292-66-1	62.00
3	Tetradecane	59881	000629-59-4	59.00
4	Tridecane	48834	000629-50-5	59.00
5	Dodecane, 2,6,11-trimethyl-	71406	031295-56-4	52.00



Library Search Compound Report

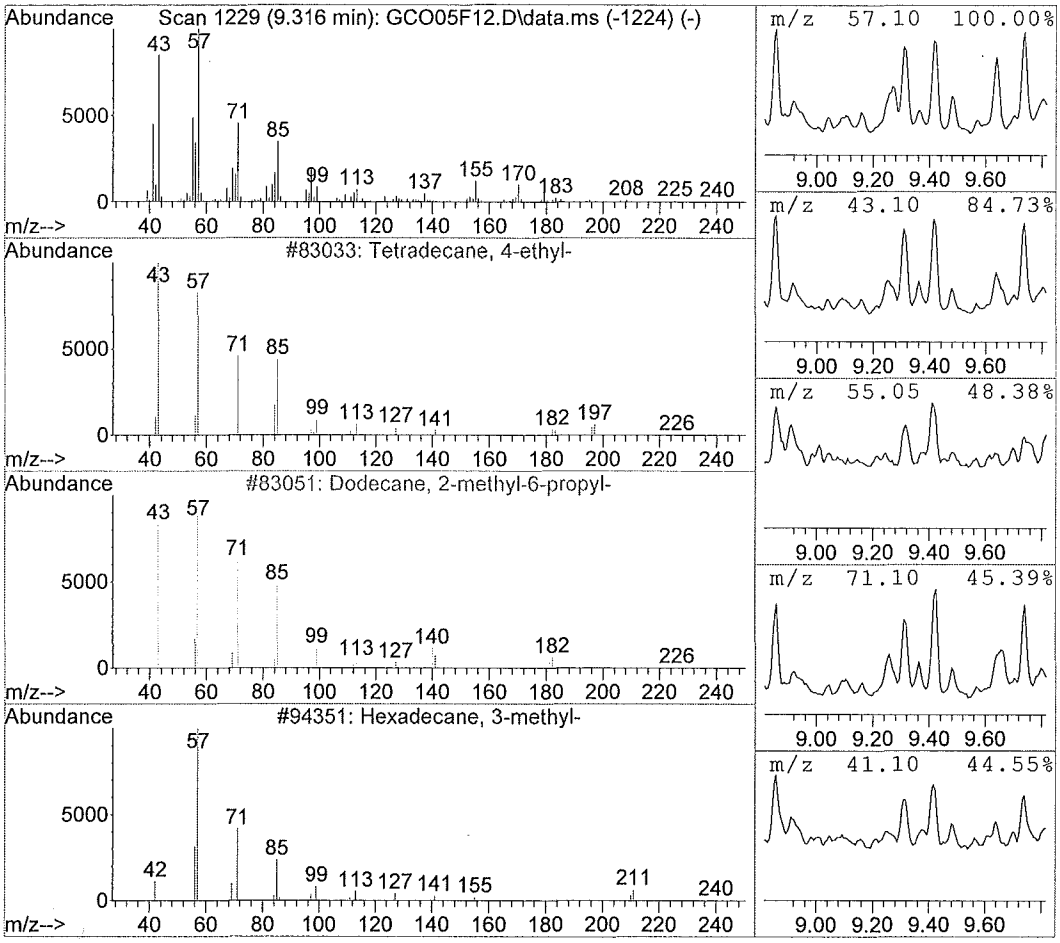
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.32	9.68 ug/ml	2822323	Acenaphthene-d10	5831364

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecane, 4-ethyl-	83033	055045-14-2	55.00
2	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	53.00
3	Hexadecane, 3-methyl-	94351	006418-43-5	49.00
4	Octane, 3,4,5,6-tetramethyl-	38355	062185-21-1	49.00
5	Pentadecane	71394	000629-62-9	49.00

βA



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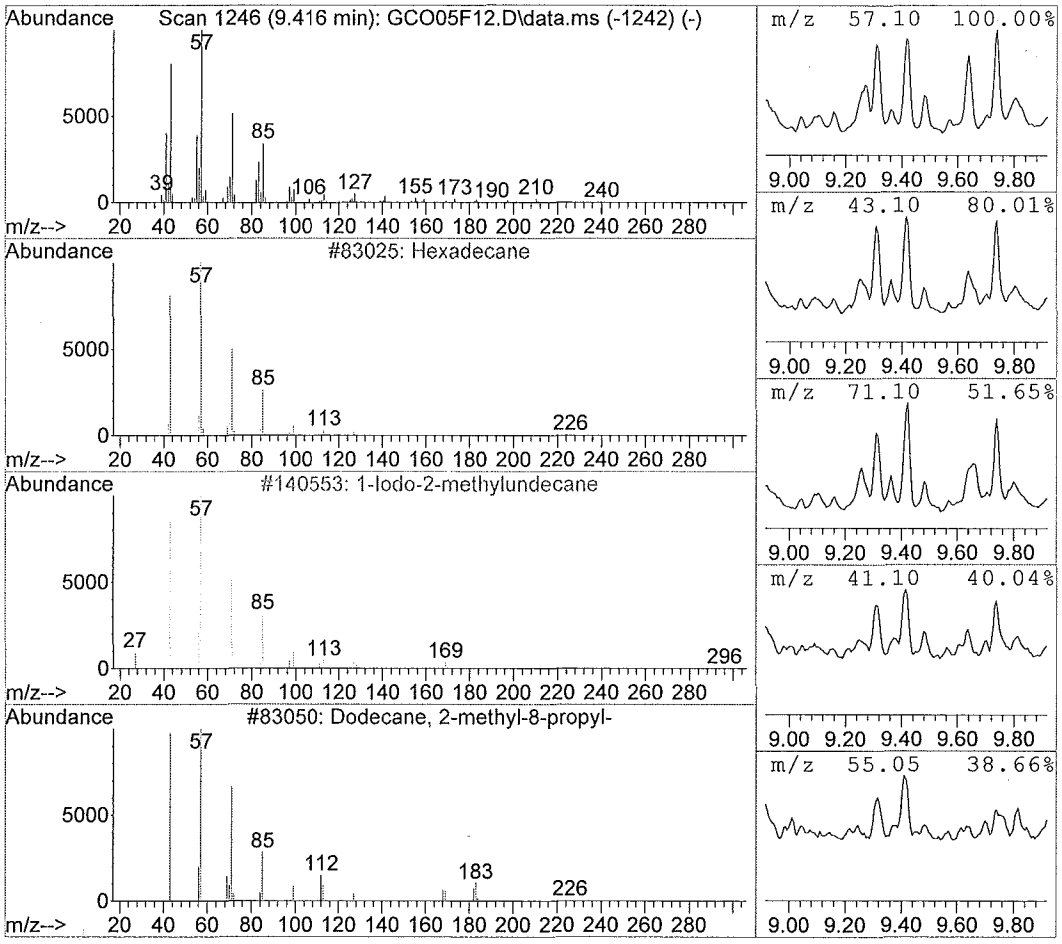
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.42	9.30 ug/ml	2711285	Acenaphthene-d10	5831364

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane SA	83025	000544-76-3	92.00
2	1-Iodo-2-methylundecane	140553	073105-67-6	72.00
3	Dodecane, 2-methyl-8-propyl-	83050	055045-07-3	64.00
4	Decane, 2-methyl-	28427	006975-98-0	62.00
5	Nonane, 4,5-dimethyl-	28438	017302-23-7	58.00



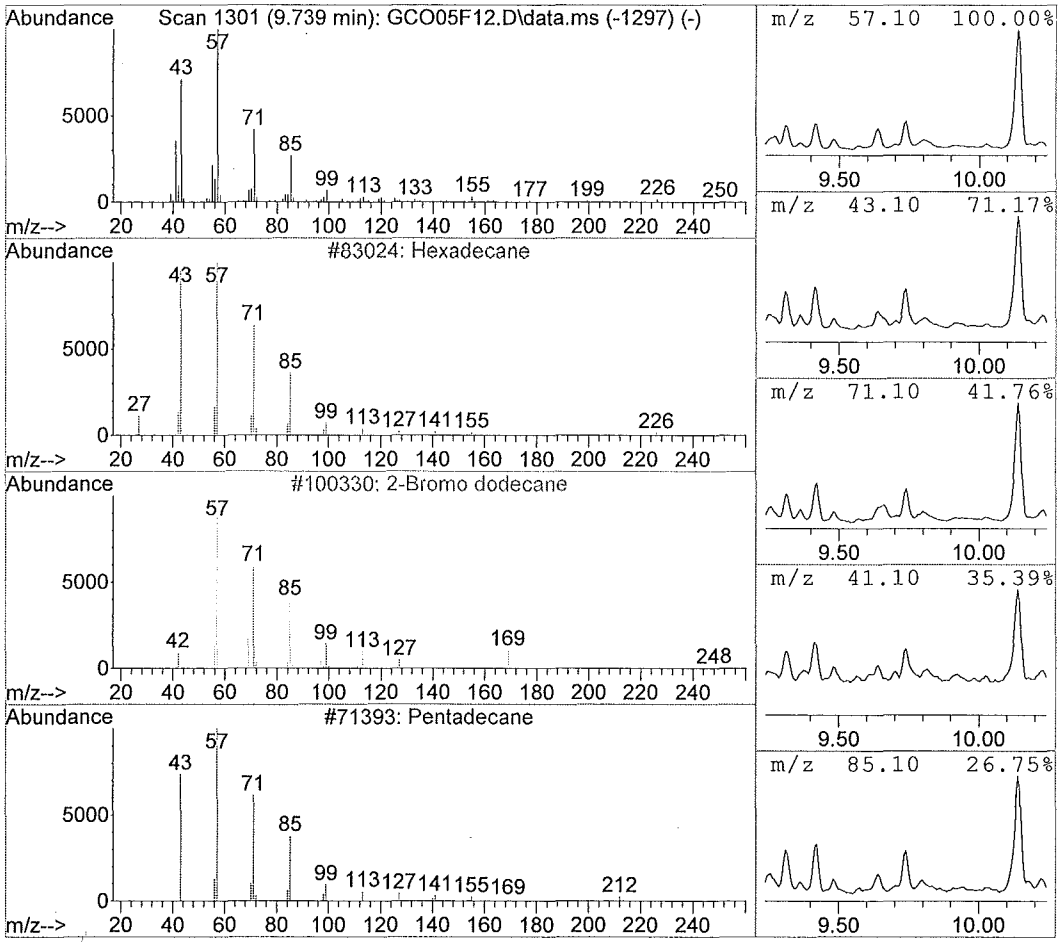
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.74	7.37 ug/ml	2149981	Acenaphthene-d10	5831364

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane 5A	83024	000544-76-3	94.00
2	2-Bromo dodecane	100330	013187-99-0	90.00
3	Pentadecane	71393	000629-62-9	87.00
4	Decane, 6-ethyl-2-methyl-	48909	062108-21-8	86.00
5	Tetradecane	59880	000629-59-4	86.00



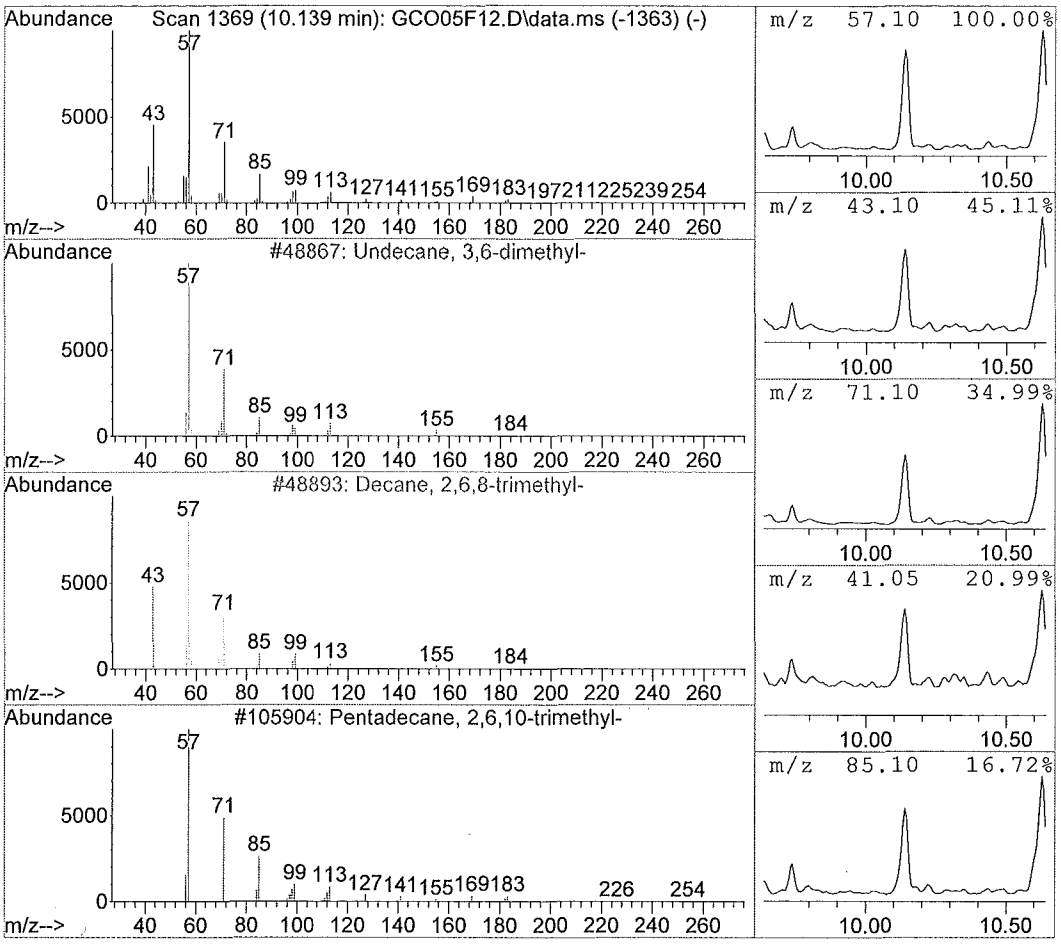
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.14	30.55 ug/ml	8906935	Acenaphthene-d10	5831364

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 3,6-dimethyl- BA	48867	017301-28-9	91.00
2	Decane, 2,6,8-trimethyl-	48893	062108-26-3	87.00
3	Pentadecane, 2,6,10-trimethyl-	105904	003892-00-0	80.00
4	Z-2-Tridecen-1-ol	59791	1000130-75-8	74.00
5	Undecane, 2,5-dimethyl-	48872	017301-22-3	74.00



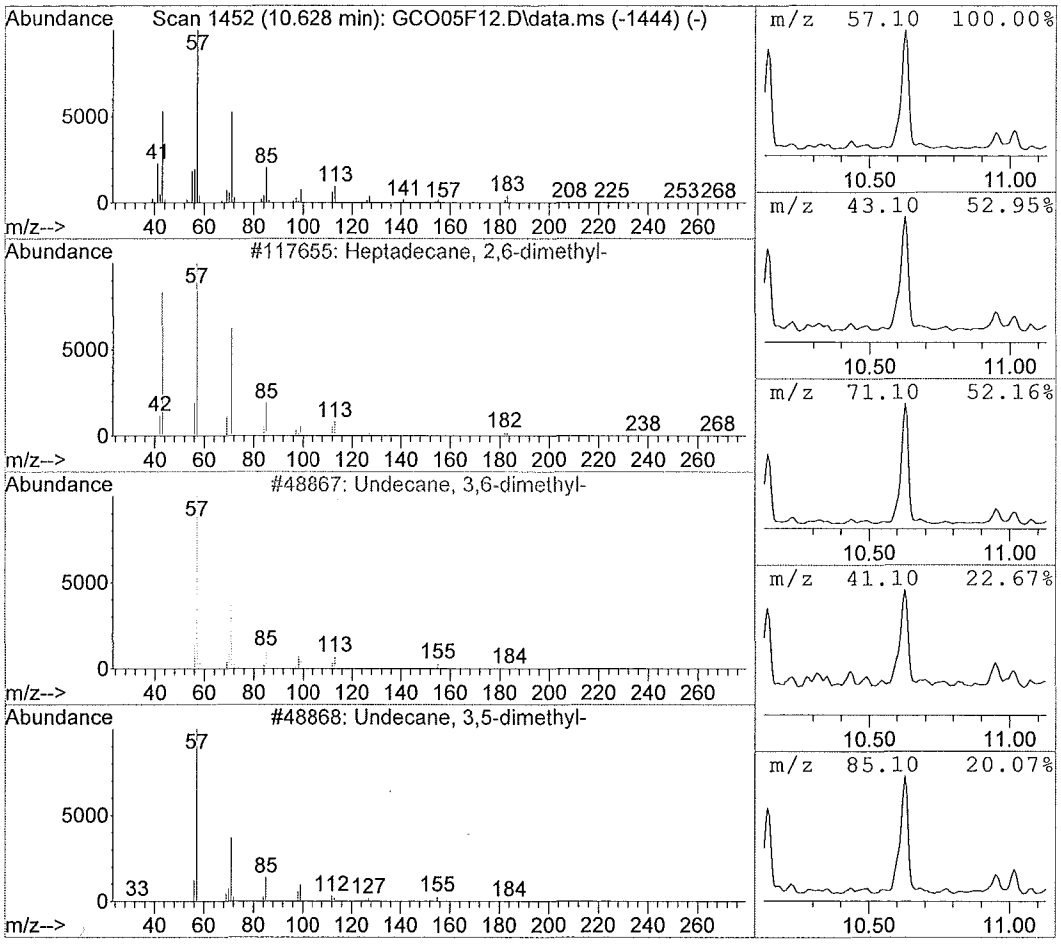
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.63	91.41 ug/ml	12710196	Phenanthrene-d10	2780800

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane, 2,6-dimethyl-	117655	054105-67-8	91.00
2	Undecane, 3,6-dimethyl- BA	48867	017301-28-9	87.00
3	Undecane, 3,5-dimethyl-	48868	017312-81-1	72.00
4	Nonane, 3,7-dimethyl-	28441	017302-32-8	64.00
5	Undecane, 6-ethyl-	48842	017312-60-6	62.00



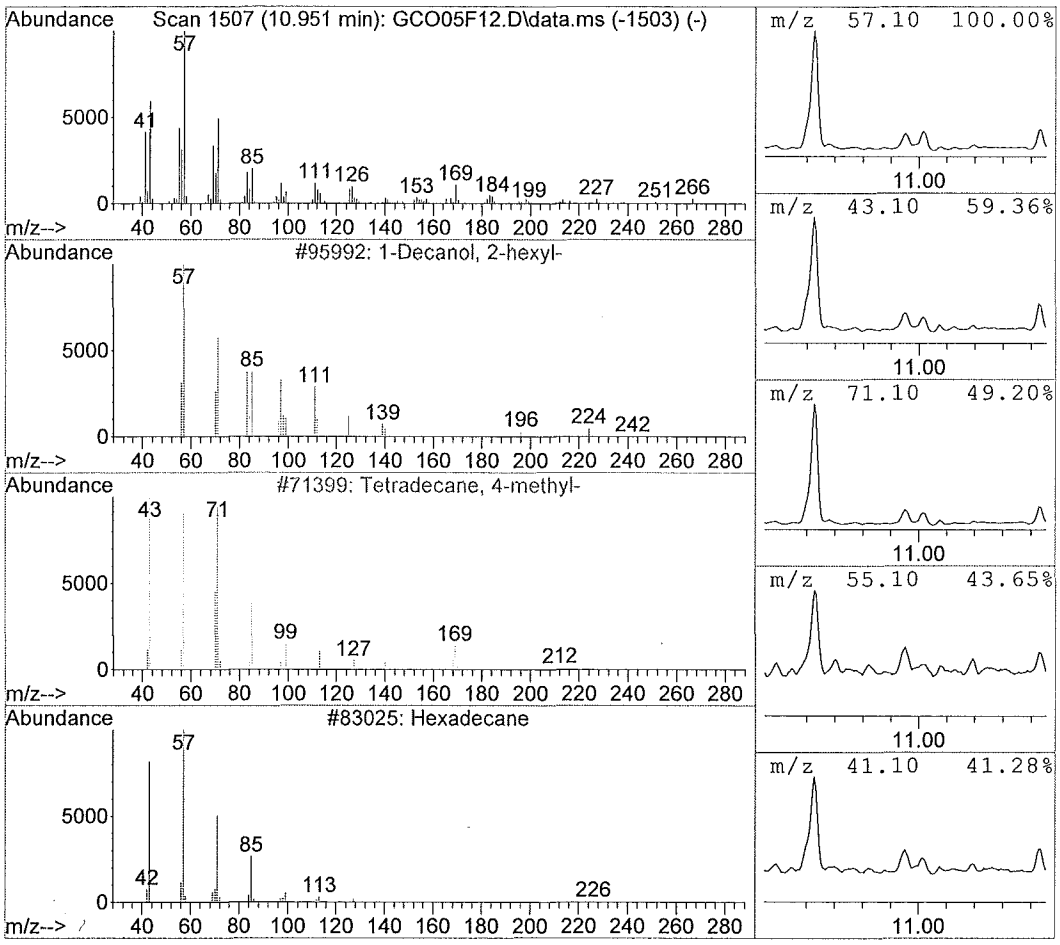
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.95	13.43 ug/ml	1867950	Phenanthrene-d10	2780800

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Decanol, 2-hexyl-	95992	002425-77-6	90.00
2	Tetradecane, 4-methyl-	71399	025117-24-2	55.00
3	Hexadecane	83025	000544-76-3	53.00
4	Dodecane, 2,6,10-trimethyl-	71409	003891-98-3	52.00
5	Nonane, 3-methyl-	19171	005911-04-6	49.00



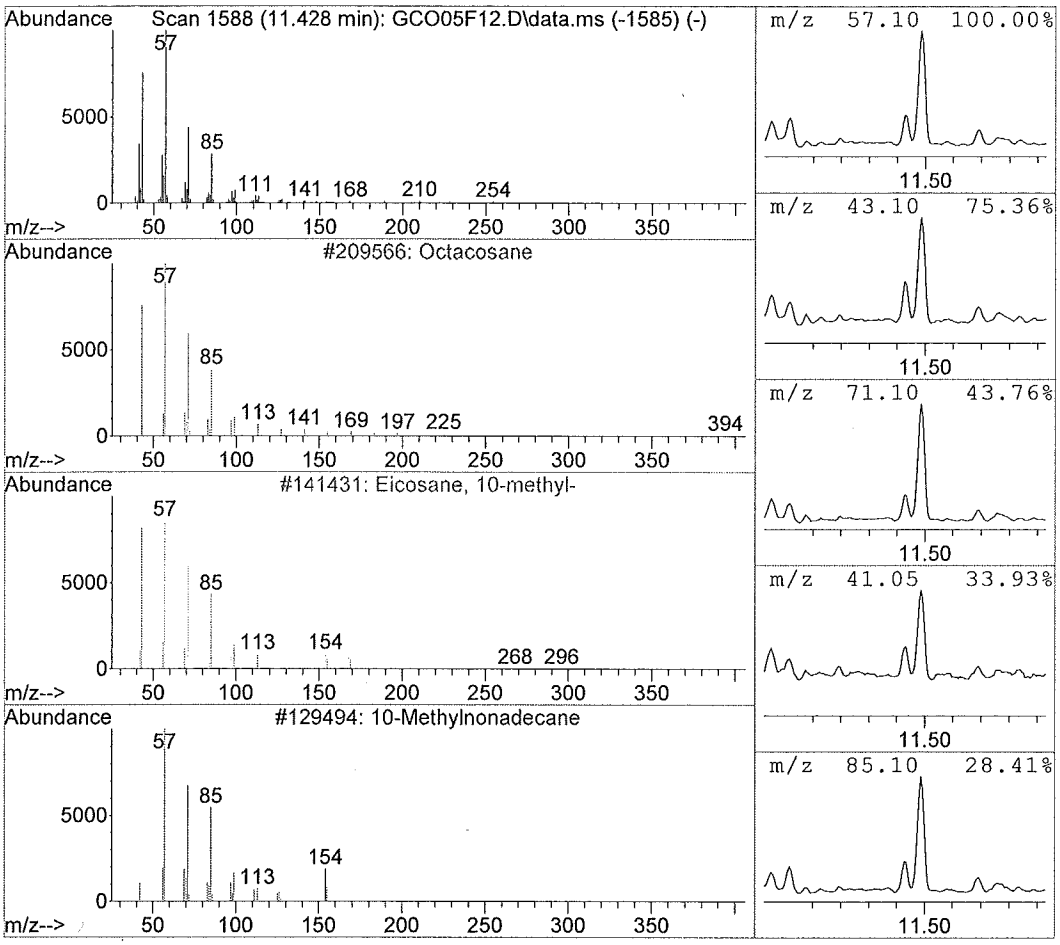
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.43	11.21 ug/ml	1558557	Phenanthrene-d10	2780800

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1 Octacosane	SA	209566	000630-02-4	90.00
2 Eicosane, 10-methyl-		141431	054833-23-7	90.00
3 10-Methylnonadecane		129494	056862-62-5	86.00
4 Eicosane		129492	000112-95-8	86.00
5 Heneicosane		141425	000629-94-7	86.00



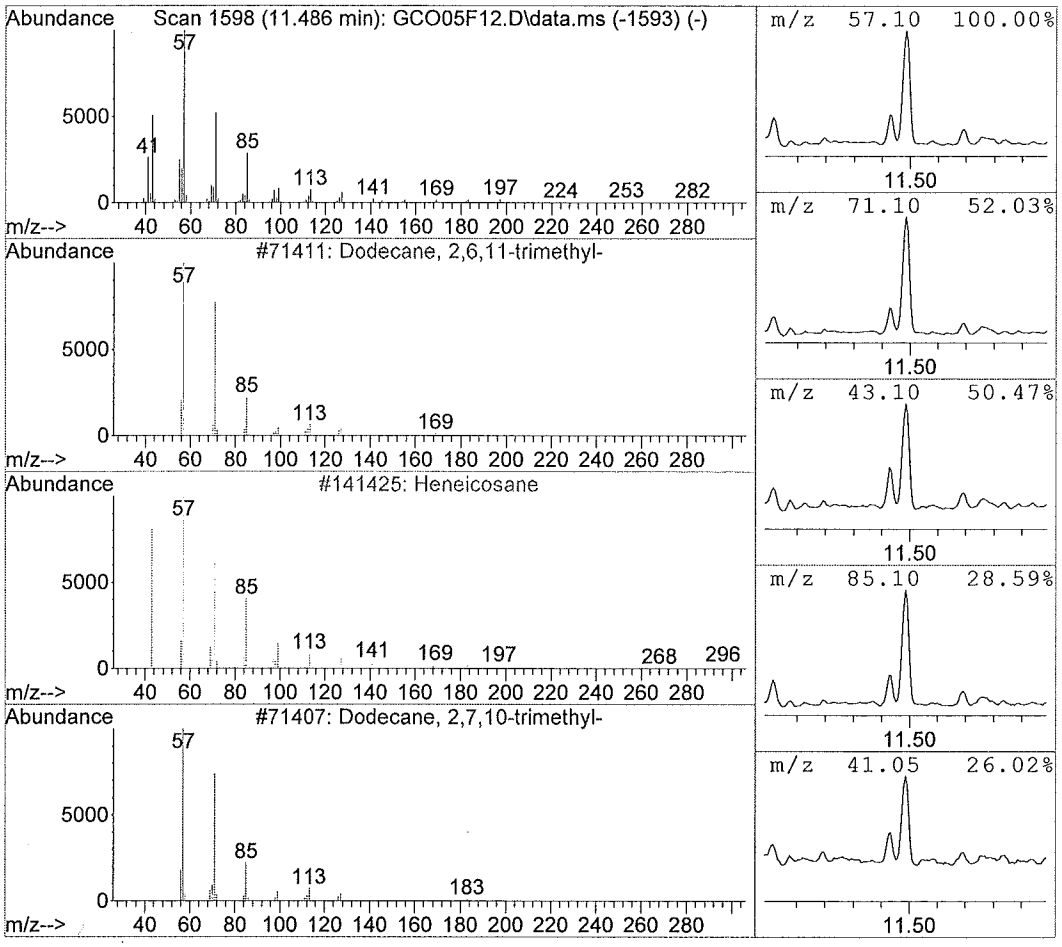
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.49	55.14 ug/ml	7667139	Phenanthrene-d10	2780800

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2,6,11-trimethyl-	71411	031295-56-4	80.00
2	Heneicosane	141425	000629-94-7	74.00
3	Dodecane, 2,7,10-trimethyl-	71407	074645-98-0	72.00
4	Tridecane, 5-propyl-	83031	055045-11-9	72.00
5	Nonane, 3,7-dimethyl-	28441	017302-32-8	64.00



Library Search Compound Report

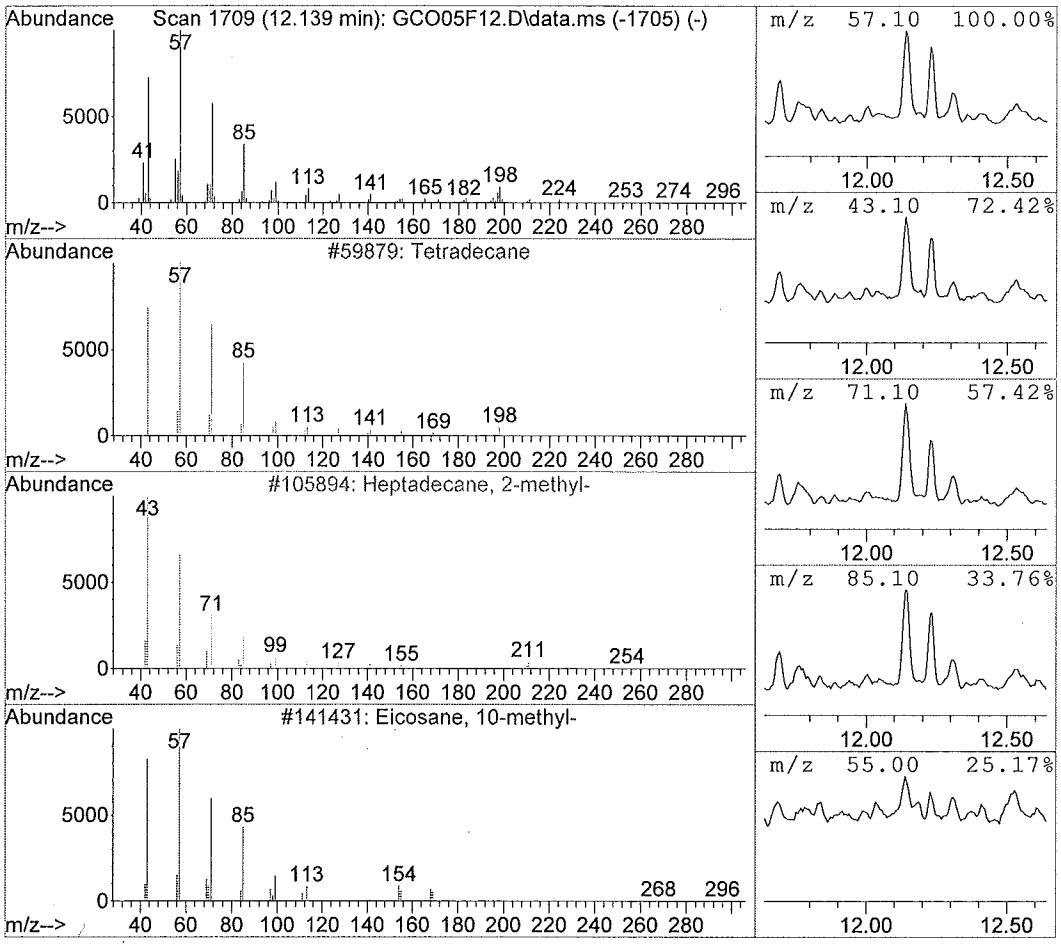
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.14	15.70 ug/ml	2182836	Phenanthrene-d10	2780800

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecane	59879	000629-59-4	93.00
2	Heptadecane, 2-methyl-	105894	001560-89-0	90.00
3	Eicosane, 10-methyl-	141431	054833-23-7	89.00
4	Octacosane	209566	000630-02-4	87.00
5	Tetracosane	175557	000646-31-1	83.00

SA



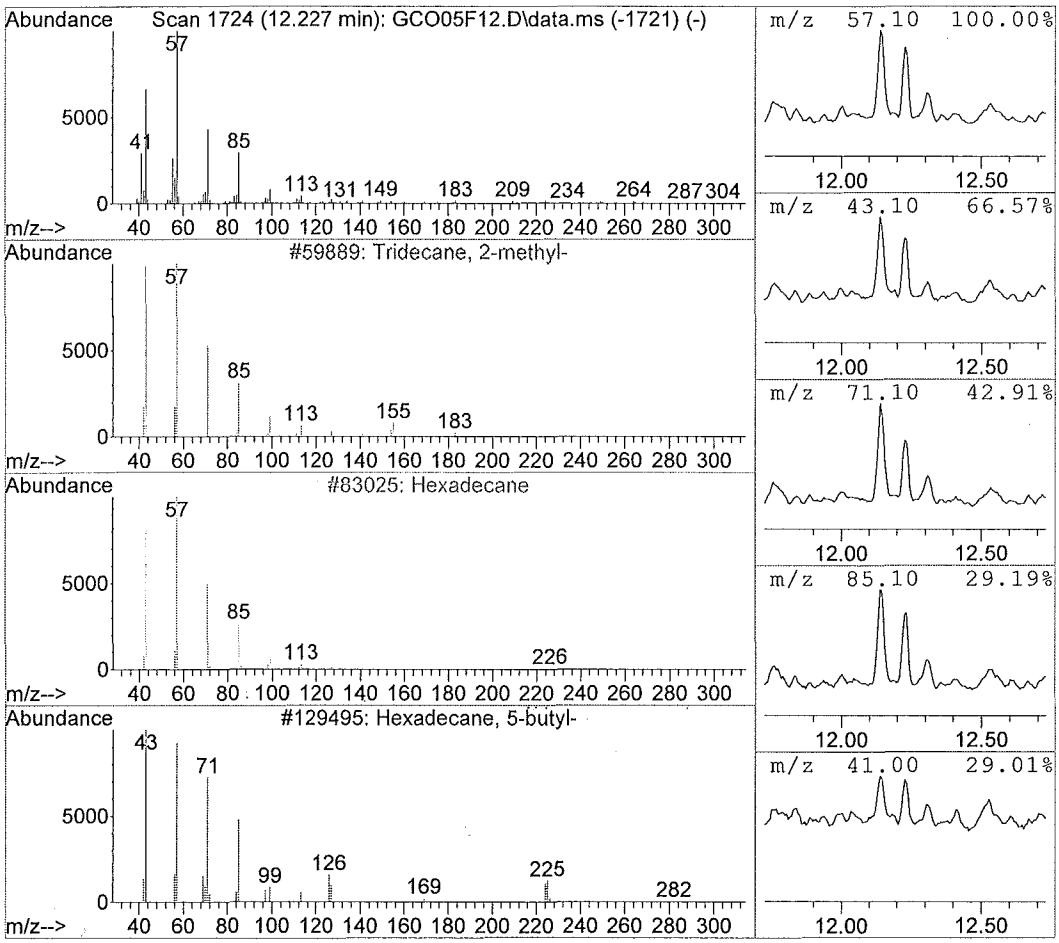
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.23	11.83 ug/ml	1644760	Phenanthrene-d10	2780800

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 2-methyl-	59889	001560-96-9	87.00
2	Hexadecane	83025	000544-76-3	87.00
3	Hexadecane, 5-butyl-	129495	006912-07-8	87.00
4	Sulfurous acid, 2-propyl tetradecyl	161094	1000309-12-5	80.00
5	Tridecane, 6-methyl-	59895	013287-21-3	80.00



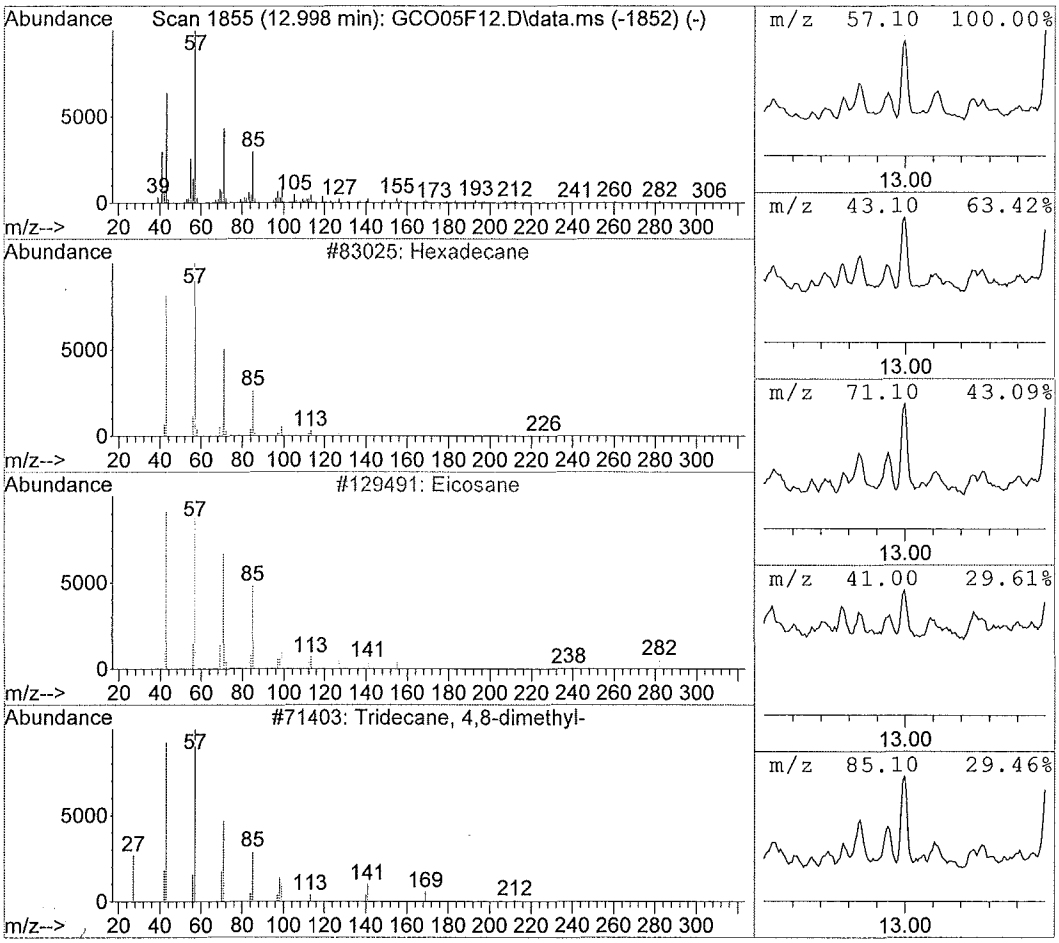
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.00	10.55 ug/ml	1466708	Phenanthrene-d10	2780800

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane SA	83025	000544-76-3	96.00
2	Eicosane	129491	000112-95-8	95.00
3	Tridecane, 4,8-dimethyl-	71403	055030-62-1	91.00
4	3,5-Dimethyldodecane	59888	107770-99-0	83.00
5	Octacosane	209566	000630-02-4	80.00



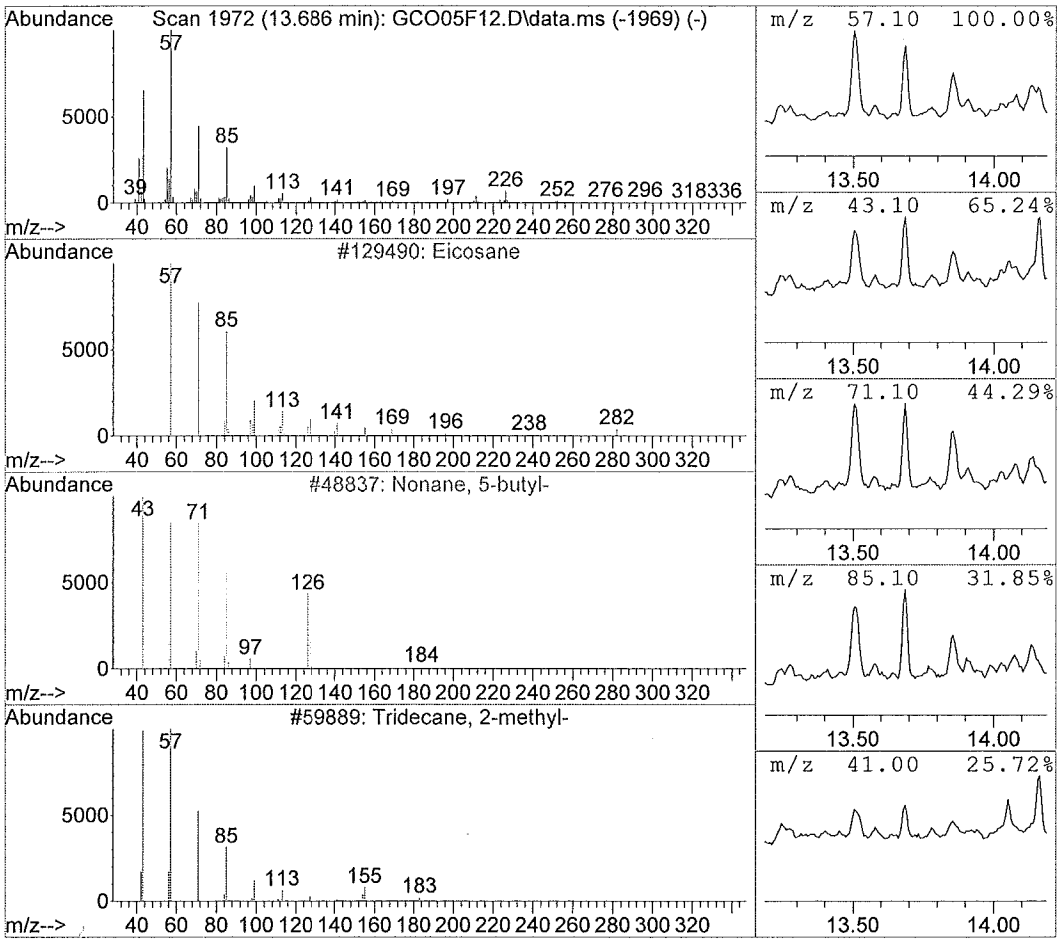
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.69	4.80 ug/ml	1115596	Chrysene-d12	4650782

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane SA	129490	000112-95-8	95.00
2	Nonane, 5-butyl-	48837	017312-63-9	90.00
3	Tridecane, 2-methyl-	59889	001560-96-9	83.00
4	Tridecane, 4,8-dimethyl-	71403	055030-62-1	83.00
5	Hexadecane	83023	000544-76-3	80.00



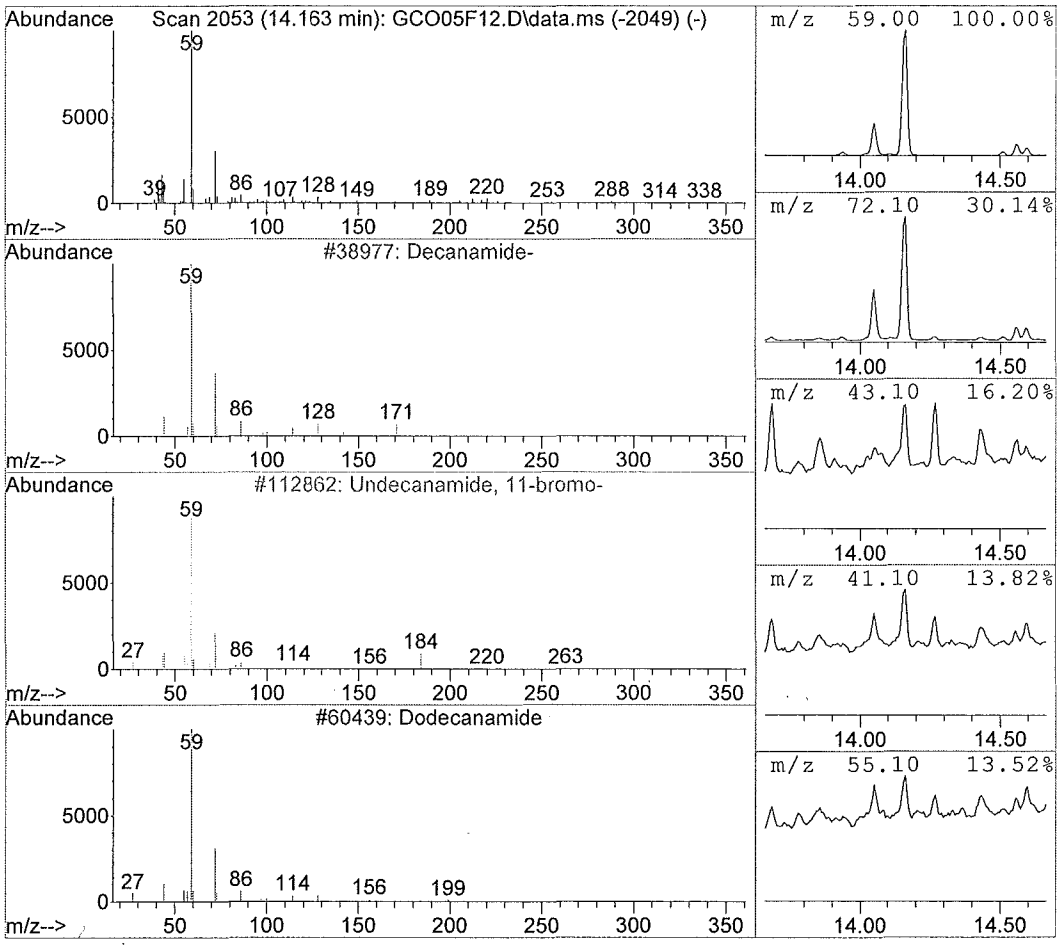
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.16	13.32 ug/ml	3096901	Chrysene-d12	4650782

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decanamide-	38977	002319-29-1	91.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	90.00
3	Dodecanamide	60439	001120-16-7	83.00
4	Nonanamide	29478	001120-07-6	83.00
5	Hexadecanamide	106565	000629-54-9	72.00



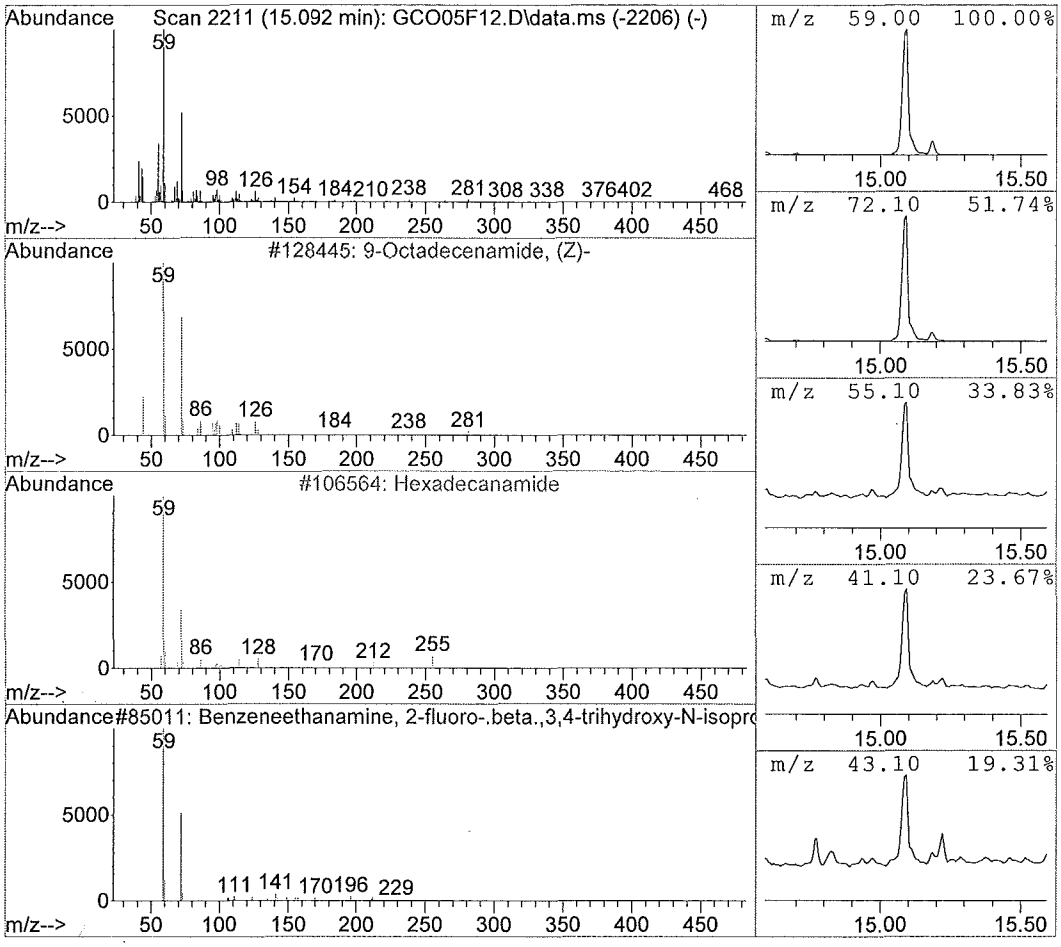
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO05F12.D Vial: 5
Acq On : 07/08/2015 10:23 Operator: TJM
Sample : 1515375012 F9M07 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.09	61.06 ug/ml	14197798	Chrysene-d12	4650782

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Hexadecanamide	106564	000629-54-9	80.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
4	Dodecanamide	60439	001120-16-7	59.00
5	Tetradecanamide	83609	000638-58-4	56.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M08

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375013

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GC006F13

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	760	U
108-95-2	Phenol	760	U
111-44-4	Bis(2-chloroethyl)ether	760	U
95-57-8	2-Chlorophenol	760	U
95-48-7	2-Methylphenol	760	U
108-60-1	2,2'-Oxybis(1-chloropropane)	760	U
98-86-2	Acetophenone	81.	J
106-44-5	4-Methylphenol	760	U
621-64-7	N-Nitroso-di-n-propylamine	760	U
67-72-1	Hexachloroethane	760	U
98-95-3	Nitrobenzene	760	U
78-59-1	Isophorone	760	U
88-75-5	2-Nitrophenol	760	U
105-67-9	2,4-Dimethylphenol	760	U
111-91-1	Bis(2-chloroethoxy)methane	760	U
120-83-2	2,4-Dichlorophenol	760	U
91-20-3	Naphthalene	100	J
106-47-8	4-Chloroaniline	760	U
87-68-3	Hexachlorobutadiene	760	U
105-60-2	Caprolactam	760	U
59-50-7	4-Chloro-3-methylphenol	760	U
91-57-6	2-Methylnaphthalene	210	J
77-47-4	Hexachlorocyclopentadiene	760	U
88-06-2	2,4,6-Trichlorophenol	760	U
95-95-4	2,4,5-Trichlorophenol	760	U
92-52-4	1,1'-Biphenyl	760	U
91-58-7	2-Chloronaphthalene	760	U
88-74-4	2-Nitroaniline	1500	U
131-11-3	Dimethylphthalate	760	U
606-20-2	2,6-Dinitrotoluene	760	U
208-96-8	Acenaphthylene	760	U
99-09-2	3-Nitroaniline	1500	U
83-32-9	Acenaphthene	760	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

F9M08

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375013

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GC006F13

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	1500	U
100-02-7	4-Nitrophenol	1500	U
132-64-9	Dibenzofuran	760	U
121-14-2	2,4-Dinitrotoluene	760	U
84-66-2	Diethylphthalate	760	U
86-73-7	Fluorene	760	U
7005-72-3	4-Chlorophenyl-phenylether	760	U
100-01-6	4-Nitroaniline	1500	U
534-52-1	4,6-Dinitro-2-methylphenol	1500	U
86-30-6	N-Nitrosodiphenylamine[1]	760	U
95-94-3	1,2,4,5-Tetrachlorobenzene	760	U
101-55-3	4-Bromophenyl-phenylether	760	U
118-74-1	Hexachlorobenzene	760	U
1912-24-9	Atrazine	760	U
87-86-5	Pentachlorophenol	1500	U
85-01-8	Phenanthrene	83.	J
120-12-7	Anthracene	760	U
86-74-8	Carbazole	760	U
84-74-2	Di-n-butylphthalate	760	U
206-44-0	Fluoranthene	760	U
129-00-0	Pyrene	84.	J
85-68-7	Butylbenzylphthalate	760	U
91-94-1	3,3'-Dichlorobenzidine	760	U
56-55-3	Benzo(a)anthracene	760	U
218-01-9	Chrysene	73.	J
117-81-7	Bis(2-ethylhexyl)phthalate	760	U
117-84-0	Di-n-octylphthalate	760	U
205-99-2	Benzo(b)fluoranthene	760	U
207-08-9	Benzo(k)fluoranthene	760	U
50-32-8	Benzo(a)pyrene	760	U
193-39-5	Indeno(1,2,3-cd)pyrene	760	U
53-70-3	Dibenzo(a,h)anthracene	760	U
191-24-2	Benzo(g,h,i)perylene	760	U
58-90-2	2,3,4,6-Tetrachlorophenol	760	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: F9M08

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375013

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GC006F13

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 4.0

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-	3.49	3400	JB
02		Unknown 1H-Pyrrole-2,5-dione	4.27	1400	J
03		Unknown 3-Hexene, 3-ethyl-2,5-dimethyl-	4.63	360	J
04		Unknown Octatriacontyl pentafluoropropionate	4.95	570	J
05		Unknown Oxalic acid, 2-ethylhexyl ethyl ester	5.13	570	J
06	91-17-8	Naphthalene, decahydro-	5.26	510	JN
07		Unknown p-Cymene	5.39	1200	J
08		Unknown Pentafluoropropionic acid, undecyl ester	5.50	670	J
09	2958-75-0	1-Methyldecahydronaphthalene	5.70	600	JN
10		Unknown 1-Methyldecahydronaphthalene	5.83	430	J
11	527-84-4	o-Cymene	5.94	930	JN
12		Unknown Sulfurous acid, butyl decyl ester	6.10	410	J
13		Unknown Silane, trichlorooctadecyl-	6.23	830	J
14		Unknown Benzene, pentamethyl-	6.37	460	J
15		Unknown Benzene, 1,3-dimethyl-5-(1-methylethyl)-	6.46	360	J
16		Unknown 5-Octen-2-yn-4-ol	6.95	570	J
17		Unknown 6-Tridecene, 7-methyl-	7.00	1200	J
18		Unknown 1-Iodo-2-methylundecane	7.08	960	J
19		Unknown Oxalic acid, butyl 2-ethylhexyl ester	7.17	430	J
20		Unknown Cyclooctanemethanol	7.30	490	J
21	74630-40-3	1-Undecene, 8-methyl-	7.95	930	JN
22	581-42-0	Naphthalene, 2,6-dimethyl-	8.37	380	JN
23		Unknown Sulfurous acid, butyl nonyl ester	8.67	420	J
24		Unknown 2-Decene, 7-methyl-, (Z)-	8.72	350	J
25	765-14-0	Vinyl lauryl ether	8.85	440	JN
26	73105-67-6	1-Iodo-2-methylundecane	9.42	880	JN
27		Unknown 10-Methyl-octadec-1-ene	10.95	1100	J
28	66563-30-2	Bacchotricuneatin c	12.13	1300	JN
29	301-02-0	9-Octadecenamide, (Z)-	15.07	2000	JNB
30	301-02-0	9-Octadecenamide, (Z)-	16.98	780	JN
	E966796[2]	Total Alkanes	N/A	43000	J

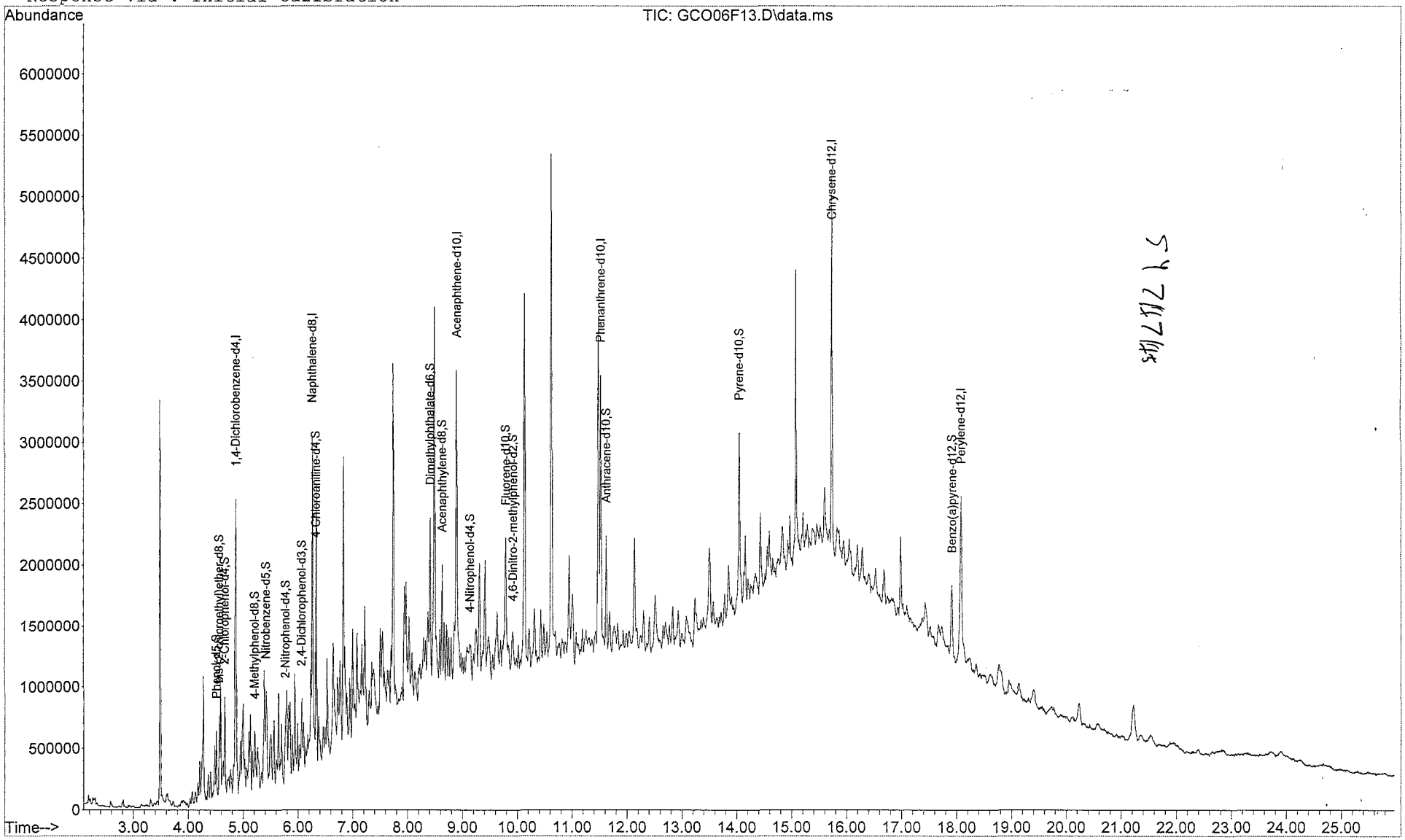
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 07:30:23 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 07:30:23 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	323500	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1195883	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	715969	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1237794	20.00 ug/ml
73) Chrysene-d12	15.73	240	1253630	20.00 ug/ml
81) Perylene-d12	18.08	264	937274	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	176981	6.287ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	146581	6.681ug/mL
7) 2-Chlorophenol-d4	4.66	132	152826	6.430ug/ml
13) 4-Methylphenol-d8	5.20	113	81129	4.309ug/mL
17) Nitrobenzene-d5	5.42	128	73776	7.023ug/ml
21) 2-Nitrophenol-d4	5.77	143	70861	6.381ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	128304	7.420ug/mL
28) 4-Chloroaniline-d4	6.32	131	46217	2.449ug/mL
42) Dimethylphthalate-d6	8.41	166	393340	8.761ug/mL
45) Acenaphthylene-d8	8.63	160	474574	7.778ug/mL
50) 4-Nitrophenol-d4	9.13	143	72184	7.881ug/mL
57) Fluorene-d10	9.79	176	341081	8.896ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	14534	1.654ug/mL
69) Anthracene-d10	11.62	188	551100	8.396ug/mL
75) Pyrene-d10	14.04	212	549267	8.780ug/mL
86) Benzo(a)pyrene-d12	17.92	264	380570	8.474ug/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	5.24	105	16784	0.542ug/ml	81
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	6.29	128	41068	0.679ug/ml	88
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	7.24	142	52594	1.375ug/ml	90
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 : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 07:30:23 2015 Results File: GSOM01D6.RES

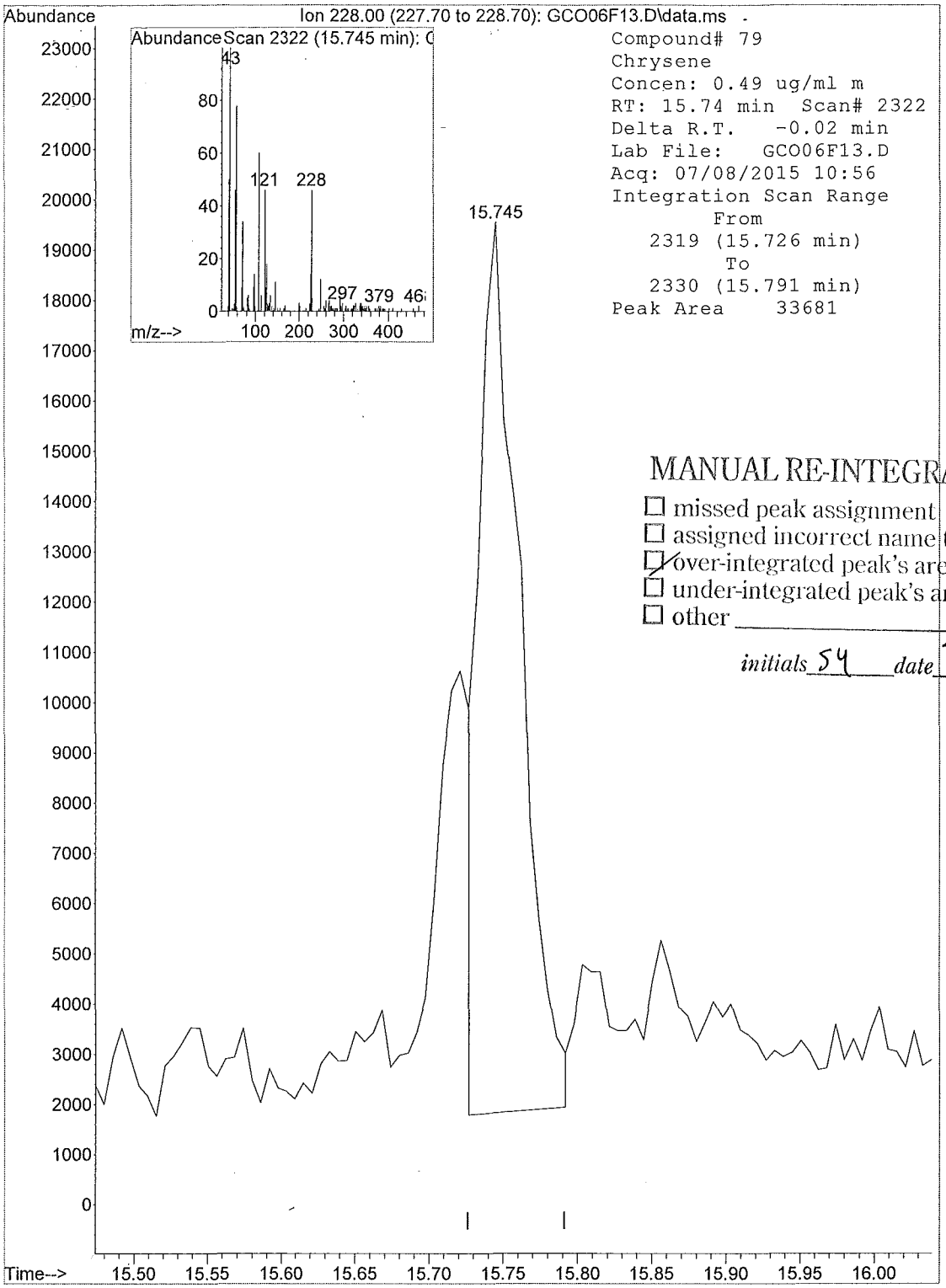
Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

	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	11.56	178	36630	0.555ug/ml	99
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	14.07	202	44671	0.560ug/ml	83
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	15.74	228	33681	0.490ug/ml m	52
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	

7/17/15

(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 Chrysene

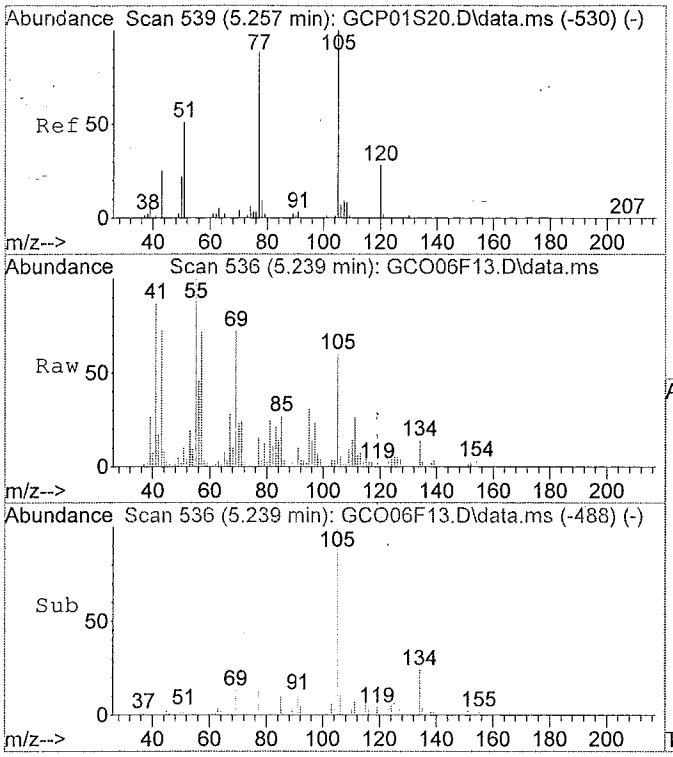


Compound# 79
Chrysene
Concen: 0.49 ug/ml m
RT: 15.74 min Scan# 2322
Delta R.T. -0.02 min
Lab File: GCO06F13.D
Acq: 07/08/2015 10:56
Integration Scan Range
From
2319 (15.726 min)
To
2330 (15.791 min)
Peak Area 33681

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

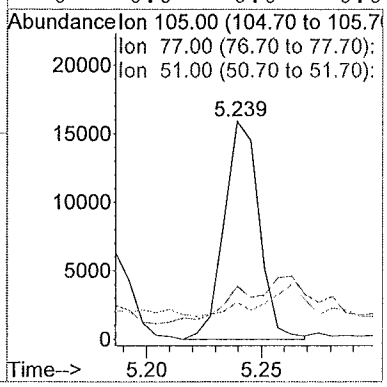
initials SY *date* 7/17/15

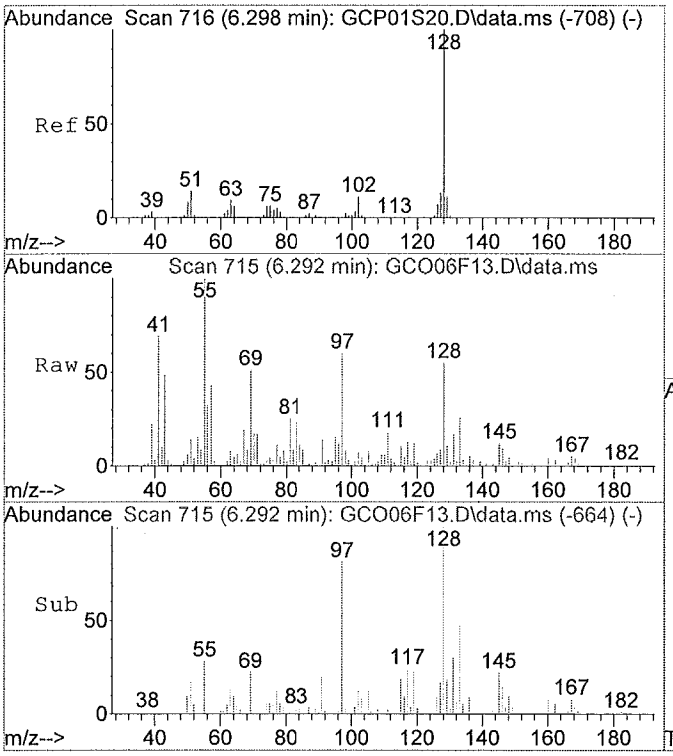


#11
Acetophenone
Concen: 0.54 ug/ml
RT: 5.24 min Scan# 536
Delta R.T. -0.02 min
Lab File: GCO06F13.D
Acq: 07/08/2015 10:56

Tgt Ion:105 Resp: 16784

Ion	Ratio	Lower	Upper
105	100		
77	52.6	51.1	94.9
51	31.6	19.7	36.7
0	0.0	0.0	0.0

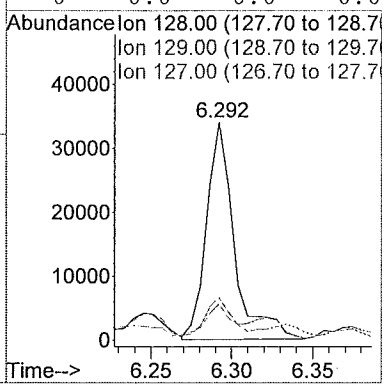


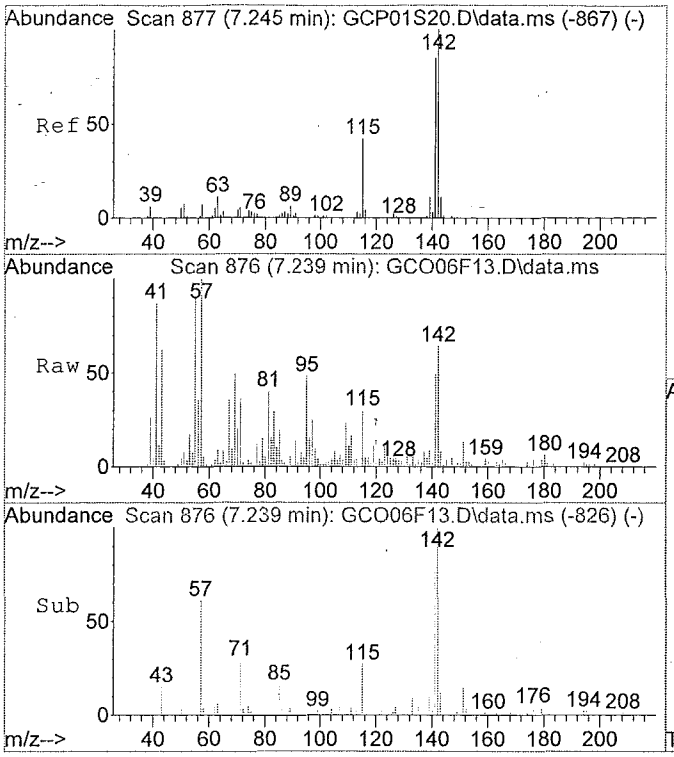


#26
Naphthalene
Concen: 0.68 ug/ml
RT: 6.29 min Scan# 715
Delta R.T. -0.00 min
Lab File: GCO06F13.D
Acq: 07/08/2015 10:56

Tgt Ion:128 Resp: 41068

Ion	Ratio	Lower	Upper
128	100		
129	20.0	7.8	14.4#
127	14.6	9.3	17.3
0	0.0	0.0	0.0

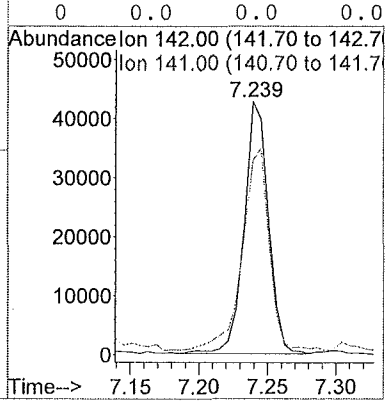


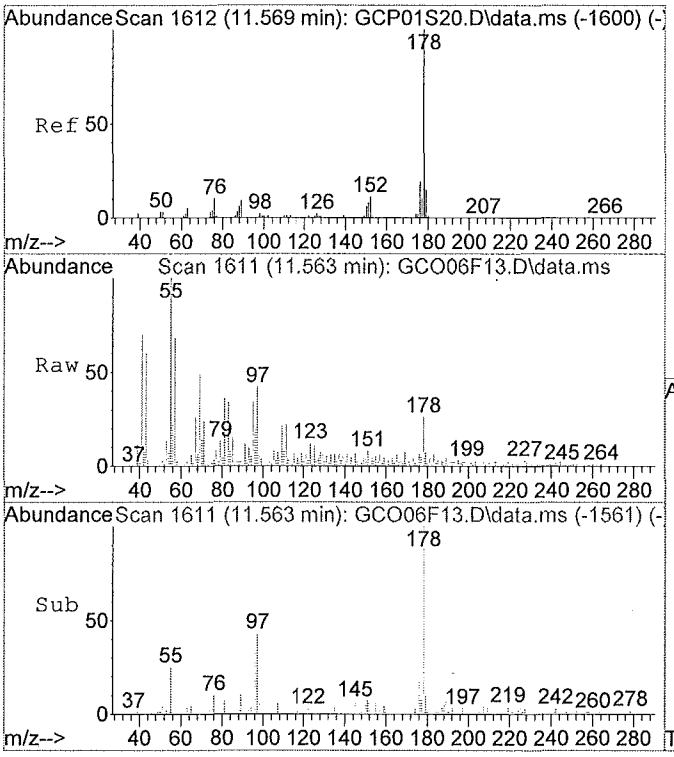


#32
2-Methylnaphthalene
Concen: 1.37 ug/ml
RT: 7.24 min Scan# 876
Delta R.T. -0.01 min
Lab File: GCO06F13.D
Acq: 07/08/2015 10:56

Tgt Ion:142 Resp: 52594

Ion	Ratio	Lower	Upper
142	100		
141	91.6	57.7	107.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

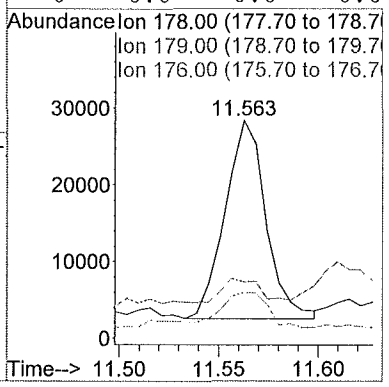


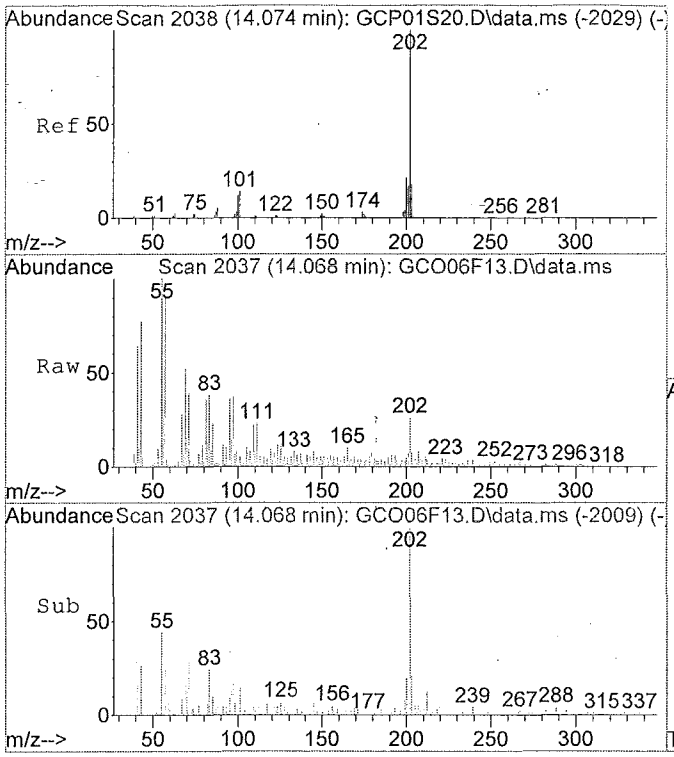


#67
Phenanthrene
Concen: 0.55 ug/ml
RT: 11.56 min Scan# 1611
Delta R.T. -0.01 min
Lab File: GCO06F13.D
Acq: 07/08/2015 10:56

Tgt Ion:178 Resp: 36630

Ion	Ratio	Lower	Upper
178	100		
179	14.7	10.6	19.8
176	19.4	13.2	24.4
0	0.0	0.0	0.0

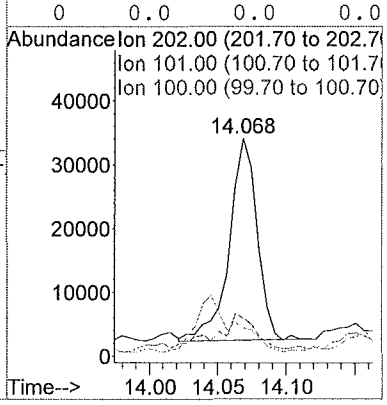


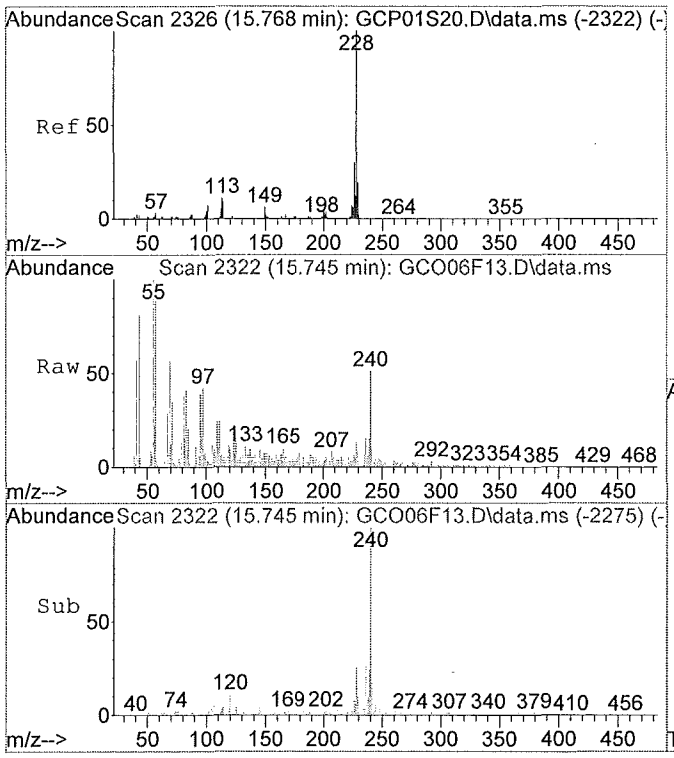


#74
Pyrene
Concen: 0.56 ug/ml
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: GCO06F13.D
Acq: 07/08/2015 10:56

Tgt Ion:202 Resp: 44671

Ion	Ratio	Lower	Upper
202	100		
101	17.0	12.2	22.7
100	0.0	10.1	18.7#
0	0.0	0.0	0.0

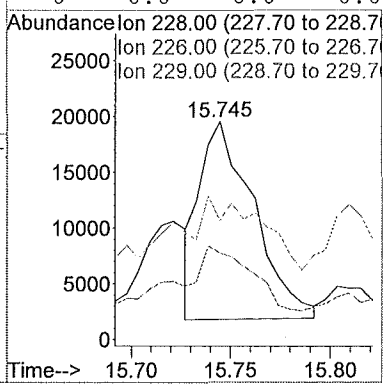




#79
Chrysene
Concen: 0.49 ug/ml m
RT: 15.74 min Scan# 2322
Delta R.T. -0.02 min
Lab File: GCO06F13.D
Acq: 07/08/2015 10:56

Tgt Ion:228 Resp: 33681

Ion	Ratio	Lower	Upper
228	100		
226	52.2	20.1	37.3#
229	83.4	13.7	25.5#
0	0.0	0.0	0.0



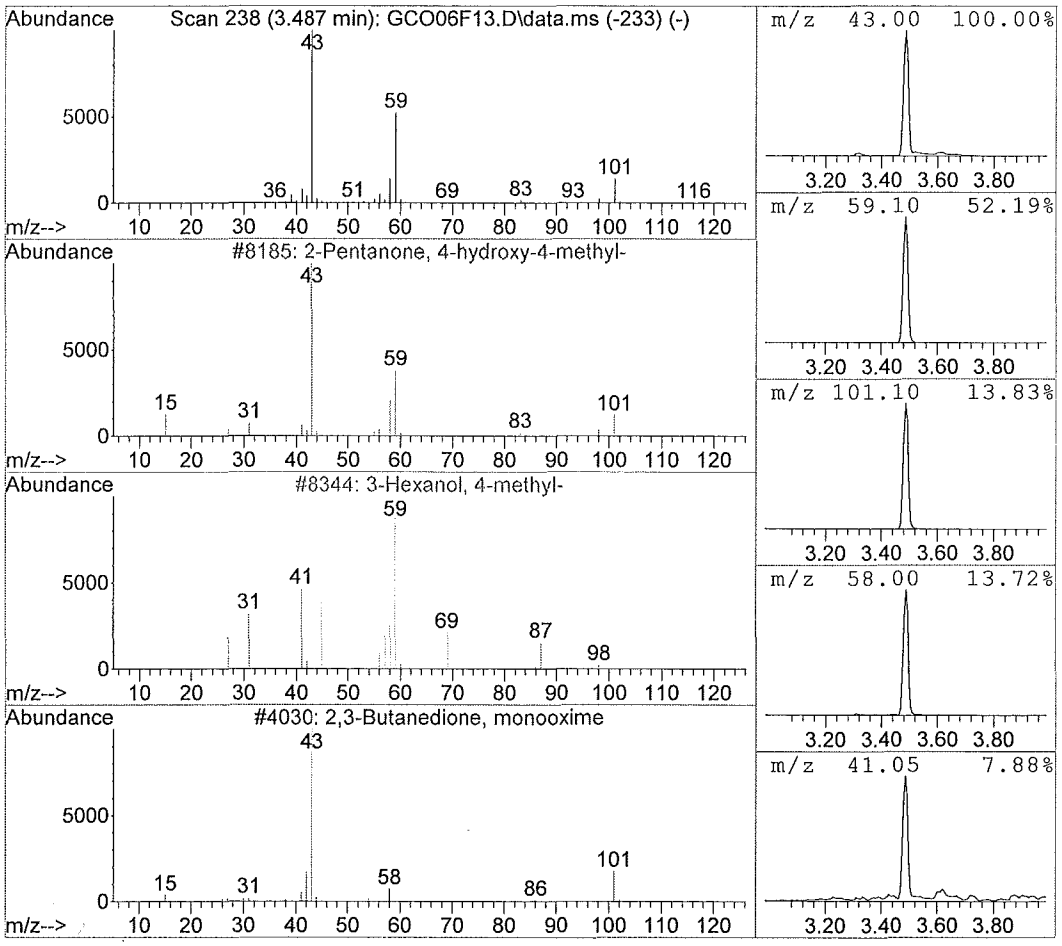
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.49	22.58 ug/ml	3908884	1,4-Dichlorobenzene-d4	3462534

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
4	2-Hexanol, 2-methyl-	8358	000625-23-0	9.00
5	Propane, 1-ethoxy-2-methyl-	4488	000627-02-1	9.00



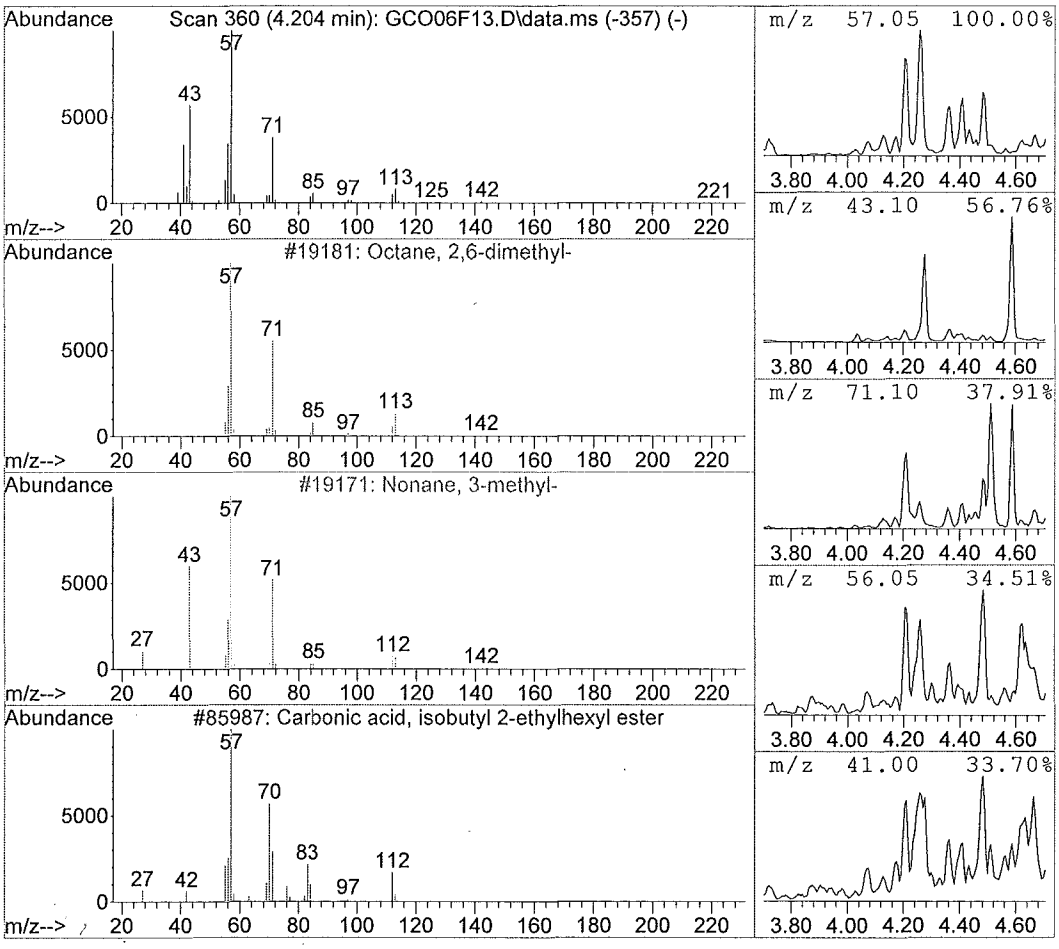
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.20	2.19 ug/ml	379304	1,4-Dichlorobenzene-d4	3462534

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 2,6-dimethyl- BA	19181	002051-30-1	81.00
2	Nonane, 3-methyl-	19171	005911-04-6	72.00
3	Carbonic acid, isobutyl 2-ethylhexy	85987	1000357-82-9	64.00
4	Oxalic acid, isobutyl nonyl ester	120800	1000309-37-4	59.00
5	Decane, 2,5,9-trimethyl-	48890	062108-22-9	59.00



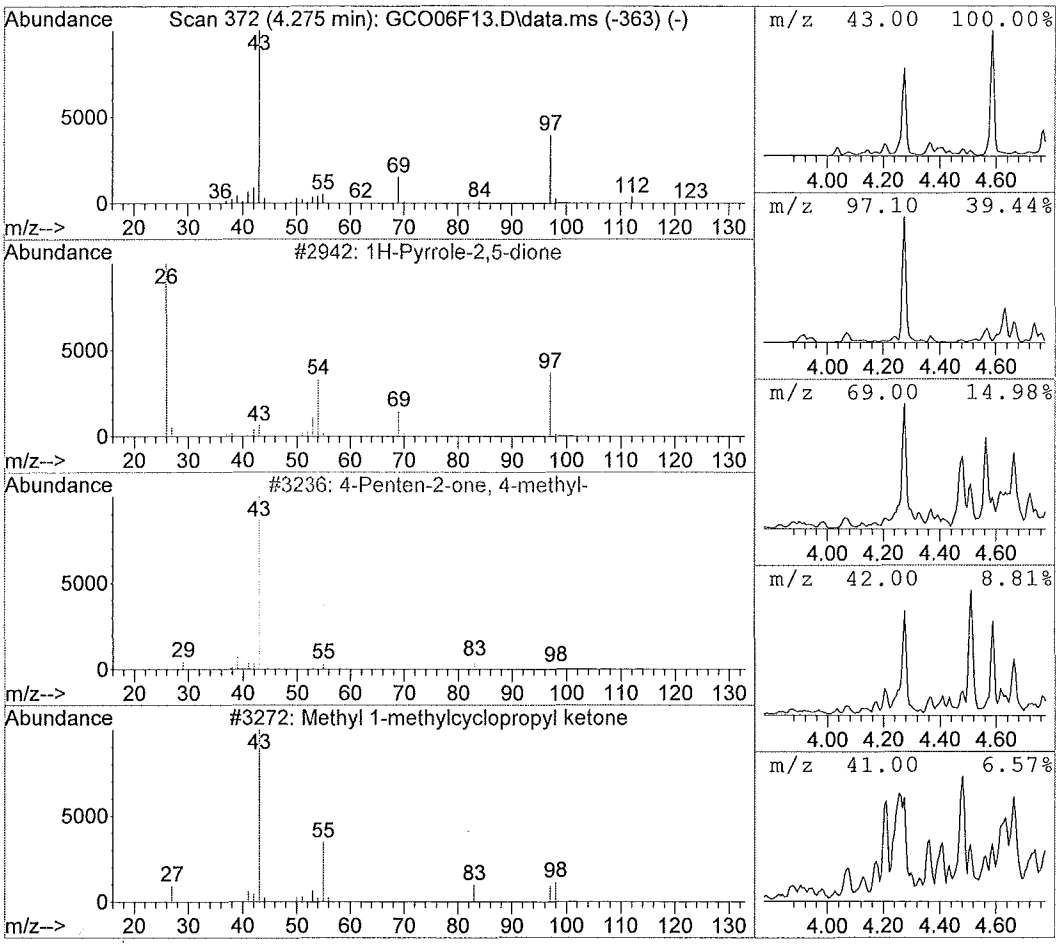
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.27	9.19 ug/ml	1591643	1,4-Dichlorobenzene-d4	3462534

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	42.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
4	5-Hexen-2-one	3158	000109-49-9	9.00
5	2-Propyn-1-ol, acetate	3098	000627-09-8	5.00



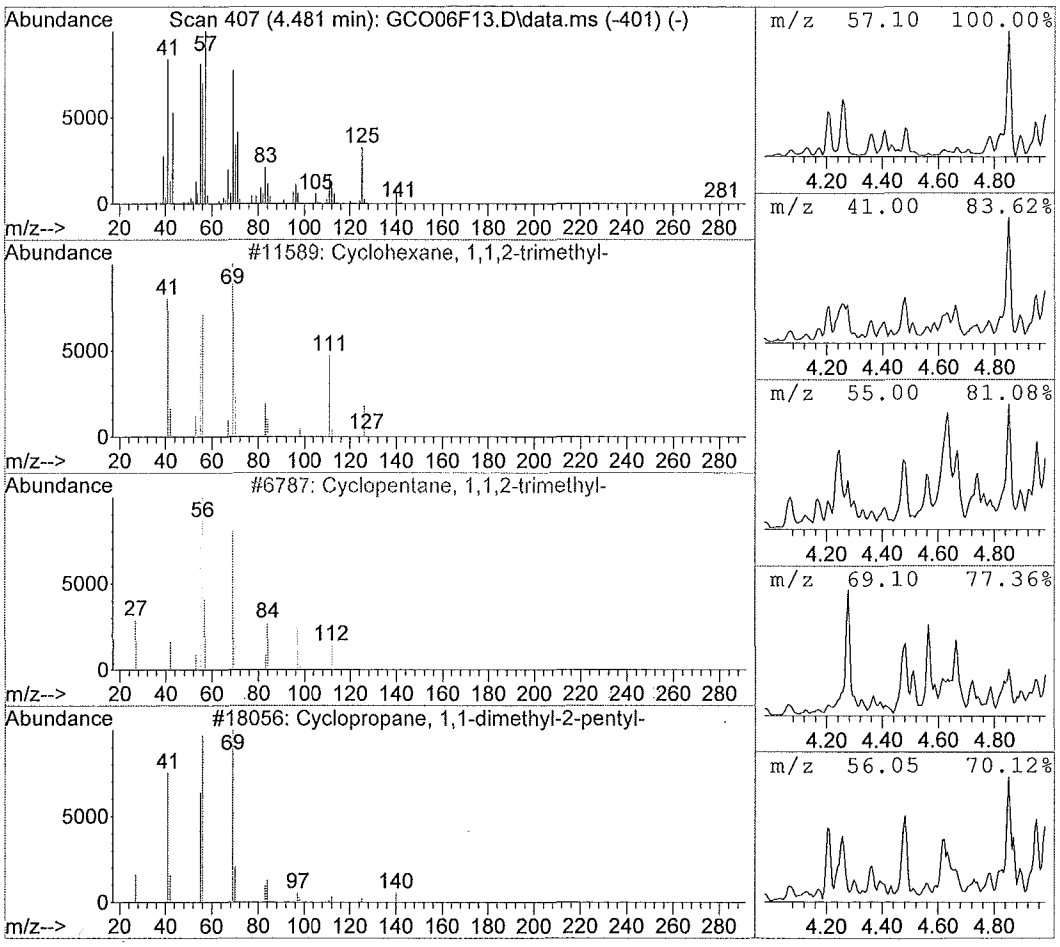
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.48	2.96 ug/ml	512742	1,4-Dichlorobenzene-d4	3462534

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,1,2-trimethyl- CA	11589	007094-26-0	49.00
2	Cyclopentane, 1,1,2-trimethyl-	6787	004259-00-1	49.00
3	Cyclopropane, 1,1-dimethyl-2-pentyl	18056	062167-97-9	46.00
4	4-Nonene, 5-methyl-	17965	015918-07-7	46.00
5	2-Decene, (E)-	17949	020063-97-2	35.00



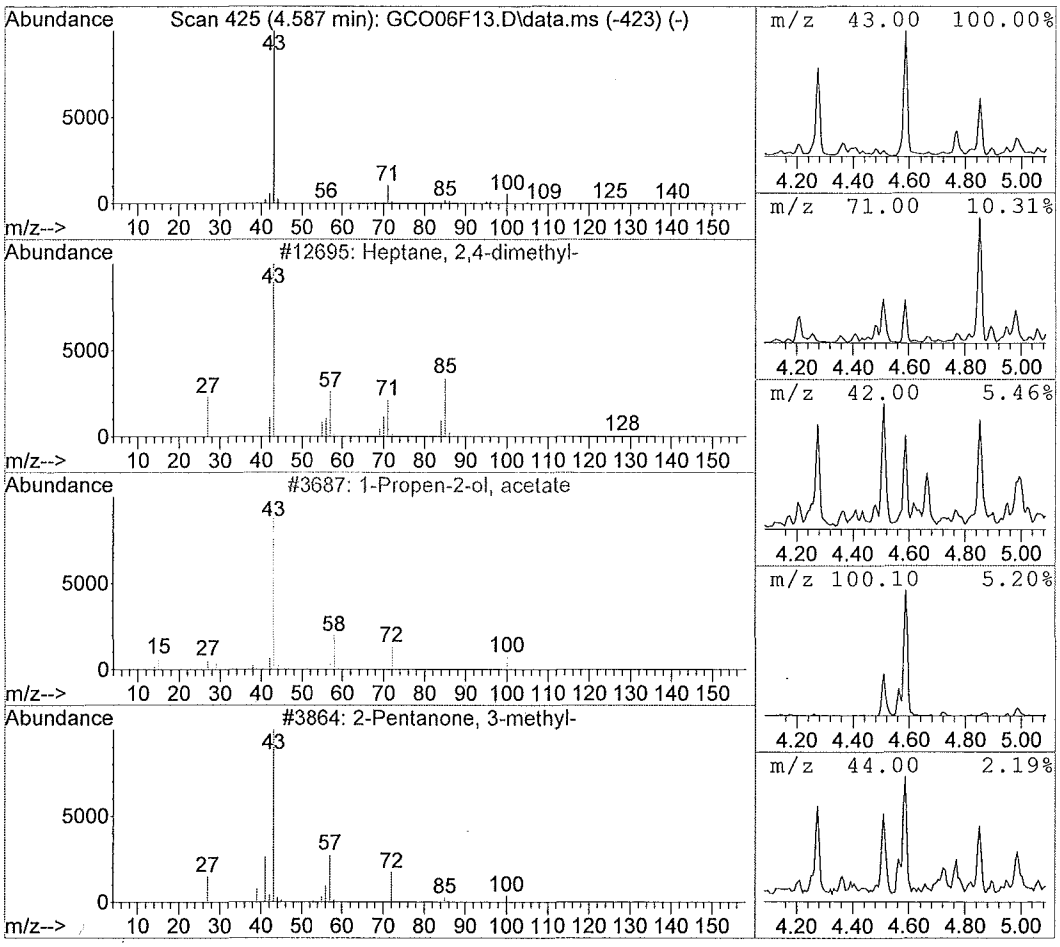
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.59	4.53 ug/ml	783463	1,4-Dichlorobenzene-d4	3462534

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl- BA	12695	002213-23-2	7.00
2	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
4	Octane, 4-methyl-	12674	002216-34-4	5.00
5	2,3-Pentanedione	3673	000600-14-6	5.00



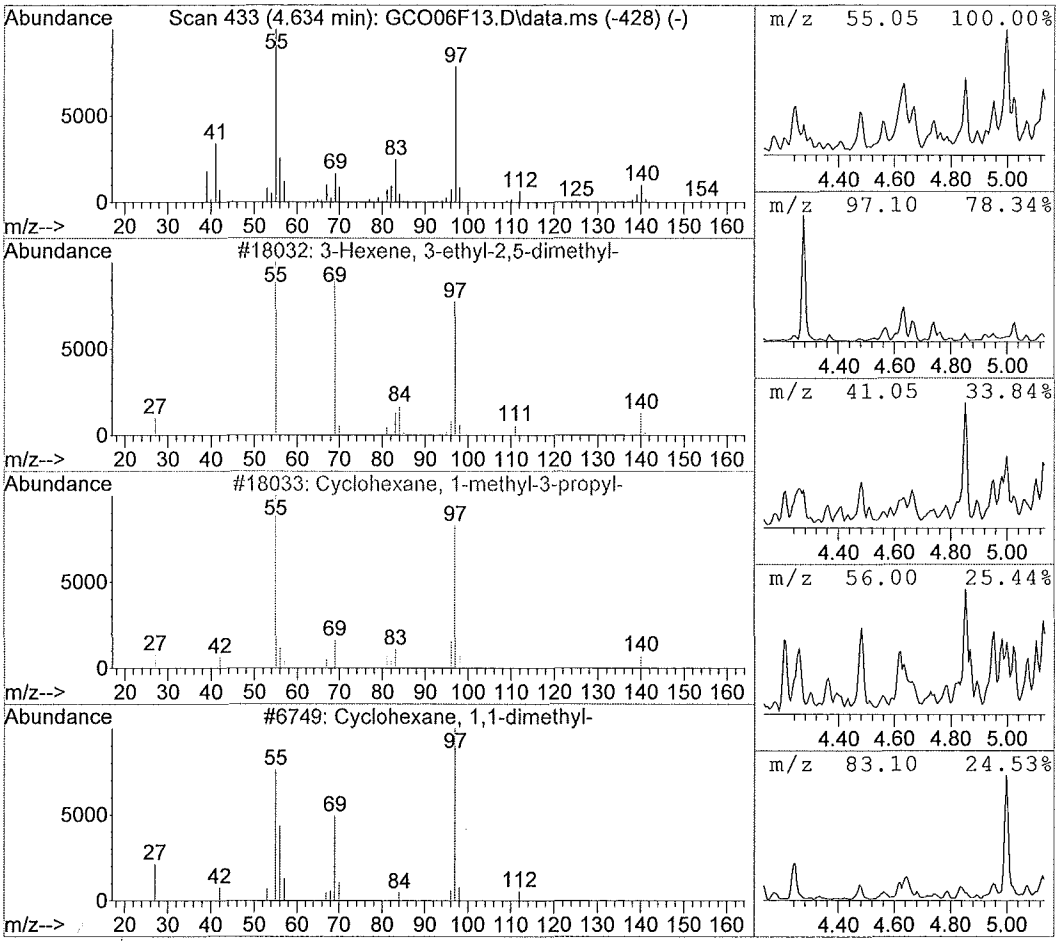
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	2.39 ug/ml	414278	1,4-Dichlorobenzene-d4	3462534

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Hexene, 3-ethyl-2,5-dimethyl-	18032	062338-08-3	64.00
2	Cyclohexane, 1-methyl-3-propyl-	18033	004291-80-9	59.00
3	Cyclohexane, 1,1-dimethyl-	6749	000590-66-9	58.00
4	m-Menthane, (1S,3S)-(+)-	18002	013837-67-7	58.00
5	1-Methyl-4-(1-methylethyl)-cyclohex	18058	000099-82-1	58.00



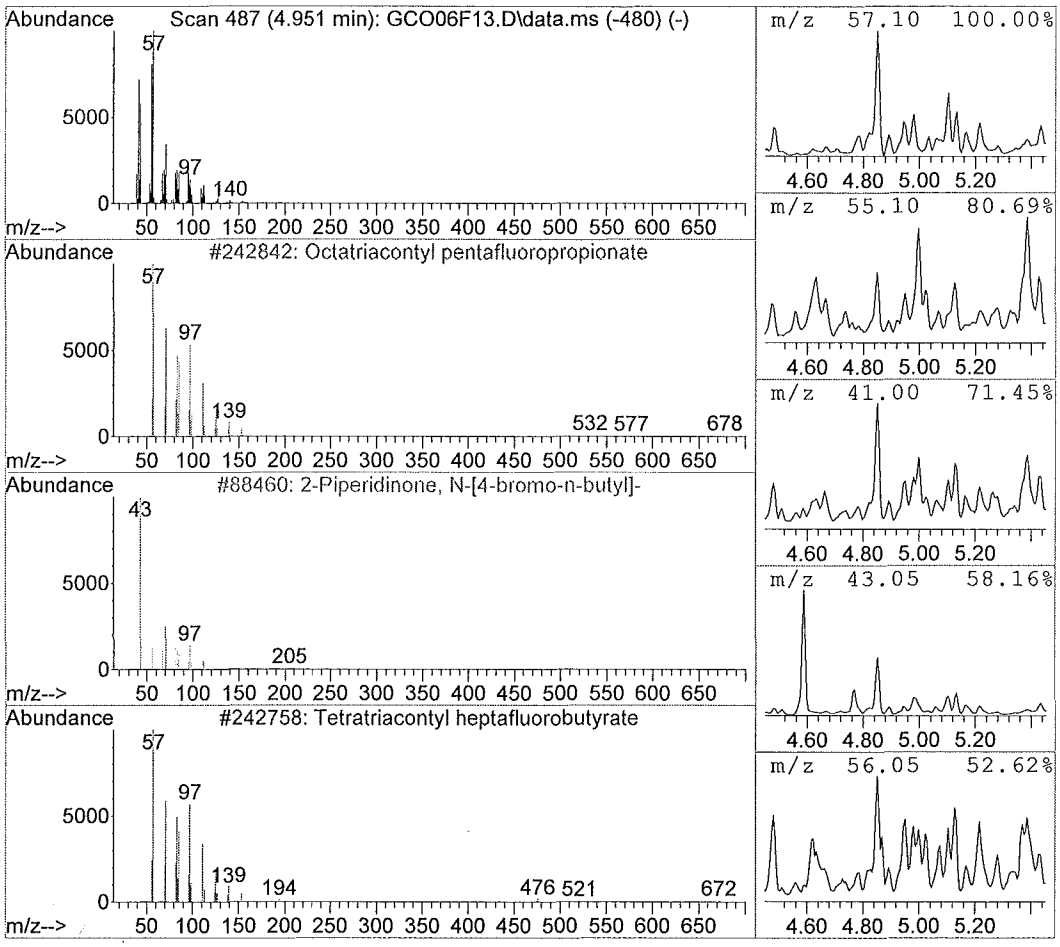
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.95	3.85 ug/ml	666599	1,4-Dichlorobenzene-d4	3462534

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octatriacontyl pentafluoropropionat	242842	1000351-89-1	43.00
2	2-Piperidinone, N-[4-bromo-n-butyl]	88460	195194-80-0	43.00
3	Tetratriacontyl heptafluorobutyrate	242758	1000351-84-1	43.00
4	Oxalic acid, isobutyl nonyl ester	120800	1000309-37-4	35.00
5	2-Octene, (Z)-	6645	007642-04-8	30.00



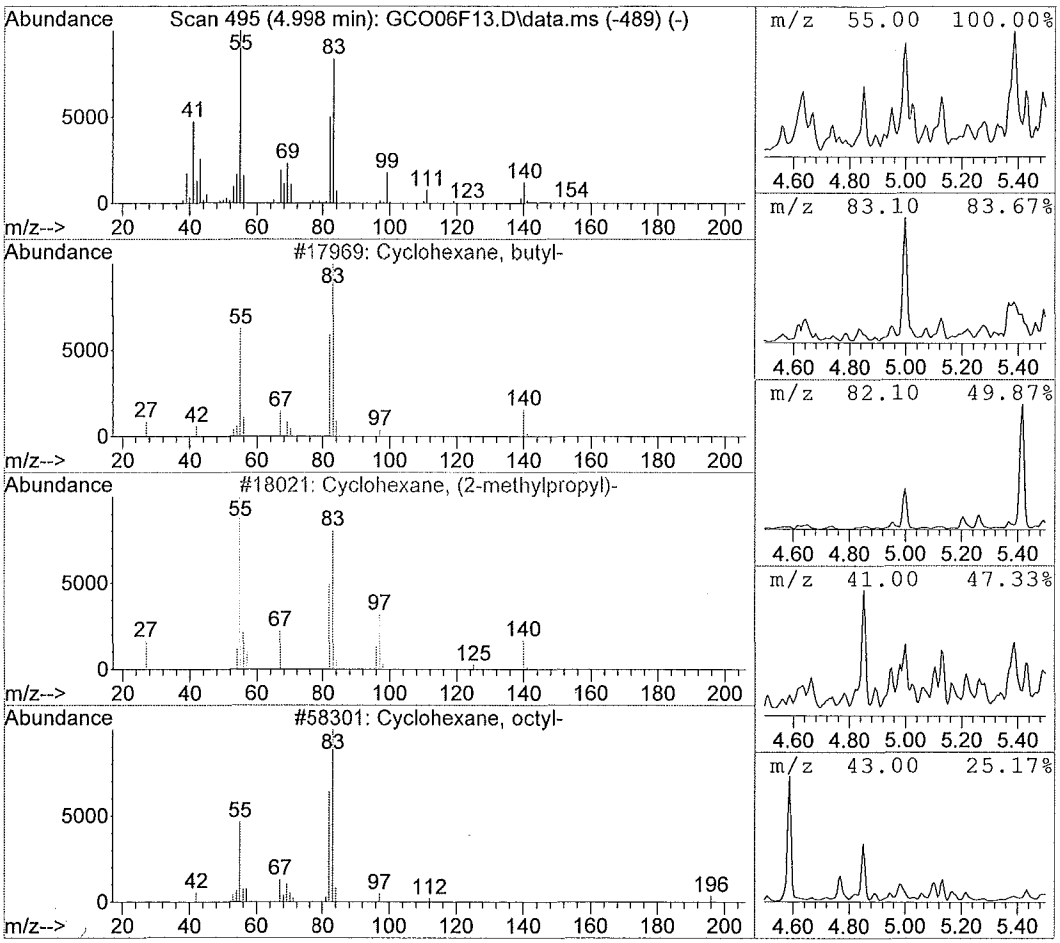
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.00	6.27 ug/ml	1085263	1,4-Dichlorobenzene-d4	3462534

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, butyl-	17969	001678-93-9	87.00
2	Cyclohexane, (2-methylpropyl)-	18021	001678-98-4	81.00
3	Cyclohexane, octyl-	58301	001795-15-9	72.00
4	Cyclohexane, pentyl-	27055	004292-92-6	64.00
5	Cyclohexane, 2-propenyl-	10655	002114-42-3	64.00



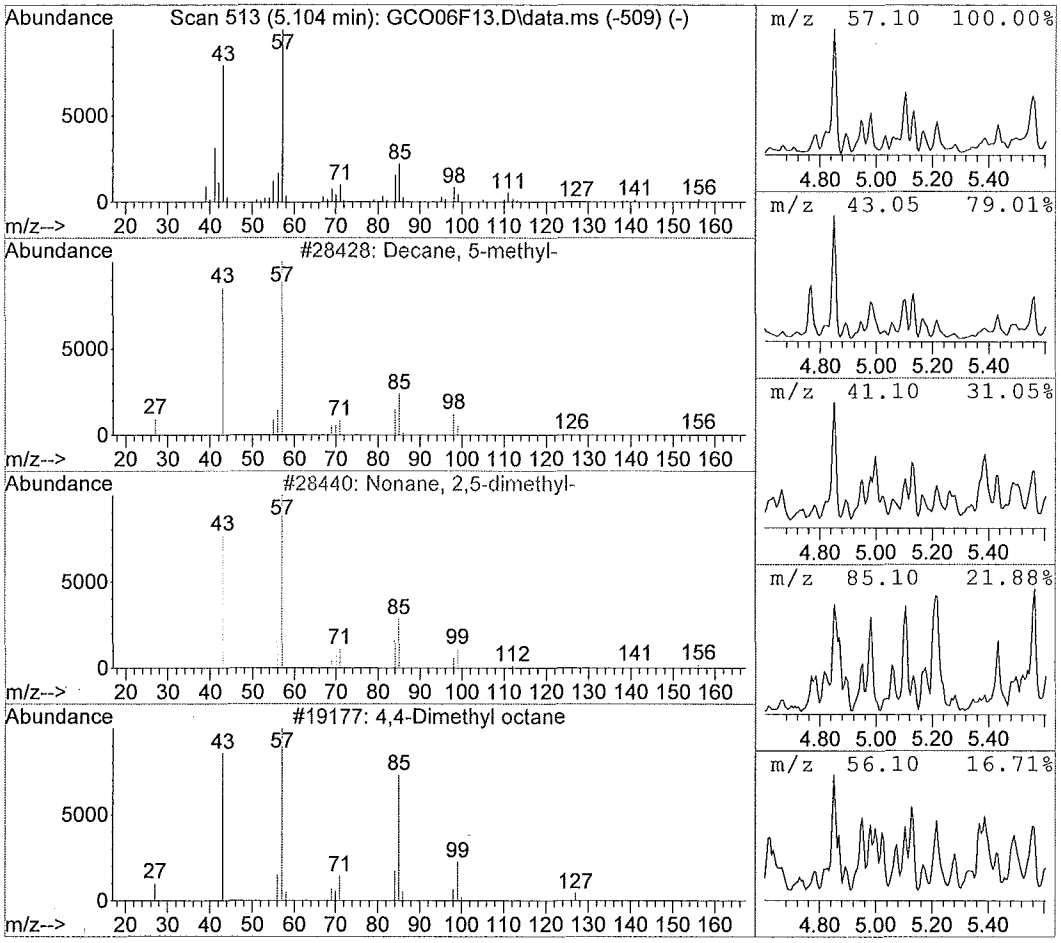
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.10	2.56 ug/ml	442343	1,4-Dichlorobenzene-d4	3462534

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 5-methyl- Ba	28428	013151-35-4	87.00
2	Nonane, 2,5-dimethyl-	28440	017302-27-1	72.00
3	4,4-Dimethyl octane	19177	015869-95-1	64.00
4	Heptane, 4-ethyl-	12675	002216-32-2	64.00
5	Pentane, 3-ethyl-2,3-dimethyl-	12743	016747-33-4	59.00



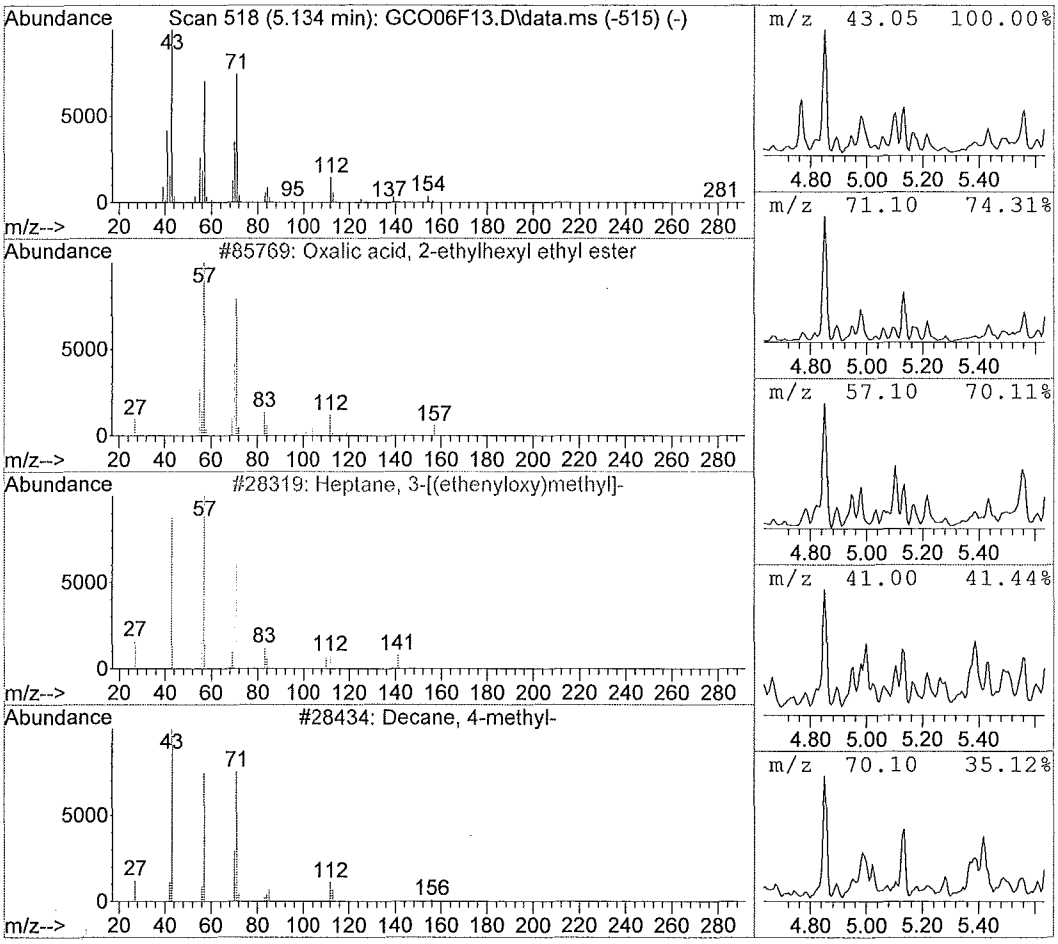
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.13	3.79 ug/ml	656575	1,4-Dichlorobenzene-d4	3462534

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Oxalic acid, 2-ethylhexyl ethyl est	85769	1000309-38-4	83.00
2	Heptane, 3-[(ethenyloxy)methyl]-	28319	000103-44-6	80.00
3	Decane, 4-methyl-	28434	002847-72-5	80.00
4	Oxalic acid, 2-ethylhexyl hexyl est	132742	1000309-38-9	72.00
5	Oxalic acid, 2-ethylhexyl pentyl es	120859	1000309-38-7	72.00



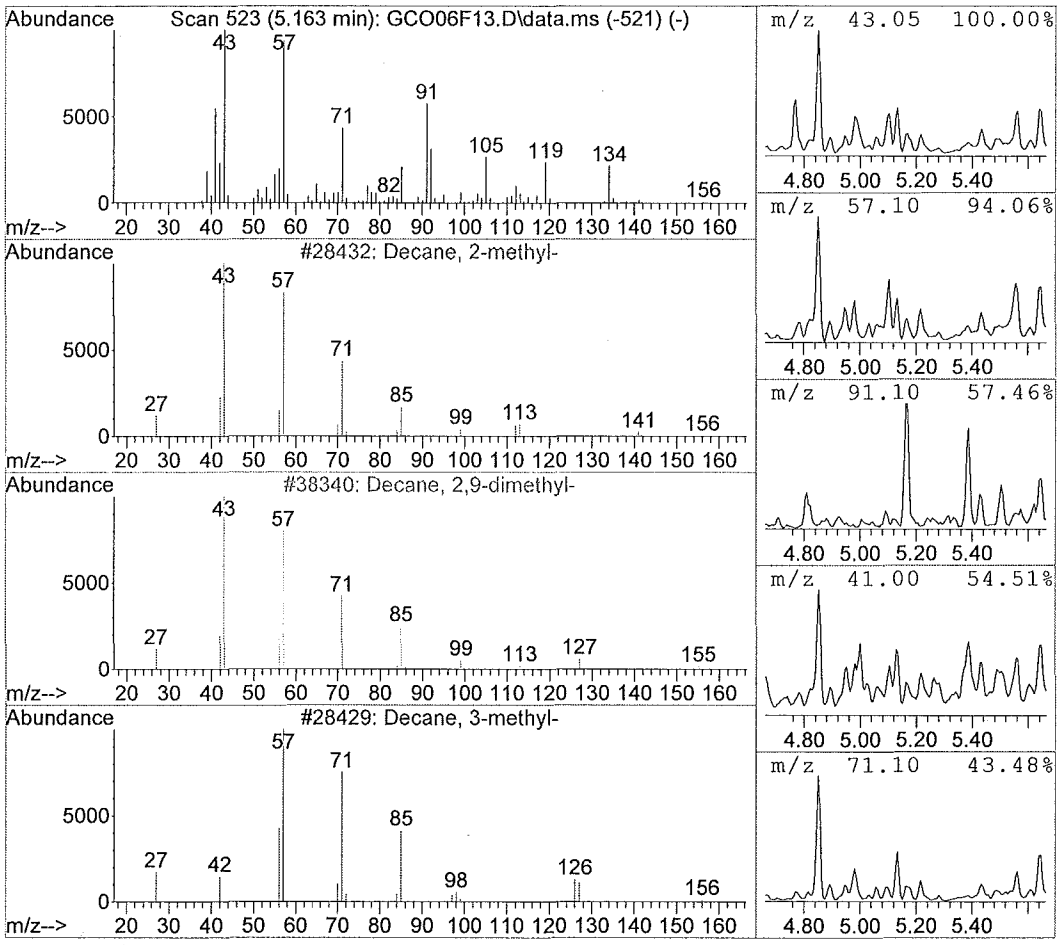
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.16	2.35 ug/ml	406059	1,4-Dichlorobenzene-d4	3462534

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 2-methyl- BA	28432	006975-98-0	49.00
2	Decane, 2,9-dimethyl-	38340	001002-17-1	43.00
3	Decane, 3-methyl-	28429	013151-34-3	38.00
4	Tridecane, 7-methyl-	59891	026730-14-3	38.00
5	Decane, 3,8-dimethyl-	38344	017312-55-9	35.00



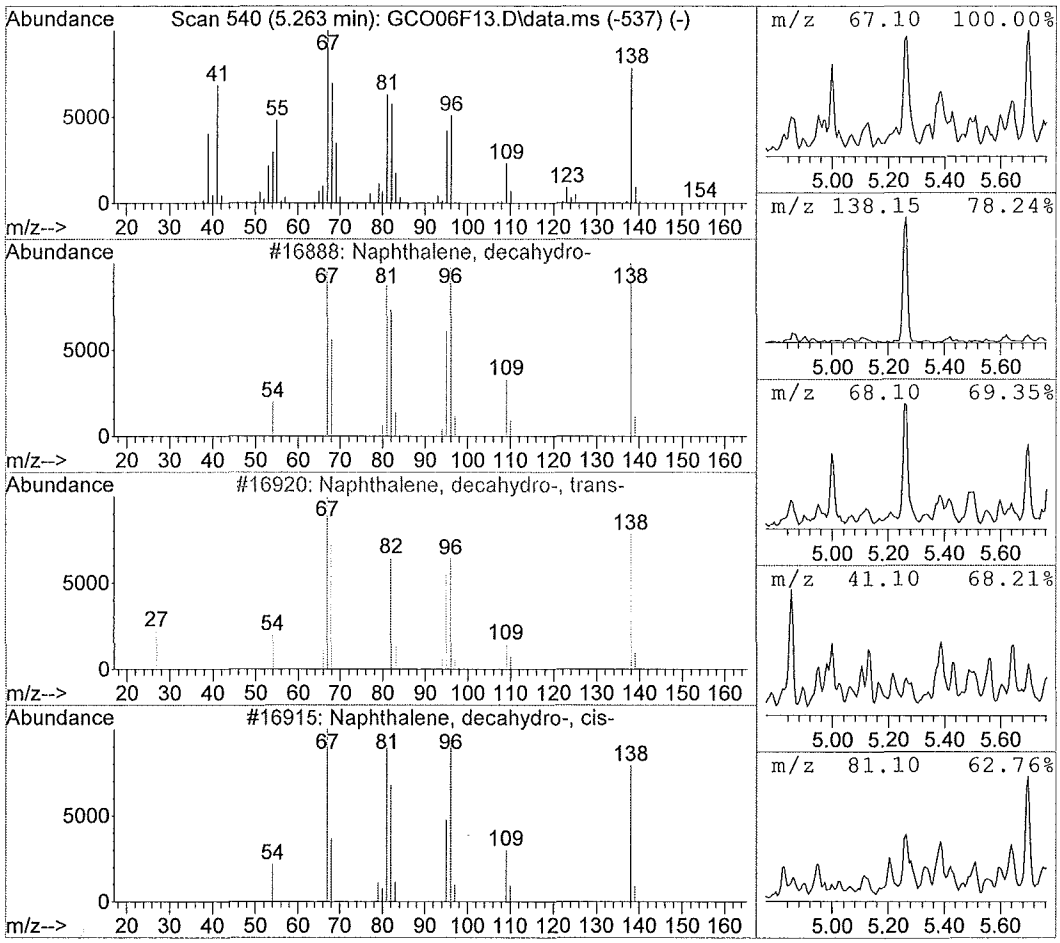
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.26	3.44 ug/ml	596339	1,4-Dichlorobenzene-d4	3462534

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, decahydro-	16888	000091-17-8	95.00
2	Naphthalene, decahydro-, trans-	16920	000493-02-7	94.00
3	Naphthalene, decahydro-, cis-	16915	000493-01-6	93.00
4	Spiro[4.5]decane	16860	000176-63-6	91.00
5	(Z)-Dec-4-enyl isobutyl carbonate	107397	1000372-79-2	68.00



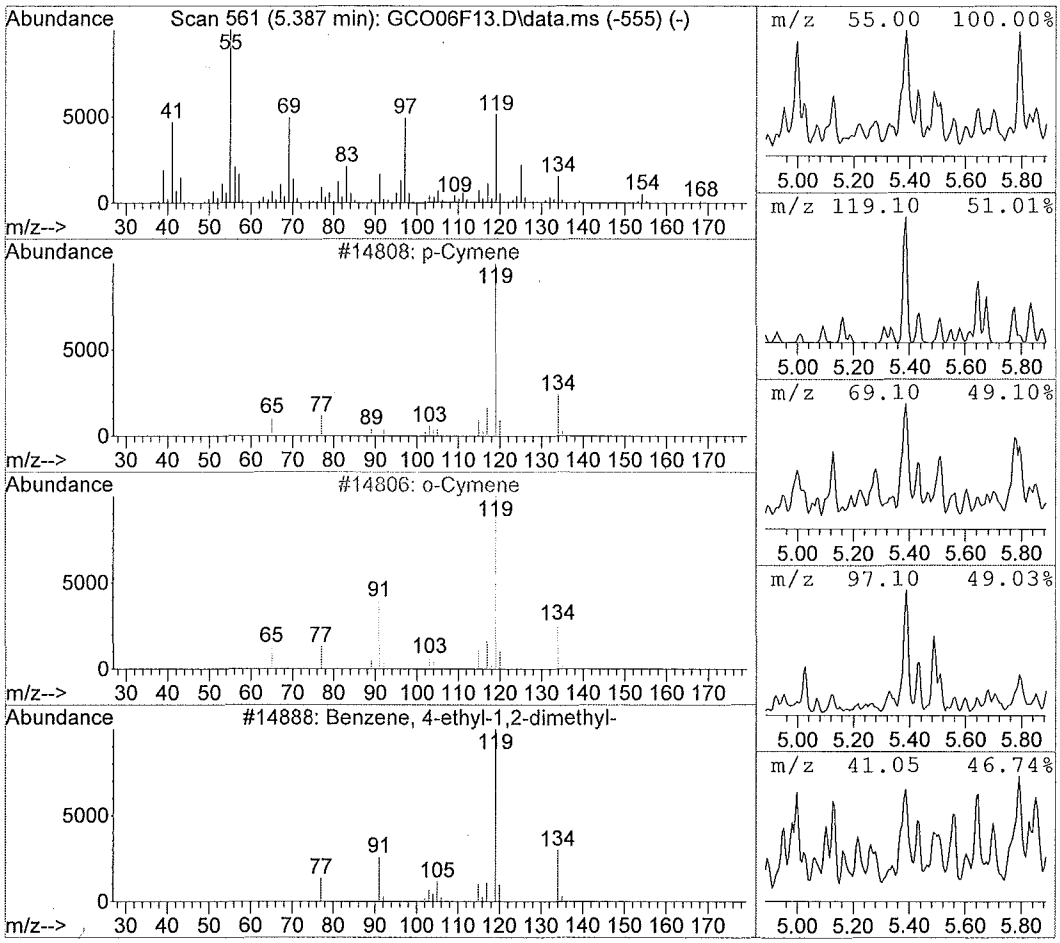
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.39	8.16 ug/ml	1412043	1,4-Dichlorobenzene-d4	3462534

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	p-Cymene	14808	000099-87-6	35.00
2	o-Cymene	14806	000527-84-4	35.00
3	Benzene, 4-ethyl-1,2-dimethyl-	14888	000934-80-5	35.00
4	Benzene, 1-methyl-3-(1-methylethyl)	14907	000535-77-3	35.00
5	Benzene, 2-ethyl-1,3-dimethyl-	14879	002870-04-4	25.00



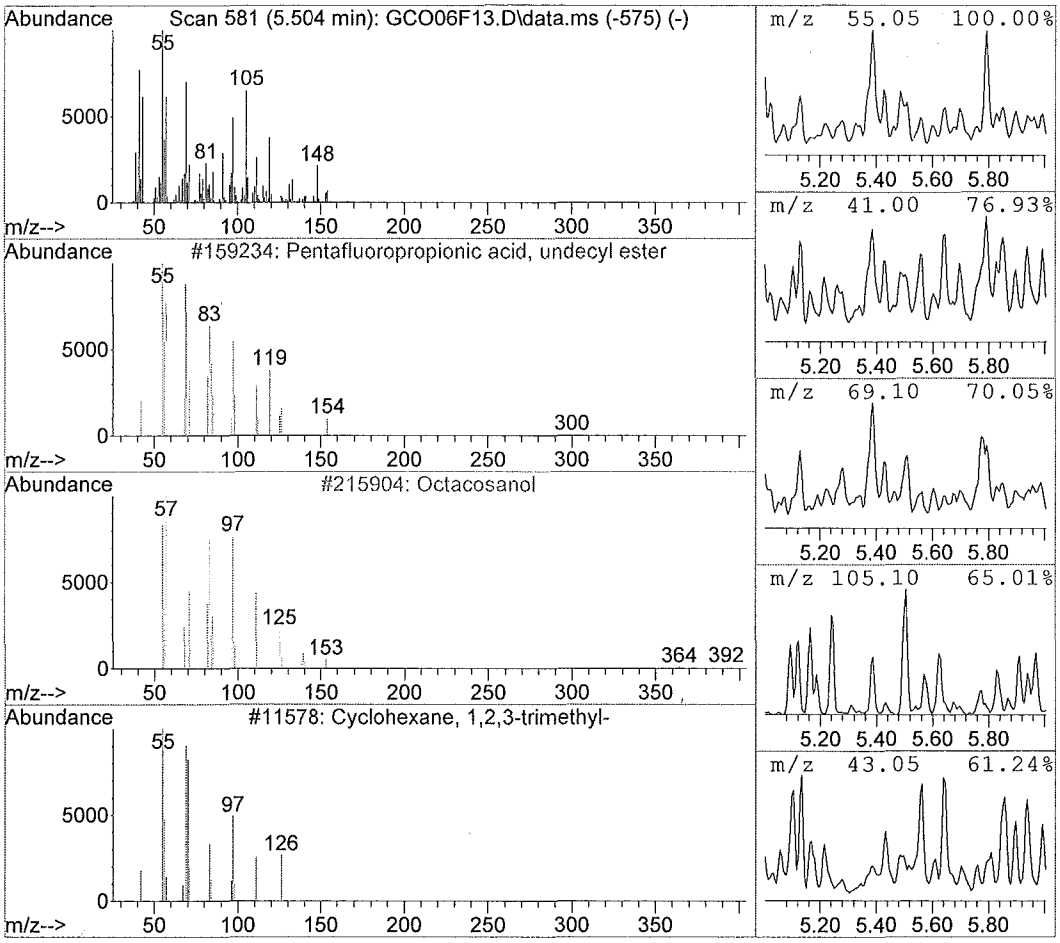
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.50	4.47 ug/ml	774391	1,4-Dichlorobenzene-d4	3462534

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentafluoropropionic acid, undecyl	159234	959014-11-0	38.00
2	Octacosanol	215904	000557-61-9	38.00
3	Cyclohexane, 1,2,3-trimethyl-	11578	001678-97-3	38.00
4	2-Thiopheneacetic acid, 2-ethylcycl	103740	1000278-96-1	35.00
5	4,4-Dimethyl-oct-5-enal	26704	1000143-73-6	22.00



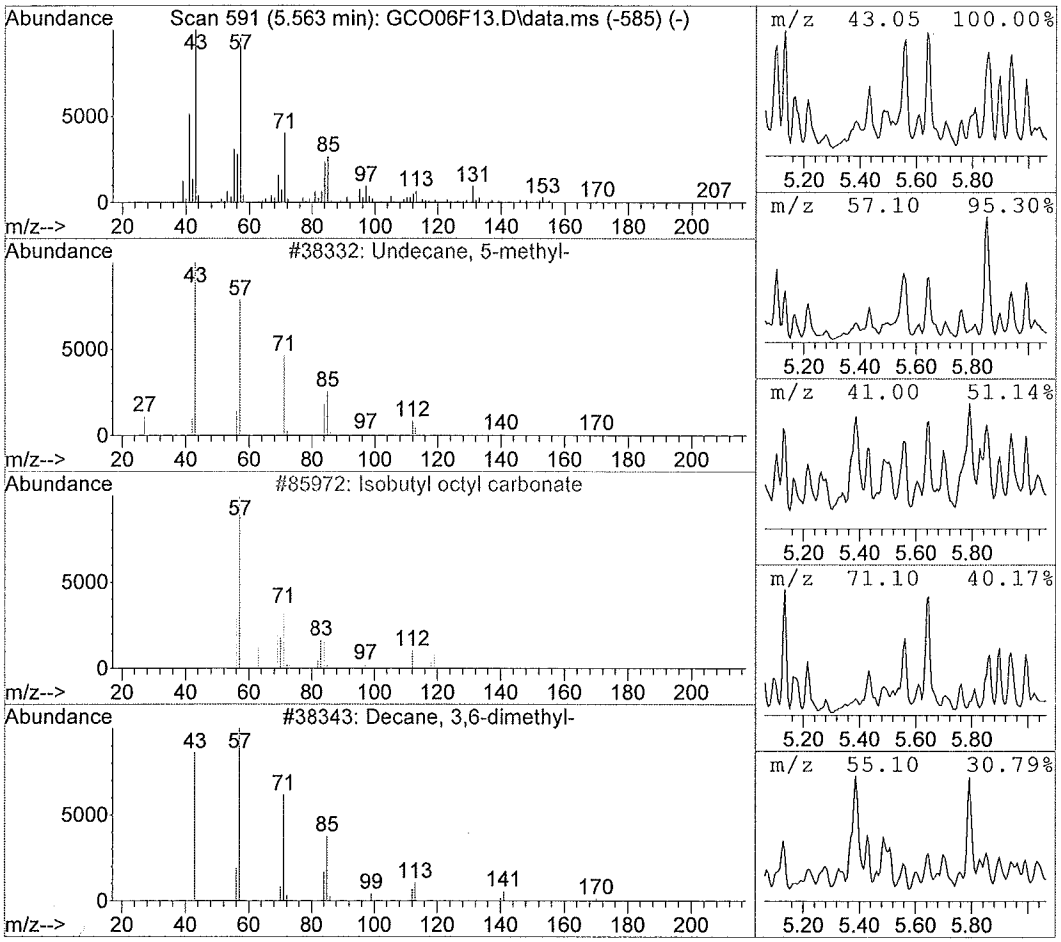
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.56	4.31 ug/ml	745670	1,4-Dichlorobenzene-d4	3462534

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 5-methyl- BA	38332	001632-70-8	58.00
2	Isobutyl octyl carbonate	85972	1000372-74-6	50.00
3	Decane, 3,6-dimethyl-	38343	017312-53-7	49.00
4	Hexane, 2,3,4-trimethyl-	12714	000921-47-1	49.00
5	Sulfurous acid, 2-ethylhexyl hexyl	125660	1000309-20-2	47.00



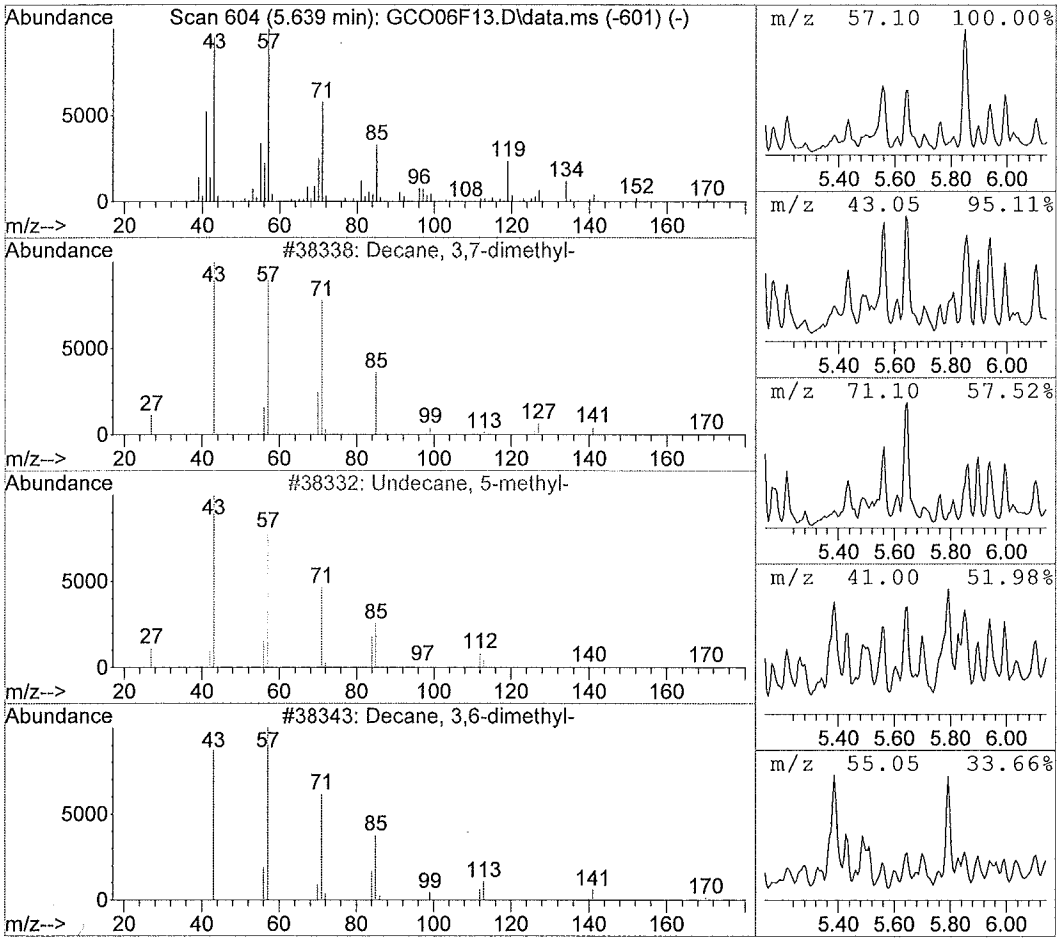
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.64	4.27 ug/ml	667099	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 3,7-dimethyl- TSA	38338	017312-54-8	58.00
2	Undecane, 5-methyl-	38332	001632-70-8	49.00
3	Decane, 3,6-dimethyl-	38343	017312-53-7	49.00
4	Decane, 3-methyl-	28429	013151-34-3	47.00
5	Decane, 3-bromo-	76838	030571-71-2	47.00



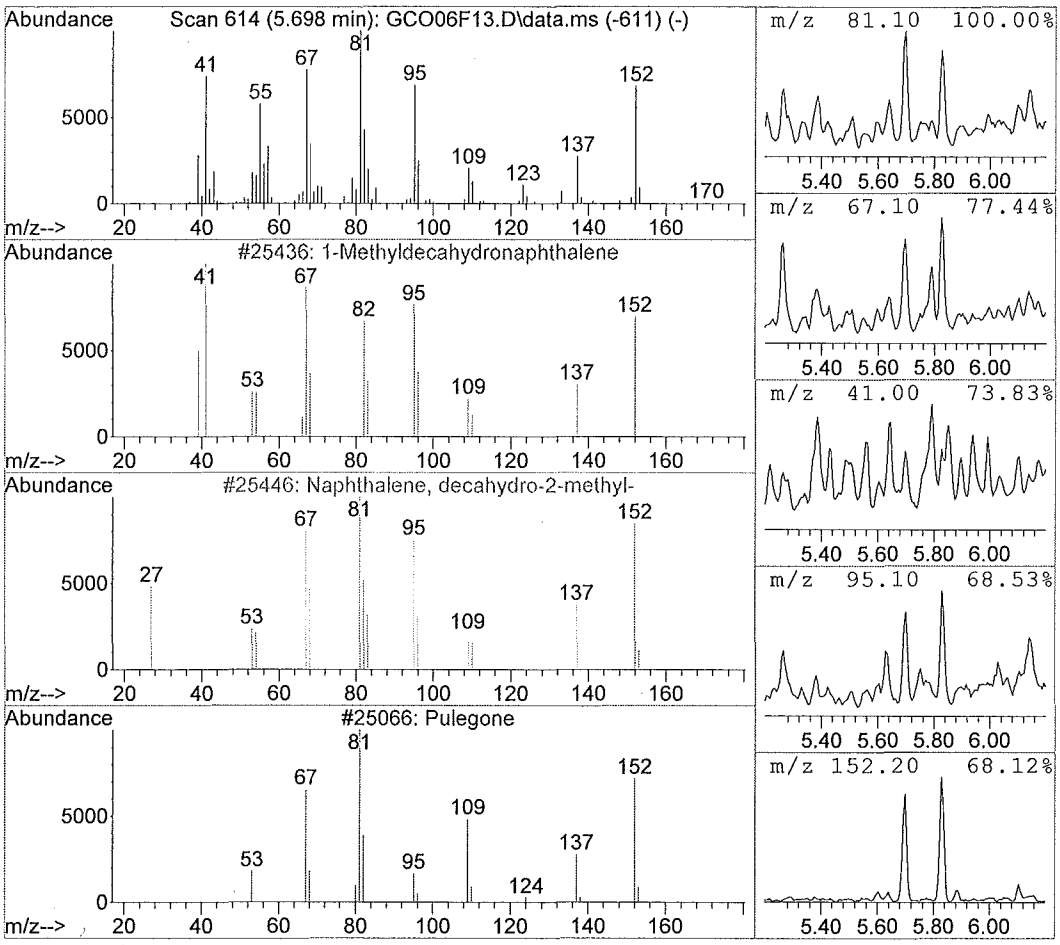
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.70	4.04 ug/ml	630532	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Methyldecahydronaphthalene	25436	002958-75-0	97.00
2	Naphthalene, decahydro-2-methyl-	25446	002958-76-1	95.00
3	Pulegone	25066	000089-82-7	90.00
4	Cyclohexanone, 5-methyl-2-(1-methyl	25290	015932-80-6	74.00
5	9-Octadecyne	102606	035365-59-4	72.00



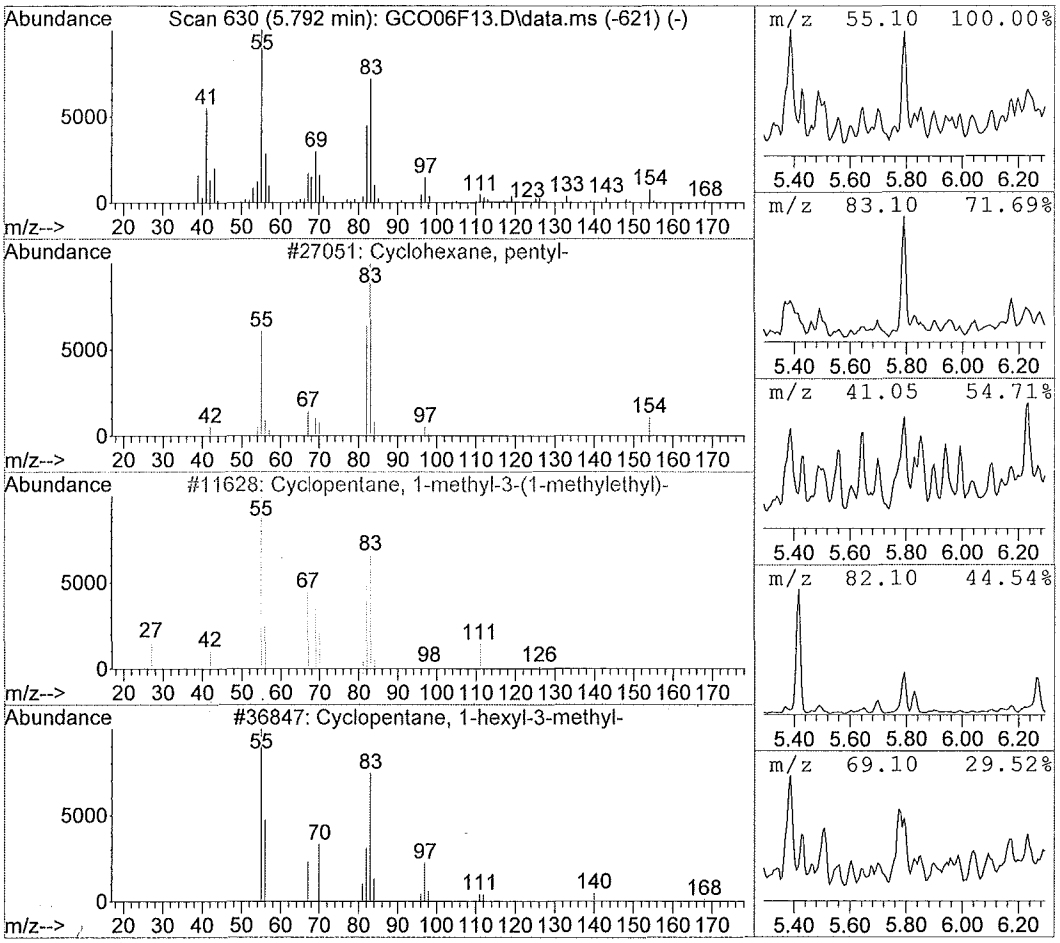
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.79	11.62 ug/ml	1815180	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, pentyl- CA	27051	004292-92-6	74.00
2	Cyclopentane, 1-methyl-3-(1-methyle	11628	053771-88-3	72.00
3	Cyclopentane, 1-hexyl-3-methyl-	36847	061142-68-5	58.00
4	5-Undecene, (Z)-	27029	000764-96-5	38.00
5	Cyclopropane, 1-pentyl-2-propyl-	27088	041977-33-7	38.00



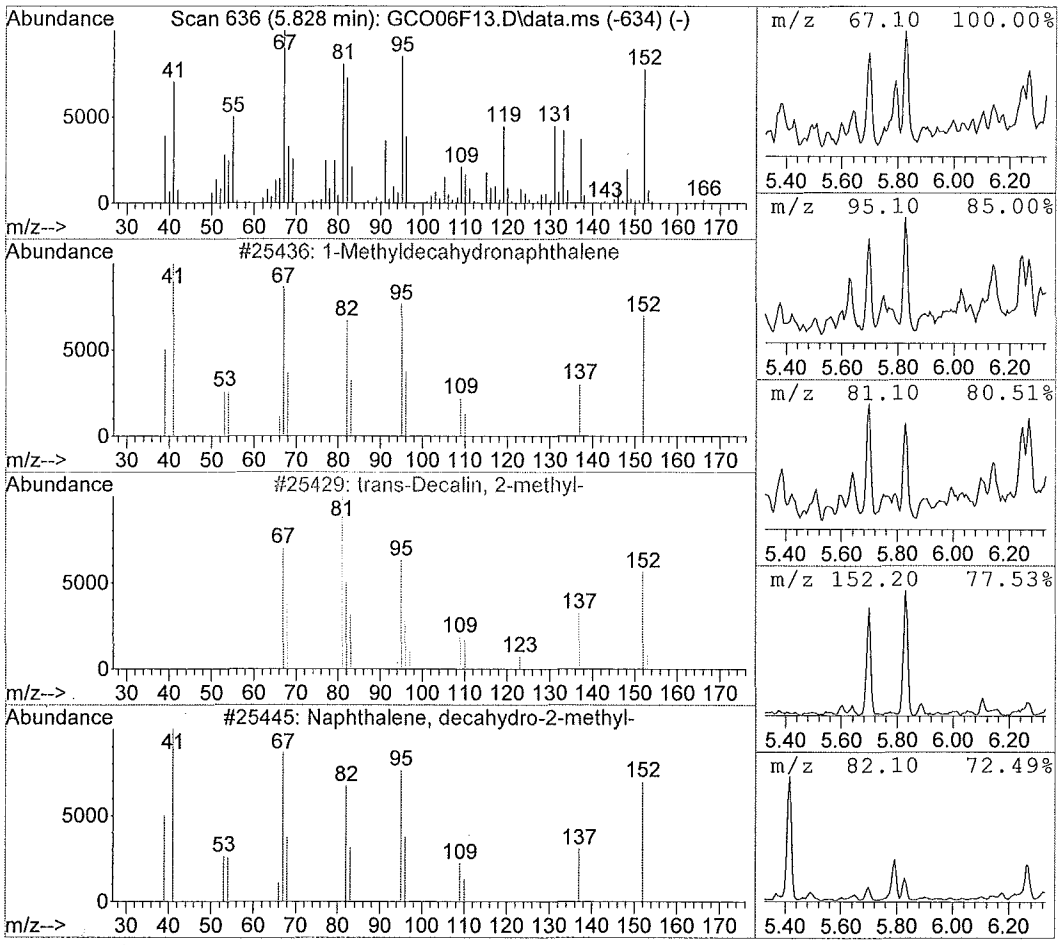
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.83	2.91 ug/ml	454401	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Methyldecahydronaphthalene	25436	002958-75-0	70.00
2	trans-Decalin, 2-methyl-	25429	1000152-47-3	70.00
3	Naphthalene, decahydro-2-methyl-	25445	002958-76-1	70.00
4	cis-Decalin, 2-syn-methyl-	25433	1000155-85-6	62.00
5	Bicyclo[3.1.1]heptane, 2,6,6-trimet	17016	004795-86-2	50.00



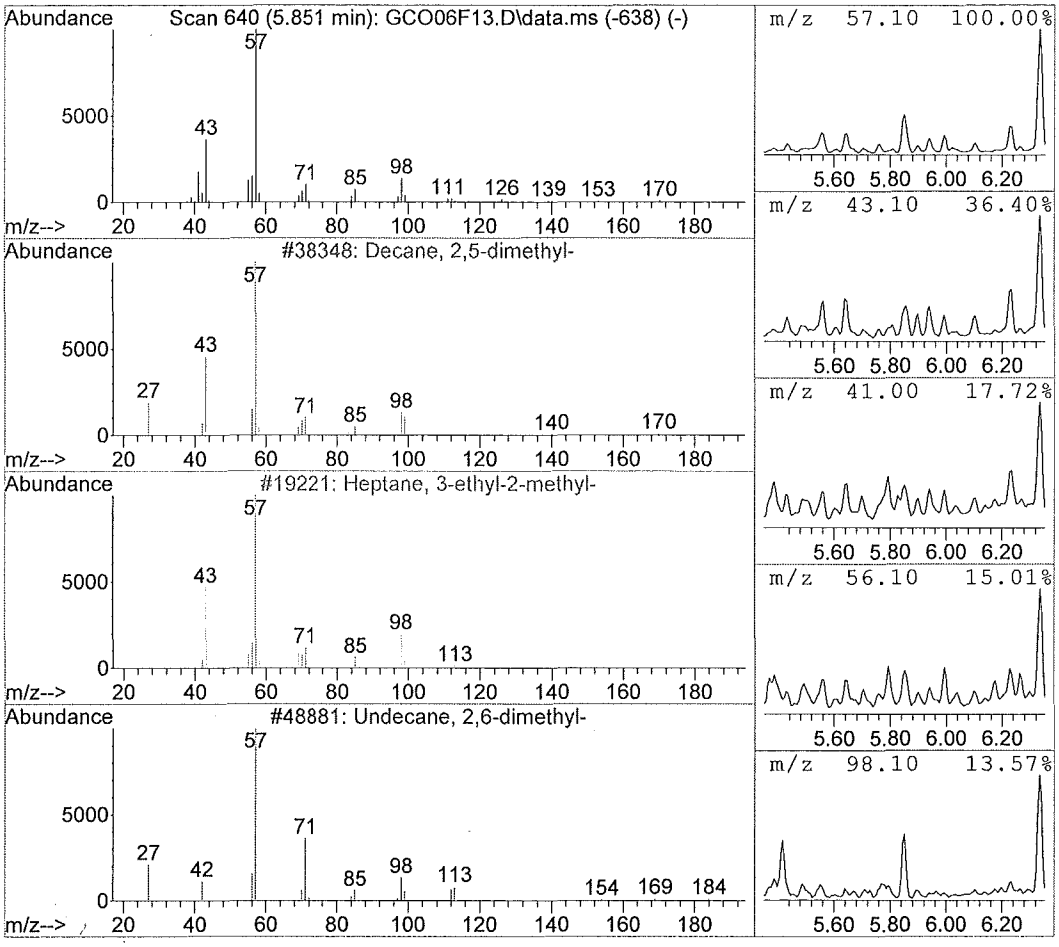
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.85	4.41 ug/ml	689740	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 2,5-dimethyl- BA	38348	017312-50-4	81.00
2	Heptane, 3-ethyl-2-methyl-	19221	014676-29-0	64.00
3	Undecane, 2,6-dimethyl-	48881	017301-23-4	59.00
4	Undecane, 6-methyl-	38334	017302-33-9	52.00
5	3-Undecene, 6-methyl-, (E)-	36817	074630-52-7	50.00



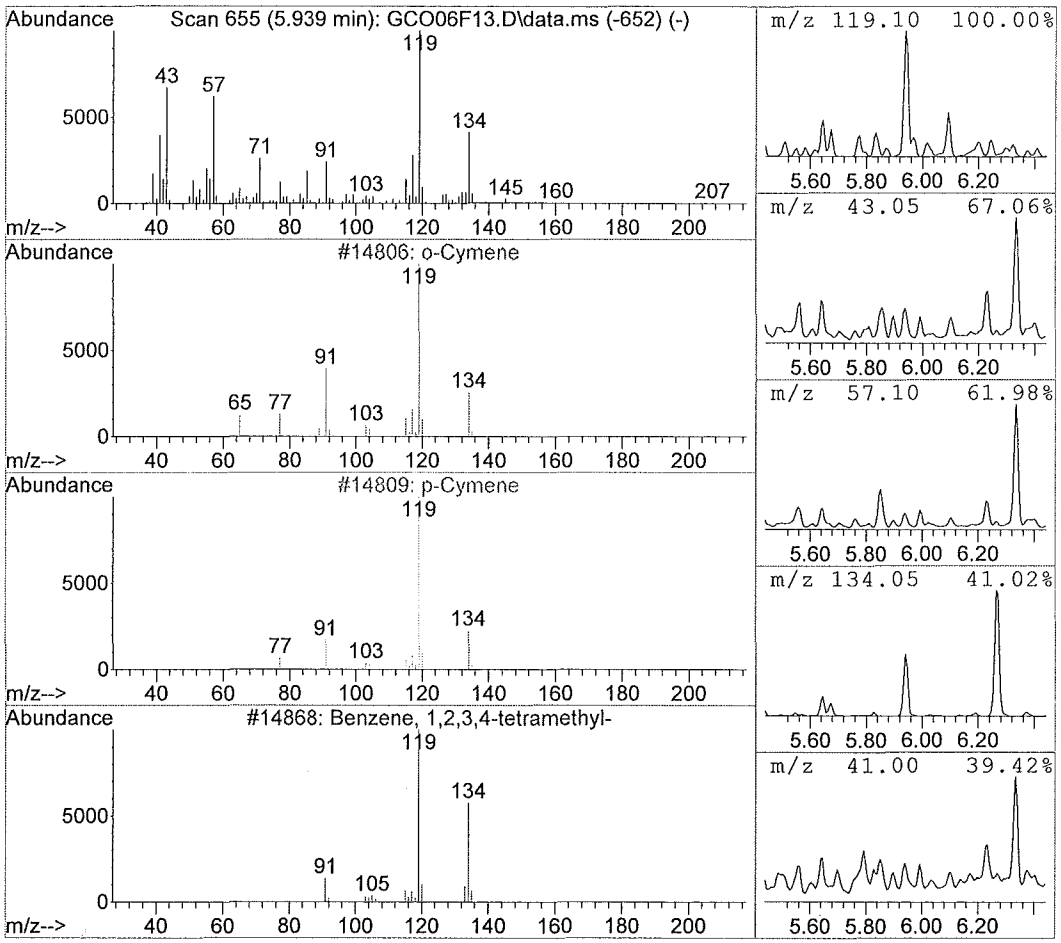
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.94	6.23 ug/ml	972697	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	o-Cymene	14806	000527-84-4	92.00
2	p-Cymene	14809	000099-87-6	70.00
3	Benzene, 1,2,3,4-tetramethyl-	14868	000488-23-3	70.00
4	Benzene, 1-methyl-3-(1-methylethyl)	14906	000535-77-3	70.00
5	Benzene, 1-ethyl-3,5-dimethyl-	14883	000934-74-7	70.00



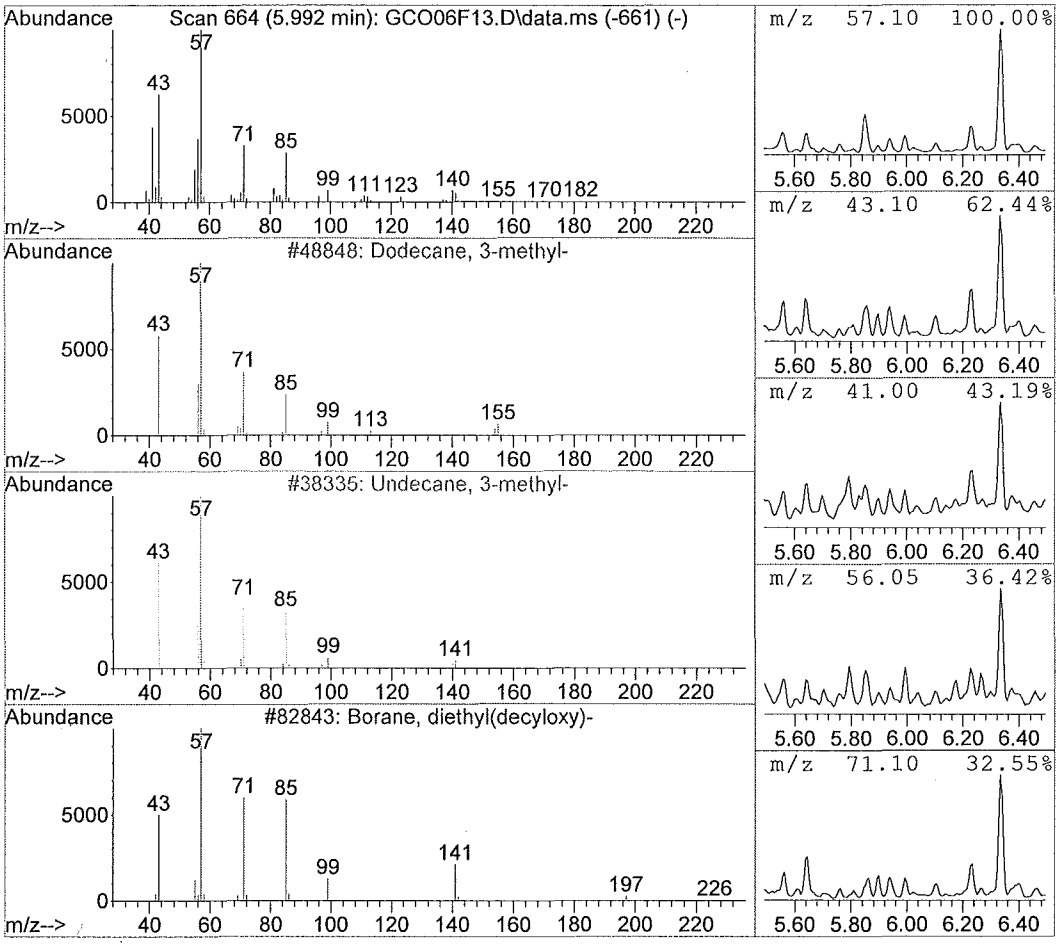
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.99	2.28 ug/ml	355697	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 3-methyl- BA	48848	017312-57-1	64.00
2	Undecane, 3-methyl-	38335	001002-43-3	59.00
3	Borane, diethyl(decyloxy)-	82843	1000152-34-3	50.00
4	Decane, 4-ethyl-	38320	001636-44-8	50.00
5	Decane, 1-iodo-	116706	002050-77-3	49.00



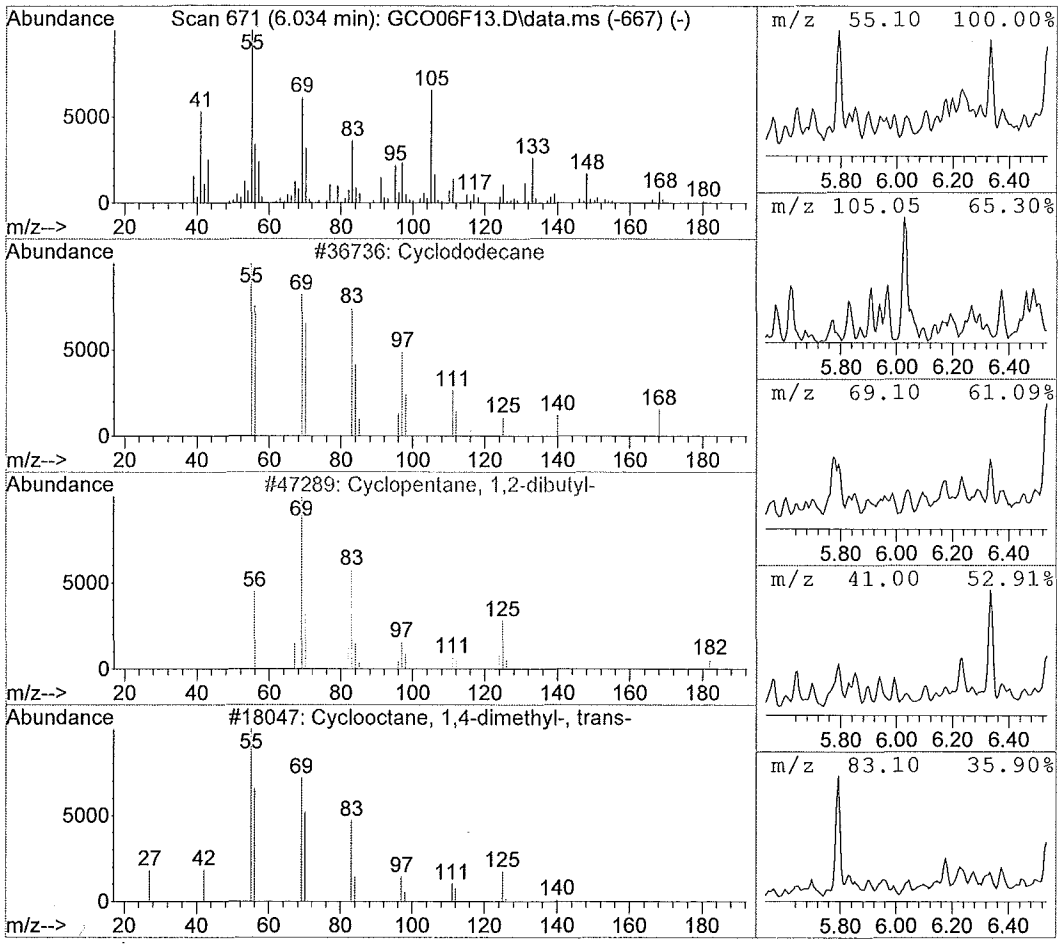
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.03	2.20 ug/ml	343359	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclododecane	36736	000294-62-2	43.00
2	Cyclopentane, 1,2-dibutyl- CA	47289	062199-52-4	35.00
3	Cyclooctane, 1,4-dimethyl-, trans-	18047	013151-98-9	27.00
4	Cyclohexane, 1,2,3-trimethyl-	11578	001678-97-3	27.00
5	11-Bromoundec-1-ene	87197	007766-50-9	27.00



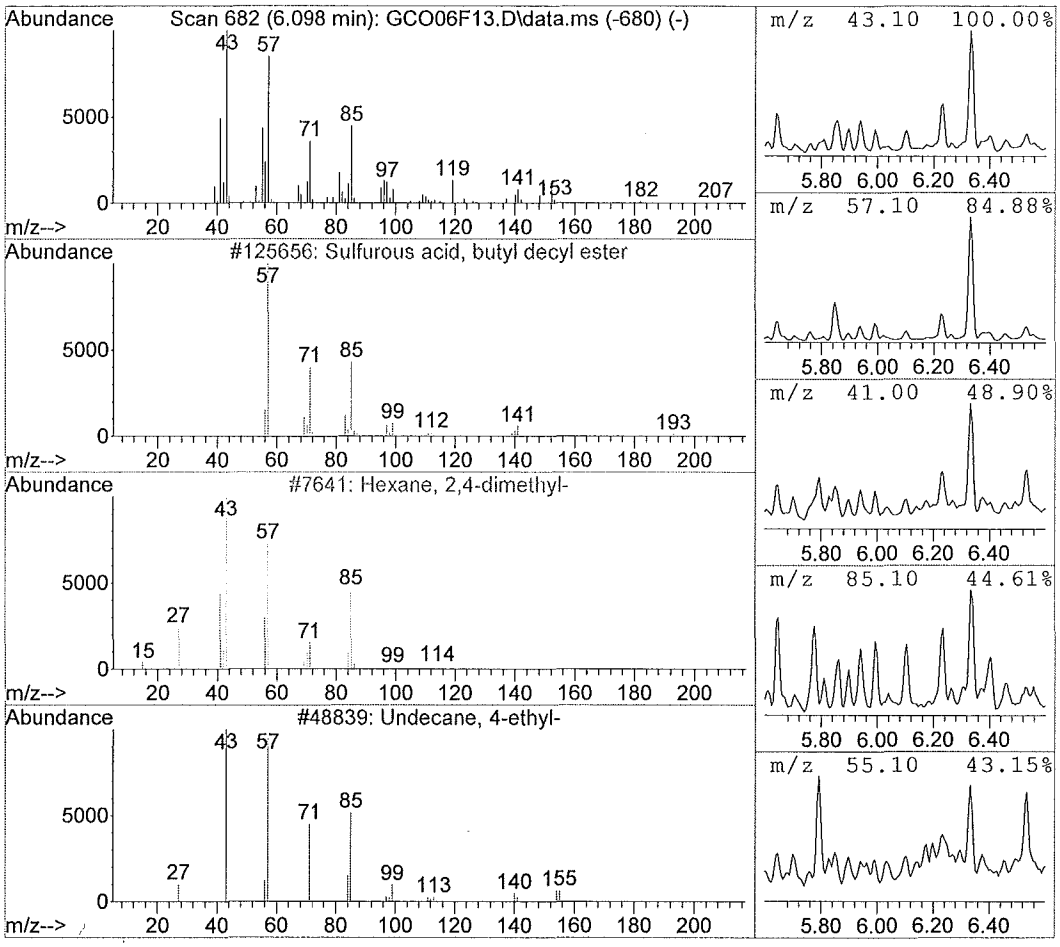
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.10	2.73 ug/ml	426291	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Sulfurous acid, butyl decyl ester	125656	1000309-17-7	50.00
2	Hexane, 2,4-dimethyl-	7641	000589-43-5	50.00
3	Undecane, 4-ethyl-	48839	017312-59-3	50.00
4	Undecane	28423	001120-21-4	47.00
5	Heptane, 2,4,6-trimethyl-	19205	002613-61-8	47.00



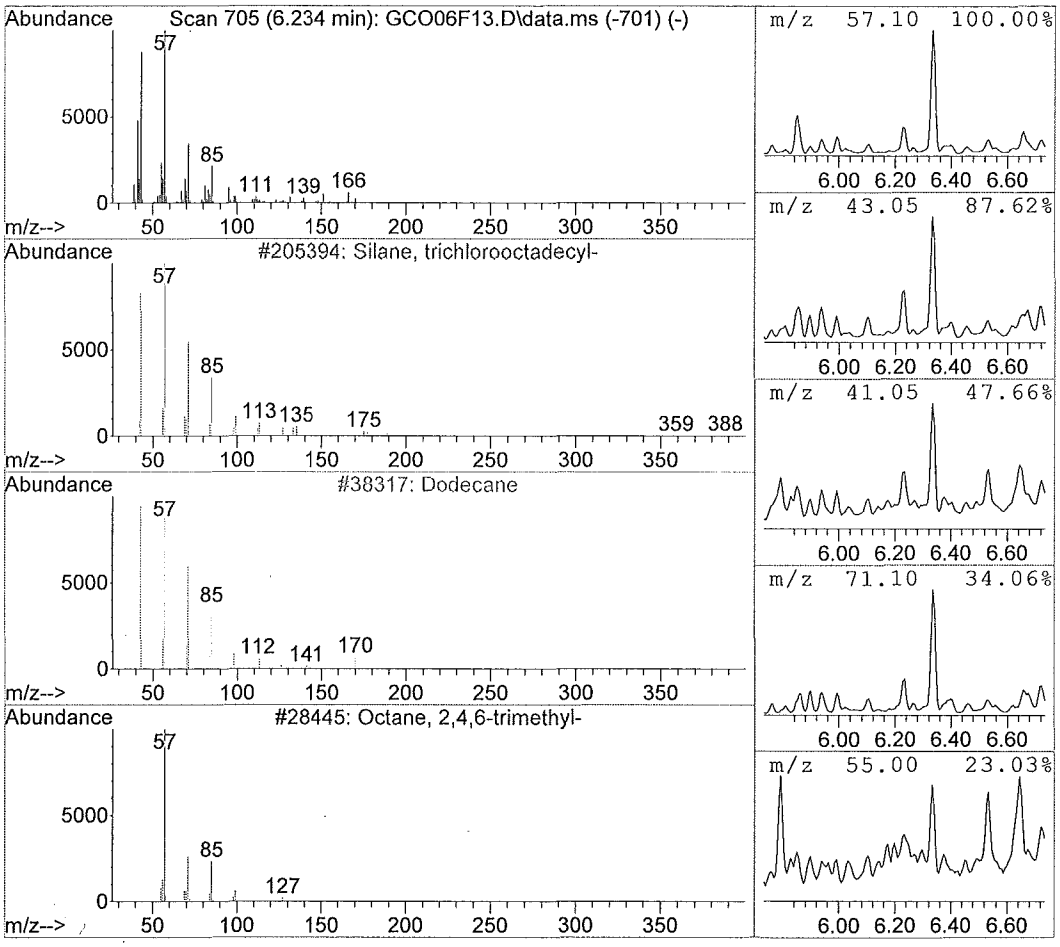
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.23	5.56 ug/ml	868201	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Silane, trichlorooctadecyl-	205394	000112-04-9	59.00
2	Dodecane	38317	000112-40-3	55.00
3	Octane, 2,4,6-trimethyl-	28445	062016-37-9	53.00
4	Undecane, 3-methyl-	38335	001002-43-3	53.00
5	Oxalic acid, isobutyl nonyl ester	120800	1000309-37-4	53.00



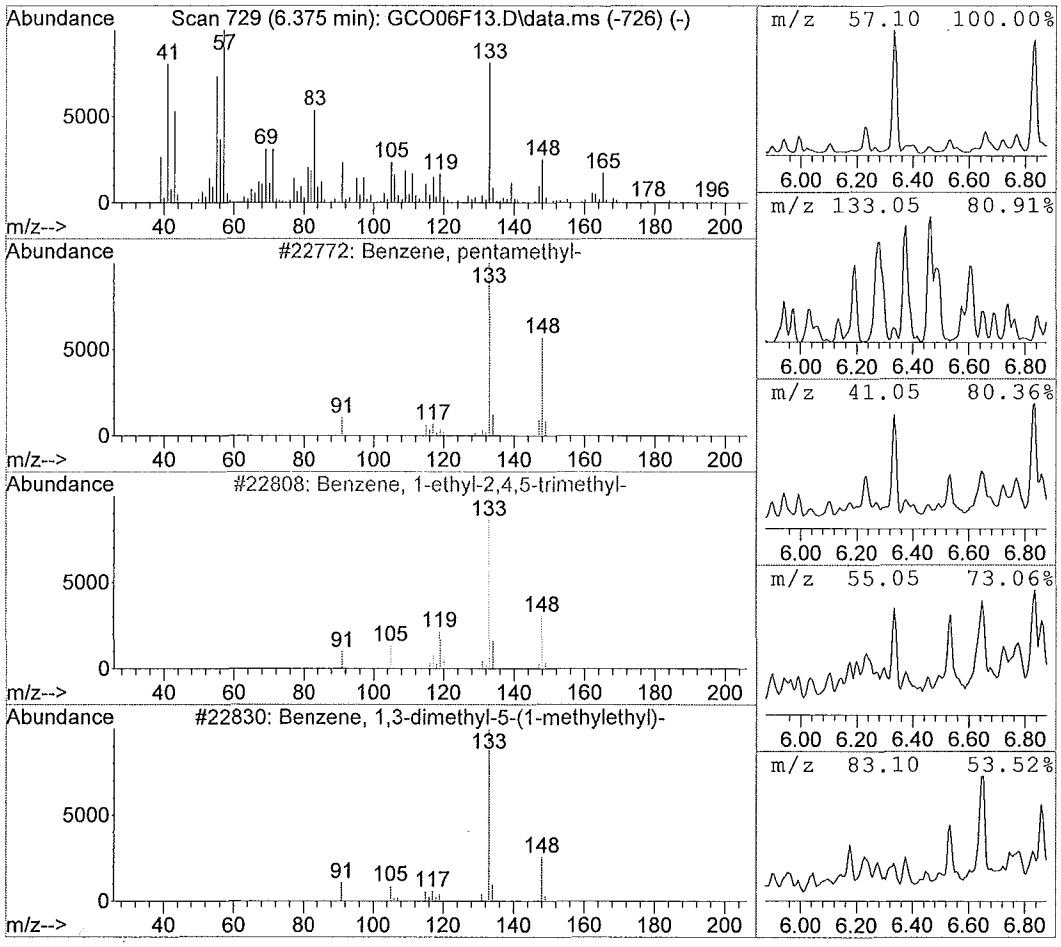
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.37	3.06 ug/ml	478259	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, pentamethyl-	22772	000700-12-9	55.00
2	Benzene, 1-ethyl-2,4,5-trimethyl-	22808	017851-27-3	55.00
3	Benzene, 1,3-dimethyl-5-(1-methylet	22830	004706-90-5	50.00
4	1,5,6,7-Tetramethylbicyclo[3.2.0]he	22848	134329-46-7	50.00
5	Ethanone, 1-(4-ethylphenyl)-	22671	000937-30-4	46.00



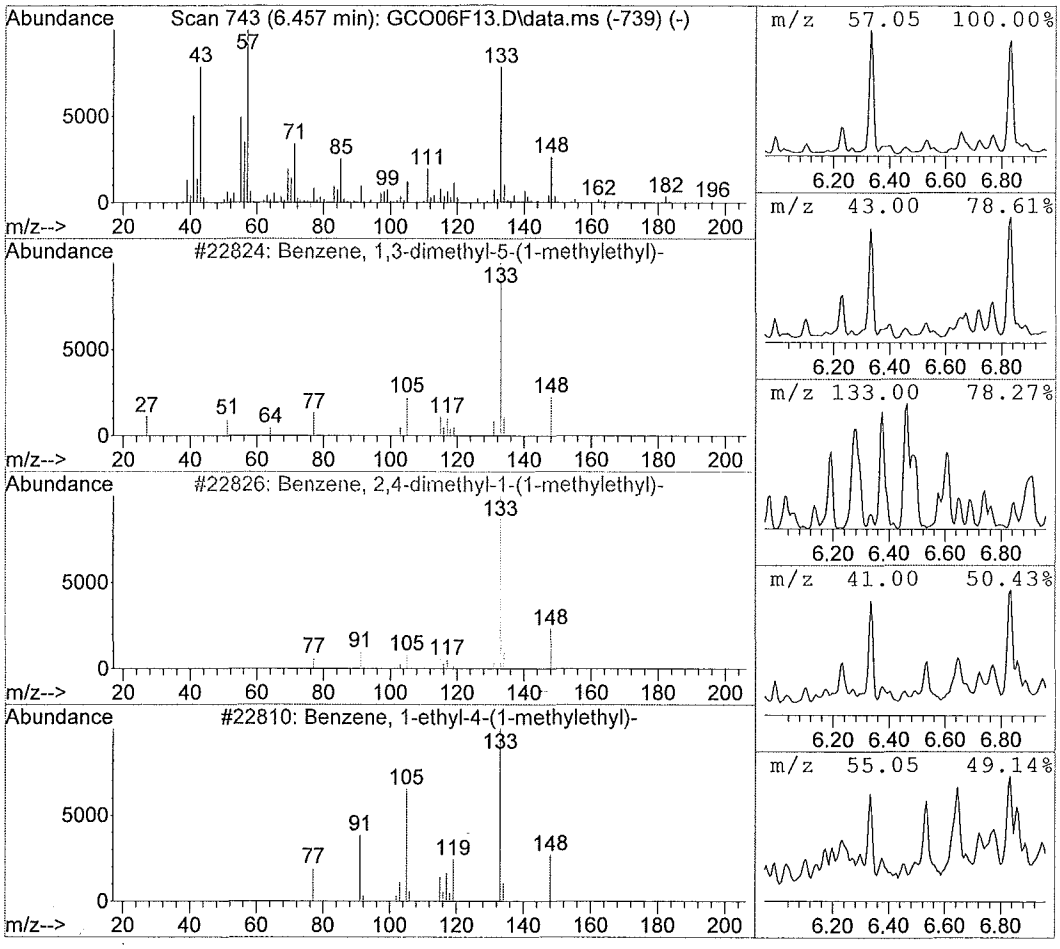
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.46	2.38 ug/ml	371760	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, 1,3-dimethyl-5-(1-methylet	22824	004706-90-5	50.00
2	Benzene, 2,4-dimethyl-1-(1-methylet	22826	004706-89-2	50.00
3	Benzene, 1-ethyl-4-(1-methylethyl)-	22810	004218-48-8	50.00
4	3,4-Dimethylcumene	22764	1000370-34-1	50.00
5	Benzene, pentamethyl-	22771	000700-12-9	50.00



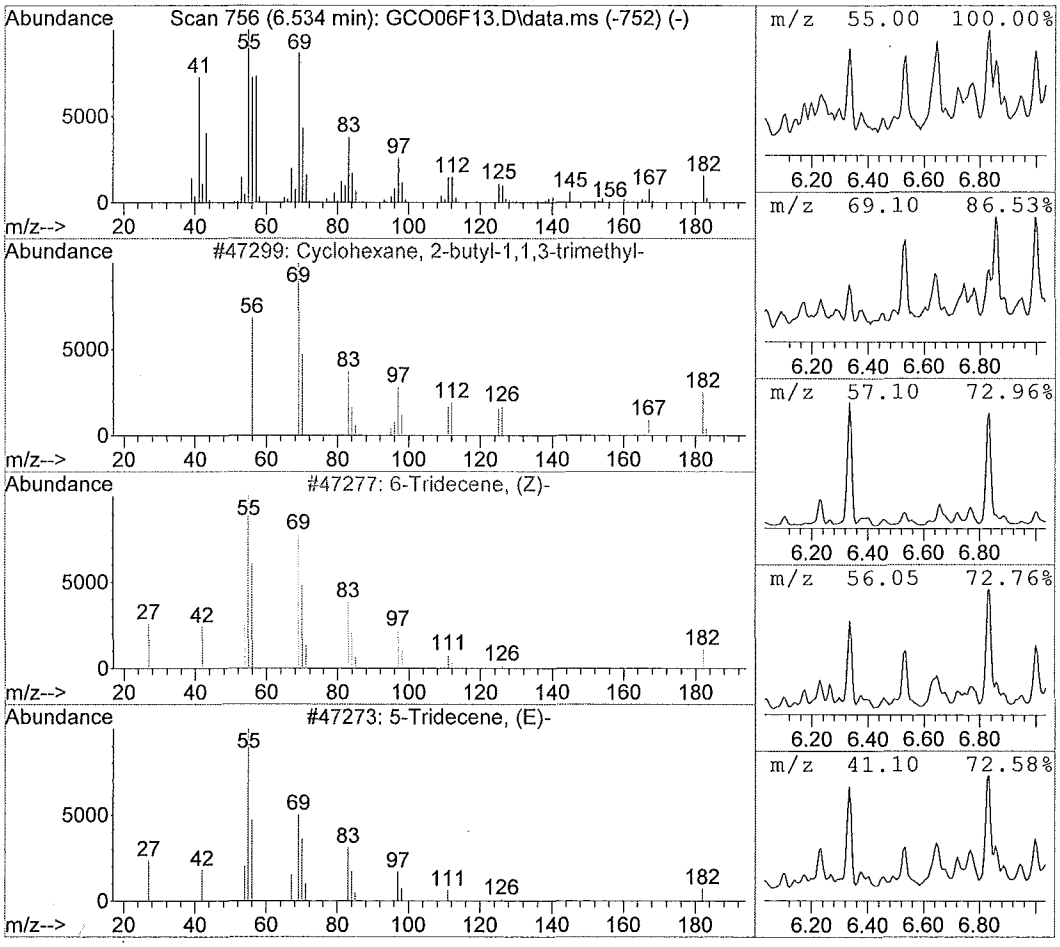
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.53	6.96 ug/ml	1086872	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 2-butyl-1,1,3-trimethy CA	47299	054676-39-0	97.00
2	6-Tridecene, (Z)-	47277	006508-77-6	91.00
3	5-Tridecene, (E)-	47273	023051-84-5	87.00
4	Cyclopentane, butyl-	11534	002040-95-1	74.00
5	6-Tridecene, (E)-	47276	006434-76-0	74.00



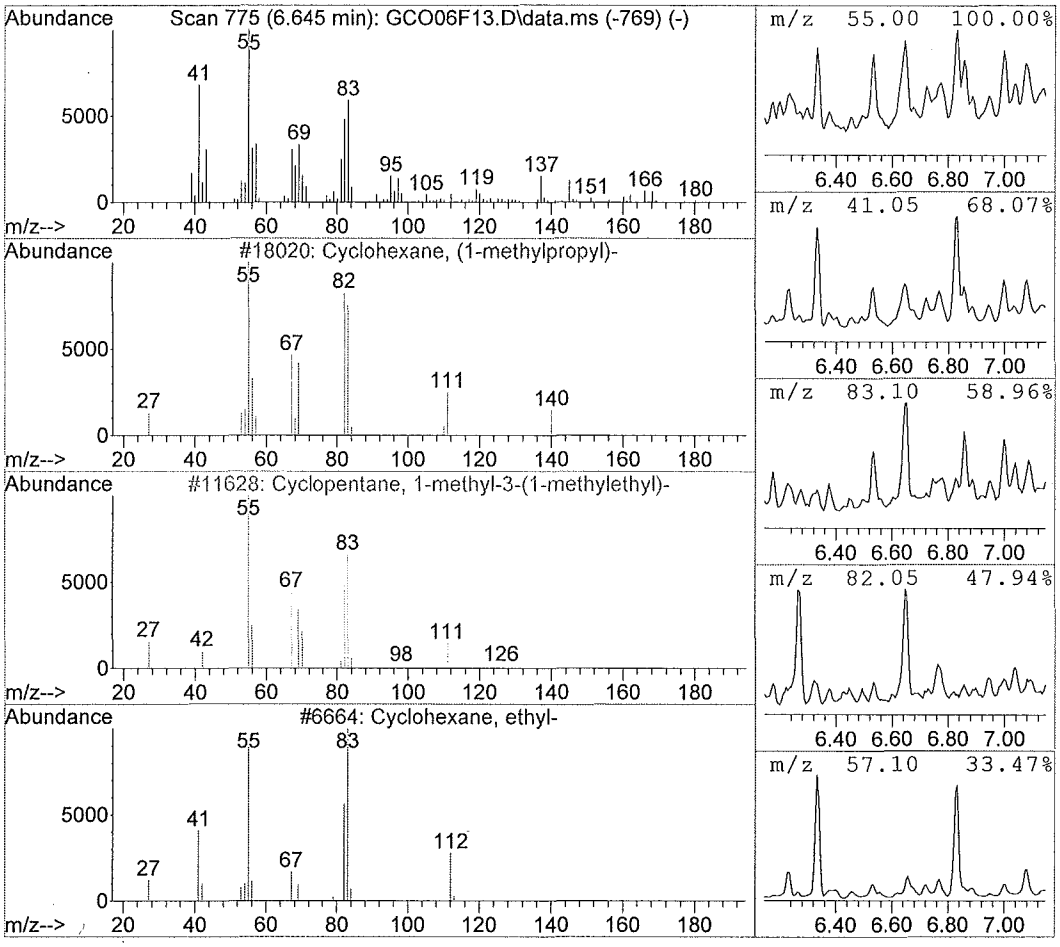
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.65	11.63 ug/ml	1817516	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, (1-methylpropyl)- CA	18020	007058-01-7	53.00
2	Cyclopentane, 1-methyl-3-(1-methyle	11628	053771-88-3	52.00
3	Cyclohexane, ethyl-	6664	001678-91-7	47.00
4	Cyclohexane, hexyl-	36764	004292-75-5	35.00
5	Cyclopentane, 1-methyl-2-(2-propeny	10726	050746-53-7	30.00



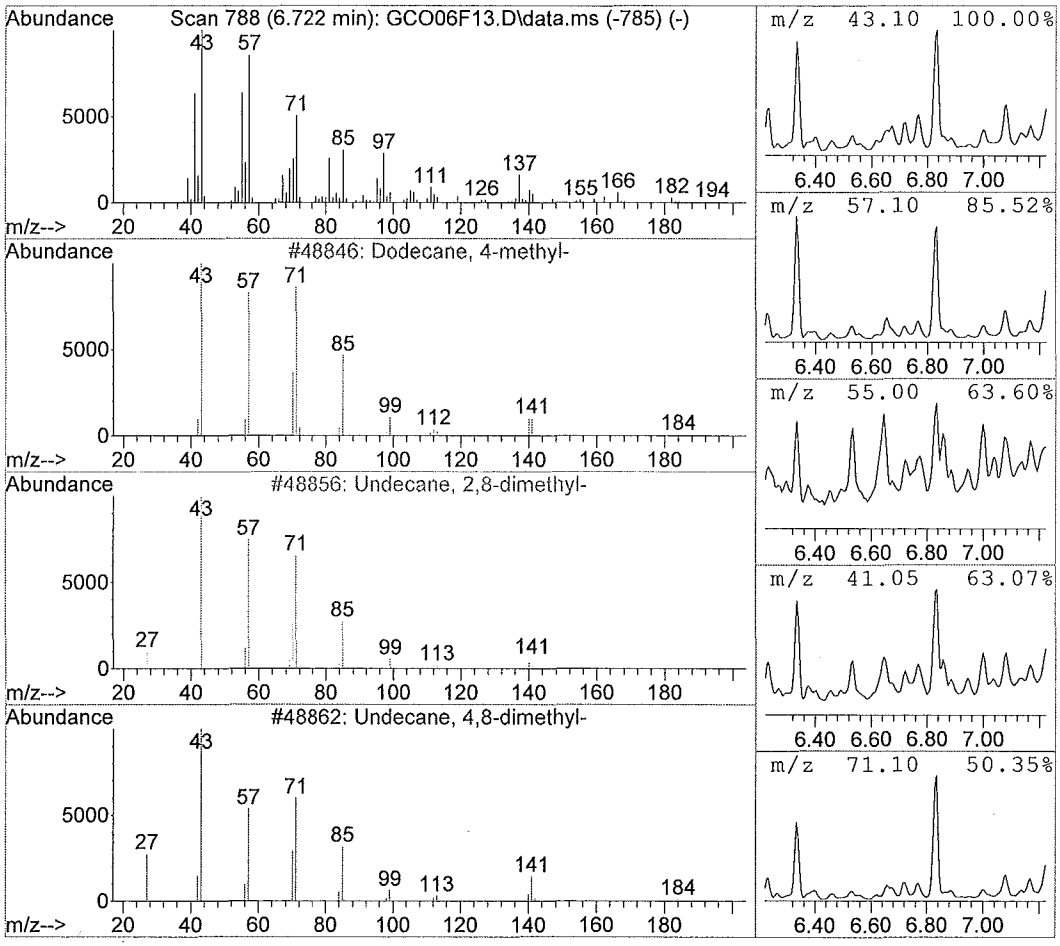
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.72	4.11 ug/ml	642138	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 4-methyl- BA	48846	006117-97-1	64.00
2	Undecane, 2,8-dimethyl-	48856	017301-25-6	50.00
3	Undecane, 4,8-dimethyl-	48862	017301-33-6	46.00
4	Dodecane, 2,6,11-trimethyl-	71408	031295-56-4	43.00
5	Decane, 2,4,6-trimethyl-	48885	062108-27-4	43.00



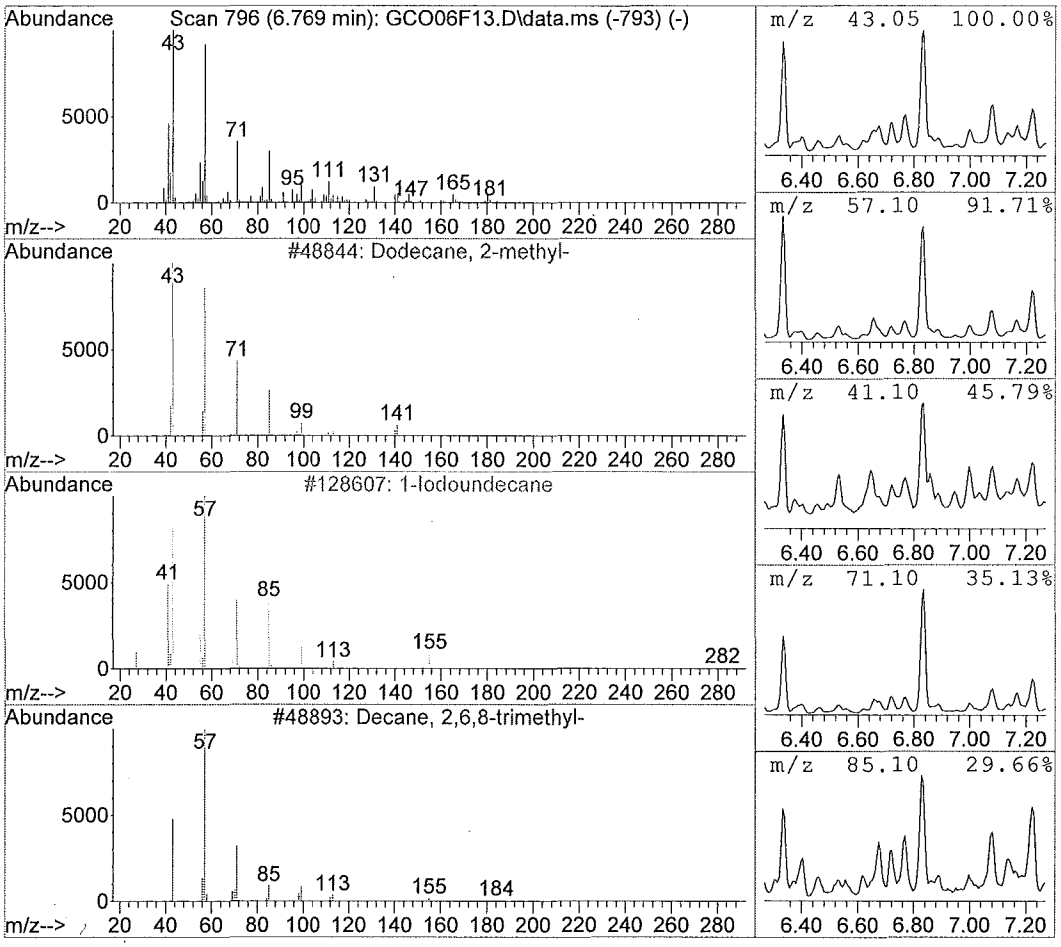
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.77	6.30 ug/ml	985029	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2-methyl- BA	48844	001560-97-0	58.00
2	1-Iodoundecane	128607	004282-44-4	47.00
3	Decane, 2,6,8-trimethyl-	48893	062108-26-3	45.00
4	Pentadecane, 2,6,10-trimethyl-	105904	003892-00-0	43.00
5	3-Dodecanone	48716	001534-27-6	43.00



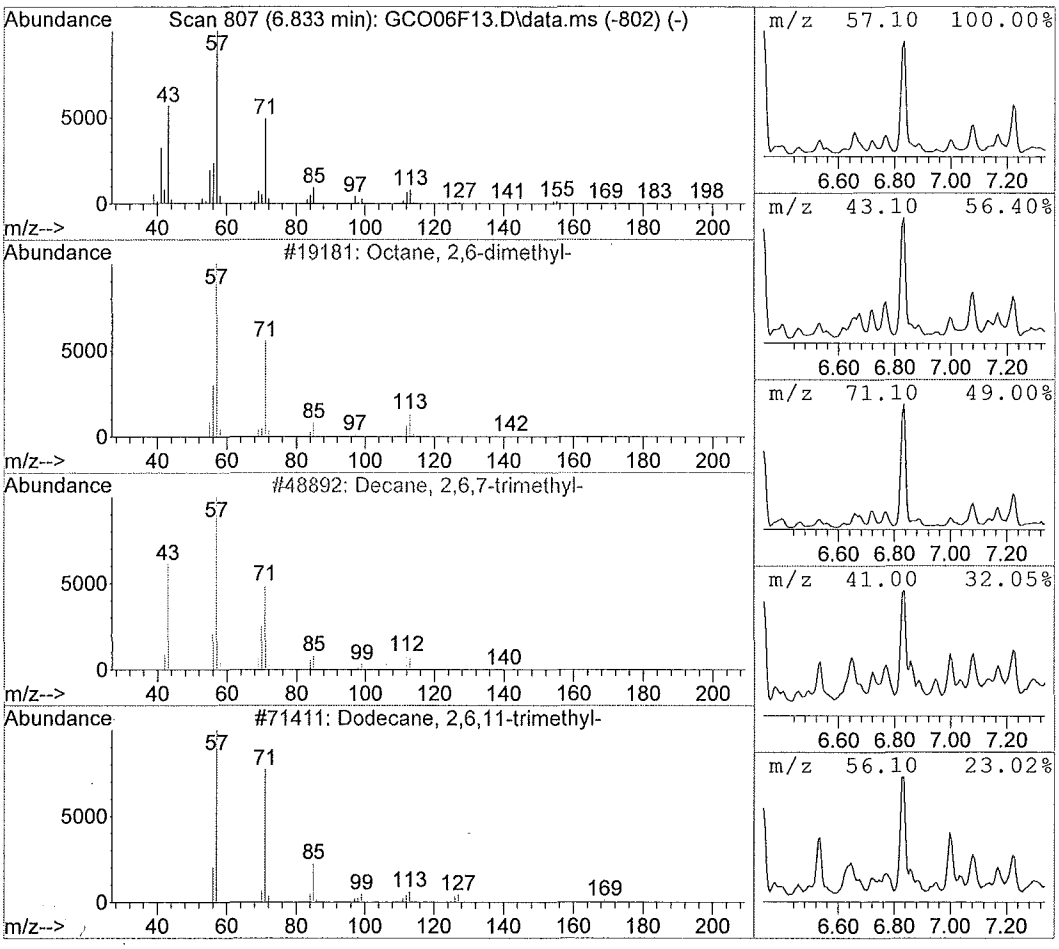
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.83	19.40 ug/ml	3031354	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 2,6-dimethyl- BA	19181	002051-30-1	78.00
2	Decane, 2,6,7-trimethyl-	48892	062108-25-2	78.00
3	Dodecane, 2,6,11-trimethyl-	71411	031295-56-4	72.00
4	Nonane, 3-methyl-	19167	005911-04-6	64.00
5	Octane, 3,6-dimethyl-	19185	015869-94-0	64.00



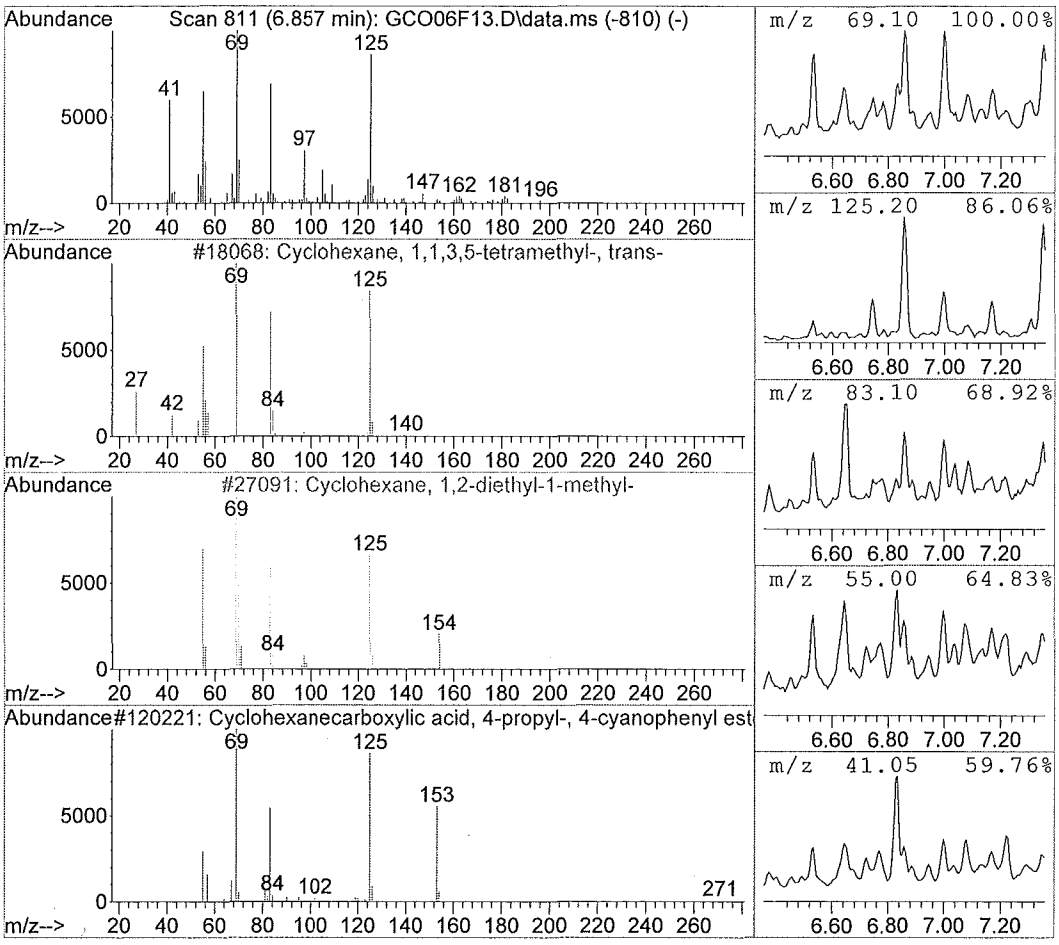
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.86	3.29 ug/ml	514117	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,1,3,5-tetramethyl-, CA	18068	050876-31-8	74.00
2	Cyclohexane, 1,2-diethyl-1-methyl-	27091	061141-79-5	64.00
3	Cyclohexanecarboxylic acid, 4-propy	120221	062439-33-2	53.00
4	2,2-Dimethyl-3-heptene trans	11576	019550-75-5	43.00
5	Imidazole, 2-acetamido-	10752	052737-49-2	38.00



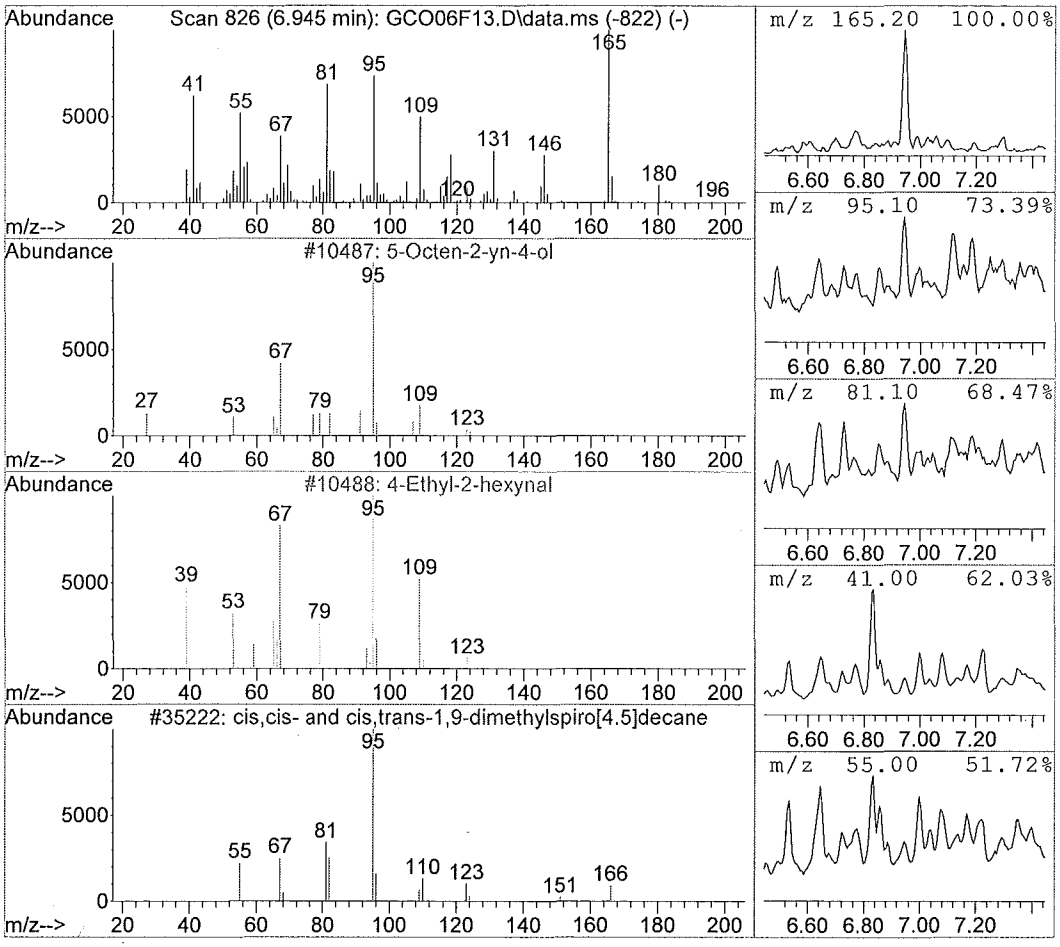
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.95	3.80 ug/ml	594154	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	5-Octen-2-yn-4-ol	10487	1000196-87-1	38.00
2	4-Ethyl-2-hexynal	10488	071932-97-3	38.00
3	cis,cis- and cis,trans-1,9-dimethyl	35222	1000111-72-5	27.00
4	1,4-Pentadiene, 2,3,3-trimethyl-	6020	000756-02-5	25.00
5	Cyclohexene,1-hexyl-	35169	003964-66-7	25.00



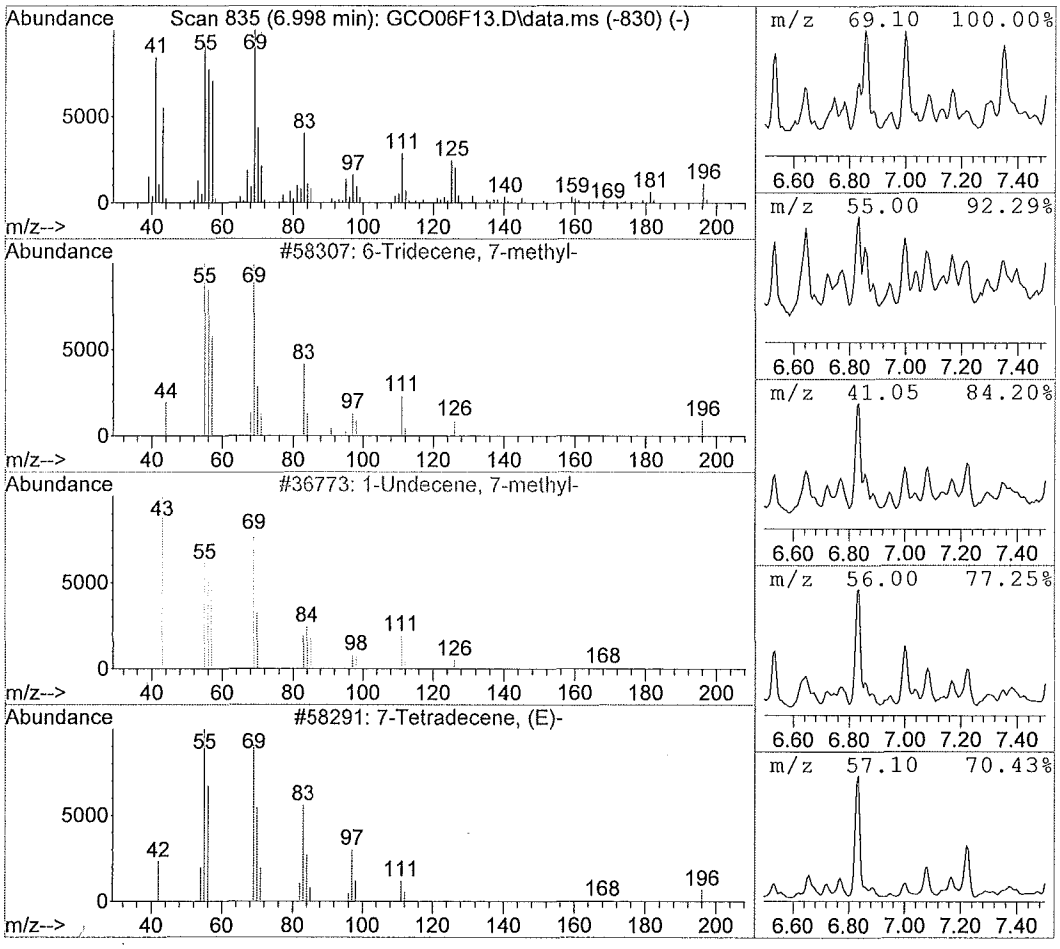
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.00	8.30 ug/ml	1297521	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	6-Tridecene, 7-methyl-	58307	024949-42-6	81.00
2	1-Undecene, 7-methyl-	36773	074630-42-5	72.00
3	7-Tetradecene, (E)-	58291	041446-63-3	72.00
4	Cyclopropane, 1,2-dimethyl-1-pentyl	18055	062238-04-4	64.00
5	Cyclopentane, (2-methylbutyl)-	18023	053366-38-4	60.00



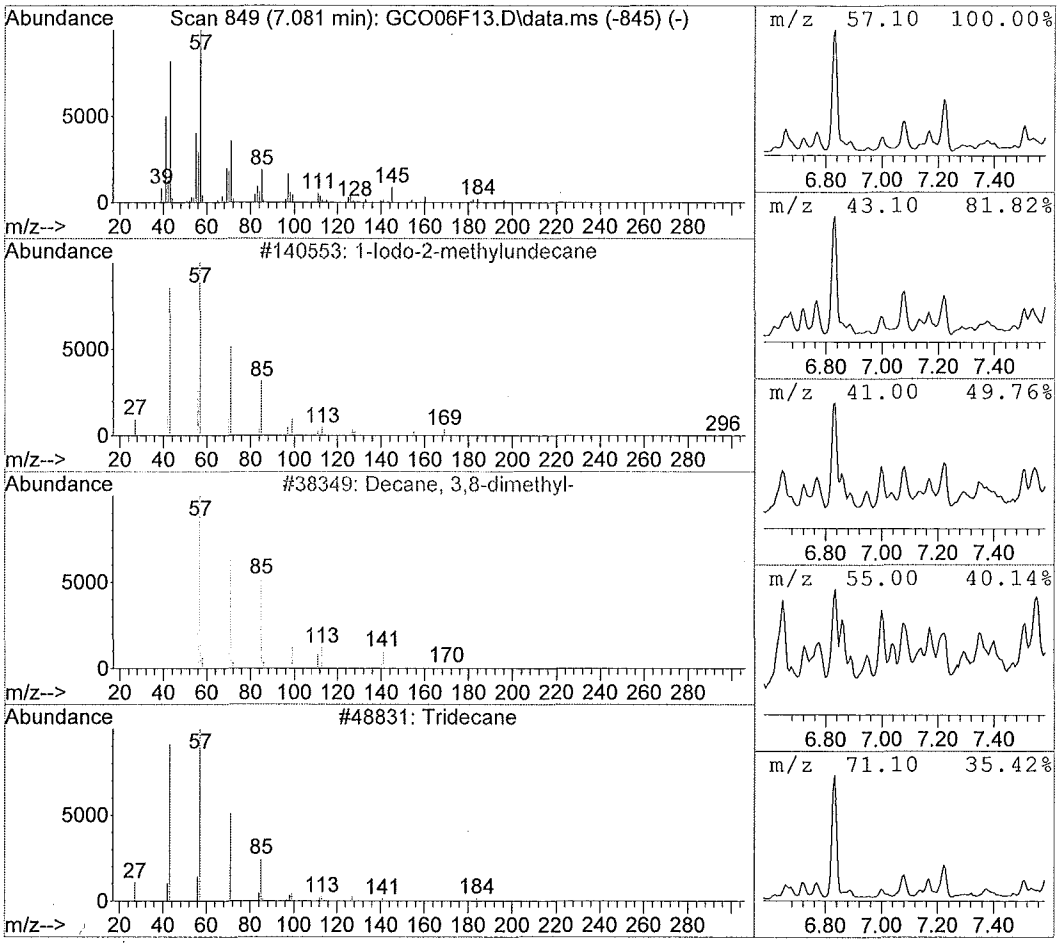
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.08	6.43 ug/ml	1004239	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Iodo-2-methylundecane	140553	073105-67-6	53.00
2	Decane, 3,8-dimethyl-	38349	017312-55-9	53.00
3	Tridecane	48831	000629-50-5	50.00
4	1-Hexene, 5,5-dimethyl-	6716	007116-86-1	49.00
5	Oxalic acid, isobutyl octyl ester	108842	1000309-37-3	47.00



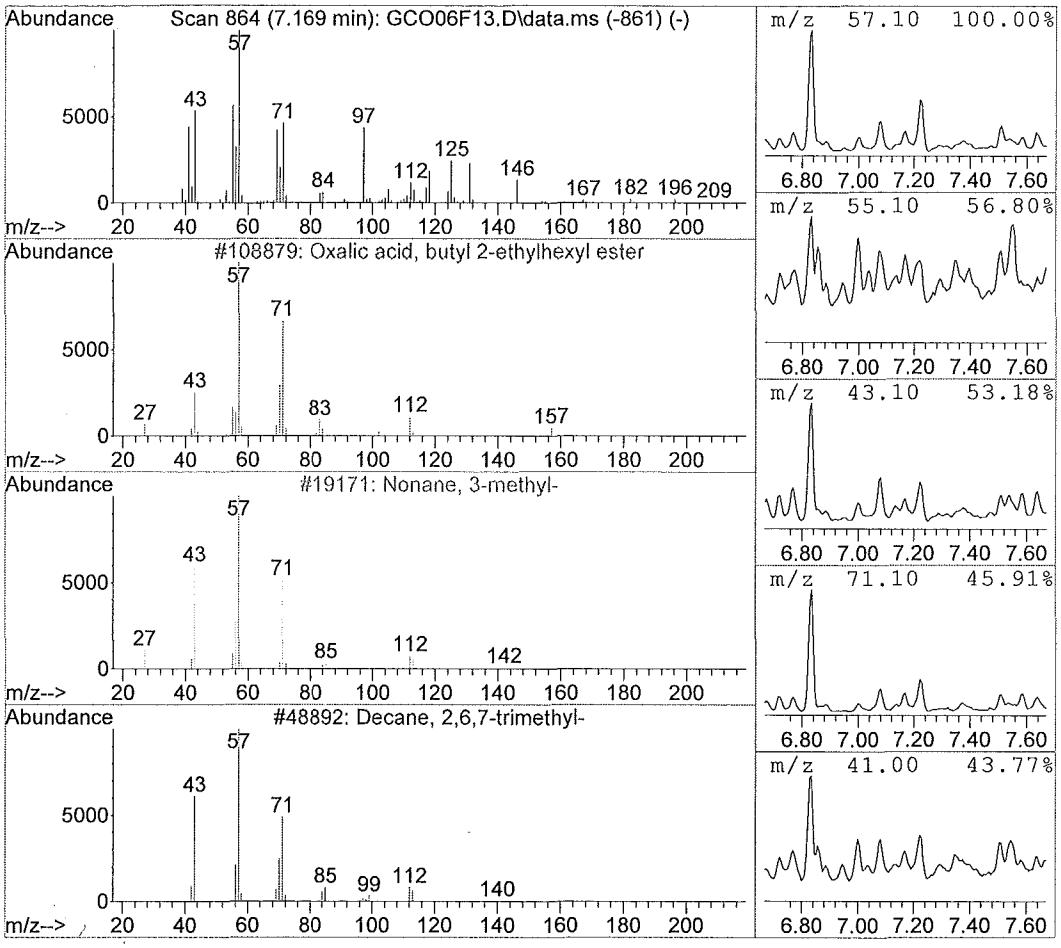
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.17	2.86 ug/ml	447358	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Oxalic acid, butyl 2-ethylhexyl est	108879	1000309-38-6	35.00
2	Nonane, 3-methyl-	19171	005911-04-6	35.00
3	Decane, 2,6,7-trimethyl-	48892	062108-25-2	35.00
4	Decane, 3,4-dimethyl-	38345	017312-45-7	35.00
5	Oxalic acid, isobutyl pentyl ester	73873	1000309-37-0	27.00



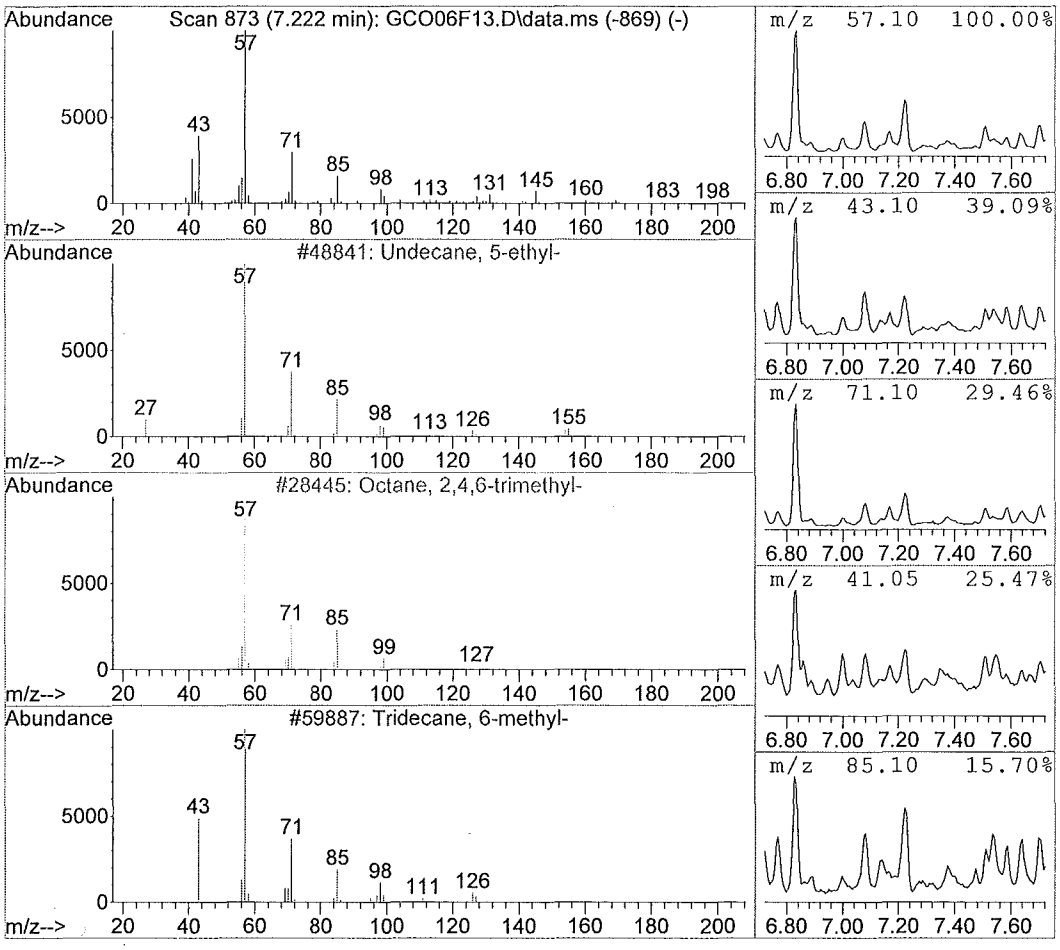
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.22	10.02 ug/ml	1565347	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 5-ethyl- BA	48841	017453-94-0	64.00
2	Octane, 2,4,6-trimethyl-	28445	062016-37-9	59.00
3	Tridecane, 6-methyl-	59887	013287-21-3	59.00
4	3-Hexanone, 2,4-dimethyl-	12595	018641-70-8	50.00
5	Dodecane	38317	000112-40-3	50.00



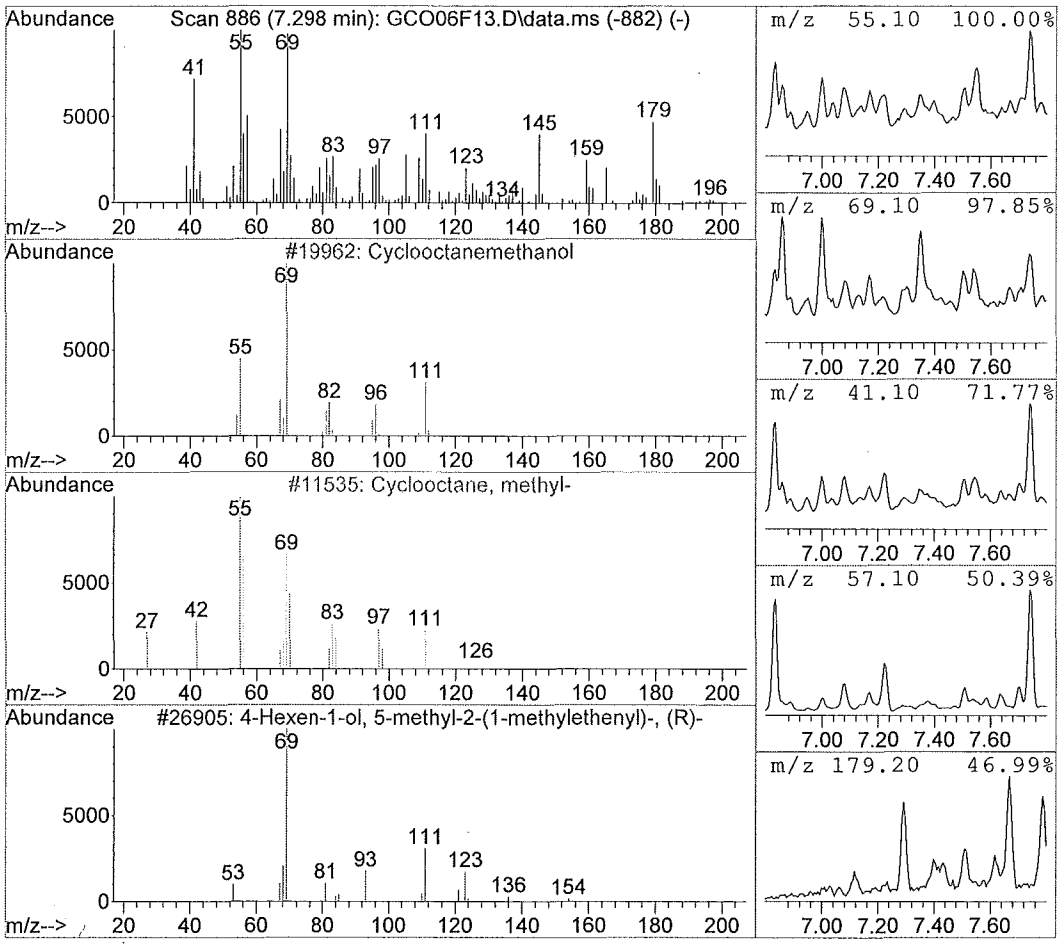
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.30	3.25 ug/ml	508072	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclooctanemethanol	19962	003637-63-6	27.00
2	Cyclooctane, methyl-	11535	001502-38-1	22.00
3	4-Hexen-1-ol, 5-methyl-2-(1-methyle	26905	000498-16-8	22.00
4	Cyclopentane, (2-methylbutyl)-	18023	053366-38-4	22.00
5	Geraniol	26608	000106-24-1	18.00



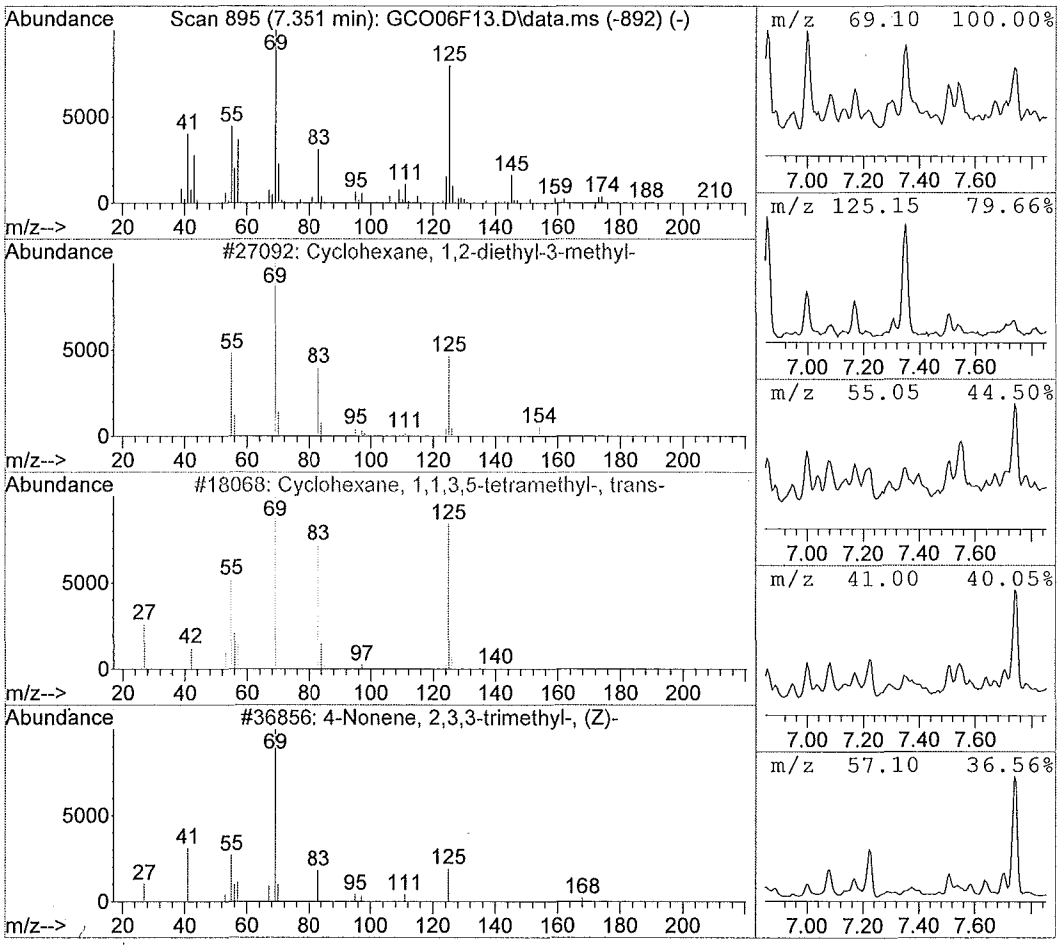
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.35	3.19 ug/ml	497679	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,2-diethyl-3-methyl- CA	27092	061141-80-8	64.00
2	Cyclohexane, 1,1,3,5-tetramethyl-,	18068	050876-31-8	53.00
3	4-Nonene, 2,3,3-trimethyl-, (Z)-	36856	063830-68-2	45.00
4	Cyclohexane, 1,1,4,4-tetramethyl-	18044	002223-52-1	45.00
5	Cyclohexane, 2,4-diethyl-1-methyl-	27090	061142-70-9	38.00



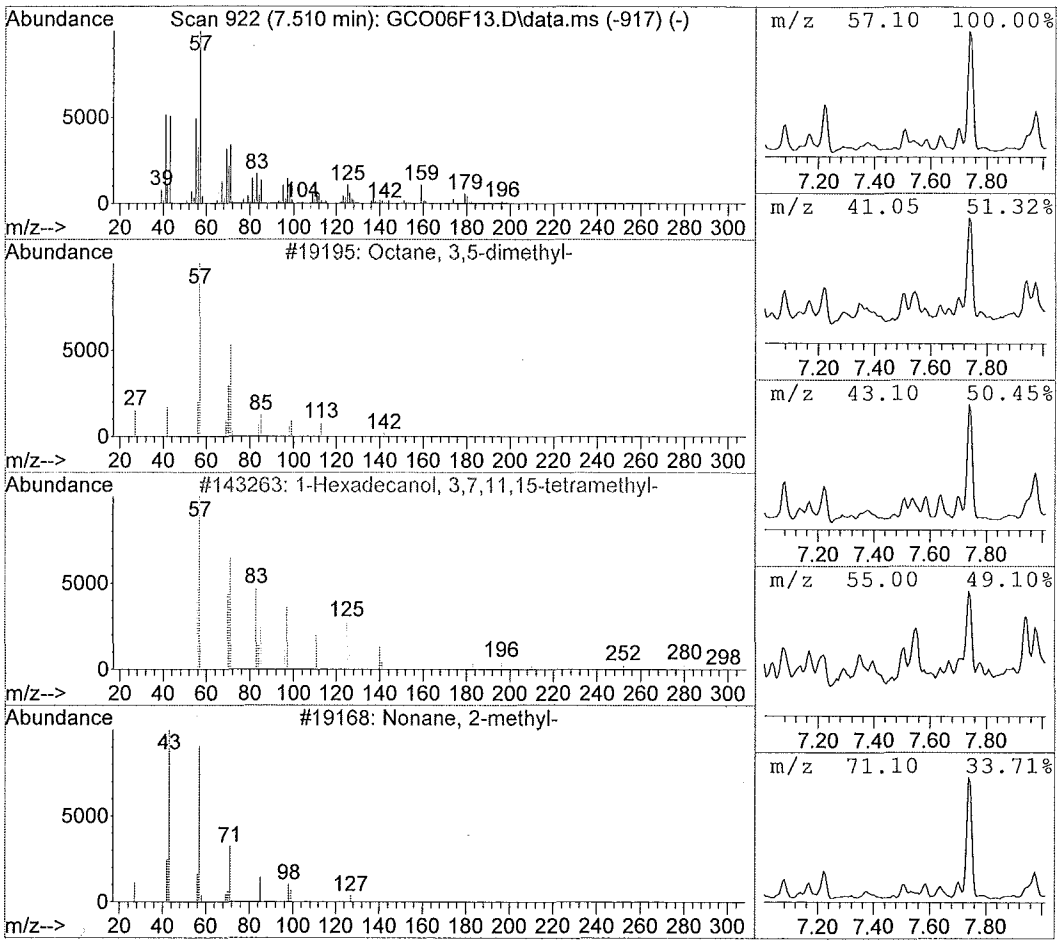
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.51	6.41 ug/ml	1002241	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 3,5-dimethyl-	19195	015869-93-9	43.00
2	1-Hexadecanol, 3,7,11,15-tetramethy BA	143263	000645-72-7	43.00
3	Nonane, 2-methyl-	19168	000871-83-0	43.00
4	Octane, 4-ethyl-	19162	015869-86-0	38.00
5	2-Tridecene, (Z)-	47271	041446-59-7	38.00



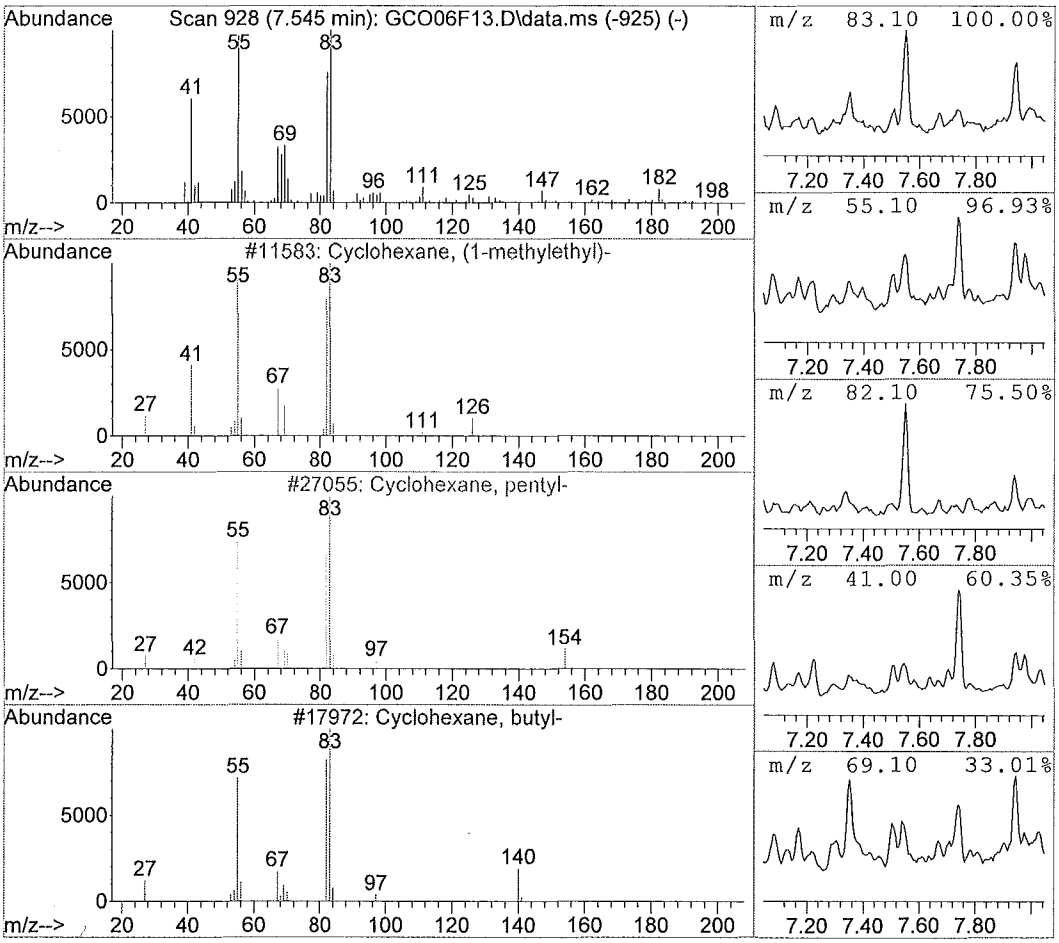
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.55	5.19 ug/ml	810614	Naphthalene-d8	3124744

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, (1-methylethyl)- CP	11583	000696-29-7	74.00
2	Cyclohexane, pentyl-	27055	004292-92-6	64.00
3	Cyclohexane, butyl-	17972	001678-93-9	64.00
4	Heptylcyclohexane	47278	005617-41-4	64.00
5	Pyridine, 1-acetyl-1,2,3,4-tetrahyd	10869	019615-27-1	59.00



Library Search Compound Report

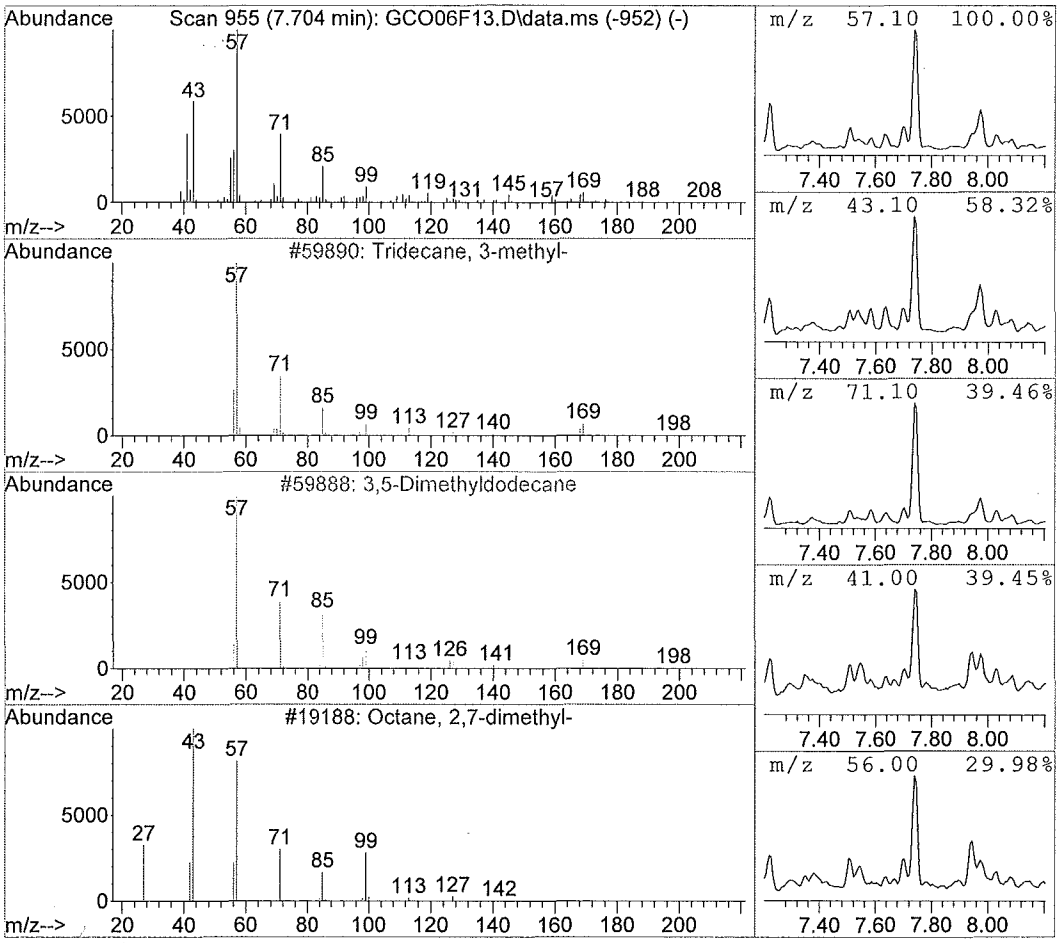
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.70	2.73 ug/ml	598645	Acenaphthene-d10	4380184

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 3-methyl-	59890	006418-41-3	91.00
2	3,5-Dimethyldodecane	59888	107770-99-0	68.00
3	Octane, 2,7-dimethyl-	19188	001072-16-8	64.00
4	Dodecane, 3-methyl-	48848	017312-57-1	64.00
5	Tridecane, 4-methyl-	59884	026730-12-1	53.00

BA



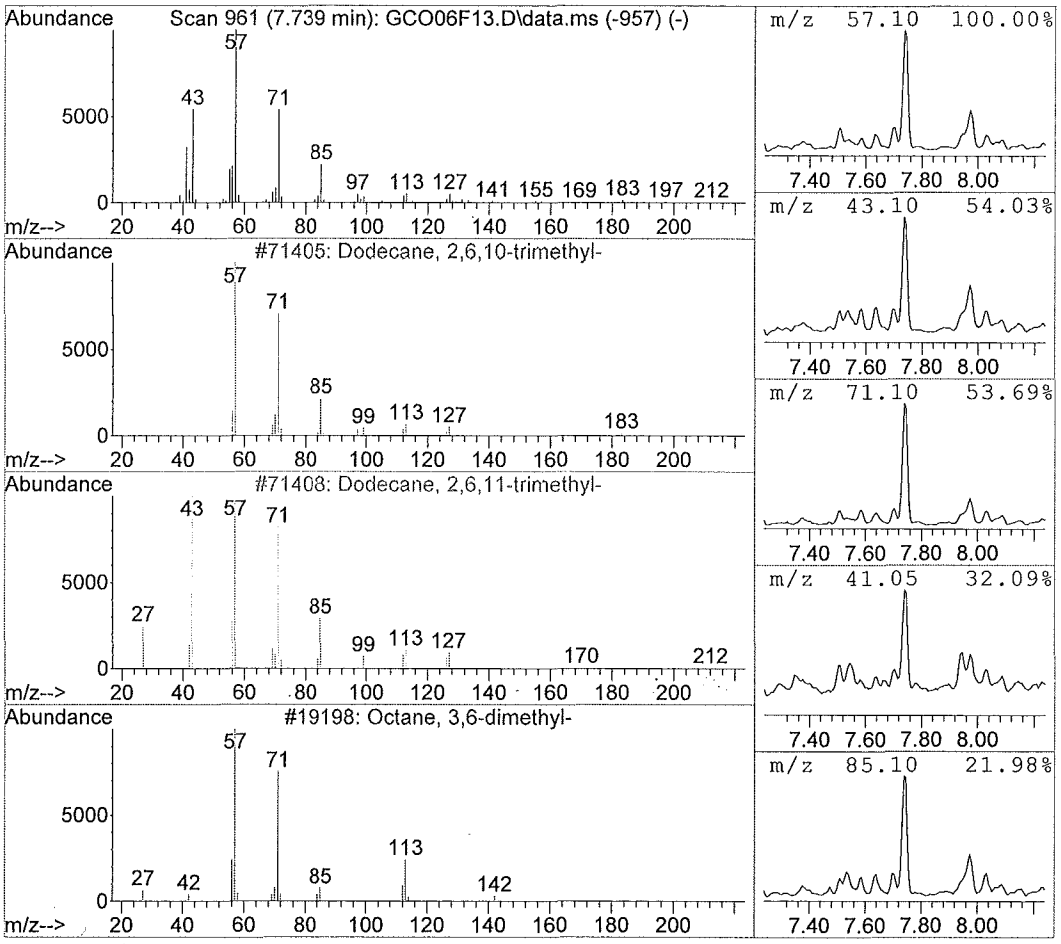
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.74	15.90 ug/ml	3483243	Acenaphthene-d10	4380184

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2,6,10-trimethyl-	71405	003891-98-3	80.00
2	Dodecane, 2,6,11-trimethyl-	71408	031295-56-4	70.00
3	Octane, 3,6-dimethyl-	19198	015869-94-0	59.00
4	Hexadecane	83025	000544-76-3	59.00
5	Nonane, 5-(1-methylpropyl)-	48917	062185-54-0	59.00



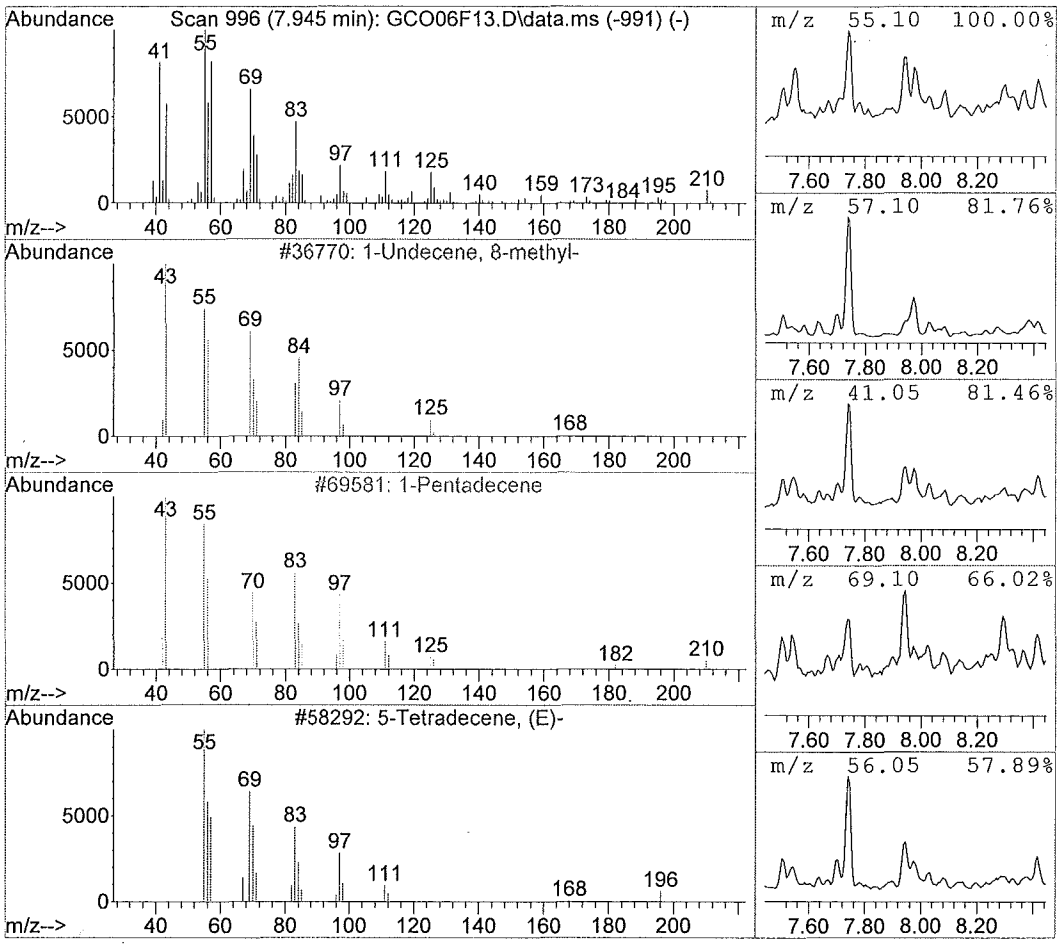
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.95	6.26 ug/ml	1370430	Acenaphthene-d10	4380184

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Undecene, 8-methyl-	36770	074630-40-3	91.00
2	1-Pentadecene	69581	013360-61-7	81.00
3	5-Tetradecene, (E)-	58292	041446-66-6	70.00
4	4-Tetradecene, (E)-	58284	041446-78-0	70.00
5	Cyclopropane, 1-(1-methylethyl)-2-n	69593	041977-39-3	70.00



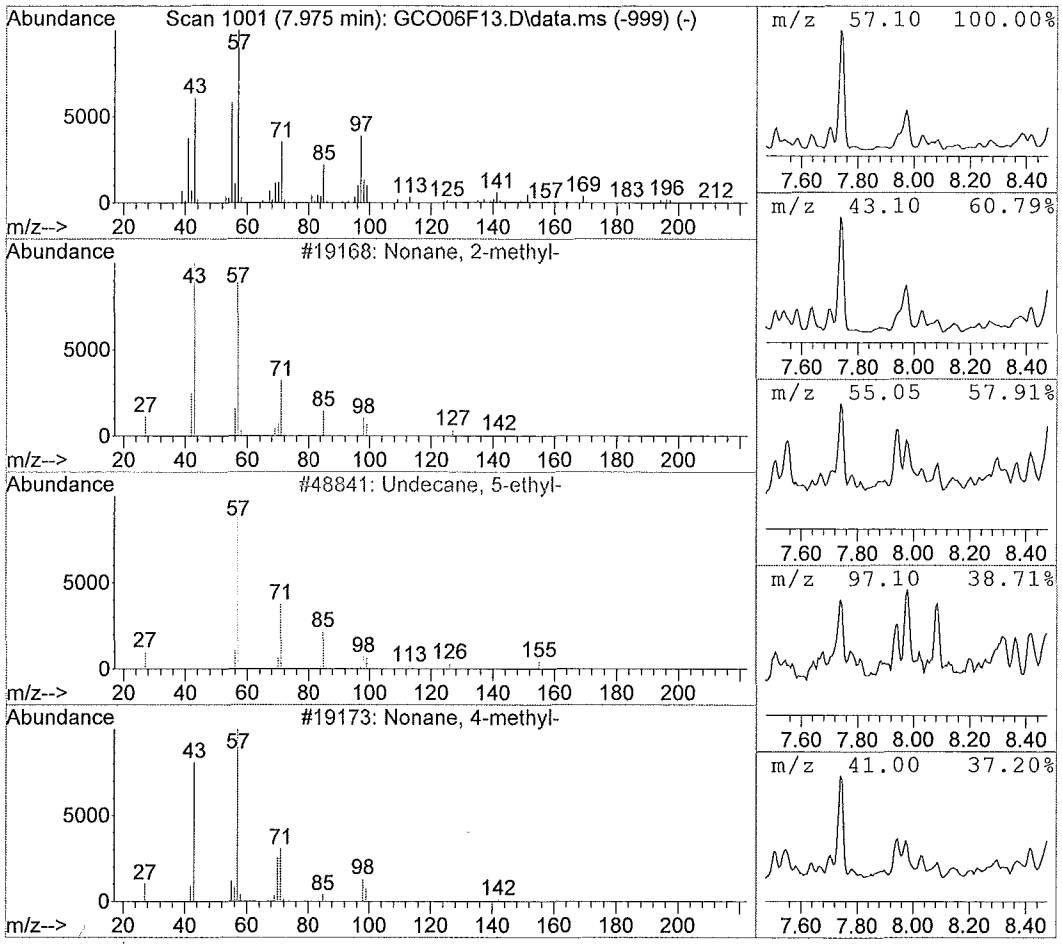
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.97	5.88 ug/ml	1287326	Acenaphthene-d10	4380184

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonane, 2-methyl- BA	19168	000871-83-0	46.00
2	Undecane, 5-ethyl-	48841	017453-94-0	43.00
3	Nonane, 4-methyl-	19173	017301-94-9	38.00
4	Decane, 6-ethyl-2-methyl-	48909	062108-21-8	38.00
5	1-Hexene, 5,5-dimethyl-	6716	007116-86-1	38.00



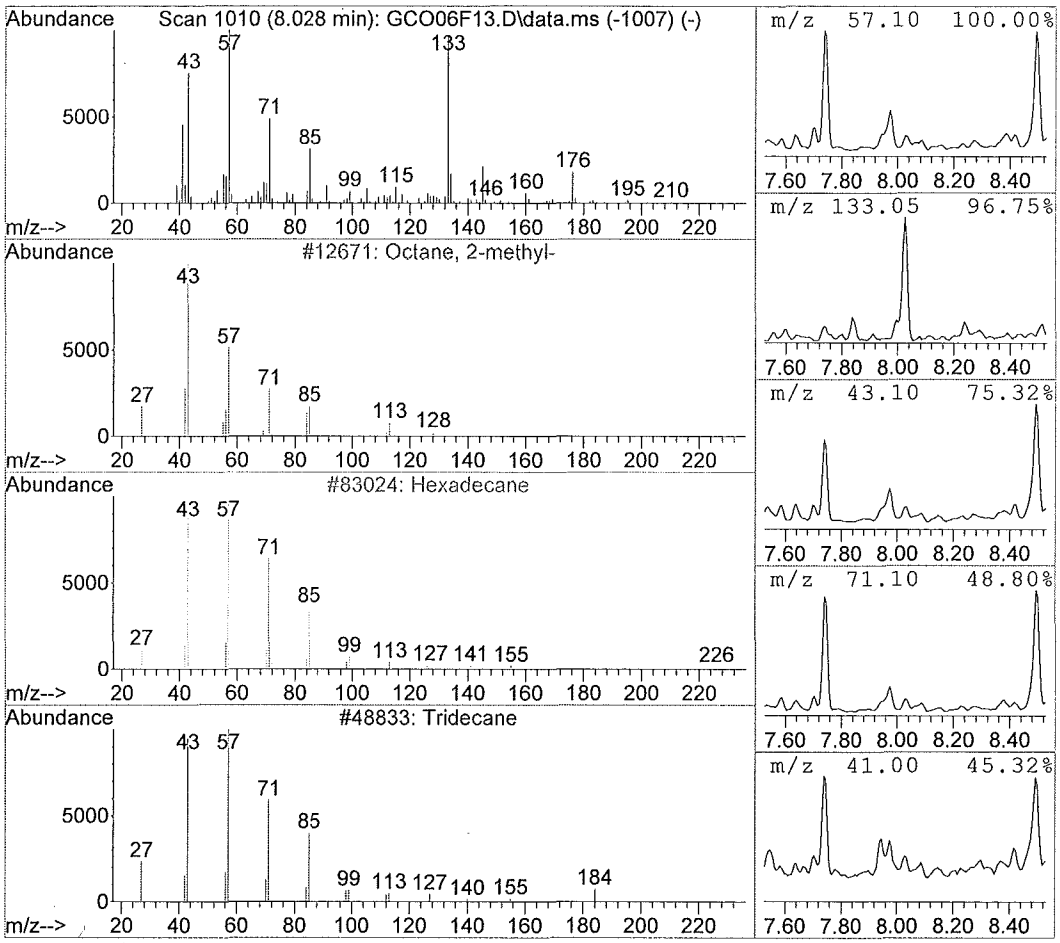
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.03	3.49 ug/ml	764238	Acenaphthene-d10	4380184

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 2-methyl- BA	12671	003221-61-2	30.00
2	Hexadecane	83024	000544-76-3	25.00
3	Tridecane	48833	000629-50-5	25.00
4	Tetradecane	59879	000629-59-4	25.00
5	Undecane, 3-methyl-	38327	001002-43-3	25.00



:00431

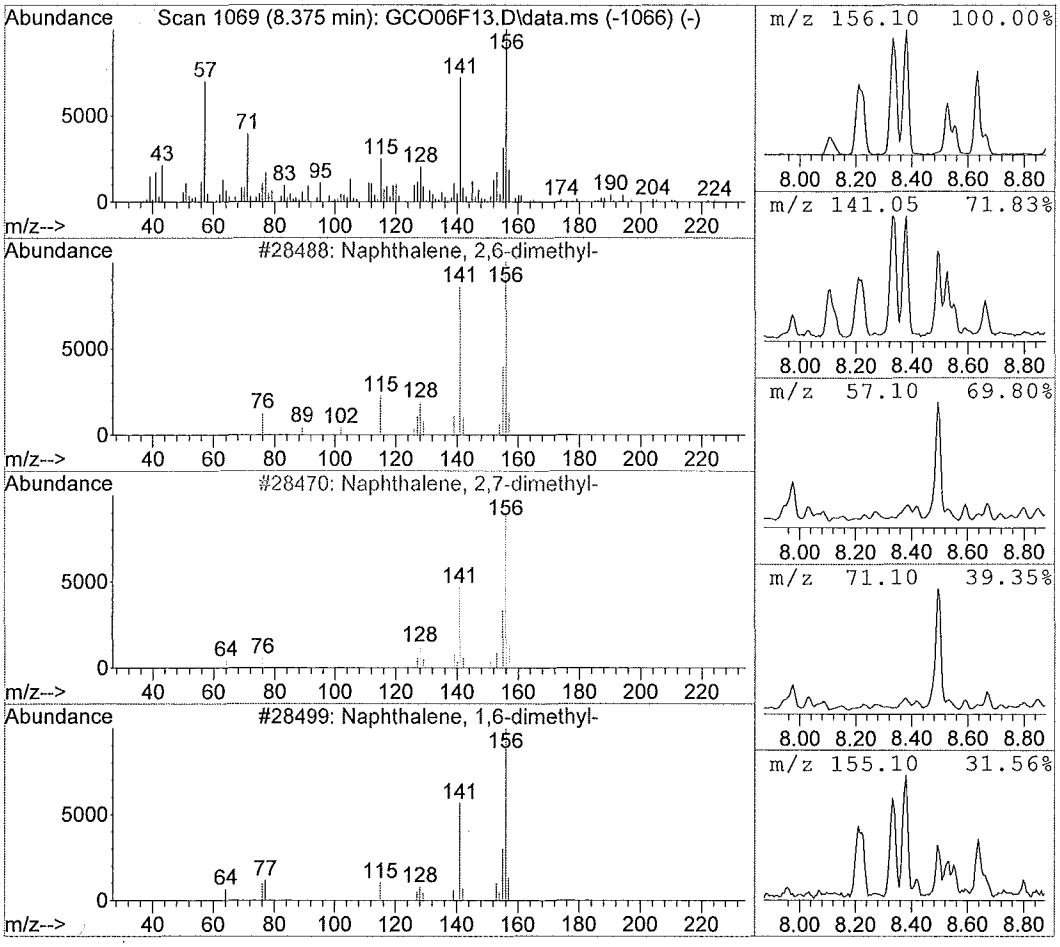
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.37	2.57 ug/ml	563230	Acenaphthene-d10	4380184

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	28488	000581-42-0	95.00
2	Naphthalene, 2,7-dimethyl-	28470	000582-16-1	94.00
3	Naphthalene, 1,6-dimethyl-	28499	000575-43-9	93.00
4	Naphthalene, 1,3-dimethyl-	28496	000575-41-7	93.00
5	Naphthalene, 1,7-dimethyl-	28474	000575-37-1	91.00



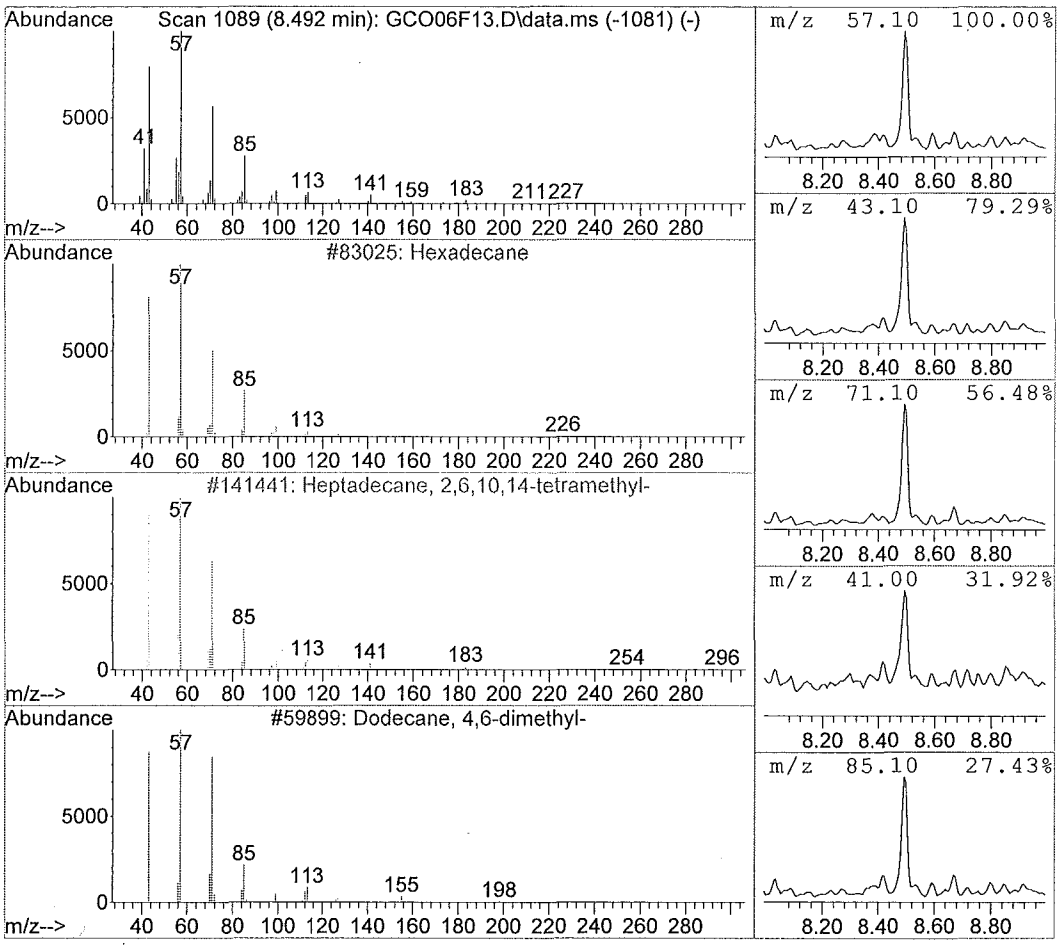
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.49	22.38 ug/ml	4900444	Acenaphthene-d10	4380184

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane SA	83025	000544-76-3	93.00
2	Heptadecane, 2,6,10,14-tetramethyl-	141441	018344-37-1	91.00
3	Dodecane, 4,6-dimethyl-	59899	061141-72-8	81.00
4	Undecane	28421	001120-21-4	80.00
5	Dodecane, 2-methyl-8-propyl-	83050	055045-07-3	72.00



00433

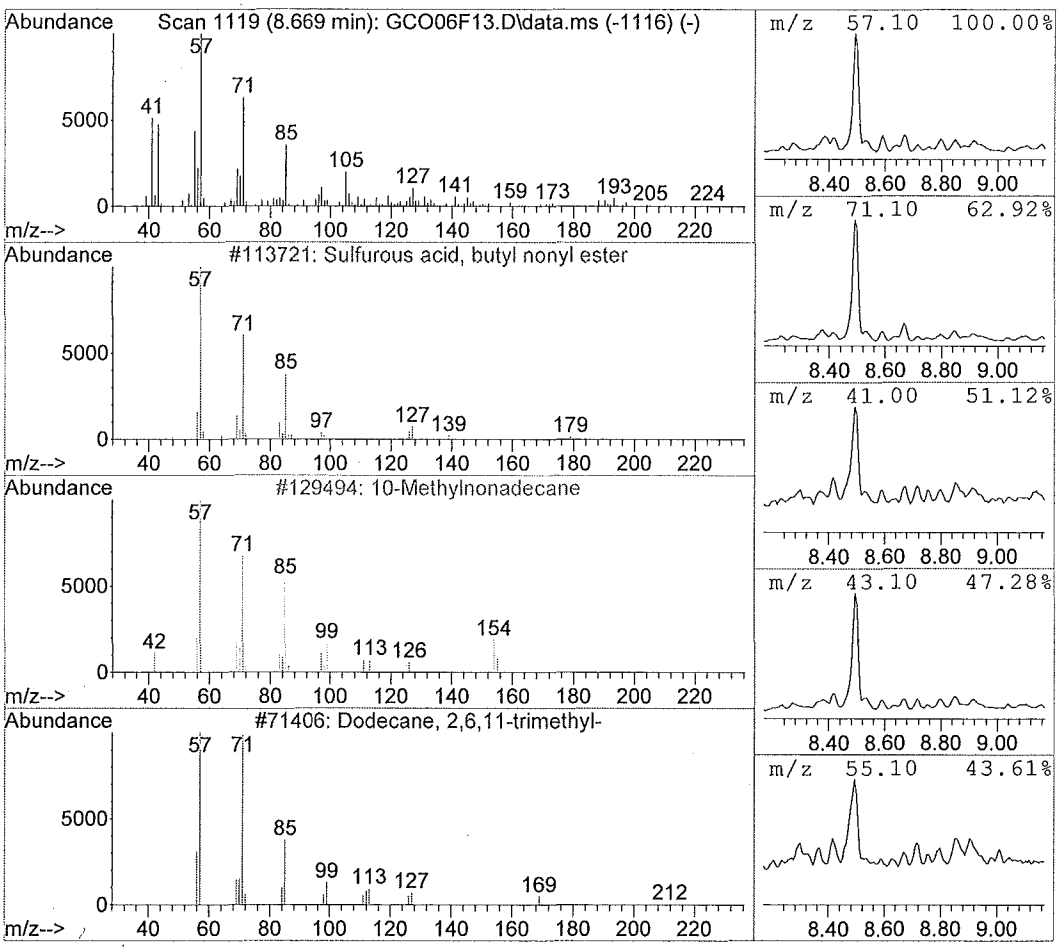
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.67	2.82 ug/ml	618399	Acenaphthene-d10	4380184

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Sulfurous acid, butyl nonyl ester	113721	1000309-17-6	59.00
2	10-Methylnonadecane	129494	056862-62-5	53.00
3	Dodecane, 2,6,11-trimethyl-	71406	031295-56-4	47.00
4	Decane, 3-methyl-	28429	013151-34-3	47.00
5	Octadecane, 1-iodo-	202264	000629-93-6	43.00



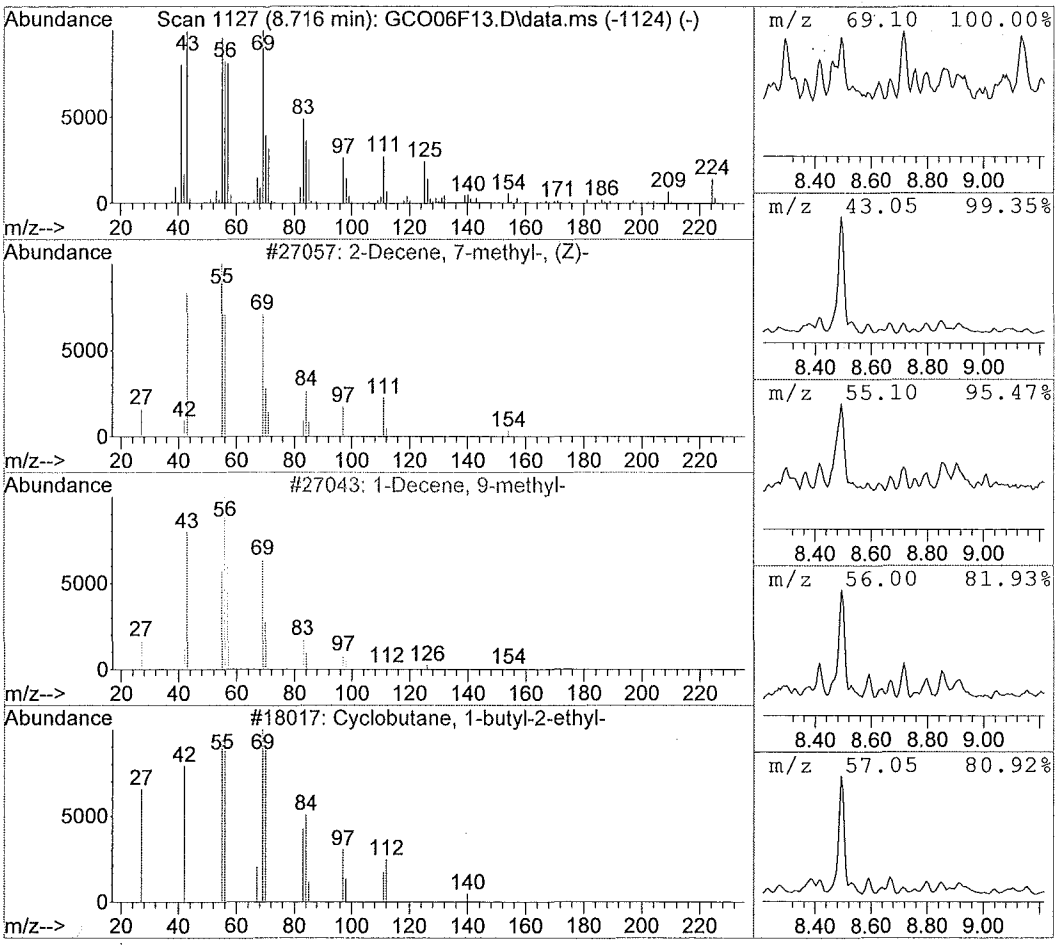
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.72	2.31 ug/ml	506157	Acenaphthene-d10	4380184

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Decene, 7-methyl-, (Z)-	27057	074630-23-2	76.00
2	1-Decene, 9-methyl-	27043	061142-78-7	62.00
3	Cyclobutane, 1-butyl-2-ethyl-	18017	1000150-67-3	58.00
4	Cyclopentane, 1,1,2-trimethyl-	6787	004259-00-1	58.00
5	Cyclopropane, 1,2-dimethyl-1-pentyl	18055	062238-04-4	58.00



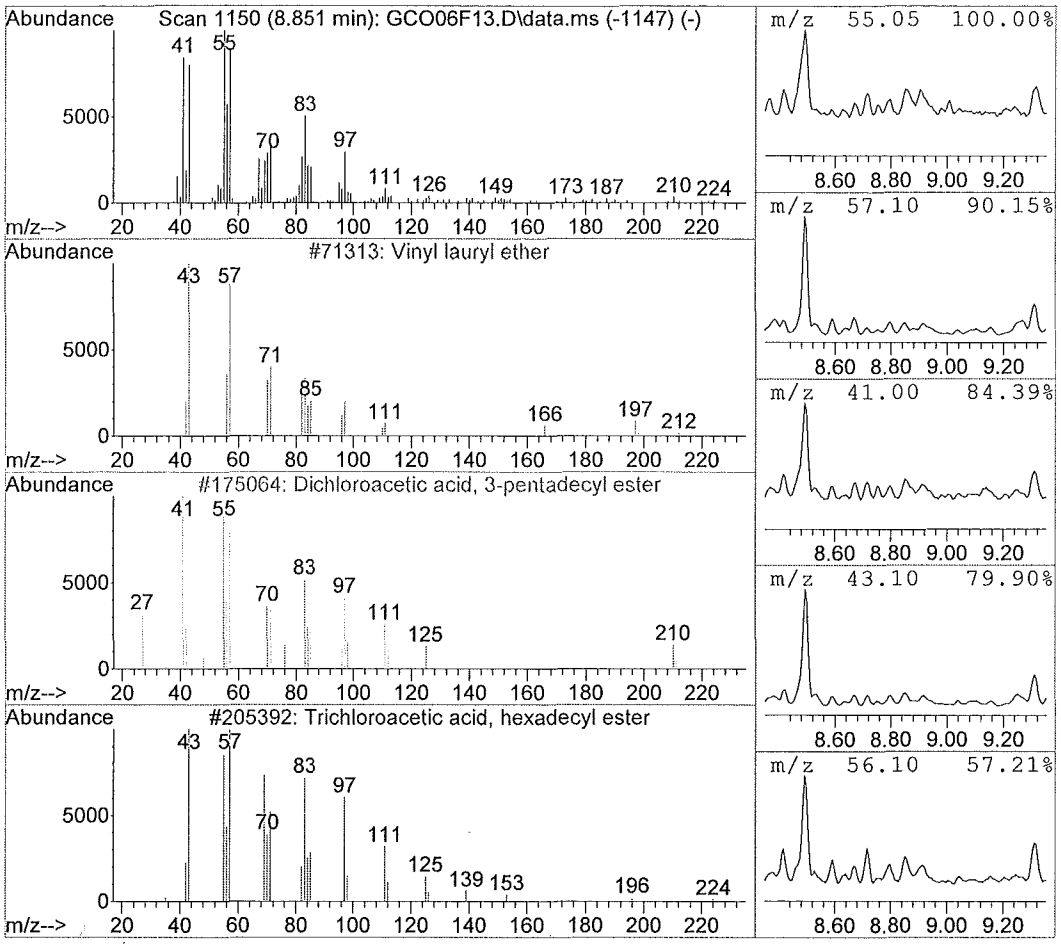
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.85	2.93 ug/ml	641623	Acenaphthene-d10	4380184

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Vinyl lauryl ether	71313	000765-14-0	90.00
2	Dichloroacetic acid, 3-pentadecyl e	175064	1000280-64-8	53.00
3	Trichloroacetic acid, hexadecyl est	205392	074339-54-1	53.00
4	1-Docosene	151538	001599-67-3	52.00
5	n-Tridecan-1-ol	61343	000112-70-9	49.00



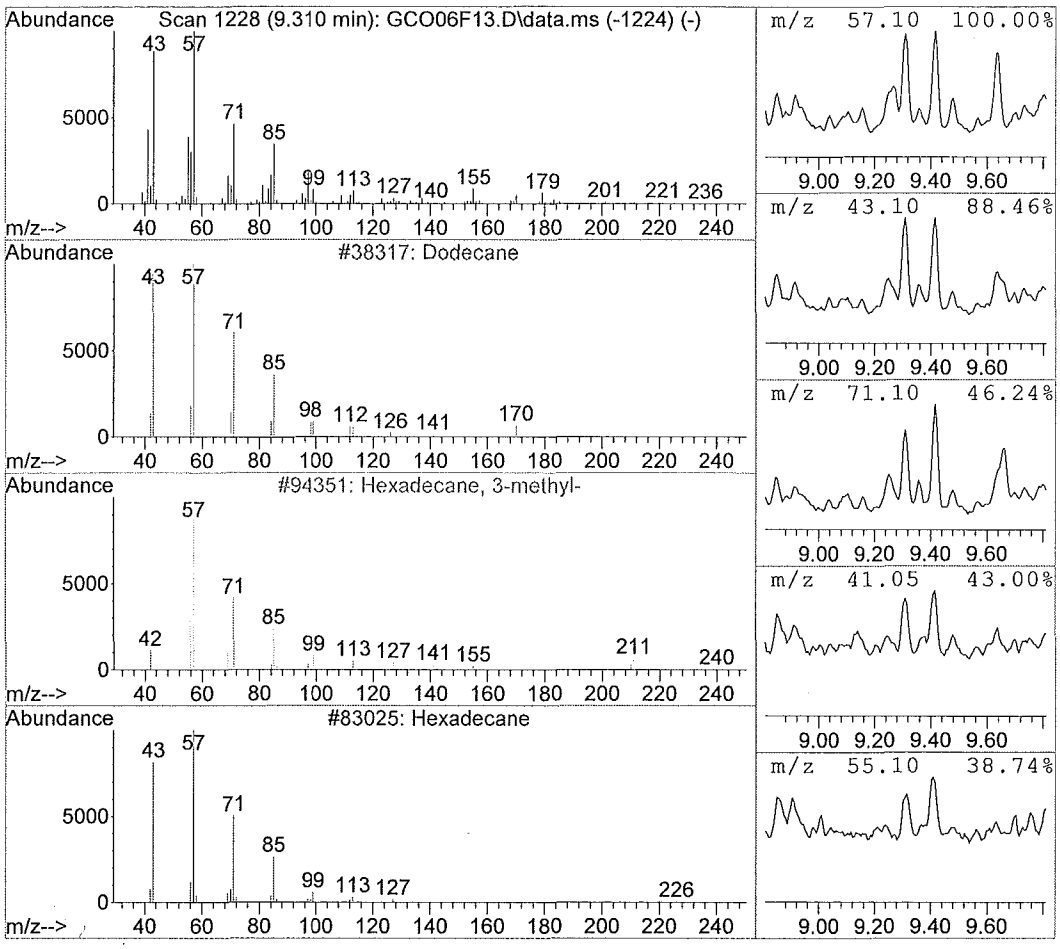
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.31	6.97 ug/ml	1527133	Acenaphthene-d10	4380184

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane SA	38317	000112-40-3	70.00
2	Hexadecane, 3-methyl-	94351	006418-43-5	70.00
3	Hexadecane	83025	000544-76-3	70.00
4	Nonane, 3,7-dimethyl-	28441	017302-32-8	68.00
5	Decane, 3-methyl-	28429	013151-34-3	58.00



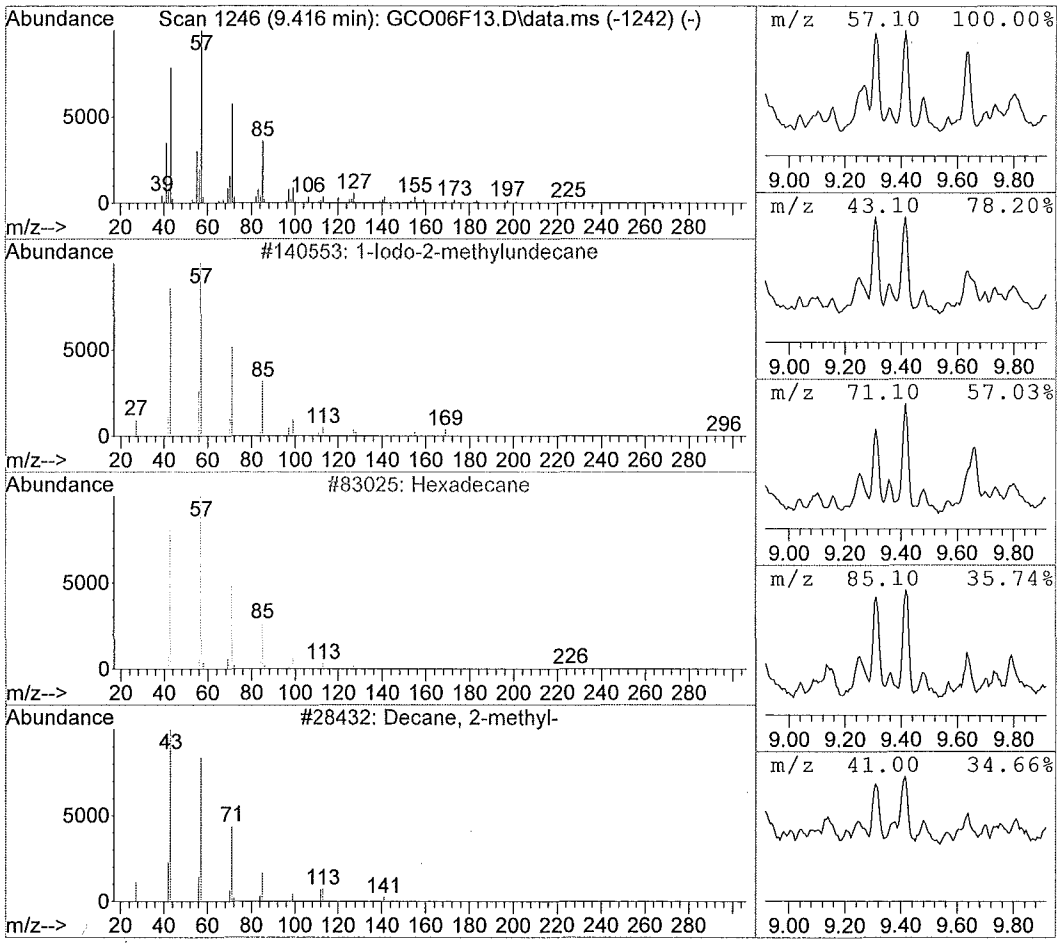
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.42	5.87 ug/ml	1285176	Acenaphthene-d10	4380184

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Iodo-2-methylundecane	140553	073105-67-6	90.00
2	Hexadecane	83025	000544-76-3	87.00
3	Decane, 2-methyl-	28432	006975-98-0	80.00
4	Undecane, 3,6-dimethyl-	48867	017301-28-9	72.00
5	Tridecane, 5-propyl-	83031	055045-11-9	72.00



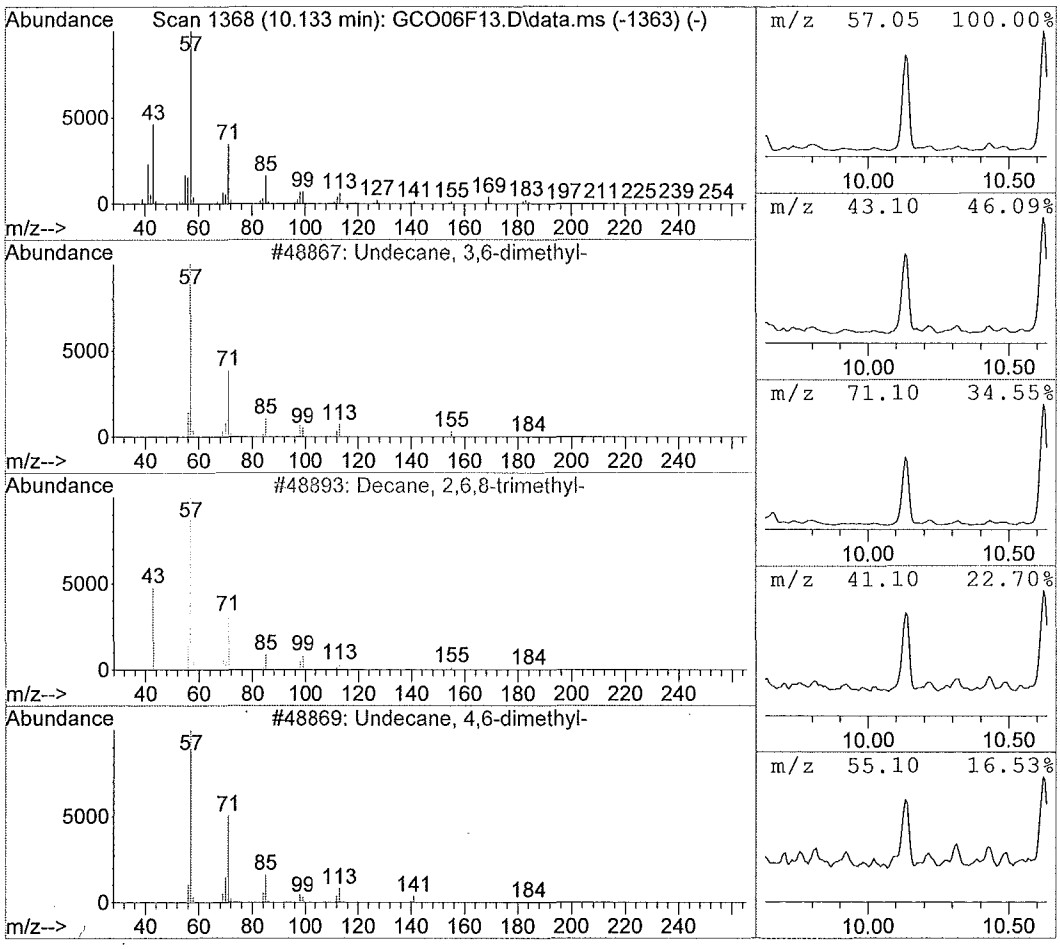
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.13	22.37 ug/ml	4898377	Acenaphthene-d10	4380184

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 3,6-dimethyl-	48867	017301-28-9	91.00
2	Decane, 2,6,8-trimethyl-	48893	062108-26-3	87.00
3	Undecane, 4,6-dimethyl-	48869	017312-82-2	80.00
4	Z-2-Tridecen-1-ol	59791	1000130-75-8	74.00
5	Undecane, 2,5-dimethyl-	48872	017301-22-3	74.00



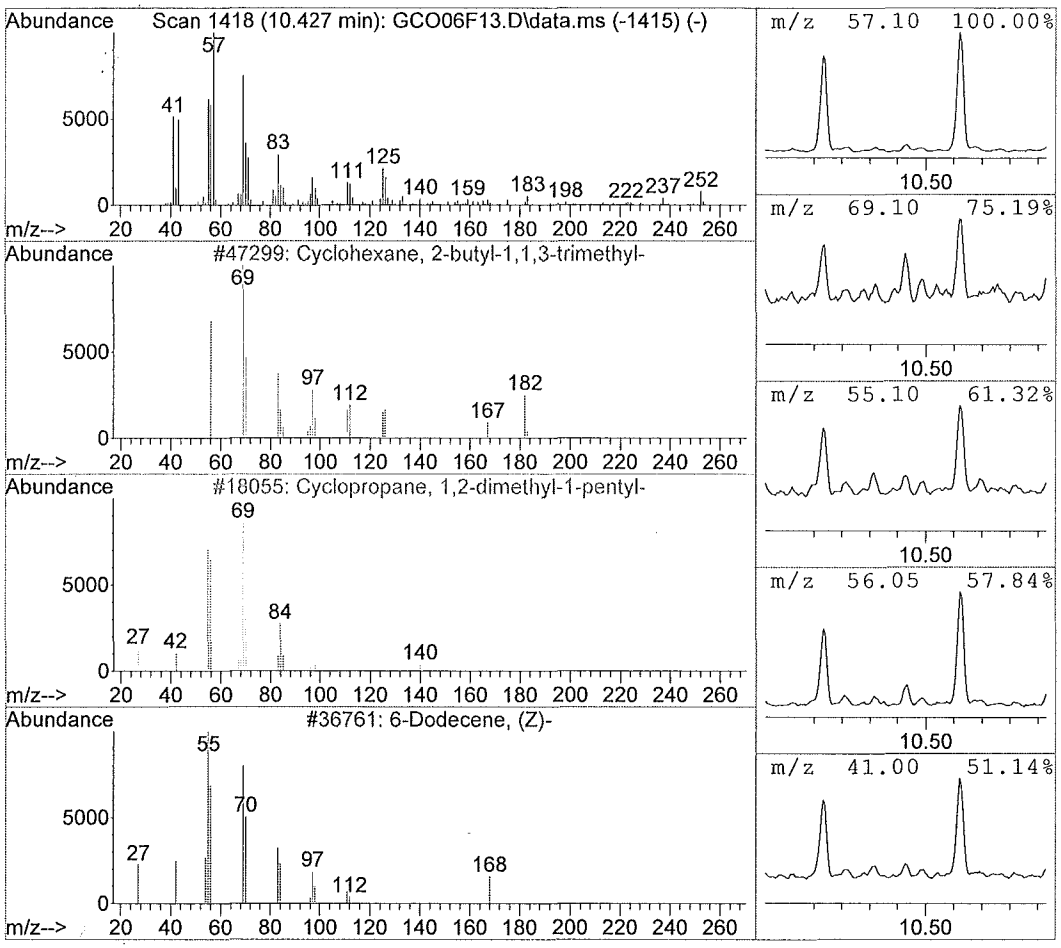
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.43	3.73 ug/ml	536123	Phenanthrene-d10	2877612

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 2-butyl-1,1,3-trimethy CA	47299	054676-39-0	80.00
2	Cyclopropane, 1,2-dimethyl-1-pentyl	18055	062238-04-4	64.00
3	6-Dodecene, (Z)-	36761	007206-29-3	62.00
4	Cyclohexane, 1,1,2-trimethyl-	11588	007094-26-0	58.00
5	3-Heptene, 2,6-dimethyl-	11558	002738-18-3	58.00



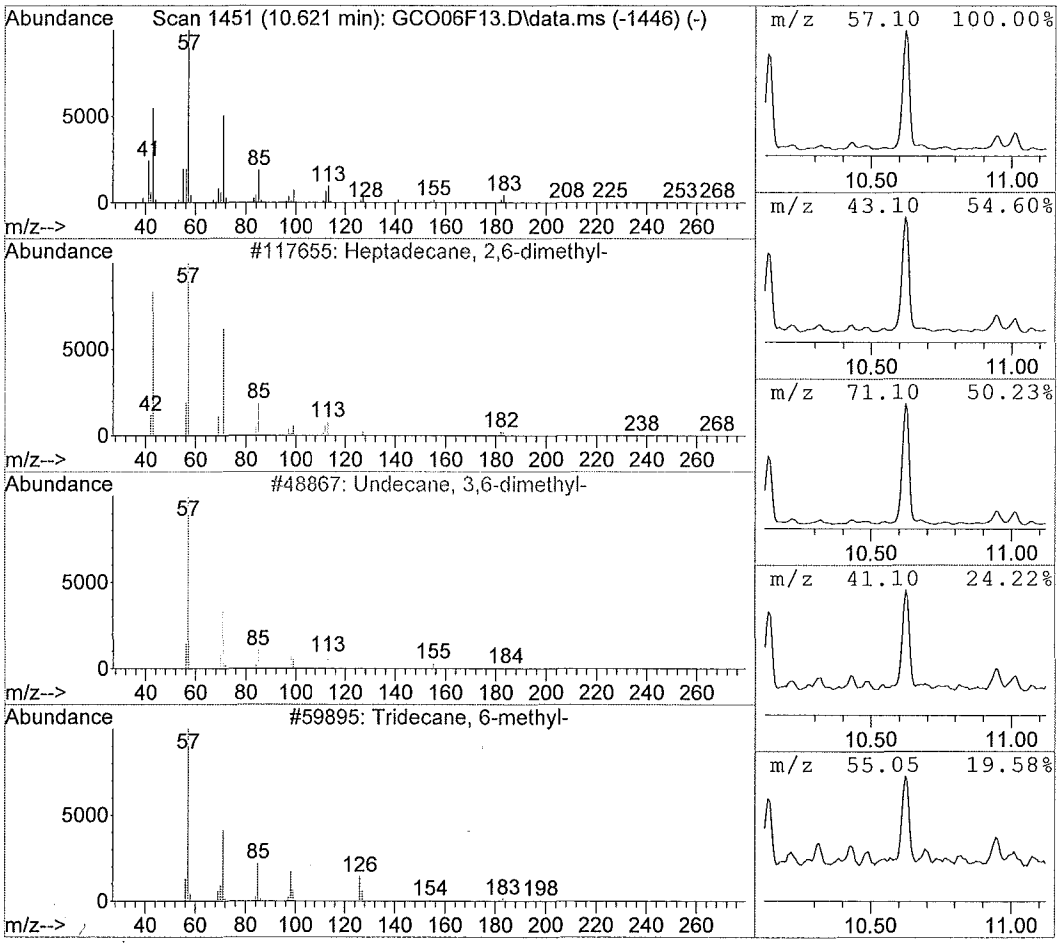
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.62	43.04 ug/ml	6192640	Phenanthrene-d10	2877612

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane, 2,6-dimethyl-	117655	054105-67-8	91.00
2	Undecane, 3,6-dimethyl- BA	48867	017301-28-9	91.00
3	Tridecane, 6-methyl-	59895	013287-21-3	74.00
4	Octane, 3,6-dimethyl-	19185	015869-94-0	64.00
5	Undecane, 3,5-dimethyl-	48868	017312-81-1	64.00



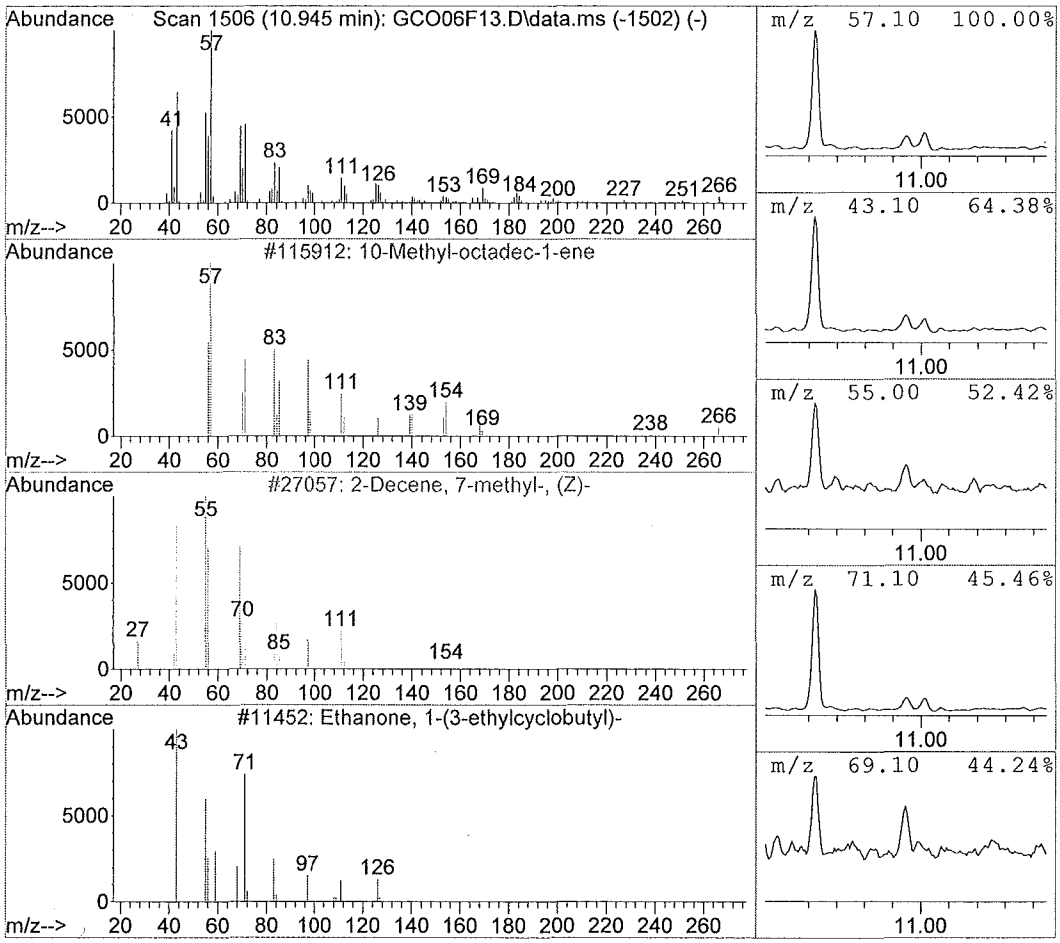
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.94	7.42 ug/ml	1067185	Phenanthrene-d10	2877612

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	10-Methyl-octadec-1-ene	115912	1000192-60-5	49.00
2	2-Decene, 7-methyl-, (Z)-	27057	074630-23-2	46.00
3	Ethanone, 1-(3-ethylcyclobutyl)-	11452	056335-71-8	43.00
4	6-Tridecene, 7-methyl-	58309	024949-42-6	41.00
5	Dotriacontane	227193	000544-85-4	38.00



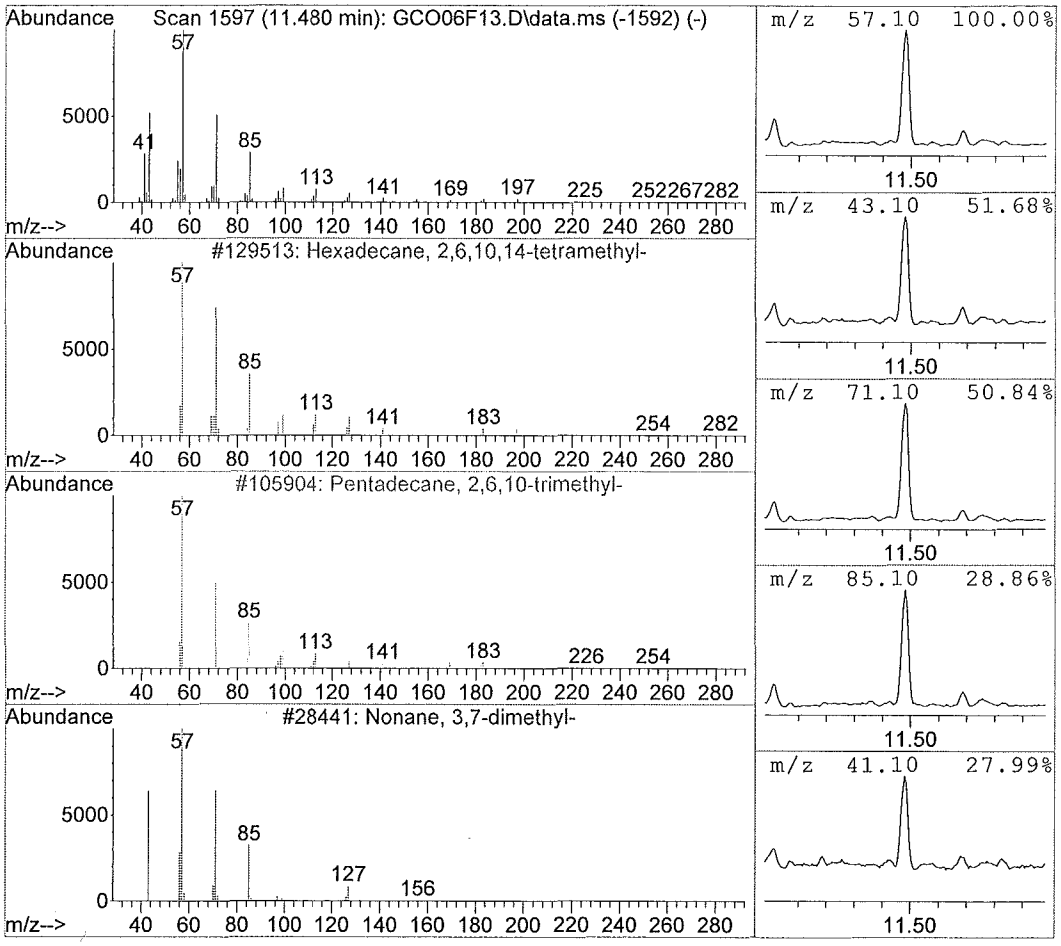
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.48	31.27 ug/ml	4499825	Phenanthrene-d10	2877612

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane, 2,6,10,14-tetramethyl- BA	129513	000638-36-8	93.00
2	Pentadecane, 2,6,10-trimethyl-	105904	003892-00-0	83.00
3	Nonane, 3,7-dimethyl-	28441	017302-32-8	76.00
4	Heptacosane	202662	000593-49-7	74.00
5	Dodecane, 2,7,10-trimethyl-	71407	074645-98-0	72.00



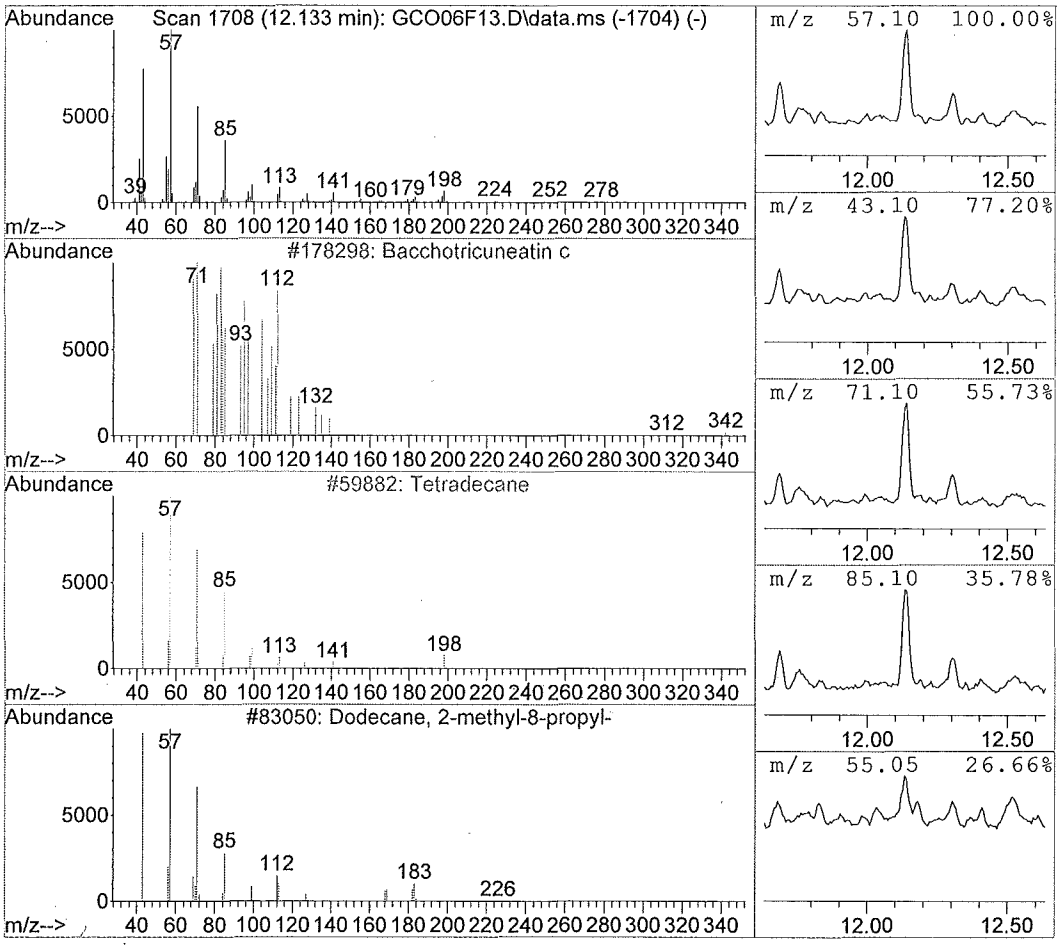
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.13	8.58 ug/ml	1235203	Phenanthrene-d10	2877612

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bacchotricuneatin c	178298	066563-30-2	95.00
2	Tetradecane	59882	000629-59-4	93.00
3	Dodecane, 2-methyl-8-propyl-	83050	055045-07-3	87.00
4	Decane, 3,8-dimethyl-	38349	017312-55-9	87.00
5	Octadecane, 2-methyl-	117646	001560-88-9	86.00



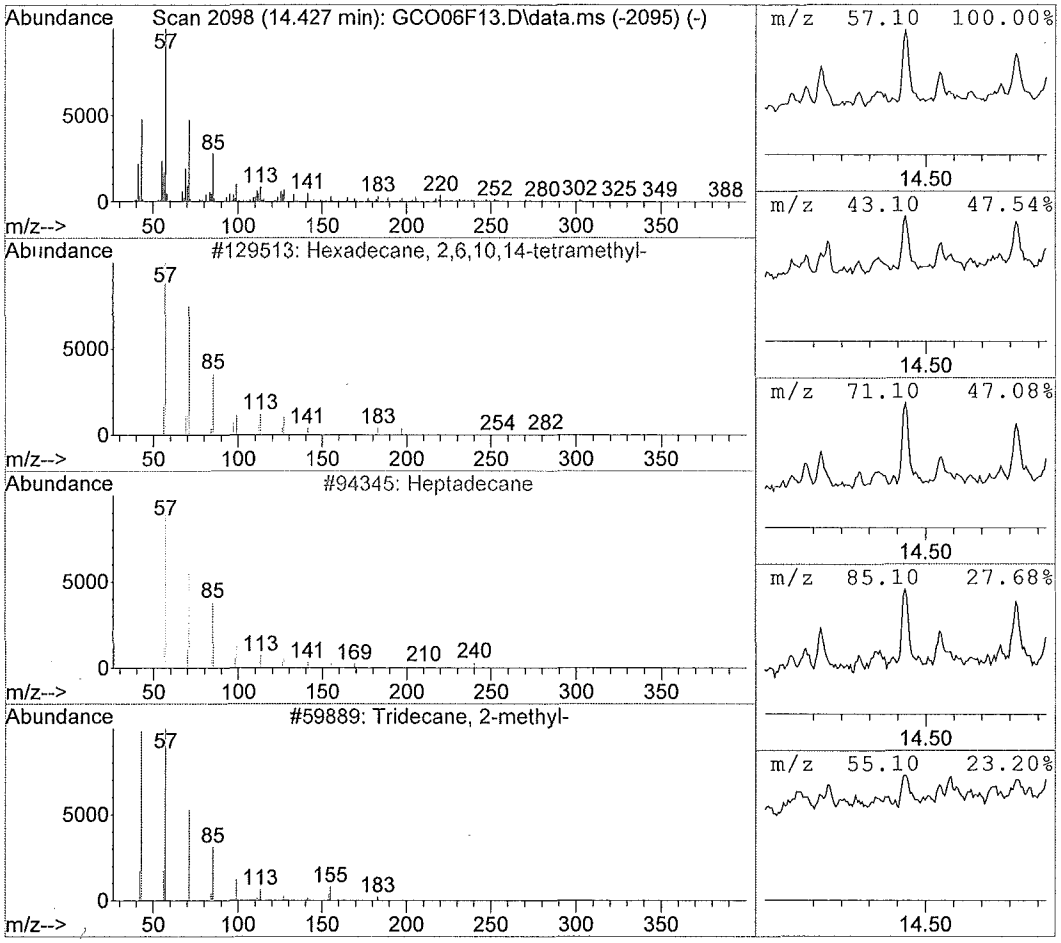
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.43	5.06 ug/ml	977219	Chrysene-d12	3859187

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane, 2,6,10,14-tetramethyl-	129513	000638-36-8	90.00
2	Heptadecane BA	94345	000629-78-7	80.00
3	Tridecane, 2-methyl-	59889	001560-96-9	76.00
4	Ethanol, 2-(octadecyloxy)-	156673	002136-72-3	74.00
5	Eicosane, 3-methyl-	141428	006418-46-8	74.00



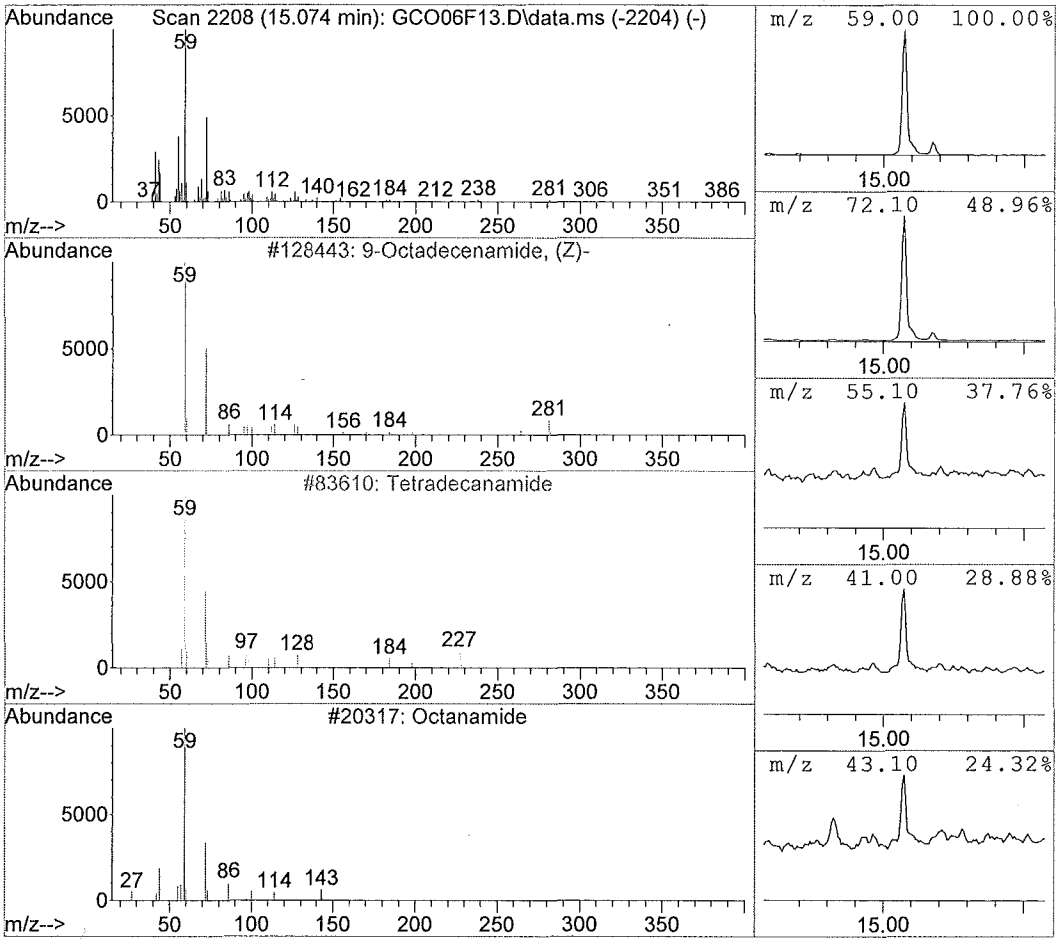
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.07	13.12 ug/ml	2532354	Chrysene-d12	3859187

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Tetradecanamide	83610	000638-58-4	80.00
3	Octanamide	20317	000629-01-6	72.00
4	Decanamide-	38977	002319-29-1	64.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	50.00



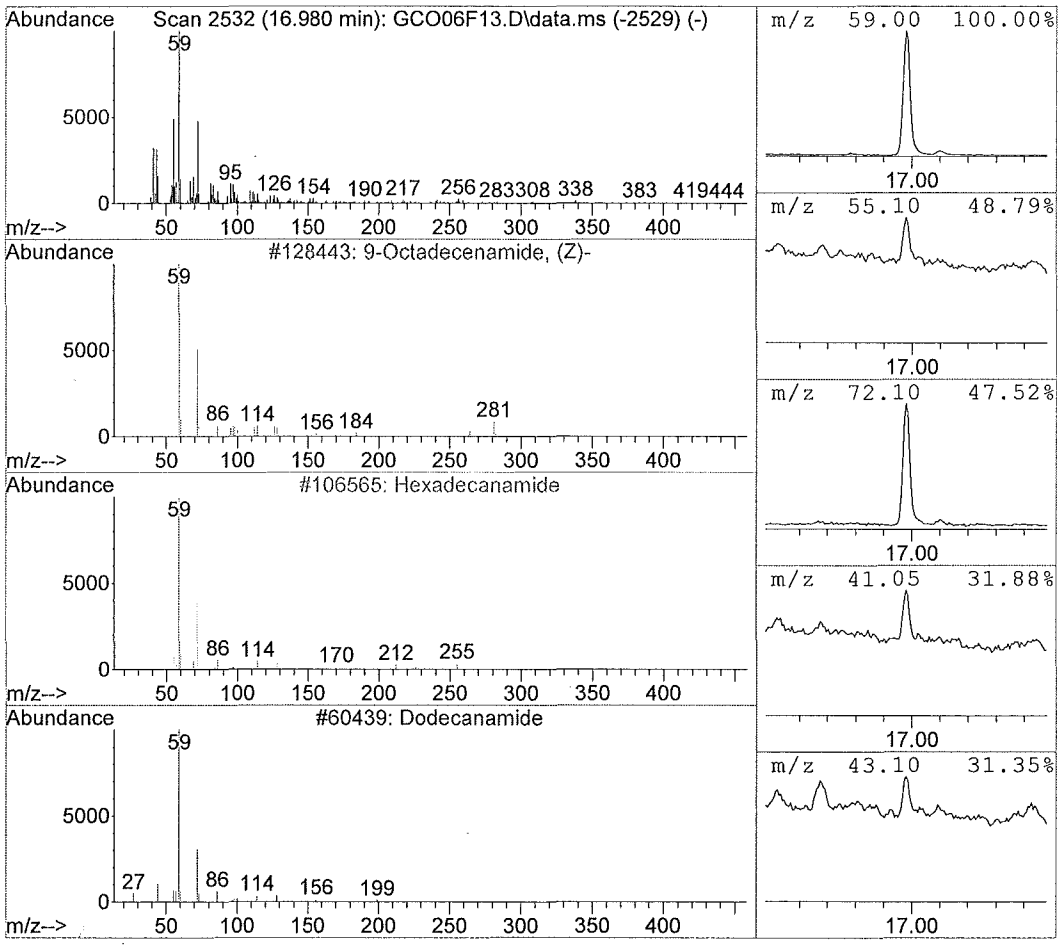
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO06F13.D Vial: 6
Acq On : 07/08/2015 10:56 Operator: TJM
Sample : 1515375013 F9M08 (4) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.98	5.19 ug/ml	840191	Perylene-d12	3234729

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	87.00
2	Hexadecanamide	106565	000629-54-9	53.00
3	Dodecanamide	60439	001120-16-7	52.00
4	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	50.00
5	Octadecanamide	130205	000124-26-5	50.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M09

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375014

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GC007F14

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.9 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	280	J
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.

F9M09

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375014

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GC007F14

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.9 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	640	J
120-12-7	Anthracene	1900	U
86-74-8	Carbazole	1900	U
84-74-2	Di-n-butylphthalate	1900	U
206-44-0	Fluoranthene	370	J
129-00-0	Pyrene	810	J
85-68-7	Butylbenzylphthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	490	J
218-01-9	Chrysene	760	J
117-81-7	Bis(2-ethylhexyl)phthalate	170	J
117-84-0	Di-n-octylphthalate	1900	U
205-99-2	Benzo(b)fluoranthene	830	J
207-08-9	Benzo(k)fluoranthene	190	J
50-32-8	Benzo(a)pyrene	420	J
193-39-5	Indeno(1,2,3-cd)pyrene	240	J
53-70-3	Dibenzo(a,h)anthracene	1900	U
191-24-2	Benzo(g,h,i)perylene	200	J
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.

F9M09

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375014

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GC007F14

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 10.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Methacrylamide	2.81	1300	J
02		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.49	4300	JB
03		Unknown 1H-Pyrrole-2,5-dione	4.28	1100	J
04		Unknown Nonanal	5.48	1200	J
05		Unknown Hexanamide	10.35	1400	J
06	638-58-4	Tetradecanamide	12.76	1600	JN
07	1120-16-7	Dodecanamide	14.15	5100	JN
08	301-02-0	9-Octadecenamide, (Z)-	15.08	32000	JNB
09	629-54-9	Hexadecanamide	15.17	1600	JNB
10		Unknown 7-Nonenamide	15.86	1200	J
11		Unknown 7-Nonenamide	15.93	1900	J
12		Unknown 6-Nitroundec-5-ene	16.20	2300	J
13	301-02-0	9-Octadecenamide, (Z)-	16.98	2100	JN
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	14000	J

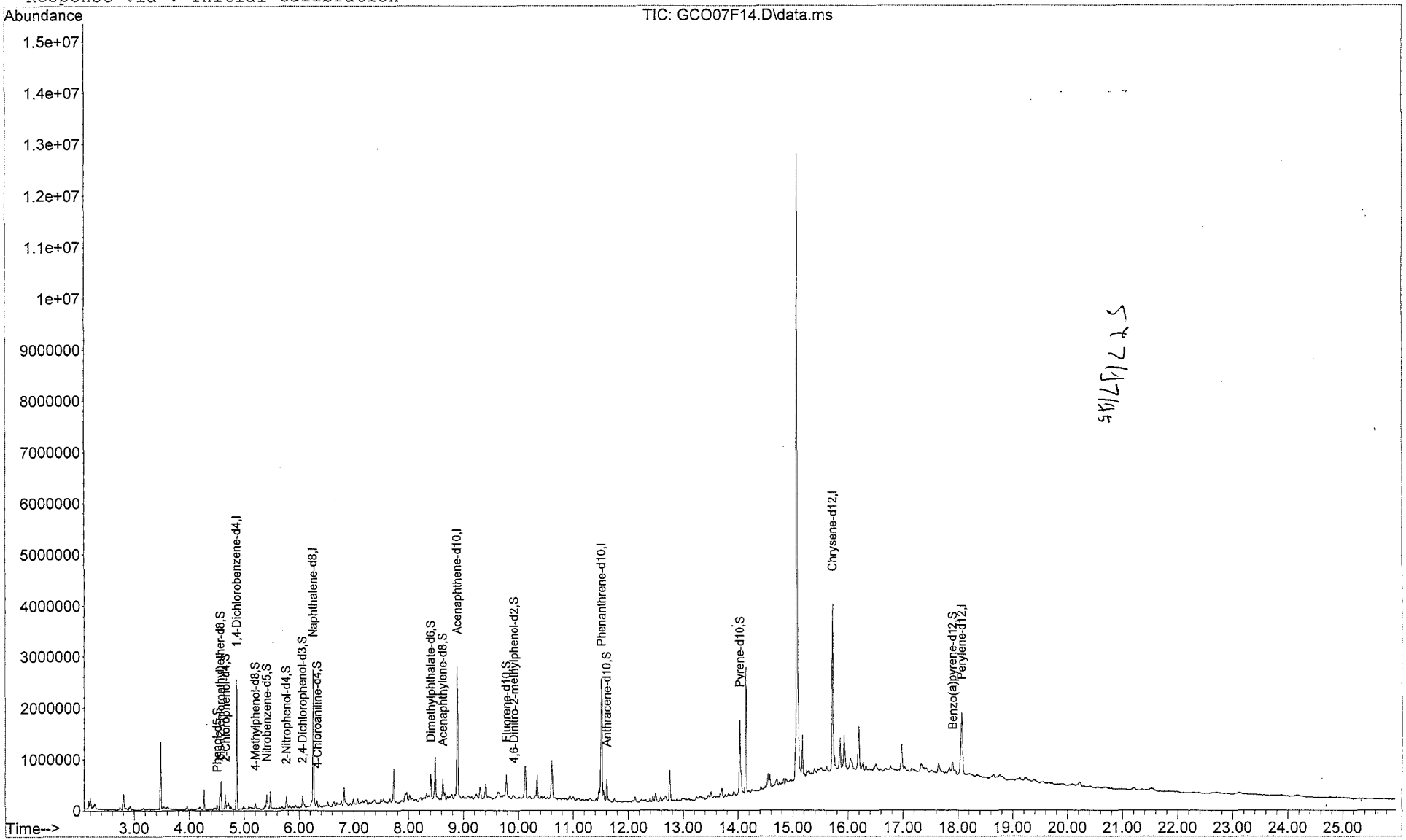
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 07:31:12 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 07:31:12 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	329693	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1285284	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	769996	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1345245	20.00 ug/ml
73) Chrysene-d12	15.73	240	1343511	20.00 ug/ml
81) Perylene-d12	18.07	264	873730	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	29172	1.017ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	55202	2.469ug/mL
7) 2-Chlorophenol-d4	4.66	132	67412	2.783ug/ml
13) 4-Methylphenol-d8	5.20	113	31162	1.624ug/mL
17) Nitrobenzene-d5	5.42	128	31866	2.822ug/ml
21) 2-Nitrophenol-d4	5.77	143	33988	2.848ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	57831	3.112ug/mL
28) 4-Chloroaniline-d4	6.33	131	12399	0.611ug/mL
42) Dimethylphthalate-d6	8.41	166	177956	3.686ug/mL
45) Acenaphthylene-d8	8.63	160	224196	3.417ug/mL
50) 4-Nitrophenol-d4	9.15	143	1846	0.187ug/mL
57) Fluorene-d10	9.79	176	156411	3.793ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	4787	0.501ug/mL
69) Anthracene-d10	11.62	188	251119	3.520ug/mL
75) Pyrene-d10	14.04	212	233030	3.476ug/mL
86) Benzo(a)pyrene-d12	17.91	264	144705	3.456ug/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	7.24	142	30894	0.751ug/ml	90
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)

: 004453

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 07:31:12 2015 Results File: GSOM01D6.RES

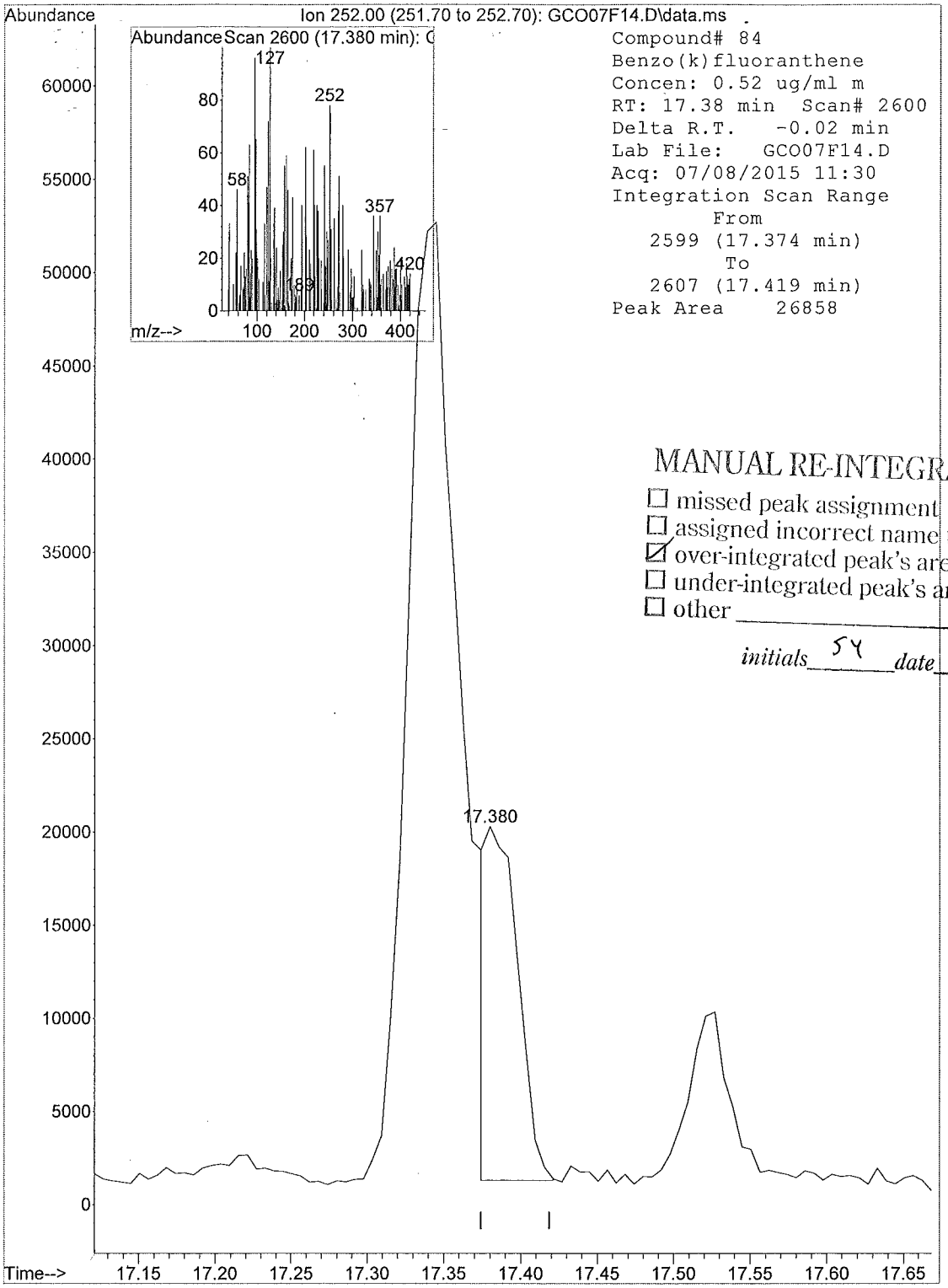
Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

	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	11.56	178	122836	1.712ug/ml	97
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	13.71	202	79138	1.001ug/ml	99
74)	Pyrene	14.06	202	186099	2.176ug/ml	94
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.72	228	107700	1.321ug/ml	86
79)	Chrysene	15.76	228	149290	2.028ug/ml	91
80)	Bis-(2-ethylhexyl)phthalat	15.78	149	30250	0.455ug/ml	84
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.34	252	121912	2.228ug/ml	96
84)	Benzo(k)fluoranthene	17.38	252	26858	0.520ug/ml m 54	96
85)	Benzo(a)pyrene	17.96	252	58346	1.133ug/ml m 7/17/15	93
87)	Indeno(1,2,3-c,d)pyrene	20.73	276	28745	0.631ug/ml	43
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	21.52	276	24129	0.538ug/ml	94

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00453

M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene

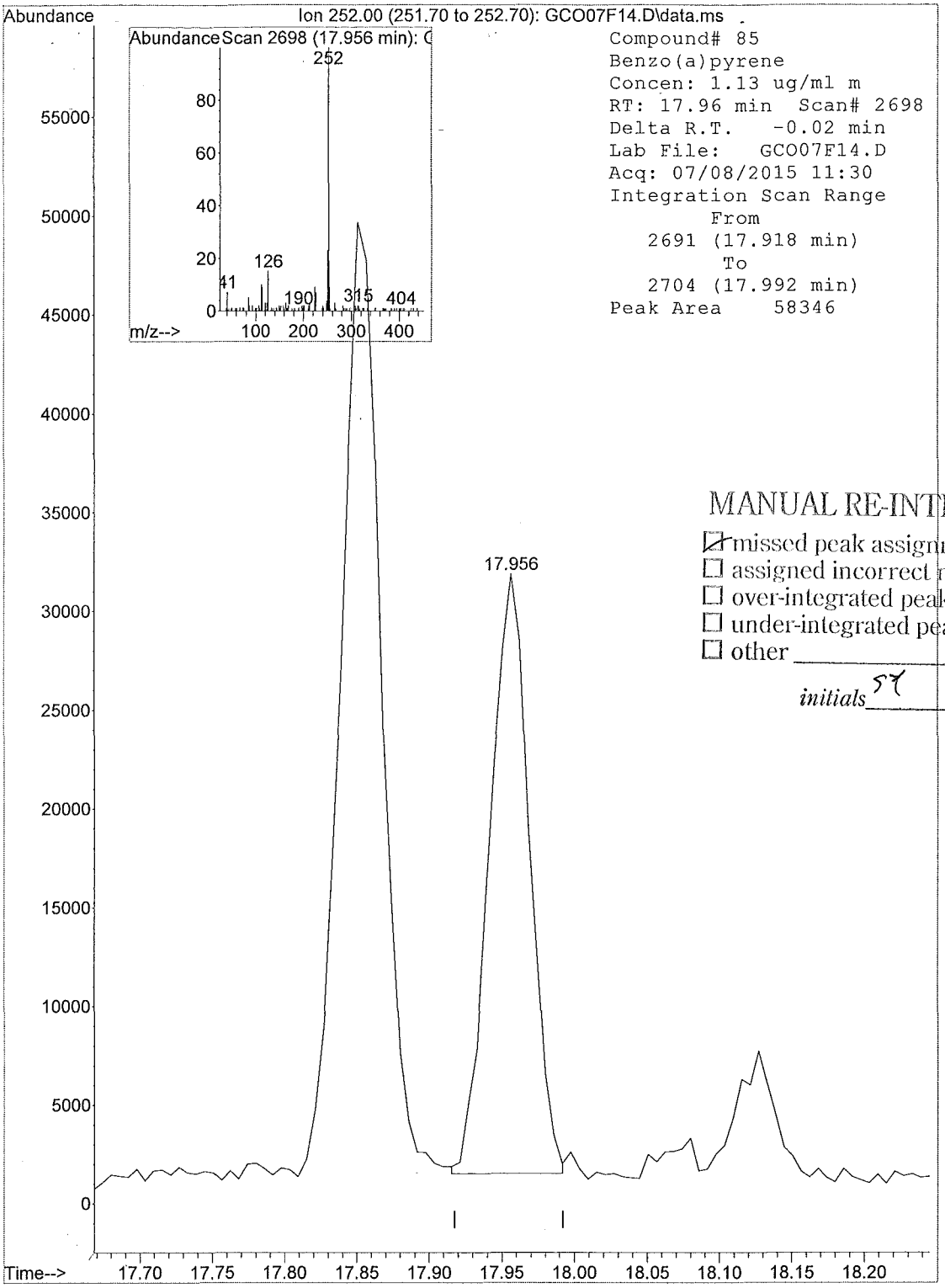


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 7/17/15

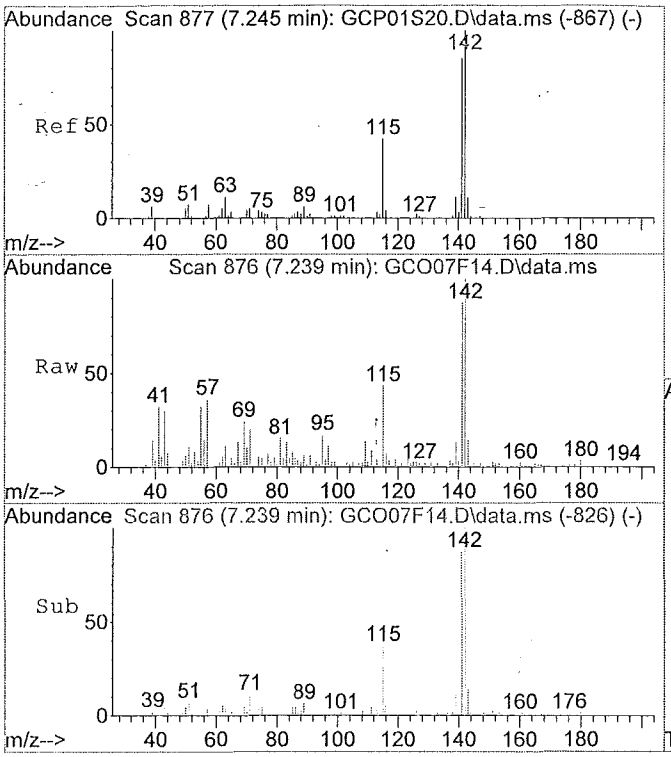
M A N U A L I N T E G R A T I O N FOR Benzo(a)pyrene



MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

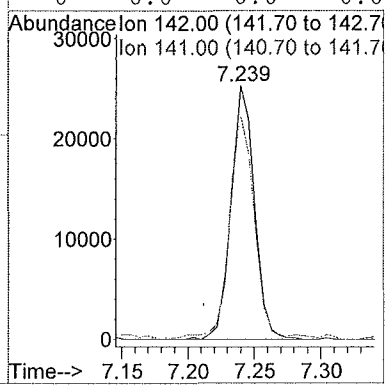
initials ST *date* 7/17/15

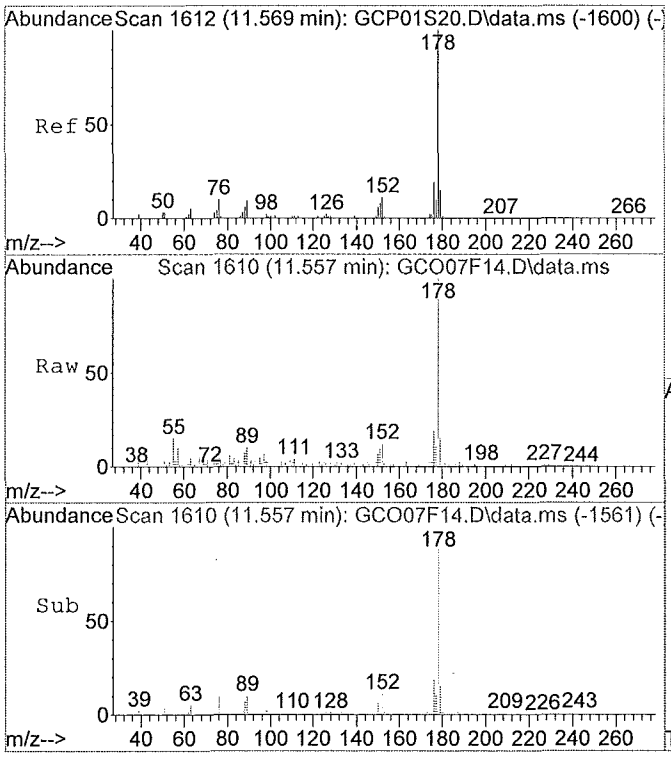


#32
2-Methylnaphthalene
Concen: 0.75 ug/ml
RT: 7.24 min Scan# 876
Delta R.T. -0.01 min
Lab File: GCO07F14.D
Acq: 07/08/2015 11:30

Tgt Ion:142 Resp: 30894

Ion	Ratio	Lower	Upper
142	100		
141	91.9	57.7	107.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

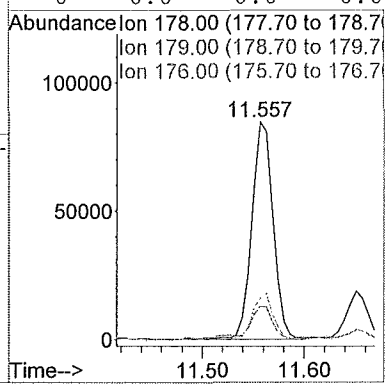


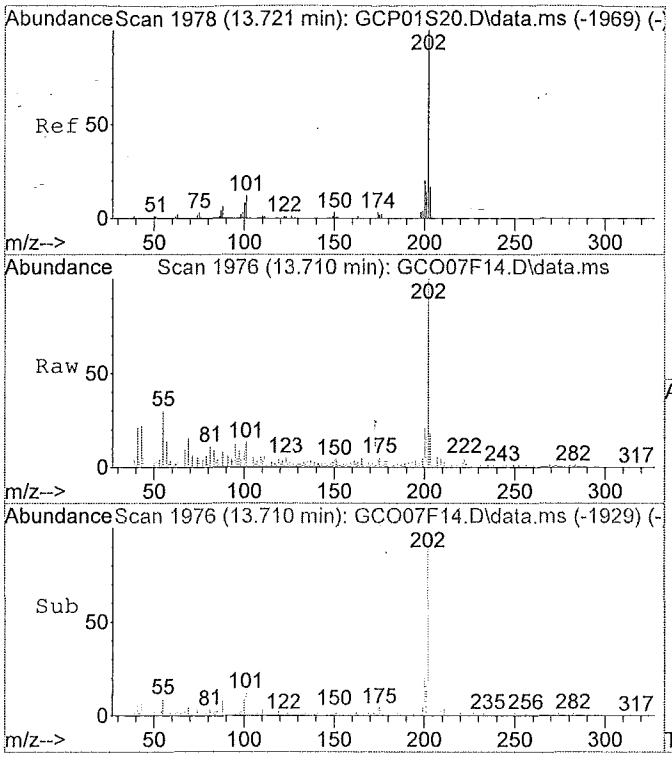


#67
Phenanthrene
Concen: 1.71 ug/ml
RT: 11.56 min Scan# 1610
Delta R.T. -0.01 min
Lab File: GCO07F14.D
Acq: 07/08/2015 11:30

Tgt Ion:178 Resp: 122836

Ion	Ratio	Lower	Upper
178	100		
179	15.7	10.6	19.8
176	20.8	13.2	24.4
0	0.0	0.0	0.0

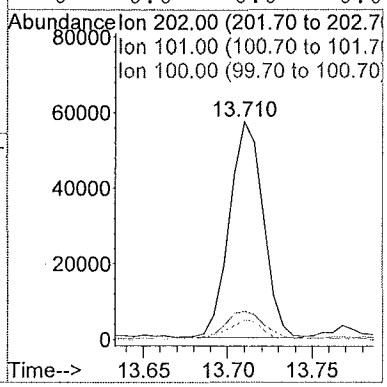


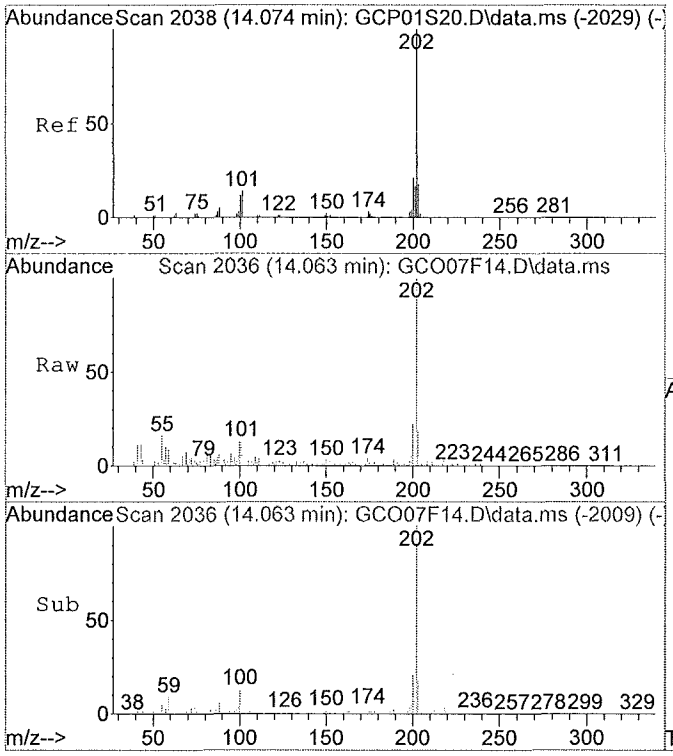


#72
Fluoranthene
Concen: 1.Q0 ug/ml
RT: 13.71 min Scan# 1976
Delta R.T. -0.01 min
Lab File: GCO07F14.D
Acq: 07/08/2015 11:30

Tgt Ion:202 Resp: 79138

Ion	Ratio	Lower	Upper
202	100		
101	14.7	10.5	19.5
100	10.9	7.4	13.8
0	0.0	0.0	0.0

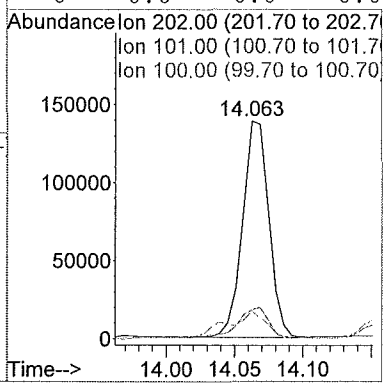


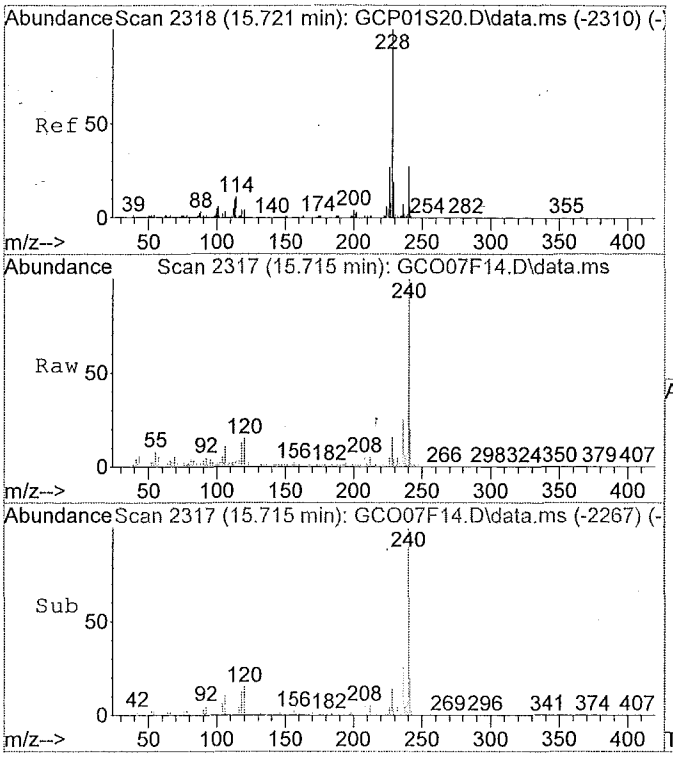


#74
Pyrene
Concen: 2.18 ug/ml
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: GCO07F14.D
Acq: 07/08/2015 11:30

Tgt Ion:202 Resp: 186099

Ion	Ratio	Lower	Upper
202	100		
101	16.5	12.2	22.7
100	18.9	10.1	18.7#
0	0.0	0.0	0.0

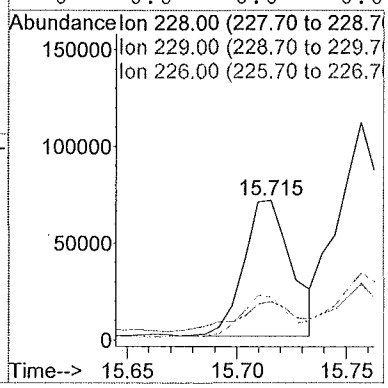


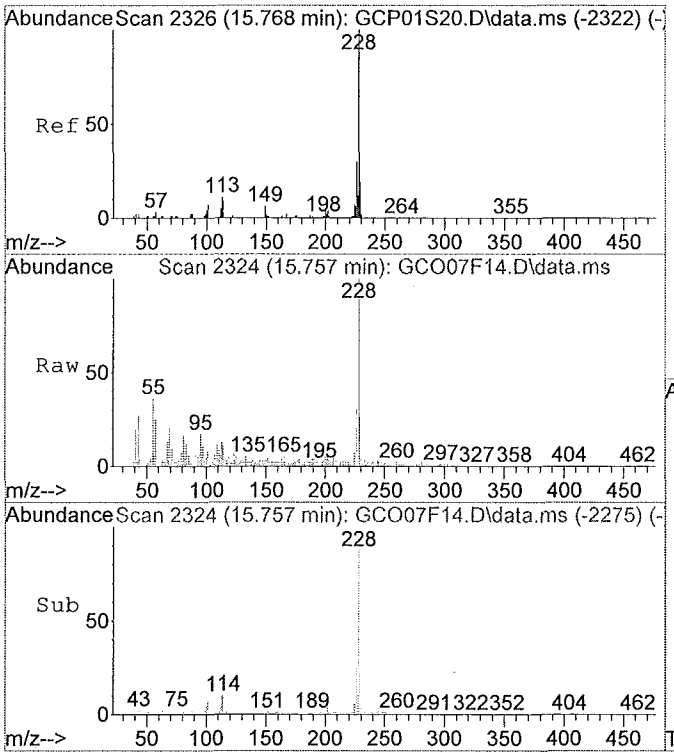


#78
Benzo(a)anthracene
Concen: 1.32 ug/ml
RT: 15.72 min Scan# 2317
Delta R.T. -0.01 min
Lab File: GCO07F14.D
Acq: 07/08/2015 11:30

Tgt Ion:228 Resp: 107700

Ion	Ratio	Lower	Upper
228	100		
229	30.2	13.7	25.5#
226	29.7	18.2	33.8
0	0.0	0.0	0.0

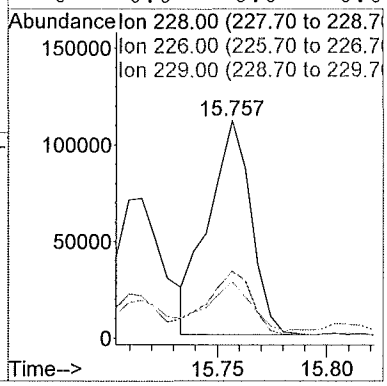


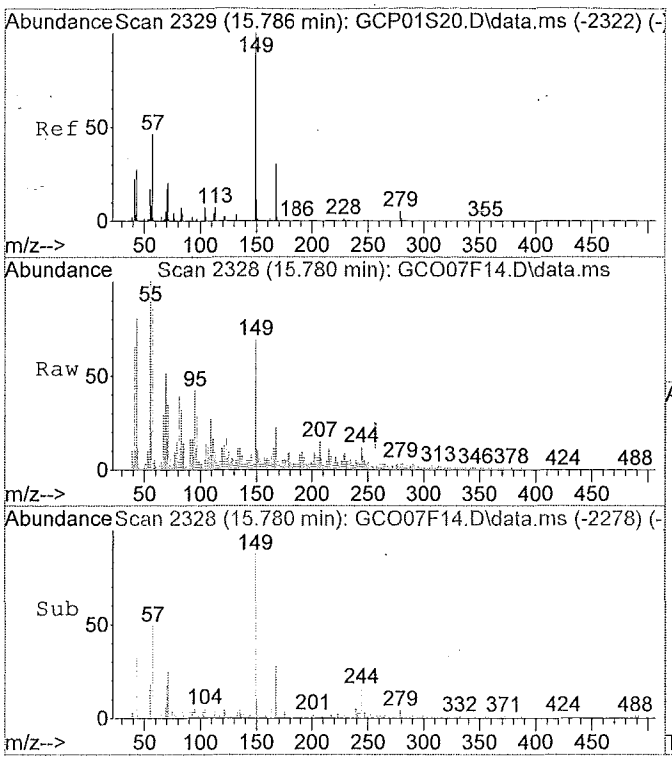


#79
Chrysene
Concen: 2.03 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCO07F14.D
Acq: 07/08/2015 11:30

Tgt Ion:228 Resp: 149290

Ion	Ratio	Lower	Upper
228	100		
226	34.2	20.1	37.3
229	22.6	13.7	25.5
0	0.0	0.0	0.0

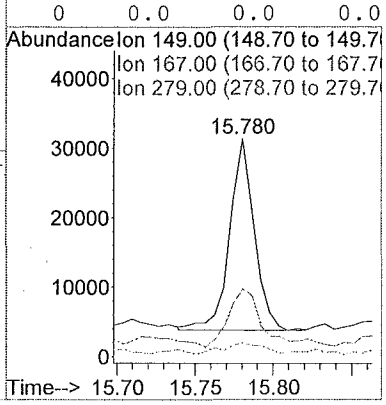


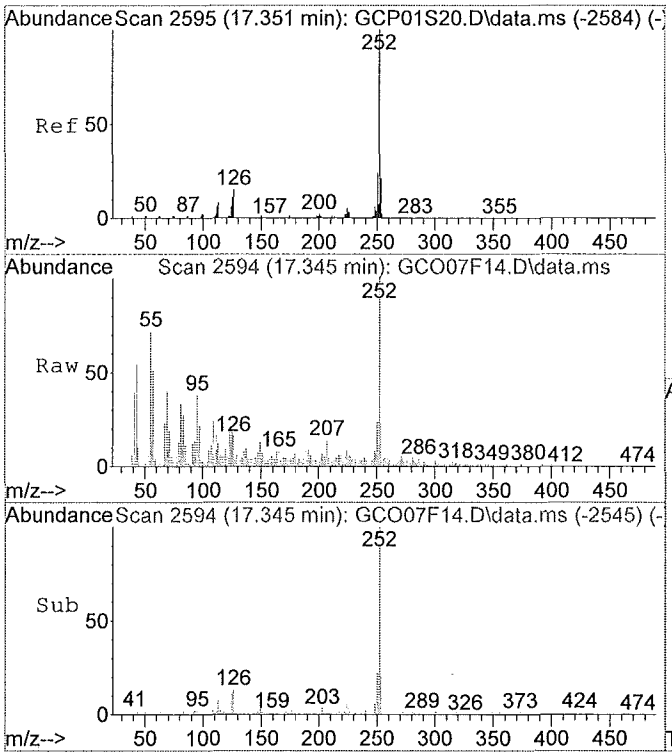


#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.46 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.01 min
Lab File: GCO07F14.D
Acq: 07/08/2015 11:30

Tgt Ion:149 Resp: 30250

Ion	Ratio	Lower	Upper
149	100		
167	41.5	22.0	40.8#
279	9.0	5.0	9.2
0	0.0	0.0	0.0

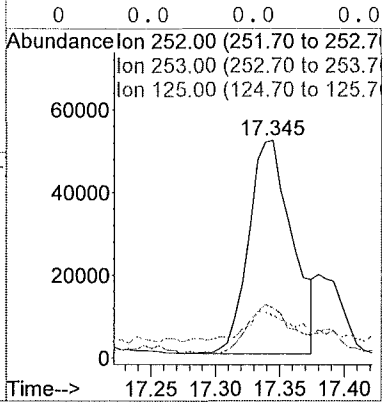


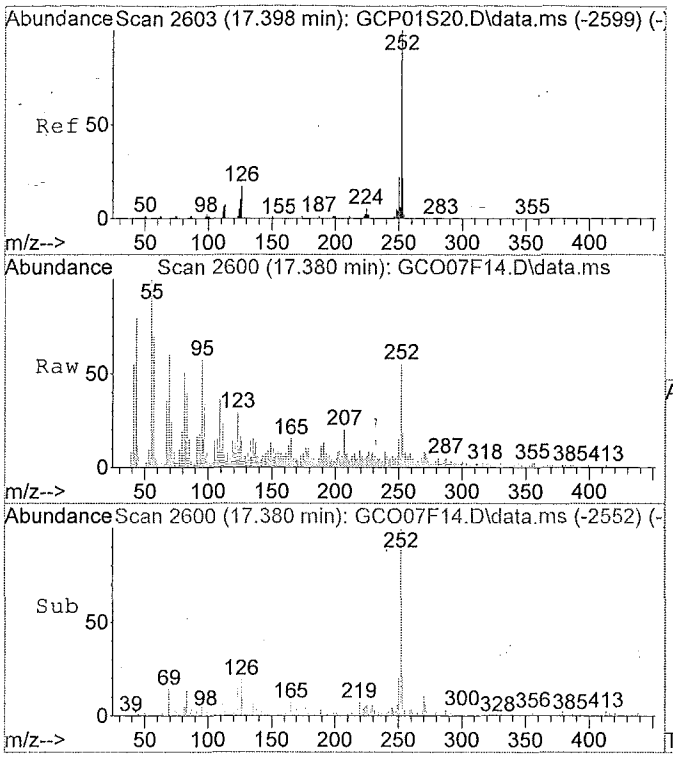


#83
Benzo(b)fluoranthene
Concen: 2.23 ug/ml
RT: 17.34 min Scan# 2594
Delta R.T. -0.01 min
Lab File: GCO07F14.D
Acq: 07/08/2015 11:30

Tgt Ion:252 Resp: 121912

Ion	Ratio	Lower	Upper
252	100		
253	23.0	15.1	28.1
125	12.7	10.6	19.8
0	0.0	0.0	0.0

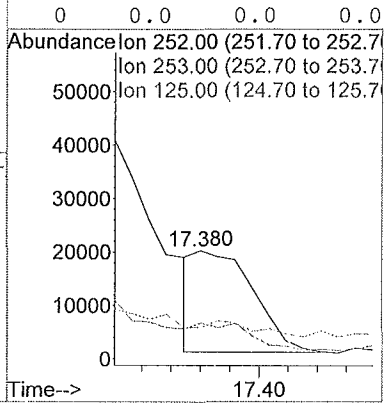


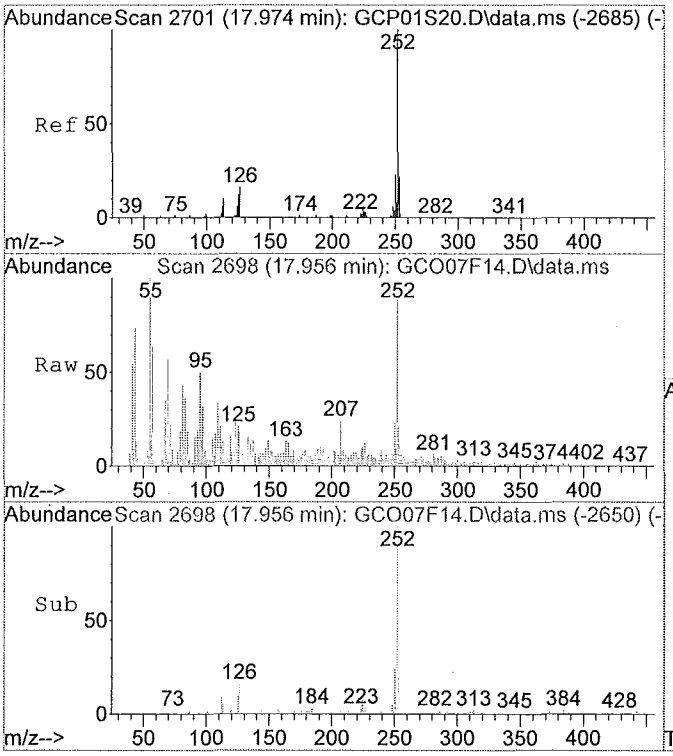


#84
Benzo(k)fluoranthene
Concen: 0.52 ug/ml m
RT: 17.38 min Scan# 2600
Delta R.T. -0.02 min
Lab File: GCO07F14.D
Acq: 07/08/2015 11:30

Tgt Ion:252 Resp: 26858

Ion	Ratio	Lower	Upper
252	100		
253	104.3	15.1	28.1#
125	57.8	10.7	19.9#
0	0.0	0.0	0.0

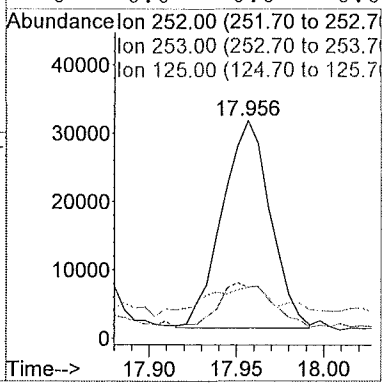


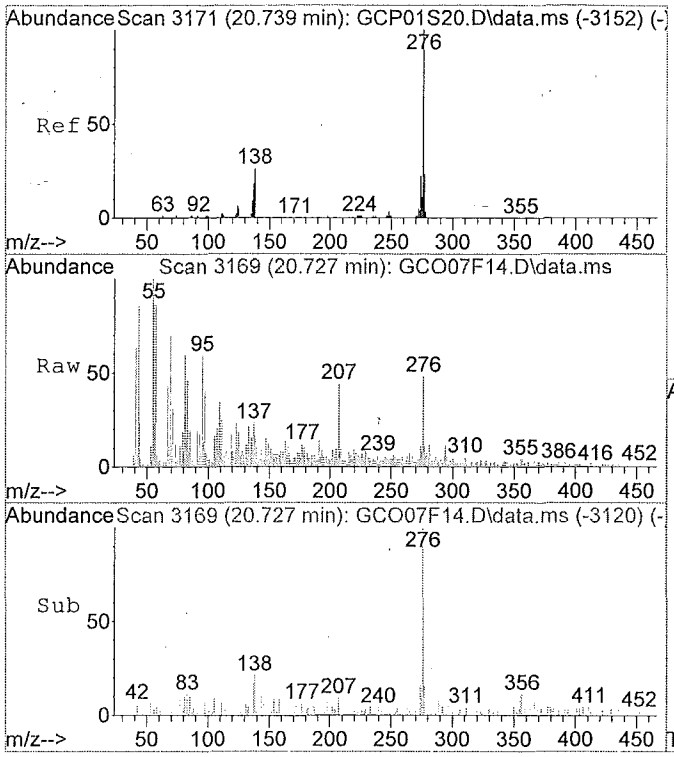


#85
Benzo(a)pyrene
Concen: 1.13 ug/ml m
RT: 17.96 min Scan# 2698
Delta R.T. -0.02 min
Lab File: GCO07F14.D
Acq: 07/08/2015 11:30

Tgt Ion:252 Resp: 58346

Ion	Ratio	Lower	Upper
252	100		
253	39.0	15.2	28.2#
125	35.2	11.8	21.8#
0	0.0	0.0	0.0

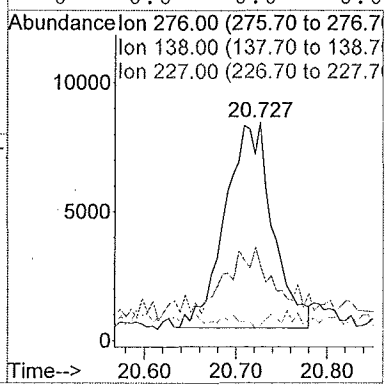


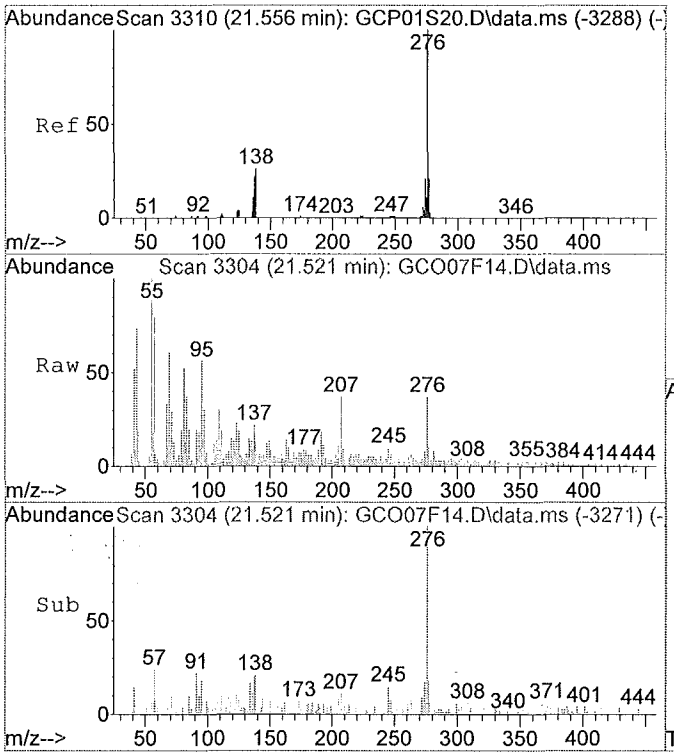


#87
Indeno(1,2,3-c,d)pyrene
Concen: 0.63 ug/ml
RT: 20.73 min Scan# 3169
Delta R.T. -0.01 min
Lab File: GCO07F14.D
Acq: 07/08/2015 11:30

Tgt Ion:276 Resp: 28745

Ion	Ratio	Lower	Upper
276	100		
138	0.0	22.3	41.5#
227	1.9	0.1	0.1#
0	0.0	0.0	0.0

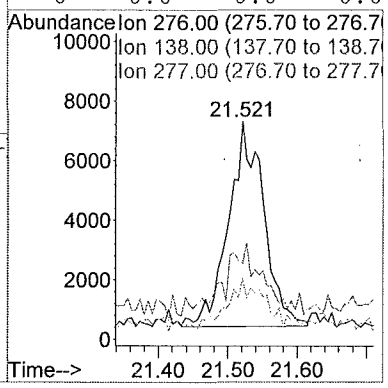




#89
Benzo(g,h,i)perylene
Concen: 0.54 ug/ml
RT: 21.52 min Scan# 3304
Delta R.T. -0.04 min
Lab File: GCO07F14.D
Acq: 07/08/2015 11:30

Tgt Ion:276 Resp: 24129

Ion	Ratio	Lower	Upper
276	100		
138	29.5	24.1	44.7
277	24.4	16.7	30.9
0	0.0	0.0	0.0



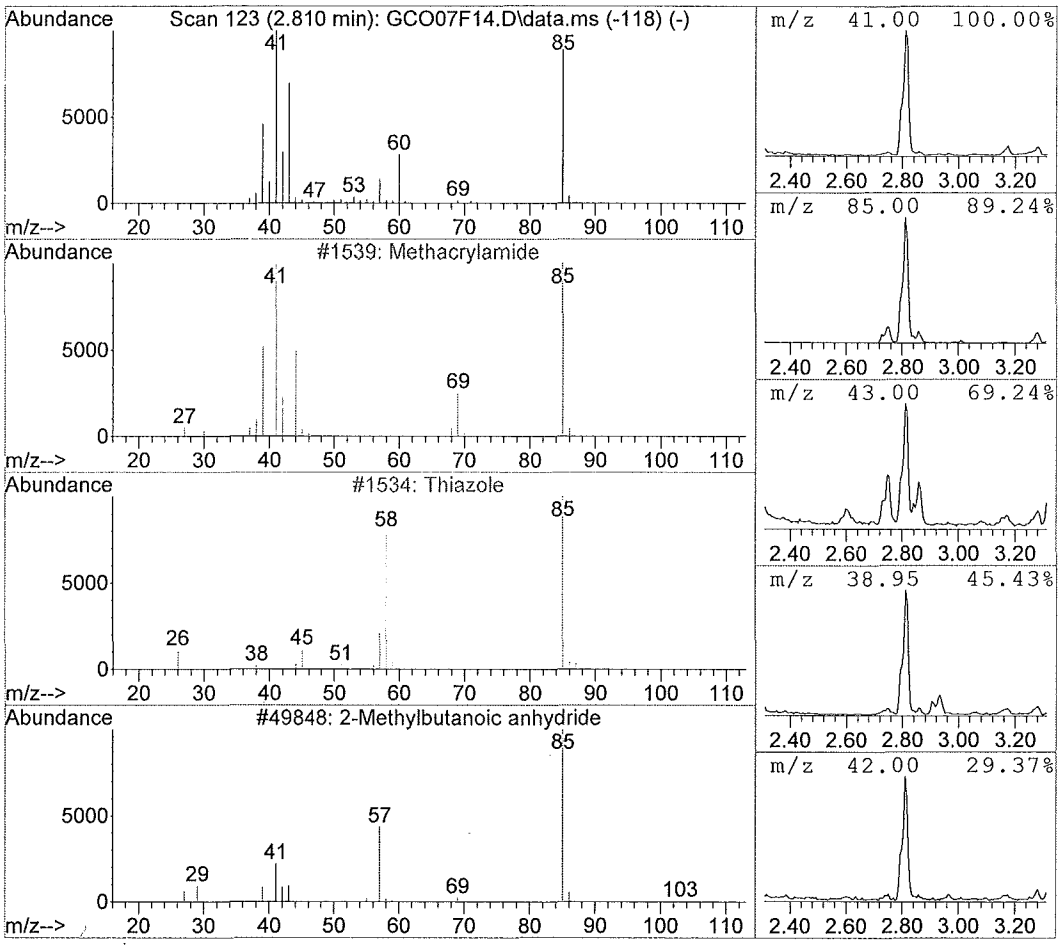
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.81	3.51 ug/ml	417336	1,4-Dichlorobenzene-d4	2375863

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methacrylamide	1539	000079-39-0	53.00
2	Thiazole	1534	000288-47-1	35.00
3	2-Methylbutanoic anhydride	49848	001468-39-9	17.00
4	Ethyl 2,4-dioxovalerate	29867	000615-79-2	17.00
5	2,2'-Bi-2H-pyran, octahydro-	37957	016282-29-4	17.00



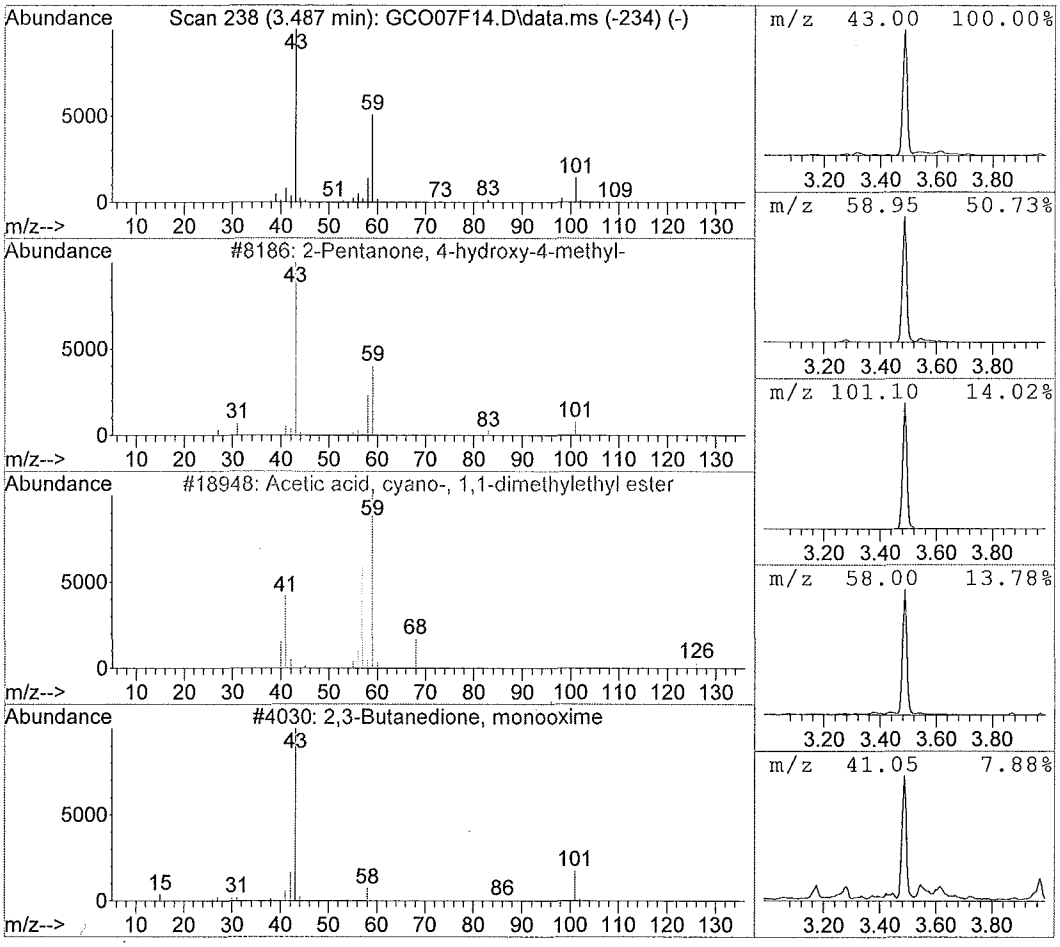
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.49	11.45 ug/ml	1359662	1,4-Dichlorobenzene-d4	2375863

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
3	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
4	1,2-Butanediol	2294	000584-03-2	9.00
5	Propanoic acid, 2-nitro-, methyl es	14600	006118-50-9	9.00



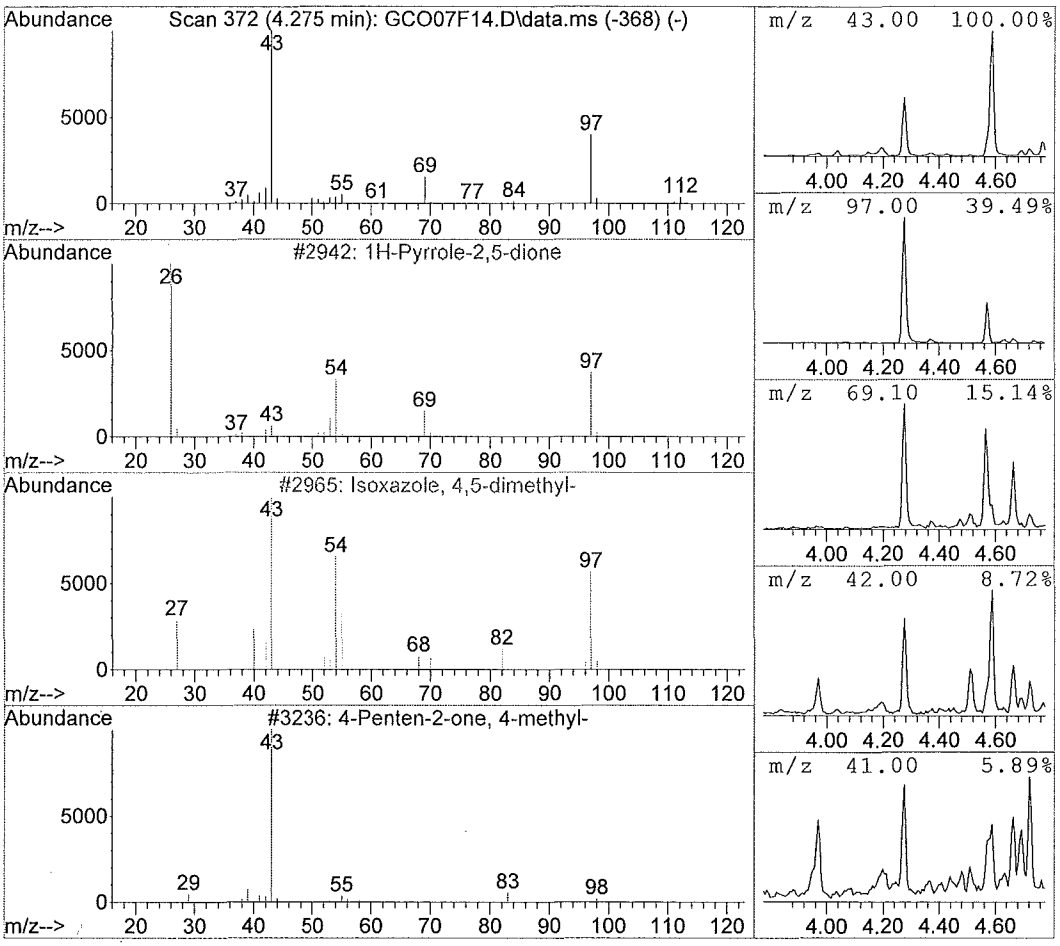
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.27	3.04 ug/ml	360636	1,4-Dichlorobenzene-d4	2375863

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	33.00
2	Isoxazole, 4,5-dimethyl-	2965	007064-40-6	9.00
3	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
4	5-Hexen-2-one	3152	000109-49-9	9.00
5	Acetyl cyanide	478	000631-57-2	7.00



Library Search Compound Report

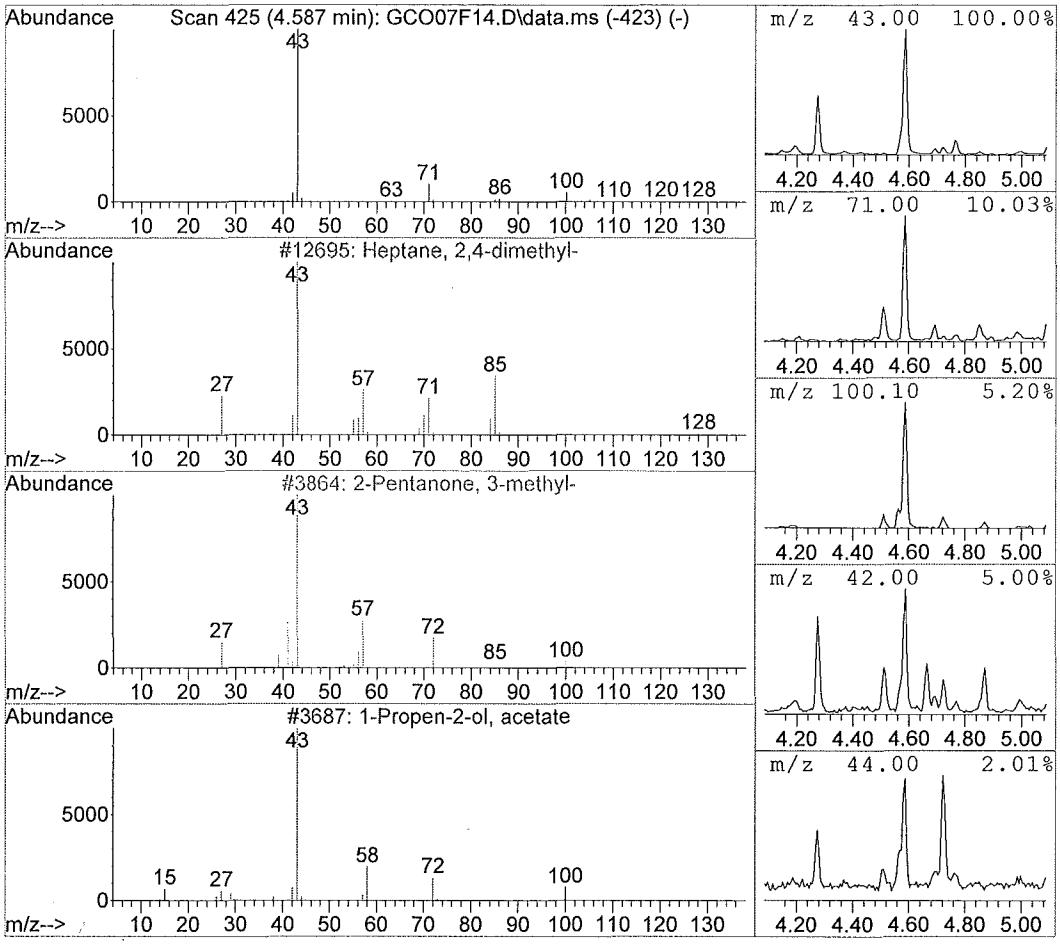
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.59	3.72 ug/ml	441722	1,4-Dichlorobenzene-d4	2375863

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
2	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
3	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
4	Hexane, 2,3,4-trimethyl-	12706	000921-47-1	5.00
5	Heptane	3971	000142-82-5	5.00

BA



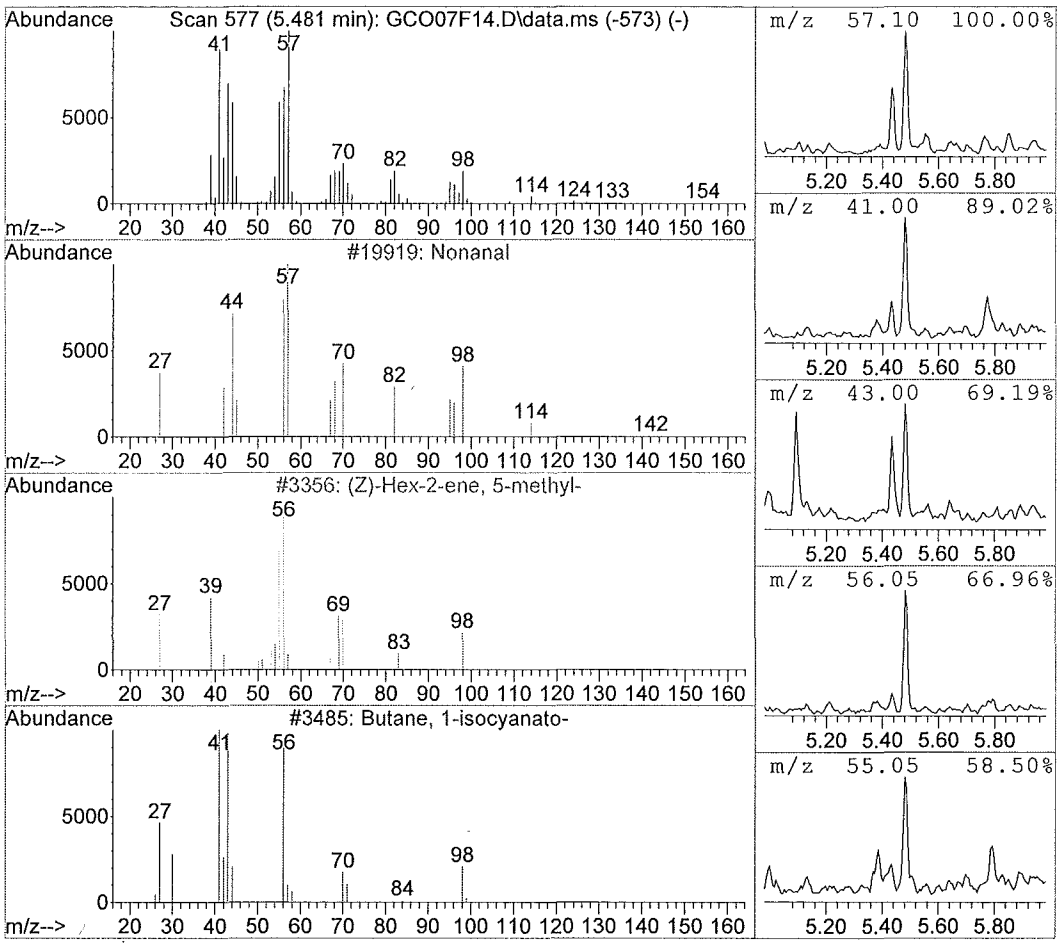
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.48	3.26 ug/ml	387311	1,4-Dichlorobenzene-d4	2375863

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonanal	19919	000124-19-6	53.00
2	(Z)-Hex-2-ene, 5-methyl-	3356	013151-17-2	46.00
3	Butane, 1-isocyanato-	3485	000111-36-4	43.00
4	1-Heptene	3297	000592-76-7	38.00
5	1-Hexene, 4-methyl-	3326	003769-23-1	38.00



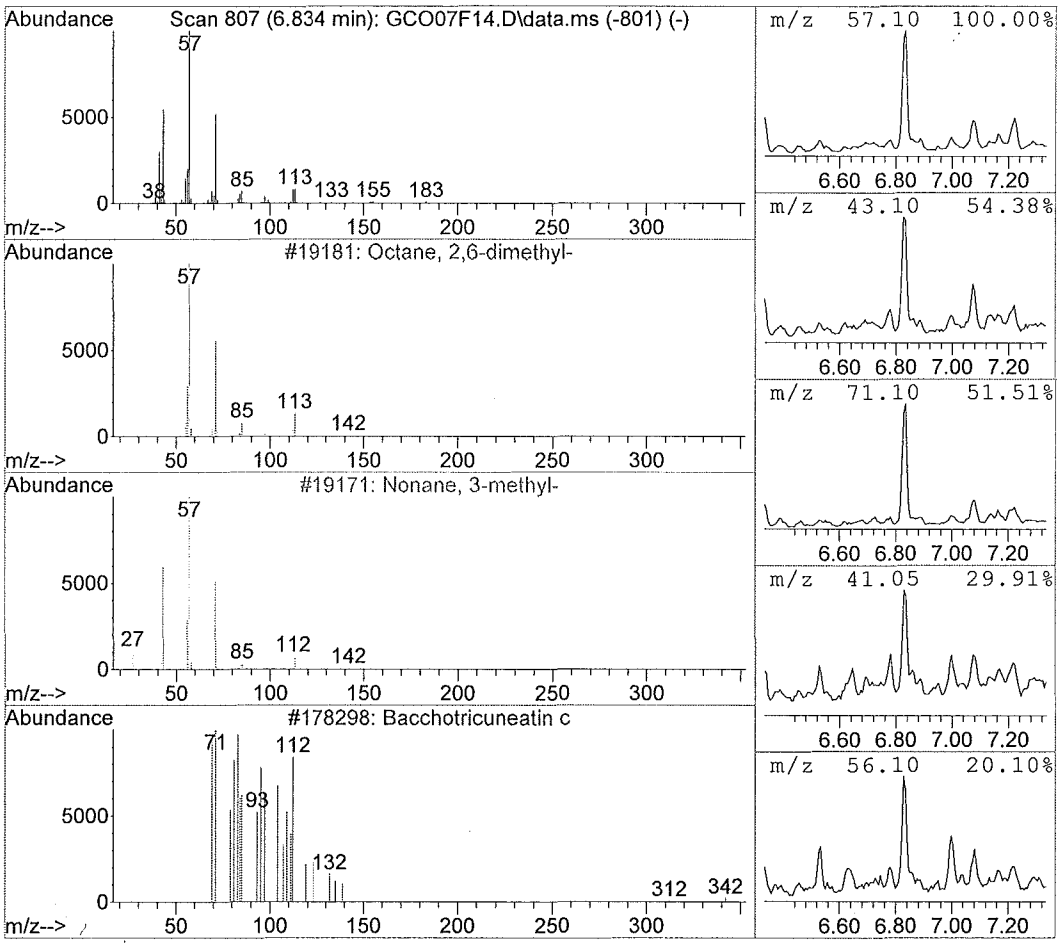
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.83	2.80 ug/ml	432441	Naphthalene-d8	3090188

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 2,6-dimethyl- BA	19181	002051-30-1	72.00
2	Nonane, 3-methyl-	19171	005911-04-6	72.00
3	Bacchotricuneatin c	178298	066563-30-2	64.00
4	Sulfurous acid, butyl 2-ethylhexyl	101977	1000309-18-8	59.00
5	Sulfurous acid, 2-ethylhexyl undecy	182581	1000309-19-4	53.00



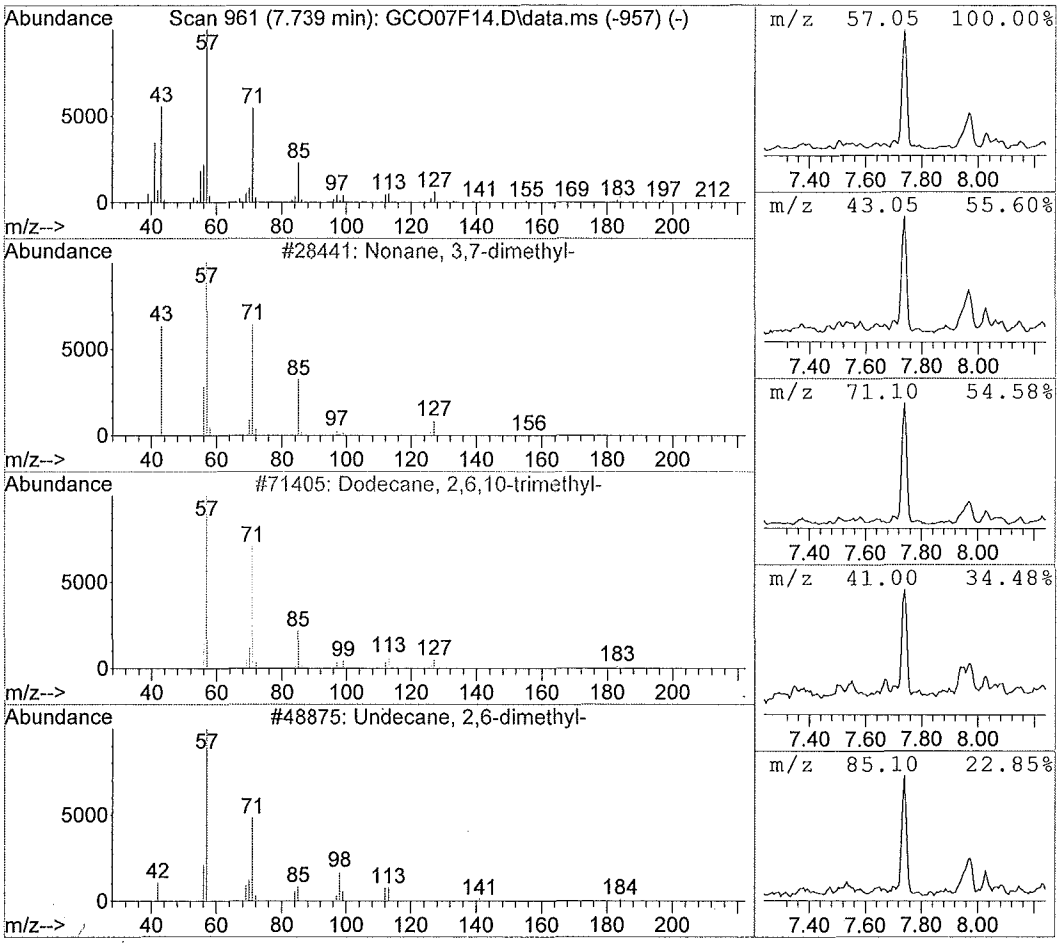
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.74	4.70 ug/ml	791158	Acenaphthene-d10	3367741

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonane, 3,7-dimethyl-	28441	017302-32-8	80.00
2	Dodecane, 2,6,10-trimethyl- BA	71405	003891-98-3	72.00
3	Undecane, 2,6-dimethyl-	48875	017301-23-4	64.00
4	Dodecane, 2,7,10-trimethyl-	71407	074645-98-0	64.00
5	Nonane, 2-methyl-5-propyl-	48913	031081-17-1	59.00



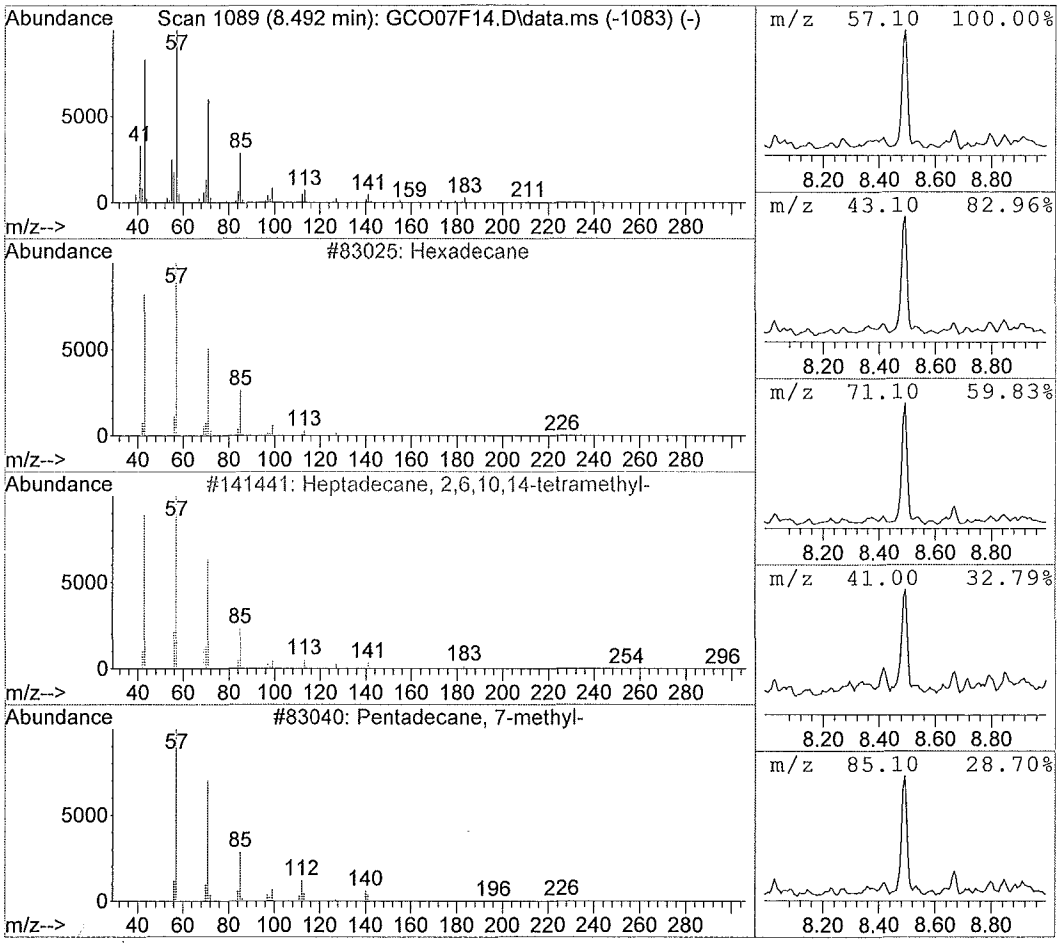
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.49	6.37 ug/ml	1073081	Acenaphthene-d10	3367741

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane SA	83025	000544-76-3	94.00
2	Heptadecane, 2,6,10,14-tetramethyl-	141441	018344-37-1	91.00
3	Pentadecane, 7-methyl-	83040	006165-40-8	90.00
4	Undecane, 4,6-dimethyl-	48869	017312-82-2	87.00
5	Tridecane	48832	000629-50-5	86.00



Library Search Compound Report

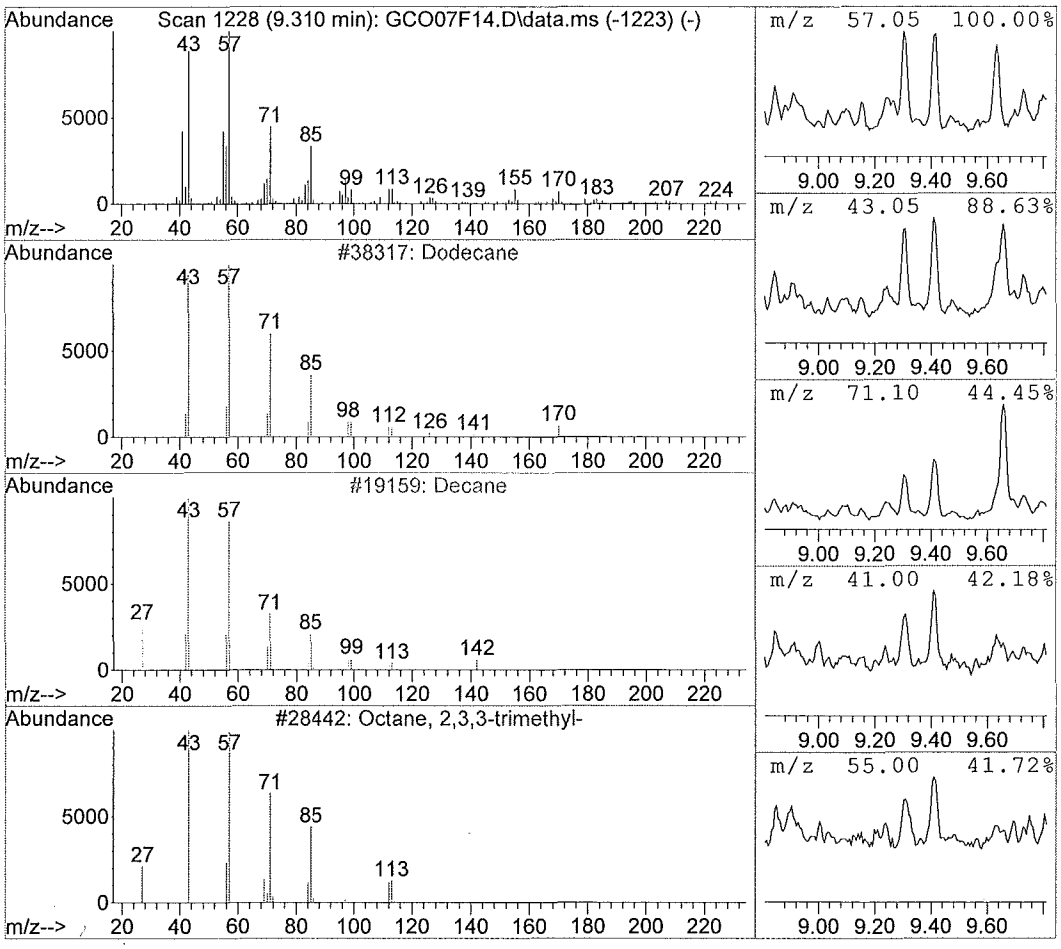
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.31	2.36 ug/ml	397260	Acenaphthene-d10	3367741

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane	38317	000112-40-3	90.00
2	Decane	19159	000124-18-5	64.00
3	Octane, 2,3,3-trimethyl-	28442	062016-30-2	64.00
4	Sulfurous acid, butyl undecyl ester	137567	1000309-17-8	64.00
5	Tetradecane, 2,6,10-trimethyl-	94356	014905-56-7	58.00

SA



Library Search Compound Report

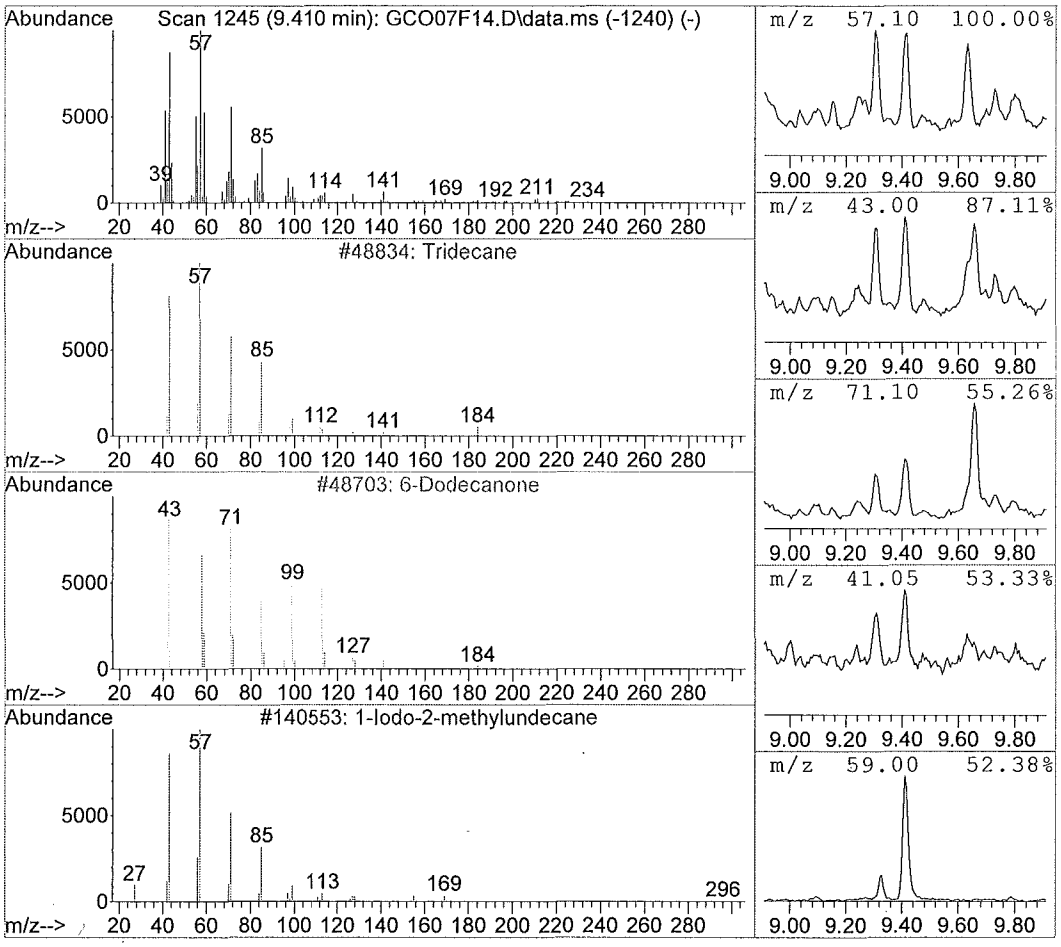
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.41	2.56 ug/ml	431758	Acenaphthene-d10	3367741

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane	48834	000629-50-5	50.00
2	6-Dodecanone	48703	006064-27-3	46.00
3	1-Iodo-2-methylundecane	140553	073105-67-6	46.00
4	Octadecane, 2-methyl-	117646	001560-88-9	46.00
5	Tetradecane	59881	000629-59-4	46.00

5A



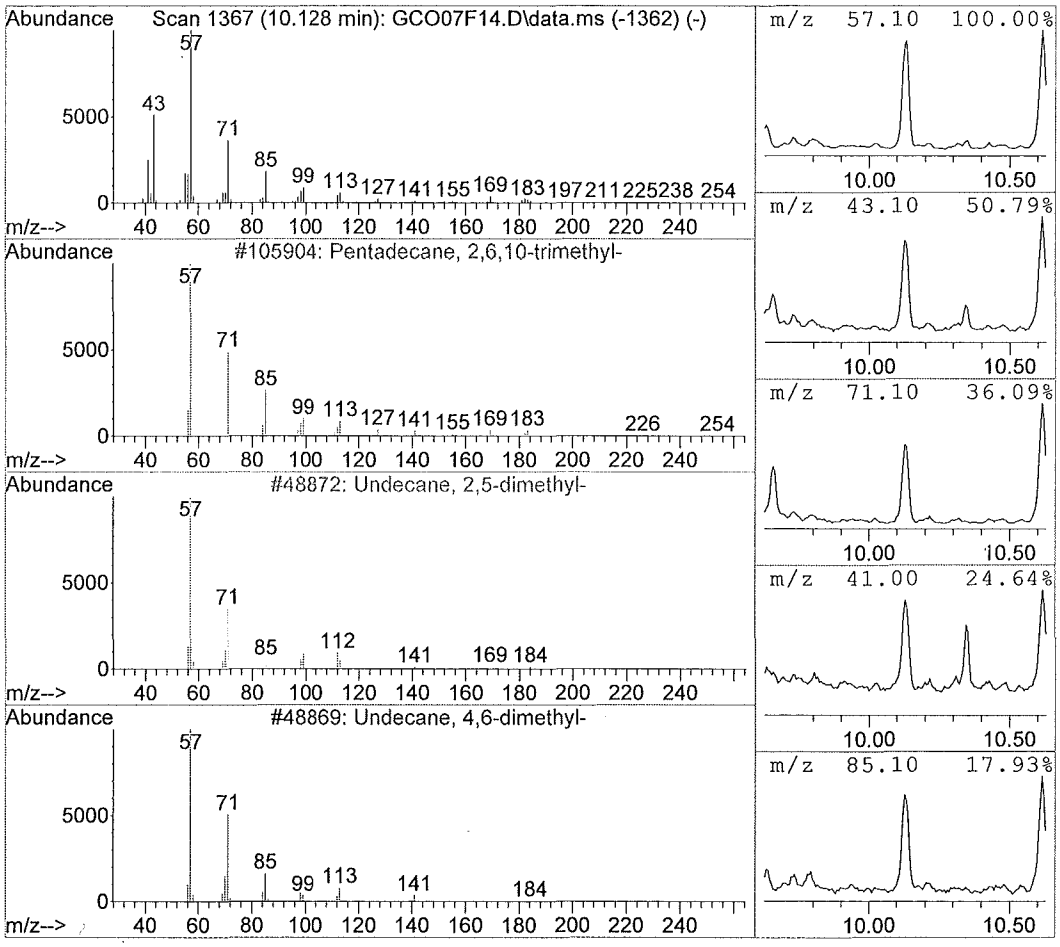
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.13	6.29 ug/ml	1059436	Acenaphthene-d10	3367741

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane, 2,6,10-trimethyl- BA	105904	003892-00-0	91.00
2	Undecane, 2,5-dimethyl-	48872	017301-22-3	81.00
3	Undecane, 4,6-dimethyl-	48869	017312-82-2	80.00
4	Decane, 2,6,8-trimethyl-	48893	062108-26-3	80.00
5	Dodecane, 4,9-dipropyl-	105902	003054-63-5	80.00



: 99472

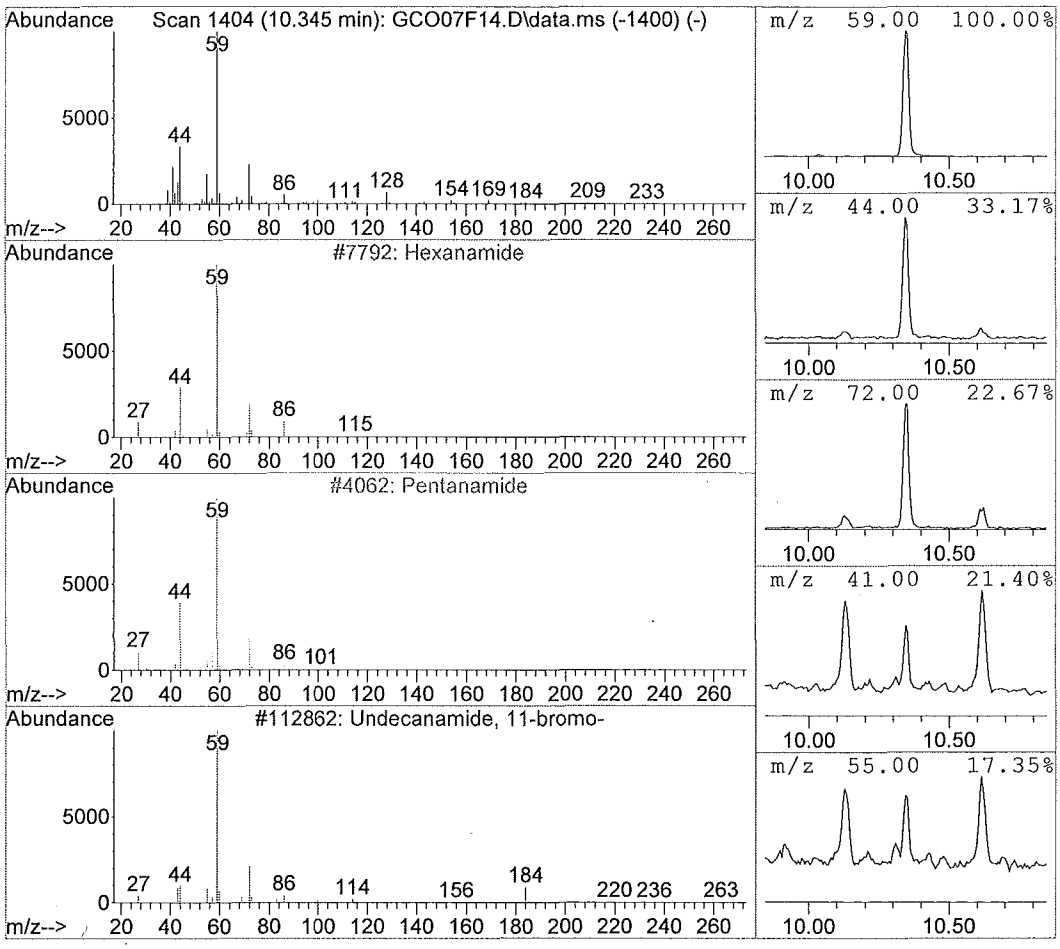
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.35	3.66 ug/ml	656541	Phenanthrene-d10	3584885

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexanamide	7792	000628-02-4	80.00
2	Pentanamide	4062	000626-97-1	78.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	72.00
4	Pentanamide, 4-methyl-	7815	001119-29-5	64.00
5	6,8-Dichlorooctanamide	70436	003579-00-8	53.00



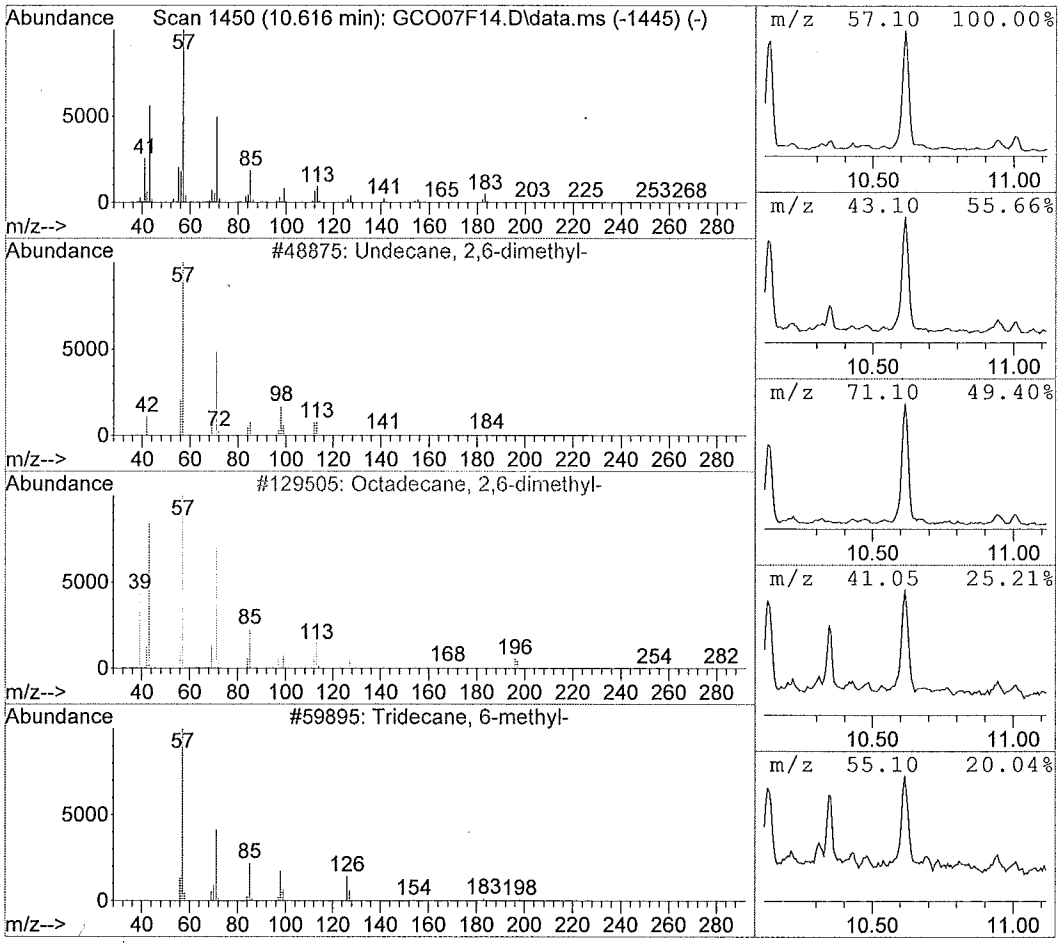
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.62	6.24 ug/ml	1118715	Phenanthrene-d10	3584885

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 2,6-dimethyl- BA	48875	017301-23-4	83.00
2	Octadecane, 2,6-dimethyl-	129505	075163-97-2	80.00
3	Tridecane, 6-methyl-	59895	013287-21-3	68.00
4	Undecane, 3,6-dimethyl-	48867	017301-28-9	62.00
5	Pentadecane, 2,6,10,14-tetramethyl-	117659	001921-70-6	58.00



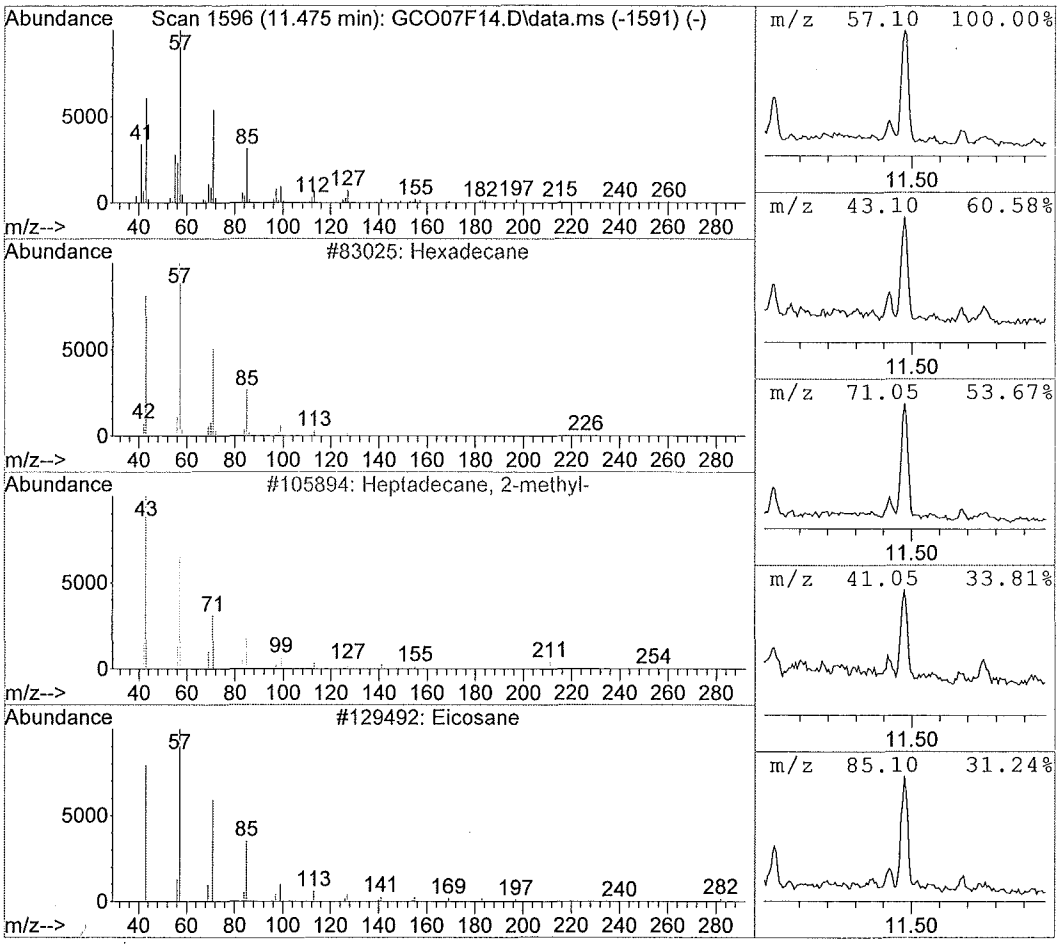
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.47	2.47 ug/ml	442063	Phenanthrene-d10	3584885

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane 5A	83025	000544-76-3	87.00
2	Heptadecane, 2-methyl-	105894	001560-89-0	81.00
3	Eicosane	129492	000112-95-8	80.00
4	Hexadecane, 4-methyl-	94350	025117-26-4	80.00
5	2-Bromo dodecane	100330	013187-99-0	80.00



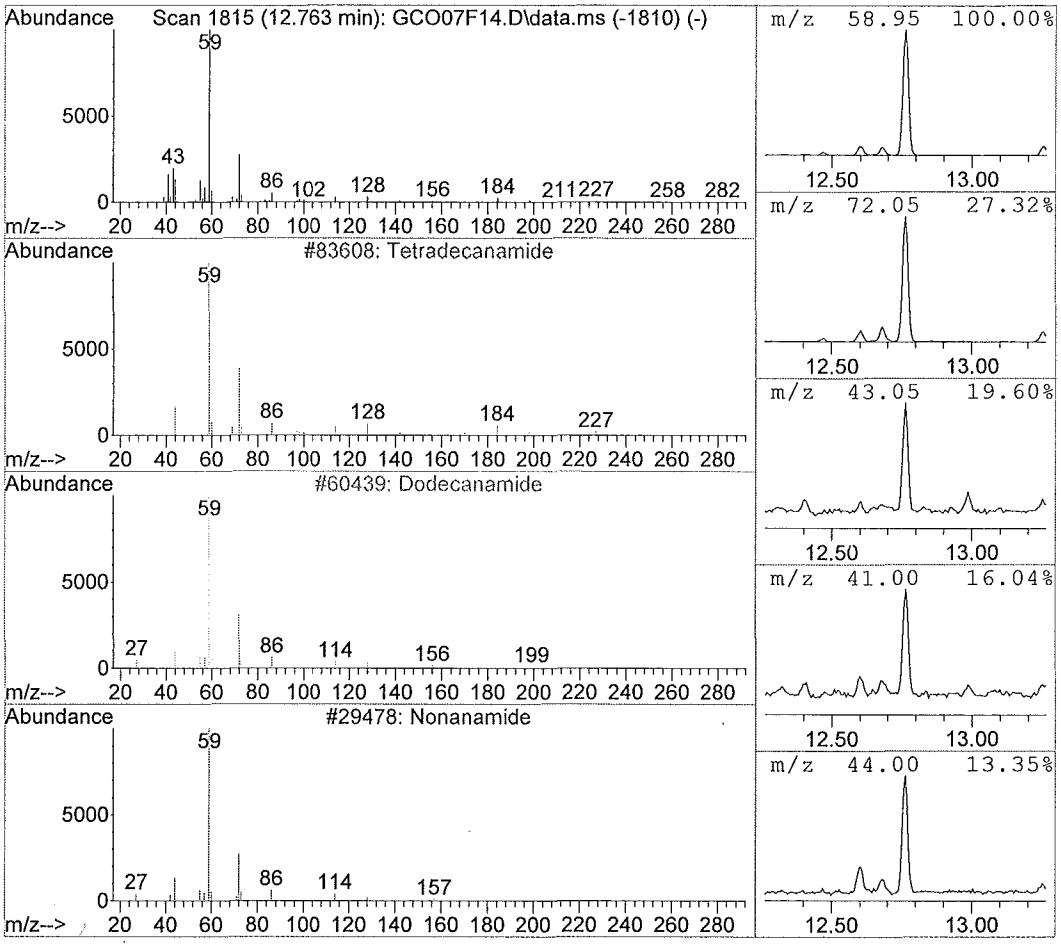
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.76	4.41 ug/ml	790044	Phenanthrene-d10	3584885

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	93.00
2	Dodecanamide	60439	001120-16-7	91.00
3	Nonanamide	29478	001120-07-6	83.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
5	Decanamide-	38977	002319-29-1	74.00



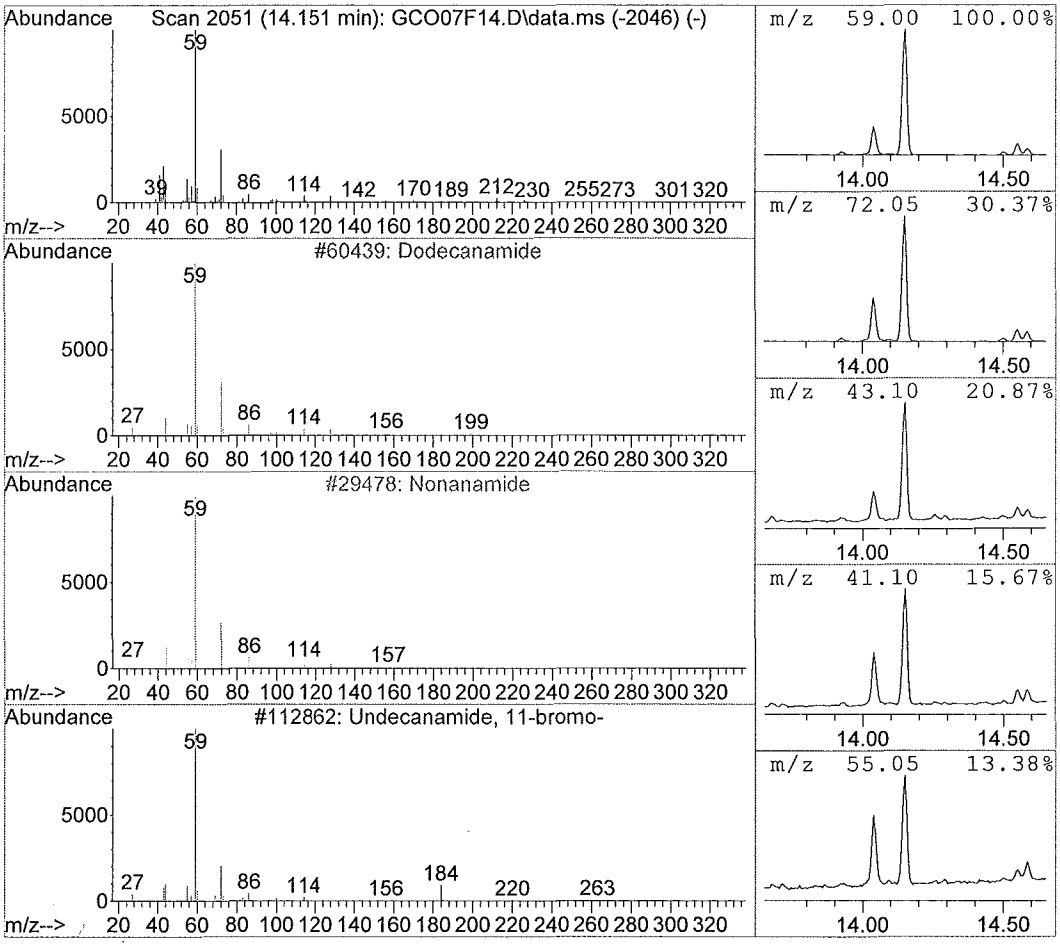
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	13.63 ug/ml	2797106	Chrysene-d12	4105712

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Nonanamide	29478	001120-07-6	78.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
4	Octanamide	20317	000629-01-6	56.00
5	Tetradecanamide	83608	000638-58-4	50.00



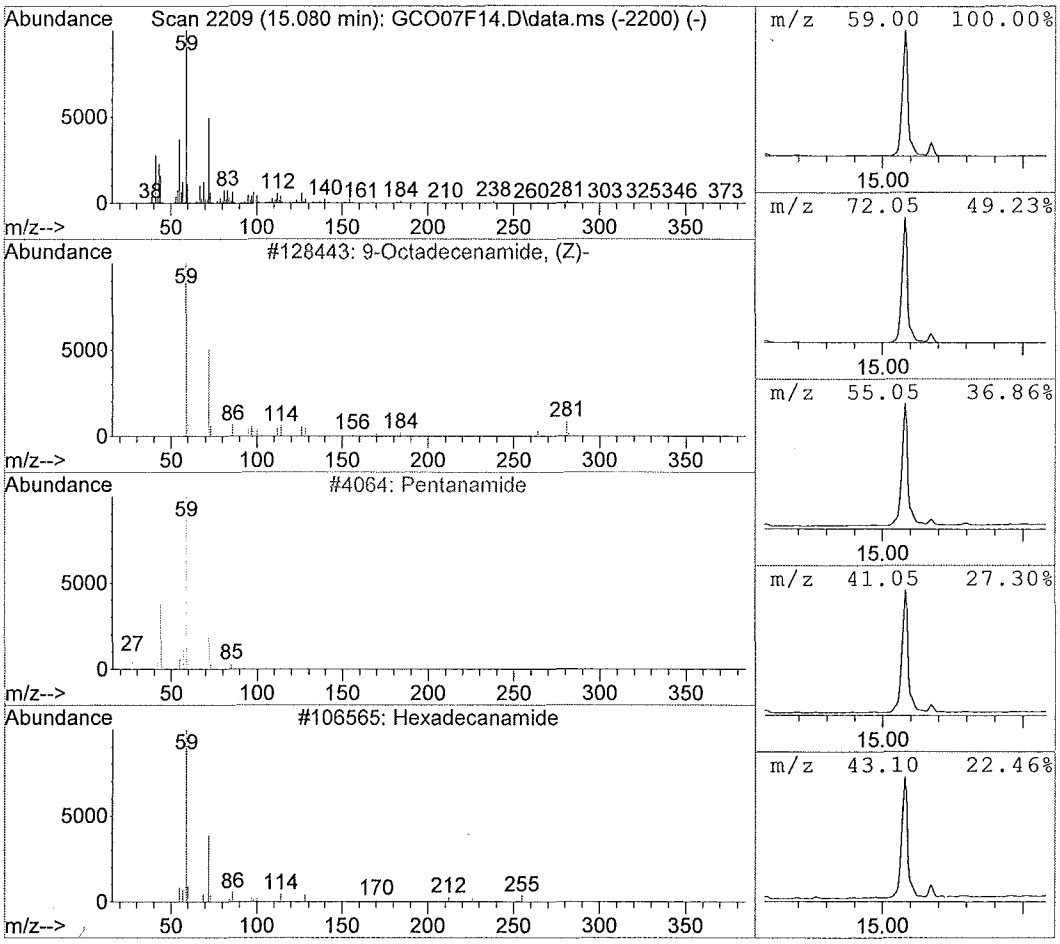
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.08	85.72 ug/ml	17597583	Chrysene-d12	4105712

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Pentanamide	4064	000626-97-1	59.00
3	Hexadecanamide	106565	000629-54-9	56.00
4	7-Nonenamide	28131	090949-53-4	56.00
5	Tetradecanamide	83608	000638-58-4	56.00



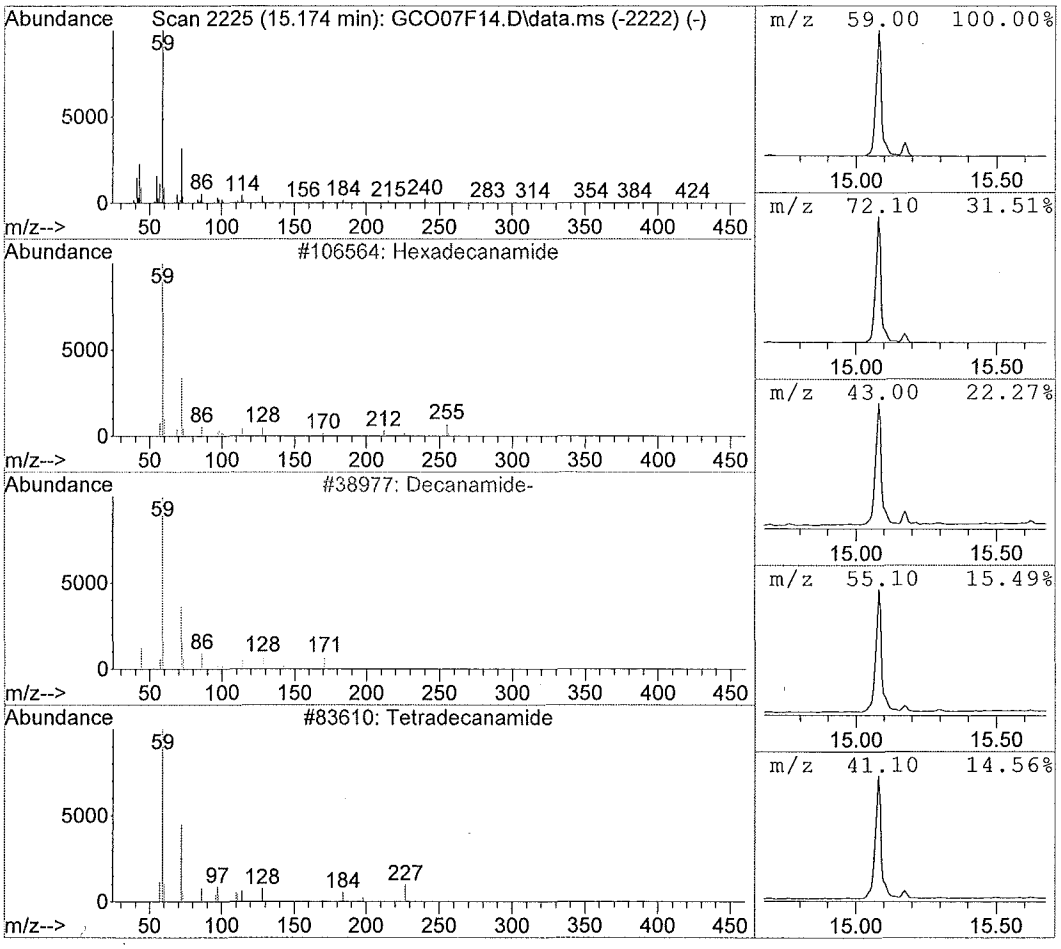
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	4.23 ug/ml	867538	Chrysene-d12	4105712

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	95.00
2	Decanamide-	38977	002319-29-1	87.00
3	Tetradecanamide	83610	000638-58-4	78.00
4	Dodecanamide	60439	001120-16-7	64.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	64.00



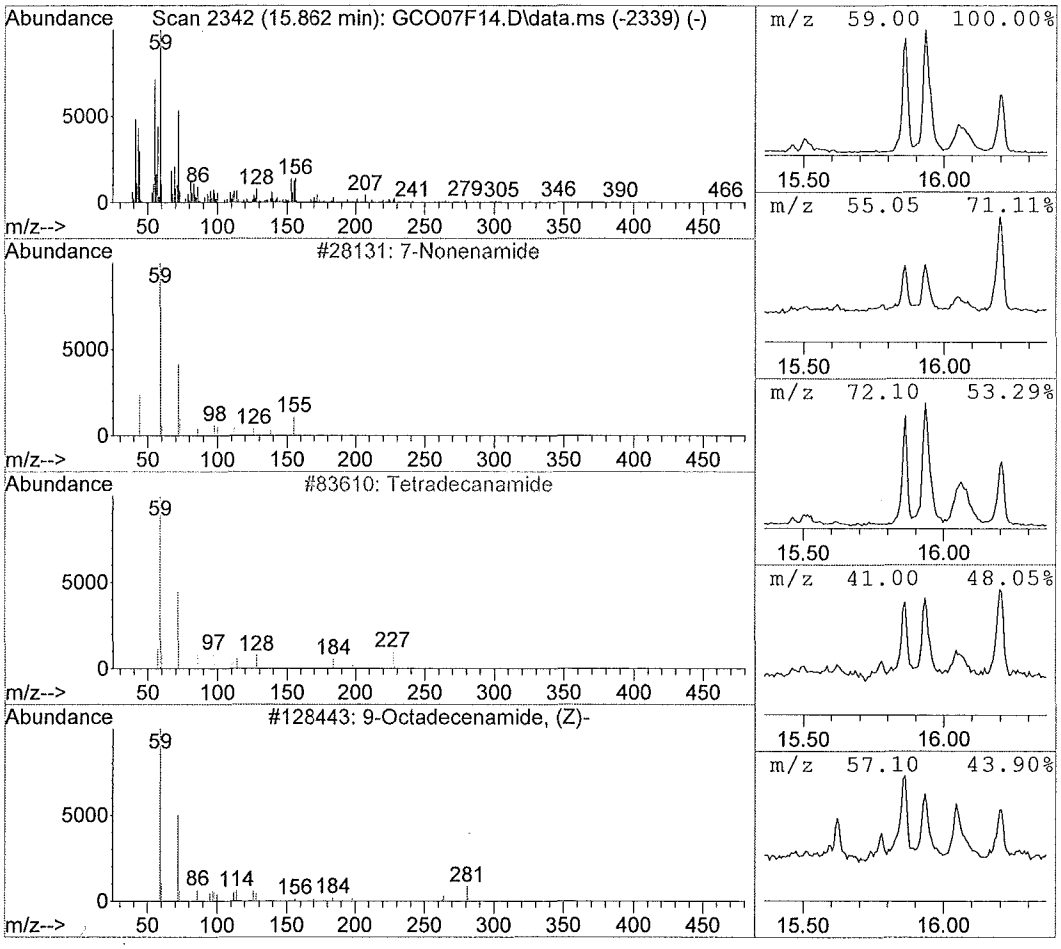
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.86	3.35 ug/ml	688090	Chrysene-d12	4105712

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	74.00
2	Tetradecanamide	83610	000638-58-4	62.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	58.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	53.00
5	Octadecanamide	130204	000124-26-5	53.00



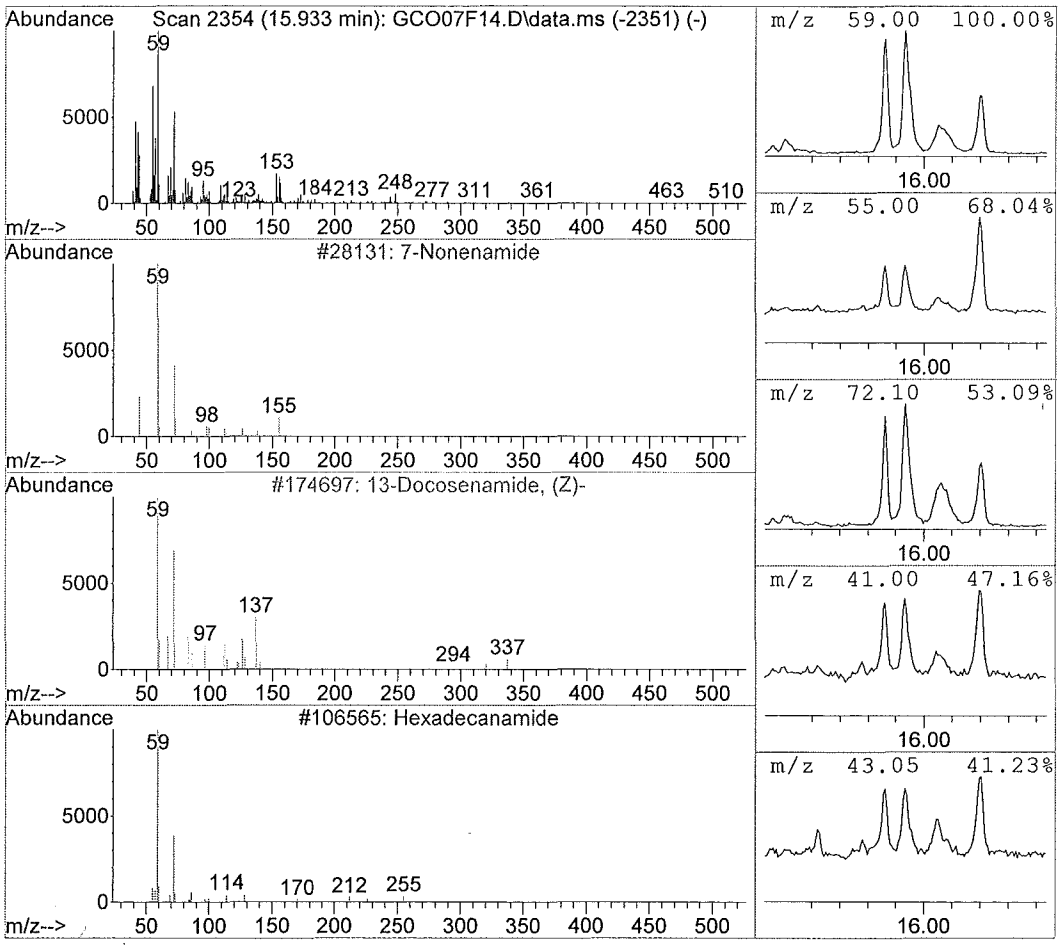
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.93	5.10 ug/ml	1046952	Chrysene-d12	4105712

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	68.00
2	13-Docosenamide, (Z)-	174697	000112-84-5	62.00
3	Hexadecanamide	106565	000629-54-9	53.00
4	Tetradecanamide	83610	000638-58-4	53.00
5	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	52.00



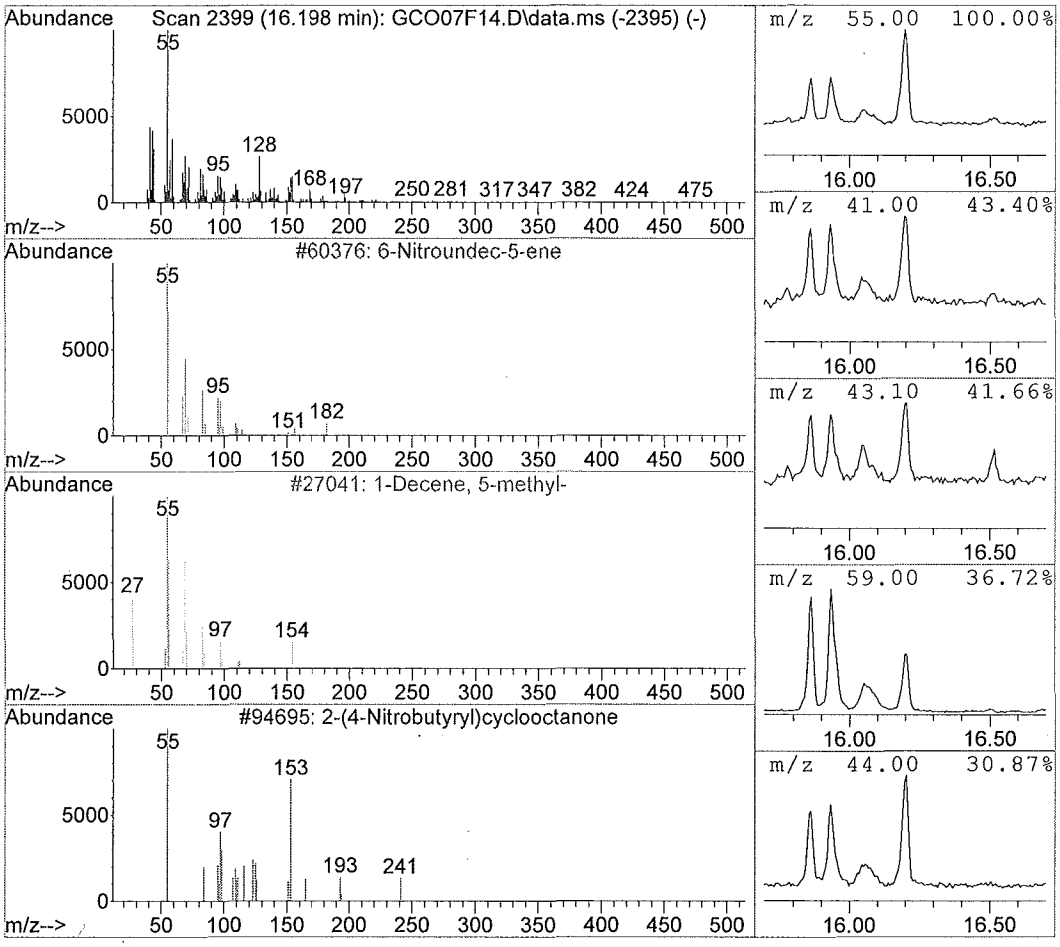
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	6.30 ug/ml	1293347	Chrysene-d12	4105712

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	6-Nitroundec-5-ene	60376	1000192-40-3	15.00
2	1-Decene, 5-methyl-	27041	054244-79-0	14.00
3	2-(4-Nitrobutyryl)cyclooctanone	94695	079630-93-6	14.00
4	2-Undecene, (E)-	27034	000693-61-8	14.00
5	5-Hydroxy-4-octanone	20853	000496-77-5	14.00



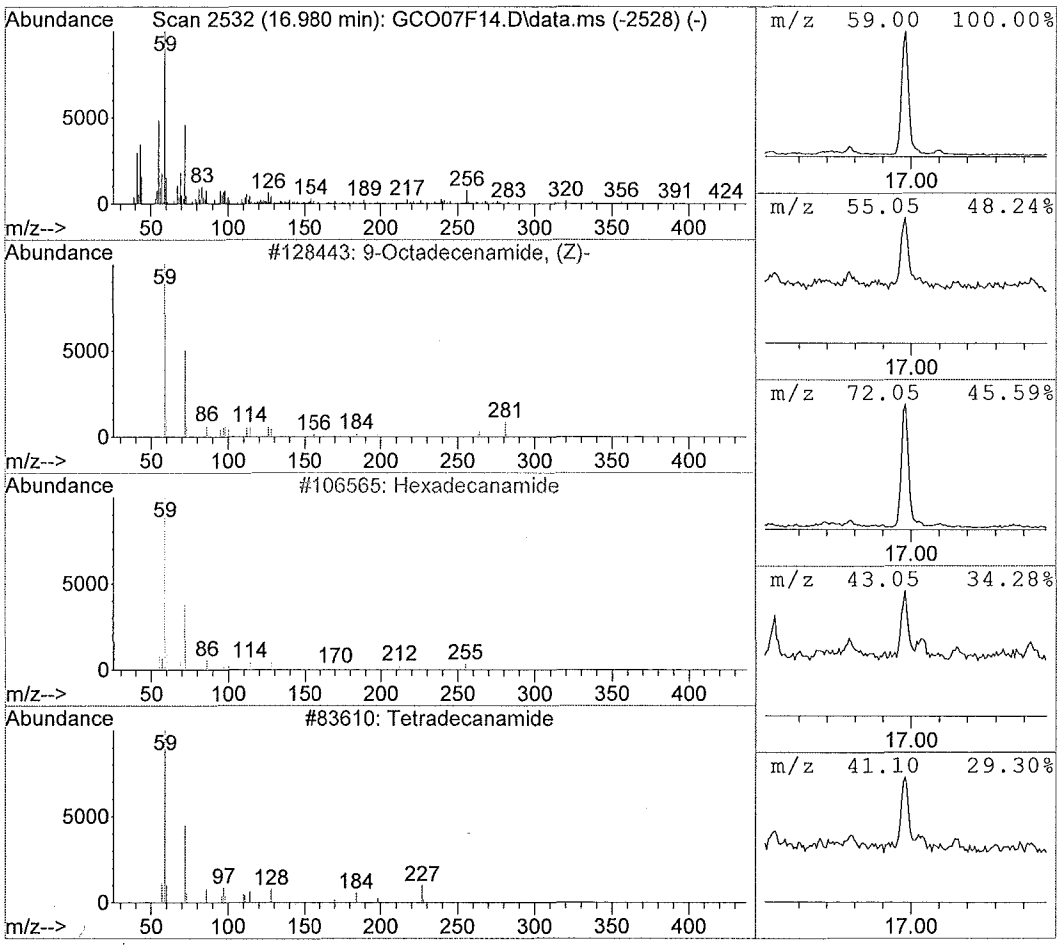
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO07F14.D Vial: 7
Acq On : 07/08/2015 11:30 Operator: TJM
Sample : 1515375014 F9M09 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.98	5.56 ug/ml	741819	Perylene-d12	2667253

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	87.00
2	Hexadecanamide	106565	000629-54-9	78.00
3	Tetradecanamide	83610	000638-58-4	78.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	72.00
5	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	72.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

F9M10

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375015

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GC008F15

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	3800	U
108-95-2	Phenol	3800	U
111-44-4	Bis(2-chloroethyl)ether	3800	U
95-57-8	2-Chlorophenol	3800	U
95-48-7	2-Methylphenol	3800	U
108-60-1	2,2'-Oxybis(1-chloropropane)	3800	U
98-86-2	Acetophenone	3800	U
106-44-5	4-Methylphenol	3800	U
621-64-7	N-Nitroso-di-n-propylamine	3800	U
67-72-1	Hexachloroethane	3800	U
98-95-3	Nitrobenzene	3800	U
78-59-1	Isophorone	3800	U
88-75-5	2-Nitrophenol	3800	U
105-67-9	2,4-Dimethylphenol	3800	U
111-91-1	Bis(2-chloroethoxy)methane	3800	U
120-83-2	2,4-Dichlorophenol	3800	U
91-20-3	Naphthalene	1200	J
106-47-8	4-Chloroaniline	3800	U
87-68-3	Hexachlorobutadiene	3800	U
105-60-2	Caprolactam	3800	U
59-50-7	4-Chloro-3-methylphenol	3800	U
91-57-6	2-Methylnaphthalene	6600	
77-47-4	Hexachlorocyclopentadiene	3800	U
88-06-2	2,4,6-Trichlorophenol	3800	U
95-95-4	2,4,5-Trichlorophenol	3800	U
92-52-4	1,1'-Biphenyl	3800	U
91-58-7	2-Chloronaphthalene	3800	U
88-74-4	2-Nitroaniline	7500	U
131-11-3	Dimethylphthalate	3800	U
606-20-2	2,6-Dinitrotoluene	3800	U
208-96-8	Acenaphthylene	3800	U
99-09-2	3-Nitroaniline	7500	U
83-32-9	Acenaphthene	3800	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9M10

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L98
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375015
Sample wt/vol: 30.1 (g/mL) g Lab File ID: GC008F15
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 12. Decanted: (Y/N) N Date Received: 06/02/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015
GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	7500	U
100-02-7	4-Nitrophenol	7500	U
132-64-9	Dibenzofuran	3800	U
121-14-2	2,4-Dinitrotoluene	3800	U
84-66-2	Diethylphthalate	3800	U
86-73-7	Fluorene	1100	J
7005-72-3	4-Chlorophenyl-phenylether	3800	U
100-01-6	4-Nitroaniline	7500	U
534-52-1	4,6-Dinitro-2-methylphenol	7500	U
86-30-6	N-Nitrosodiphenylamine[1]	3800	U
95-94-3	1,2,4,5-Tetrachlorobenzene	3800	U
101-55-3	4-Bromophenyl-phenylether	3800	U
118-74-1	Hexachlorobenzene	3800	U
1912-24-9	Atrazine	3800	U
87-86-5	Pentachlorophenol	7500	U
85-01-8	Phenanthrene	11000	
120-12-7	Anthracene	1000	J
86-74-8	Carbazole	3800	U
84-74-2	Di-n-butylphthalate	3800	U
206-44-0	Fluoranthene	1300	J
129-00-0	Pyrene	9300	
85-68-7	Butylbenzylphthalate	3800	U
91-94-1	3,3'-Dichlorobenzidine	3800	U
56-55-3	Benzo(a)anthracene	2500	J
218-01-9	Chrysene	5200	
117-81-7	Bis(2-ethylhexyl)phthalate	3800	U
117-84-0	Di-n-octylphthalate	3800	U
205-99-2	Benzo(b)fluoranthene	1300	J
207-08-9	Benzo(k)fluoranthene	3800	U
50-32-8	Benzo(a)pyrene	1400	J
193-39-5	Indeno(1,2,3-cd)pyrene	520	J
53-70-3	Dibenzo(a,h)anthracene	360	J
191-24-2	Benzo(g,h,i)perylene	640	J
58-90-2	2,3,4,6-Tetrachlorophenol	3800	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M10

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375015

Sample wt/vol: 30.1 (g/mL) g Lab File ID: GC008F15

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 20.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown 1,3-Cyclohexanedione, 4,5-dimethyl-	4.95	5700	J
02	54244-79-0	1-Decene, 5-methyl-	5.13	4800	JN
03	493-01-6	Naphthalene, decahydro-, cis-	5.26	8000	JN
04		Unknown 1-Hexanol, 2-ethyl-	5.56	7900	J
05	2958-76-1	Naphthalene, decahydro-2-methyl-	5.70	9900	JN
06		Unknown trans-Decalin, 2-methyl-	5.83	11000	J
07	527-53-7	Benzene, 1,2,3,5-tetramethyl-	5.95	9700	JN
08		Unknown Benzene, pentamethyl-	6.38	8900	J
09		Unknown 3,4-Dimethylcumene	6.46	5700	J
10		Unknown 2,4-Decadien-1-ol, (E,E)-	6.78	5500	J
11	66563-30-2	Bacchotricuneatin c	6.84	29000	JN
12	2809-64-5	Naphthalene, 1,2,3,4-tetrahydro-5-methyl-	6.95	6400	JN
13	24949-42-6	6-Tridecene, 7-methyl-	7.00	9400	JN
14	90-12-0	Naphthalene, 1-methyl-	7.39	6900	JN
15		Unknown 1-Decene	7.51	7000	J
16	575-43-9	Naphthalene, 1,6-dimethyl-	8.21	6400	JN
17	575-41-7	Naphthalene, 1,3-dimethyl-	8.38	7200	JN
18		Unknown 1-Pentadecene	8.80	4700	J
19	829-26-5	Naphthalene, 2,3,6-trimethyl-	9.09	8900	JN
20	941-81-1	4,6,8-Trimethylazulene	9.25	8100	JN
21	1000130-75-8	Z-2-Tridecen-1-ol	10.14	30000	JN
22	7372-88-5	Dibenzothiophene, 4-methyl-	12.13	4600	JN
23	832-69-9	Phenanthrene, 1-methyl-	12.46	5900	JN
24	2531-84-2	Phenanthrene, 2-methyl-	12.51	9500	JN
25	3674-66-6	Phenanthrene, 2,5-dimethyl-	13.47	5100	JN
26		Unknown Phenanthrene, 3,6-dimethyl-	13.52	4300	J
27		Unknown Dodecanamide	14.15	6700	J
28	2381-21-7	Pyrene, 1-methyl-	14.72	4200	JN
29	3353-12-6	Pyrene, 4-methyl-	14.84	4600	JN
30	301-02-0	9-Octadecenamide, (Z)-	15.08	51000	JNB
	E966796[2]	Total Alkanes	N/A	370000	J

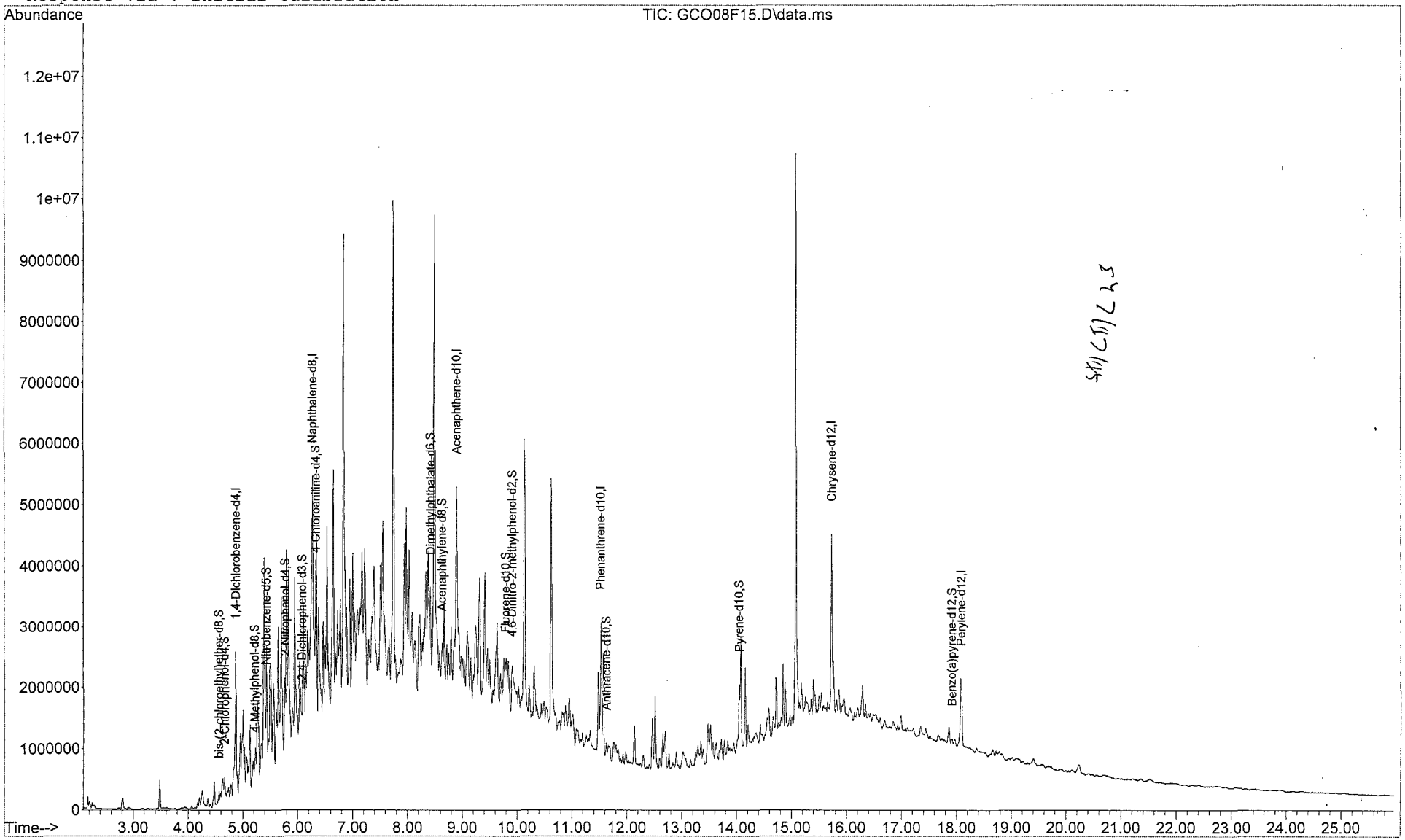
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 08:12:28 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 08:12:28 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	339265	20.00 ug/ml
16) Naphthalene-d8	6.27	136	1209419	20.00 ug/ml
33) Acenaphthene-d10	8.90	164	717877	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1254956	20.00 ug/ml
73) Chrysene-d12	15.73	240	1224726	20.00 ug/ml
81) Perylene-d12	18.08	264	832609	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	7694	0.261ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	45915	1.996ug/mL
7) 2-Chlorophenol-d4	4.66	132	26216	1.052ug/ml
13) 4-Methylphenol-d8	5.21	113	24017	1.216ug/mL
17) Nitrobenzene-d5	5.42	128	21026	1.979ug/ml
21) 2-Nitrophenol-d4	5.77	143	11834	1.054ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	22133	1.266ug/mL
28) 4-Chloroaniline-d4	6.32	131	198605	10.405ug/mL
42) Dimethylphthalate-d6	8.42	166	58494	1.299ug/mL
45) Acenaphthylene-d8	8.63	160	82381	1.347ug/mL
50) 4-Nitrophenol-d4	9.16	143	2625	0.286ug/mL
57) Fluorene-d10	9.79	176	56639	1.473ug/mL
61) 4,6-Dinitro-2-methylphenol	9.90	200	8104	0.910ug/mL
69) Anthracene-d10	11.62	188	94720	1.423ug/mL
75) Pyrene-d10	14.04	212	88418	1.447ug/mL
86) Benzo(a)pyrene-d12	17.92	264	55379	1.388ug/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	6.29	128	101008	1.652ug/ml	71
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	7.25	142	338863	8.758ug/ml	95
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 : R:\DJC\Data\2015\F9L98\08JUL15\GC008F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 08:12:28 2015 Results File: GSOM01D6.RES

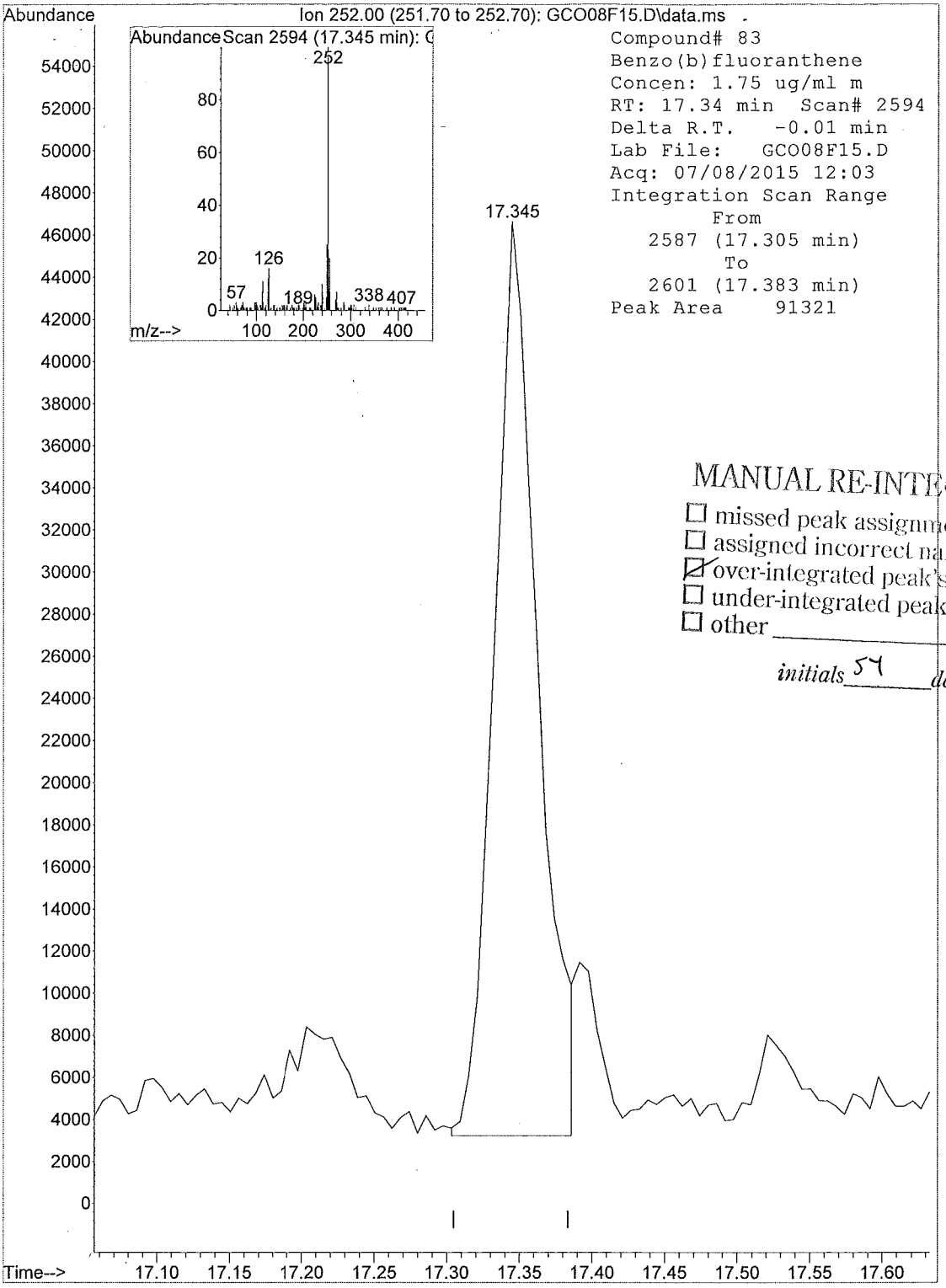
Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

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	9.85	166	63062	1.460ug/ml	90
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	11.56	178	957332	14.303ug/ml	99
68) Anthracene	11.66	178	90524	1.325ug/ml	56
70) Carbazole	0.00	167		Not Detected	
71) Di-n-butylphthalate	0.00	149		Not Detected	
72) Fluoranthene	13.72	202	131333	1.781ug/ml	99
74) Pyrene	14.07	202	965409	12.383ug/ml	96
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	15.72	228	246607	3.319ug/ml	68
79) Chrysene	15.76	228	463248	6.904ug/ml	81
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	17.34	252	91321	1.751ug/ml m	83
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	17.96	252	91304	1.861ug/ml m	97
87) Indeno(1,2,3-c,d)pyrene	20.73	276	30172	0.695ug/ml	75
88) Dibenzo(a,h)anthracene	20.79	278	20703	0.477ug/ml	63
89) Benzo(g,h,i)perylene	21.54	276	36191	0.847ug/ml	87

547/5715

(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(b)fluoranthene

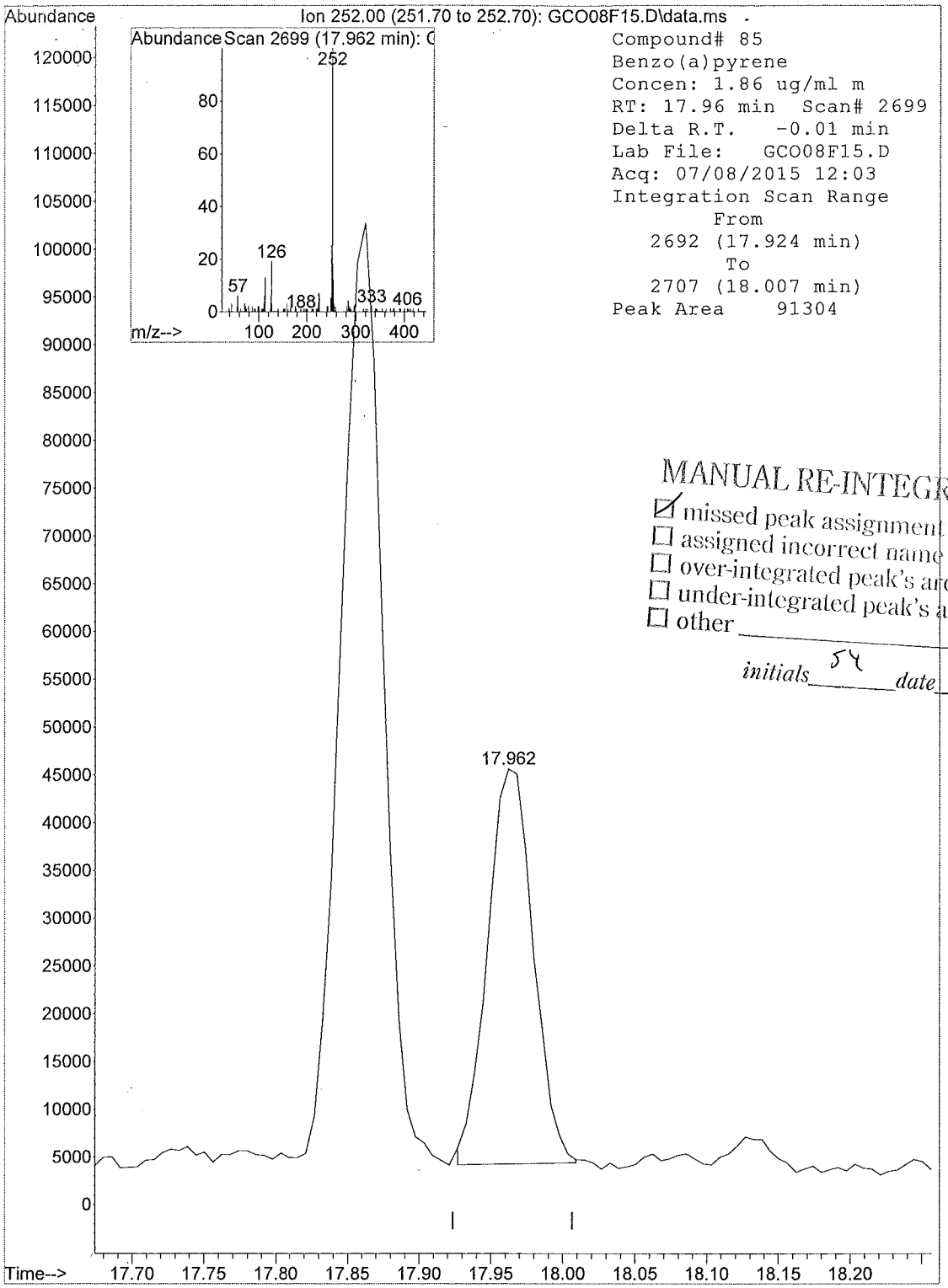


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 7/17/15

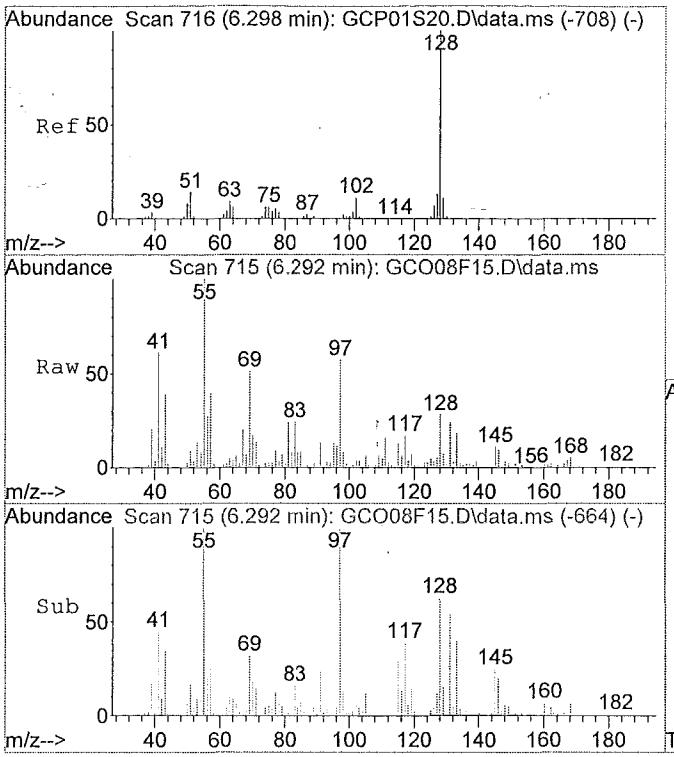
M A N U A L I N T E G R A T I O N FOR Benzo(a)pyrene



MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

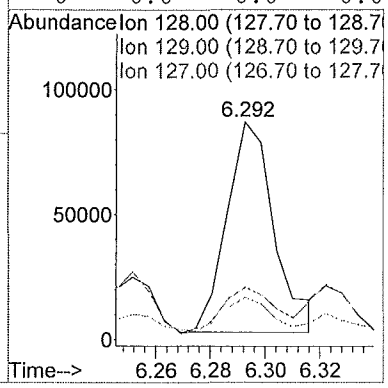
initials SY *date* 7/17/15

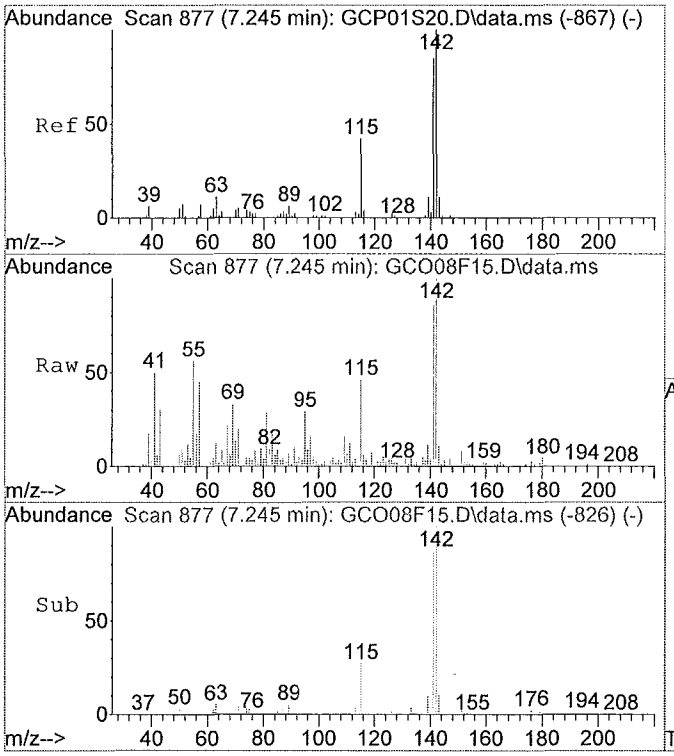


#26
Naphthalene
Concen: 1.65 ug/ml
RT: 6.29 min Scan# 715
Delta R.T. -0.00 min
Lab File: GCO08F15.D
Acq: 07/08/2015 12:03

Tgt Ion:128 Resp: 101008

Ion	Ratio	Lower	Upper
128	100		
129	28.7	7.8	14.4#
127	19.4	9.3	17.3#
0	0.0	0.0	0.0

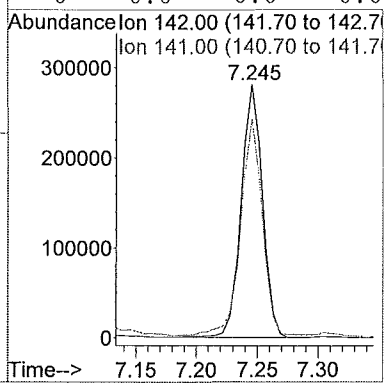


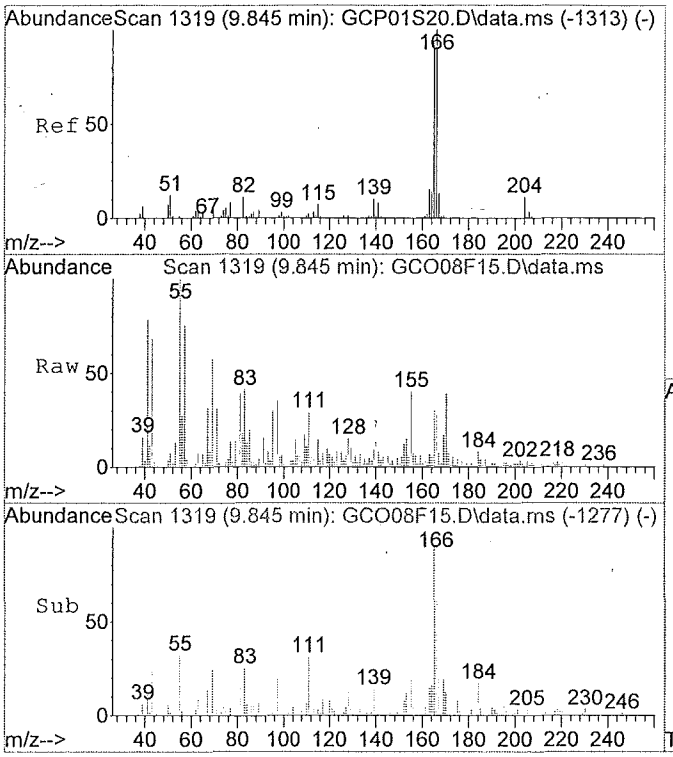


#32
2-Methylnaphthalene
Concen: 8.76 ug/ml
RT: 7.25 min Scan# 877
Delta R.T. -0.00 min
Lab File: GCO08F15.D
Acq: 07/08/2015 12:03

Tgt Ion:142 Resp: 338863

Ion	Ratio	Lower	Upper
142	100		
141	86.6	57.7	107.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

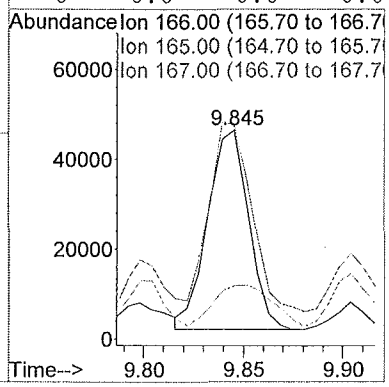


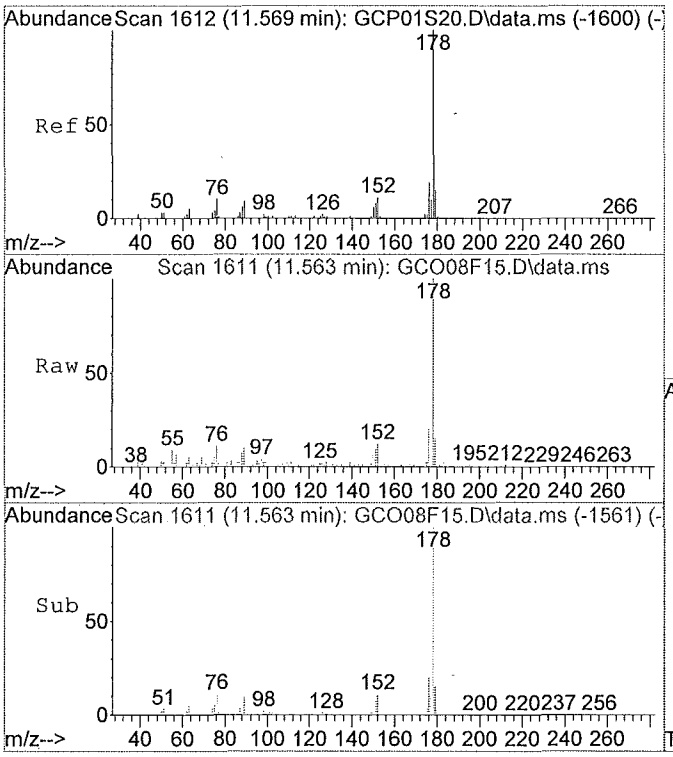


#56
Fluorene
Concen: 1.46 ug/ml
RT: 9.85 min Scan# 1319
Delta R.T. -0.00 min
Lab File: GCO08F15.D
Acq: 07/08/2015 12:03

Tgt Ion:166 Resp: 63062

Ion	Ratio	Lower	Upper
166	100		
165	96.6	63.8	118.4
167	29.2	9.3	17.3#
0	0.0	0.0	0.0

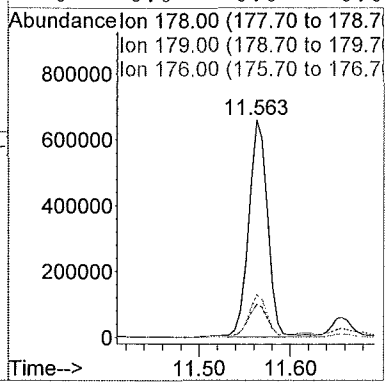


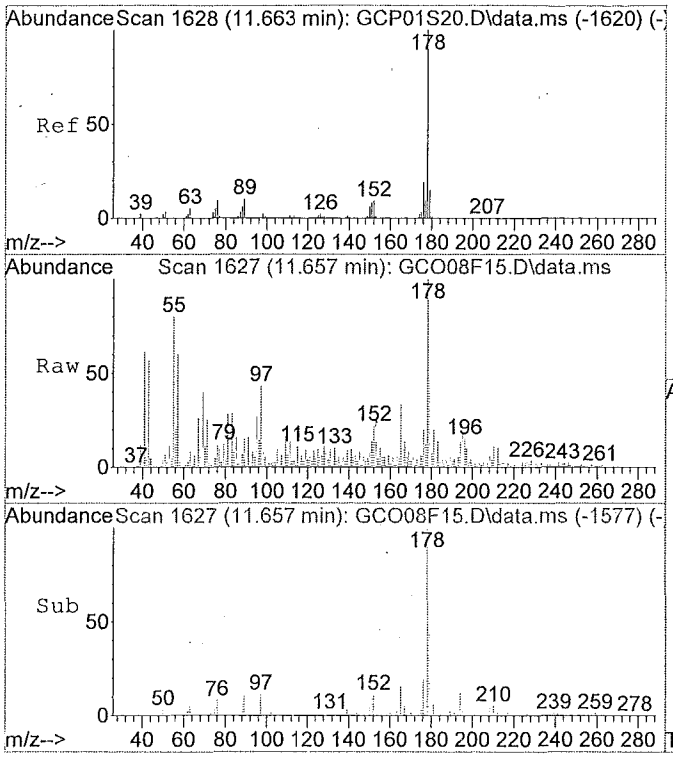


#67
Phenanthrene
Concen: 14.30 ug/ml
RT: 11.56 min Scan# 1611
Delta R.T. -0.01 min
Lab File: GCO08F15.D
Acq: 07/08/2015 12:03

Tgt Ion:178 Resp: 957332

Ion	Ratio	Lower	Upper
178	100		
179	15.4	10.6	19.8
176	19.5	13.2	24.4
0	0.0	0.0	0.0

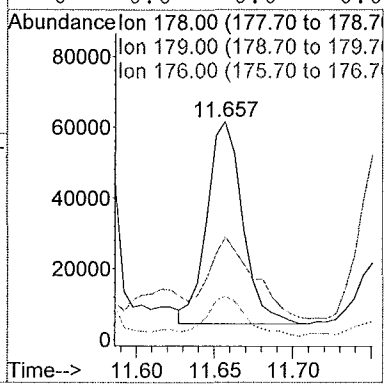


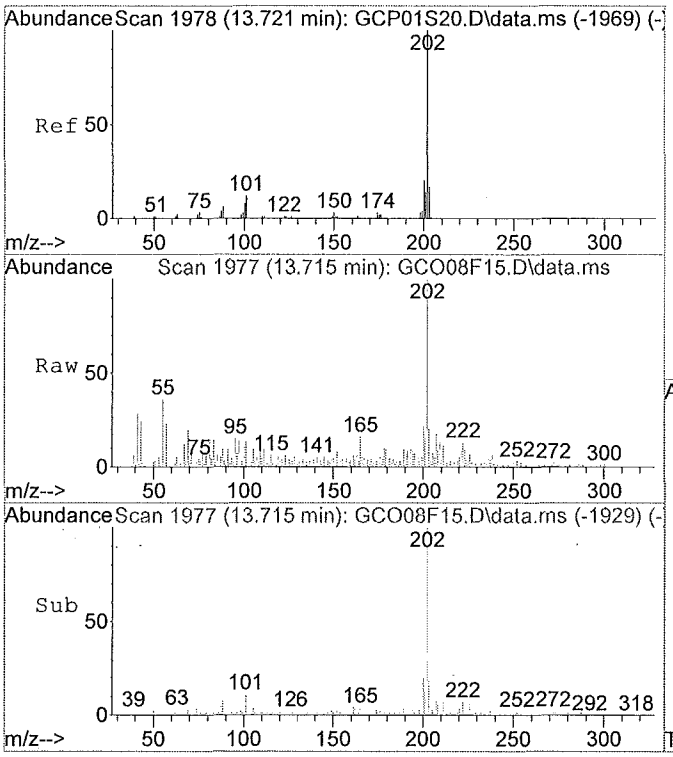


#68
Anthracene
Concen: 1.33 ug/ml
RT: 11.66 min Scan# 1627
Delta R.T. -0.01 min
Lab File: GCO08F15.D
Acq: 07/08/2015 12:03

Tgt Ion:178 Resp: 90524

Ion	Ratio	Lower	Upper
178	100		
179	51.2	10.5	19.5#
176	21.8	12.7	23.5
0	0.0	0.0	0.0

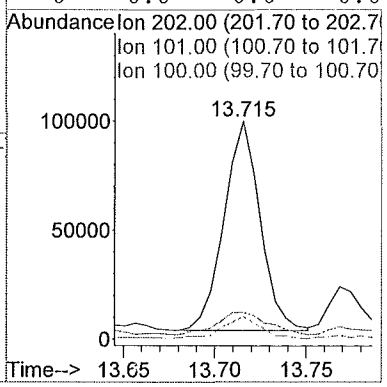


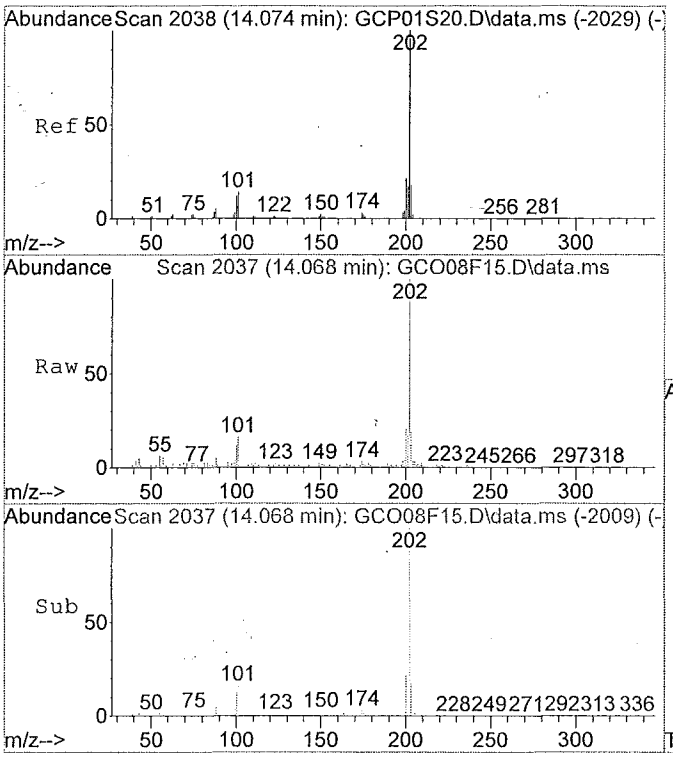


#72
Fluoranthene
Concen: 1.78 ug/ml
RT: 13.72 min Scan# 1977
Delta R.T. -0.01 min
Lab File: GCO08F15.D
Acq: 07/08/2015 12:03

Tgt Ion:202 Resp: 131333

Ion	Ratio	Lower	Upper
202	100		
101	15.0	10.5	19.5
100	11.1	7.4	13.8
0	0.0	0.0	0.0

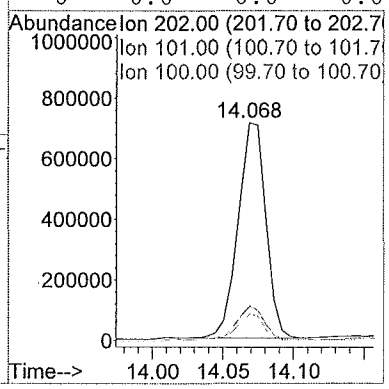


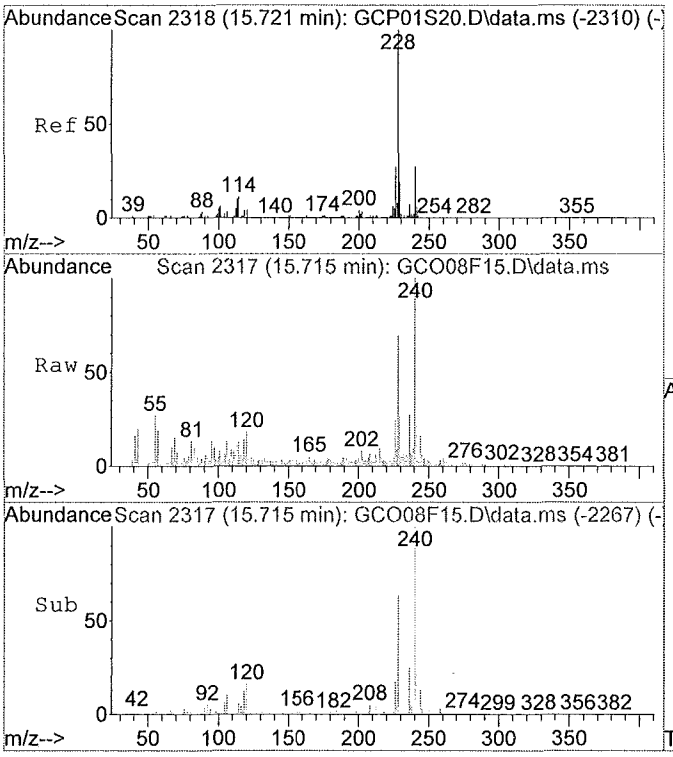


#74
Pyrene
Concen: 12.38 ug/ml
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: GCO08F15.D
Acq: 07/08/2015 12:03

Tgt Ion:202 Resp: 965409

Ion	Ratio	Lower	Upper
202	100		
101	15.6	12.2	22.7
100	13.4	10.1	18.7
0	0.0	0.0	0.0

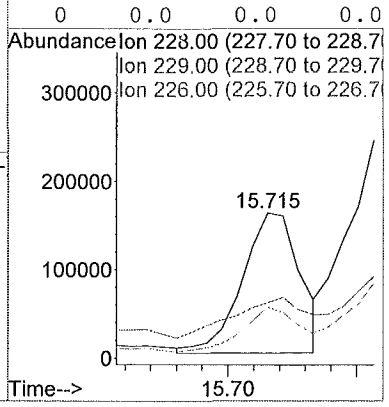


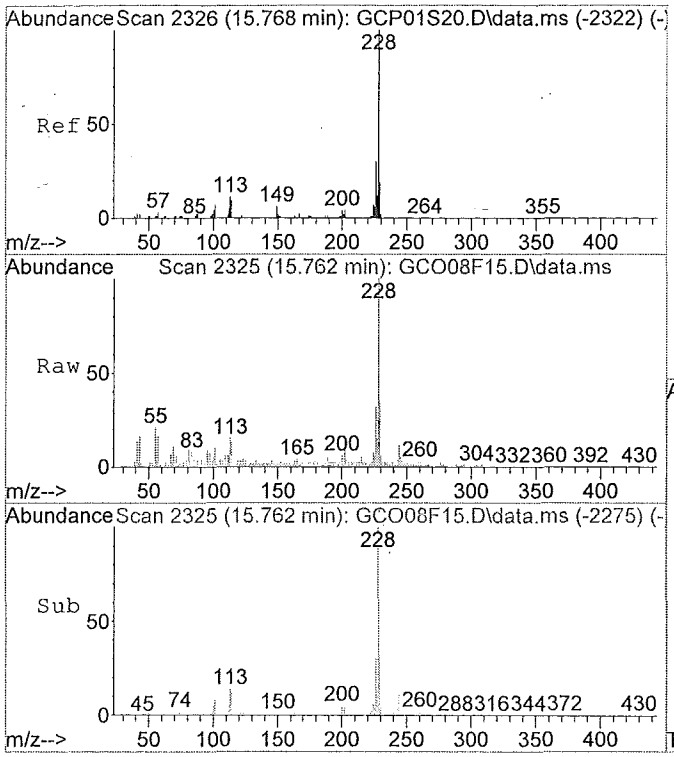


#78
Benzo(a)anthracene
Concen: 3.32 ug/ml
RT: 15.72 min Scan# 2317
Delta R.T. -0.01 min
Lab File: GCO08F15.D
Acq: 07/08/2015 12:03

Tgt Ion:228 Resp: 246607

Ion	Ratio	Lower	Upper
228	100		
229	44.9	13.7	25.5#
226	33.5	18.2	33.8
0	0.0	0.0	0.0

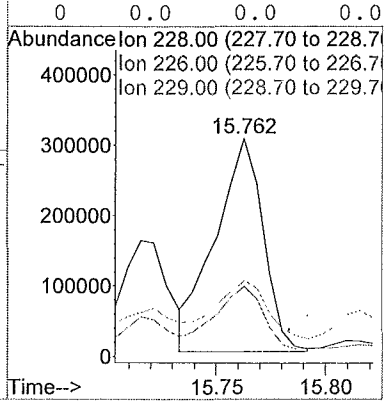


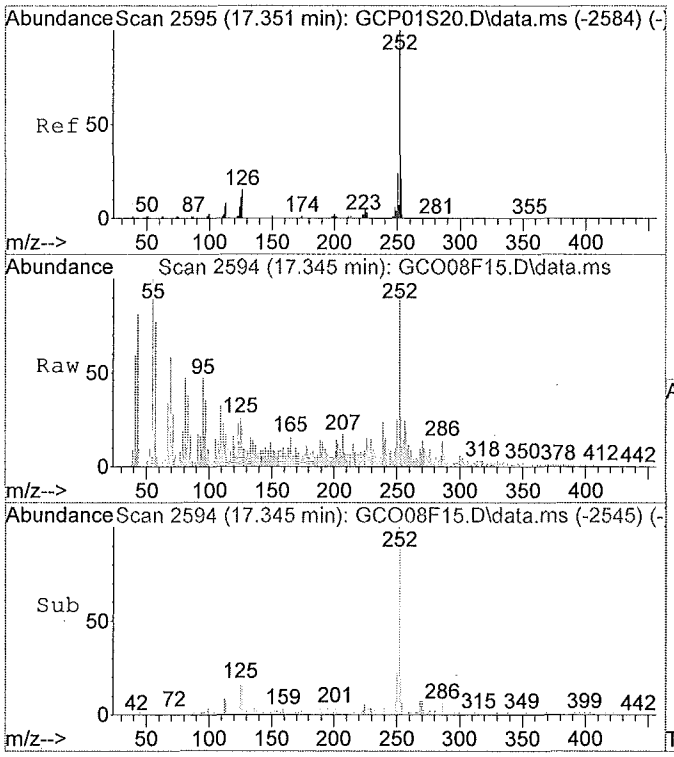


#79
Chrysene
Concen: 6.90 ug/ml
RT: 15.76 min Scan# 2325
Delta R.T. -0.01 min
Lab File: GCO08F15.D
Acq: 07/08/2015 12:03

Tgt Ion:228 Resp: 463248

Ion	Ratio	Lower	Upper
228	100		
226	33.5	20.1	37.3
229	35.1	13.7	25.5#
0	0.0	0.0	0.0

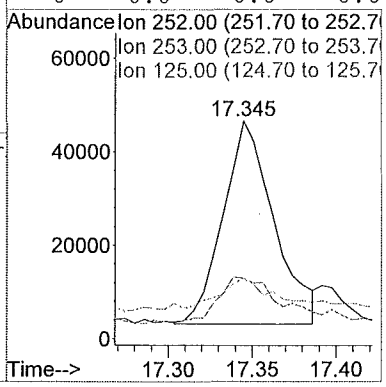


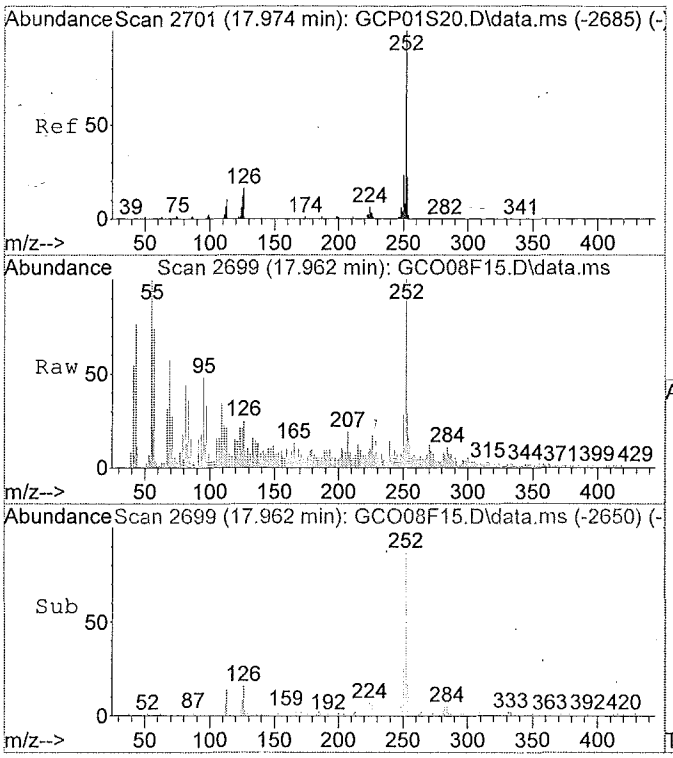


#83
Benzo(b)fluoranthene
Concen: 1.75 ug/ml m
RT: 17.34 min Scan# 2594
Delta R.T. -0.01 min
Lab File: GCO08F15.D
Acq: 07/08/2015 12:03

Tgt Ion:252 Resp: 91321

Ion	Ratio	Lower	Upper
252	100		
253	31.0	15.1	28.1#
125	24.9	10.6	19.8#
0	0.0	0.0	0.0

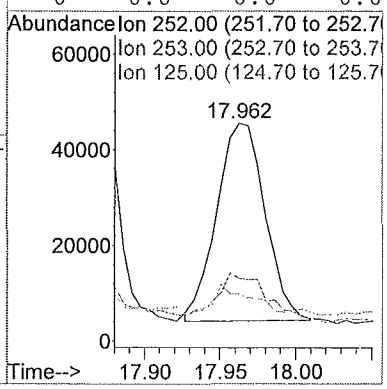


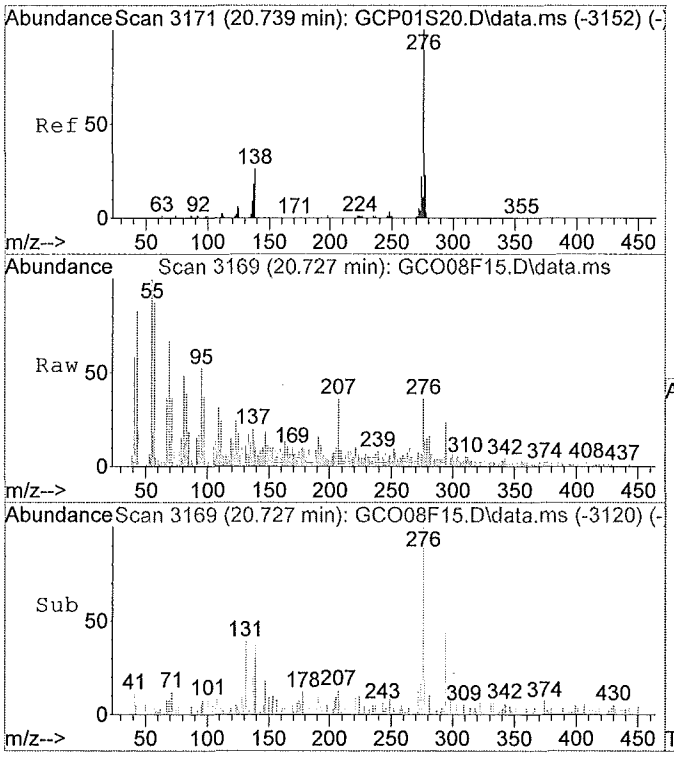


#85
Benzo(a)pyrene
Concen: 1.86 ug/ml m
RT: 17.96 min Scan# 2699
Delta R.T. -0.01 min
Lab File: GCO08F15.D
Acq: 07/08/2015 12:03

Tgt Ion:252 Resp: 91304

Ion	Ratio	Lower	Upper
252	100		
253	52.5	15.2	28.2#
125	38.1	11.8	21.8#
0	0.0	0.0	0.0

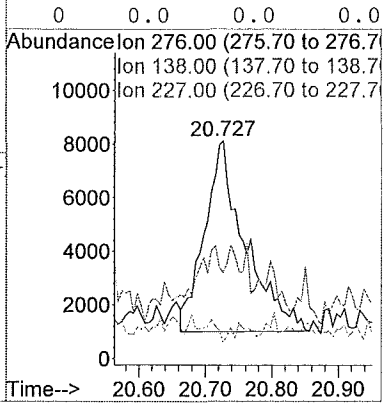


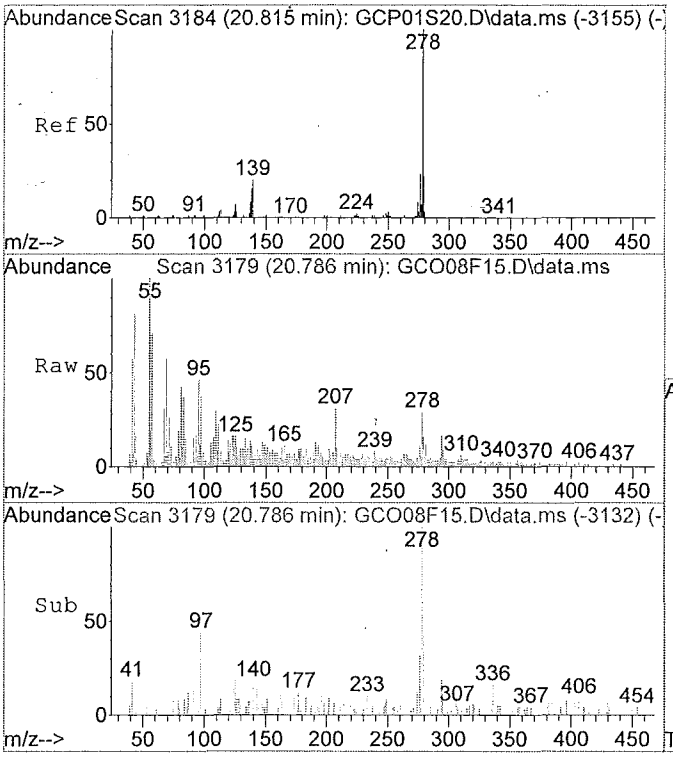


#87
Indeno(1,2,3-c,d)pyrene
Concen: 0.70 ug/ml
RT: 20.73 min Scan# 3169
Delta R.T. -0.01 min
Lab File: GCO08F15.D
Acq: 07/08/2015 12:03

Tgt Ion:276 Resp: 30172

Ion	Ratio	Lower	Upper
276	100		
138	17.8	22.3	41.5#
227	3.6	0.1	0.1#
0	0.0	0.0	0.0

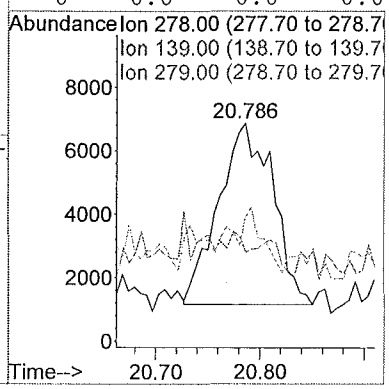


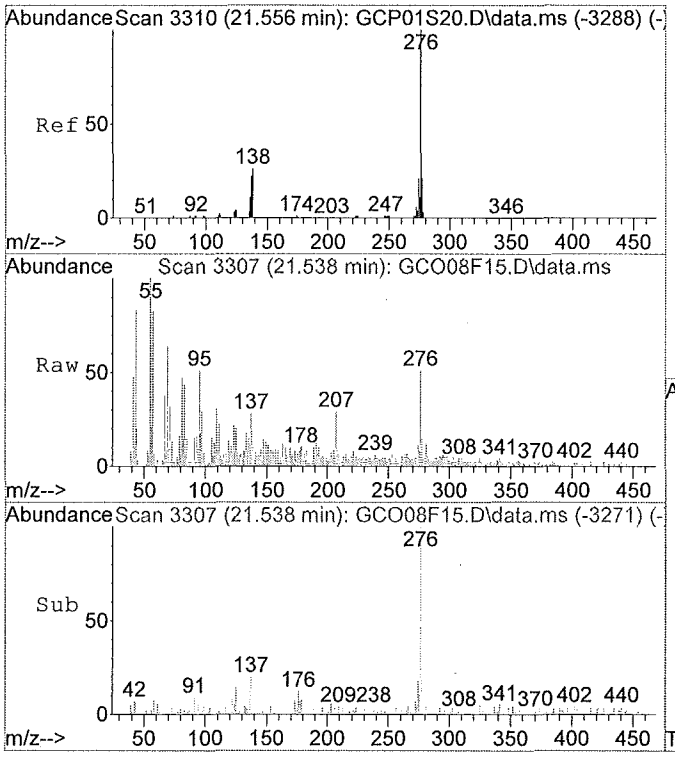


#88
Dibenzo(a,h)anthracene
Concen: 0.48 ug/ml
RT: 20.79 min Scan# 3179
Delta R.T. -0.02 min
Lab File: GCO08F15.D
Acq: 07/08/2015 12:03

Tgt Ion:278 Resp: 20703

Ion	Ratio	Lower	Upper
278	100		
139	0.0	17.3	32.1#
279	12.0	16.3	30.3#
0	0.0	0.0	0.0

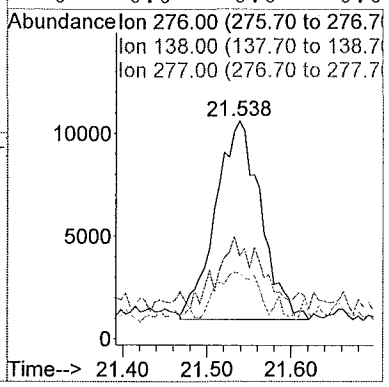




#89
Benzo(g,h,i)perylene
Concen: 0.85 ug/ml
RT: 21.54 min Scan# 3307
Delta R.T. -0.02 min
Lab File: GCO08F15.D
Acq: 07/08/2015 12:03

Tgt Ion:276 Resp: 36191

Ion	Ratio	Lower	Upper
276	100		
138	22.3	24.1	44.7#
277	22.7	16.7	30.9
0	0.0	0.0	0.0



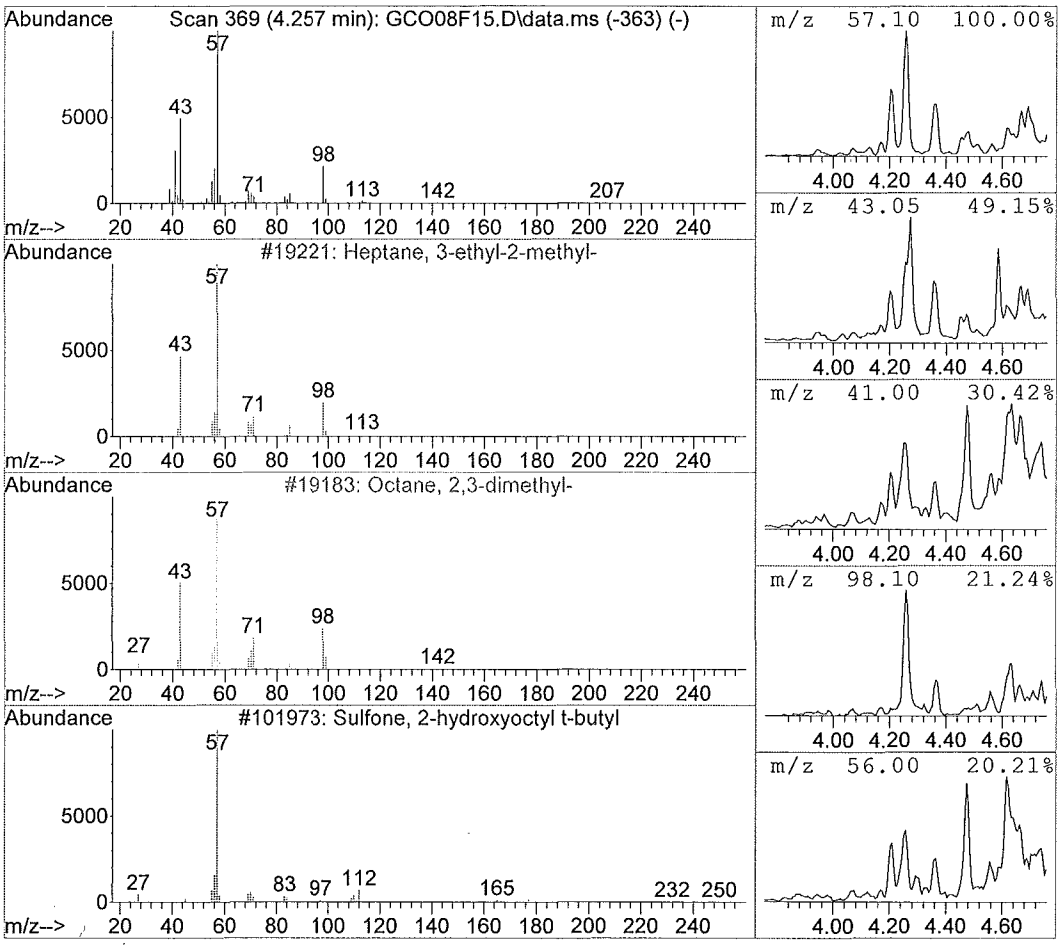
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.26	2.48 ug/ml	506108	1,4-Dichlorobenzene-d4	4082560

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 3-ethyl-2-methyl- BA	19221	014676-29-0	53.00
2	Octane, 2,3-dimethyl-	19183	007146-60-3	50.00
3	Sulfone, 2-hydroxyoctyl t-butyl	101973	1000161-82-7	47.00
4	Hexane, 3-ethyl-2,5-dimethyl-	19229	052897-04-8	43.00
5	1,3,2-Dioxaborolane, 4,4-dimethyl-5	19404	1000063-89-2	42.00



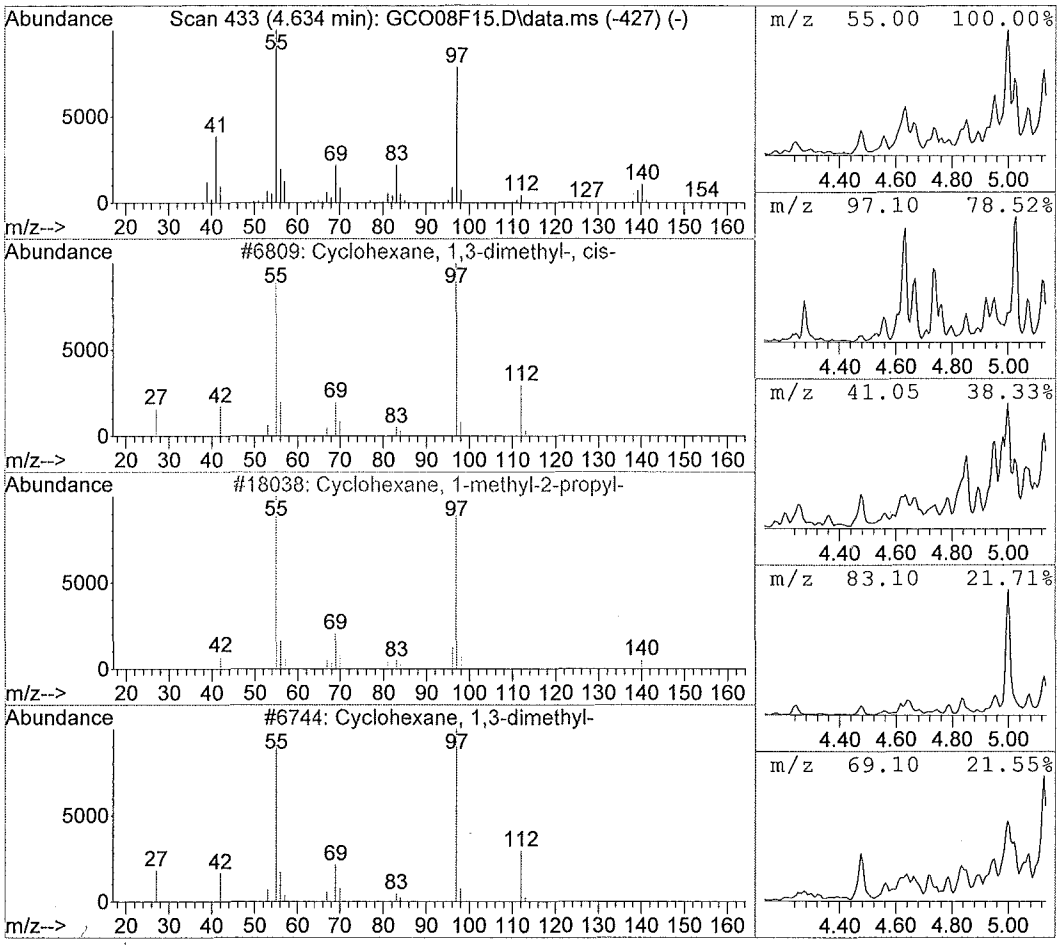
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	2.99 ug/ml	611351	1,4-Dichlorobenzene-d4	4082560

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- CA	6809	000638-04-0	81.00
2	Cyclohexane, 1-methyl-2-propyl-	18038	004291-79-6	81.00
3	Cyclohexane, 1,3-dimethyl-	6744	000591-21-9	68.00
4	Cyclohexane, 1-methyl-3-propyl-	18033	004291-80-9	64.00
5	Cyclohexane, 1-methyl-4-(1-methylet	18075	006069-98-3	62.00



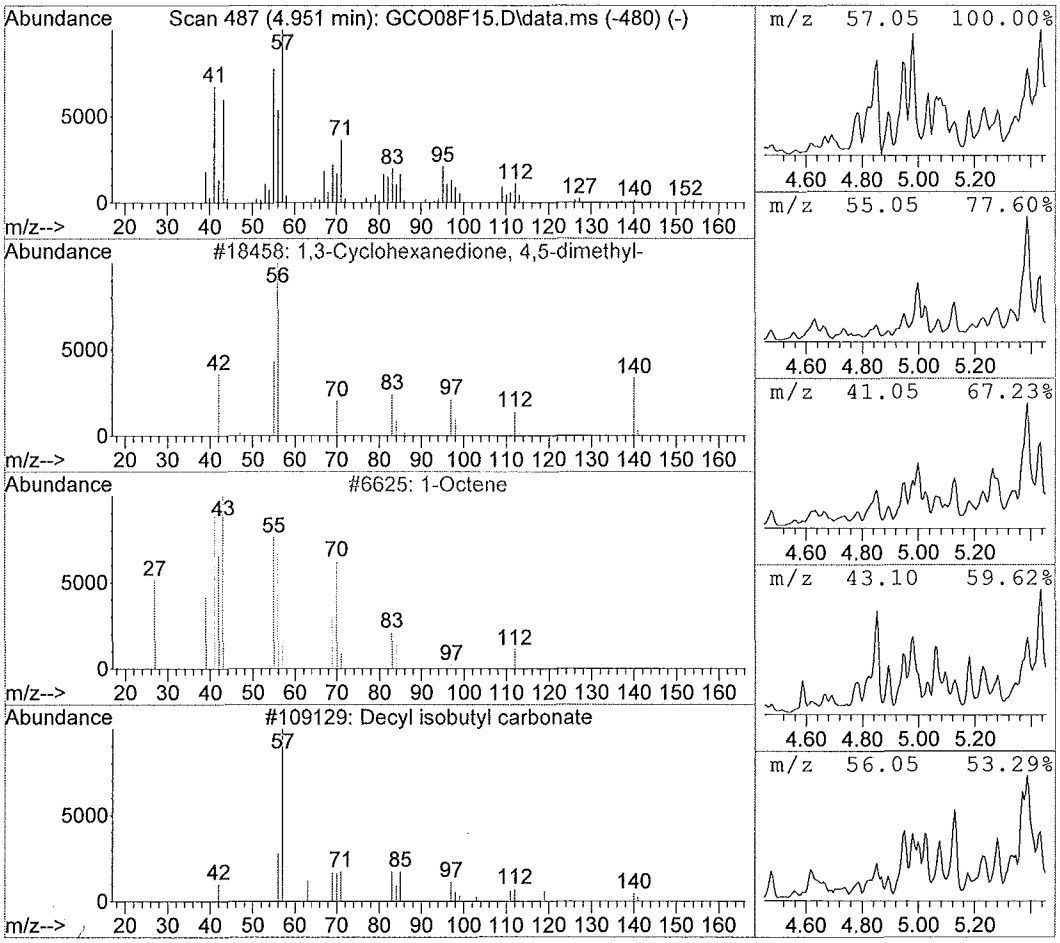
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.95	7.58 ug/ml	1548052	1,4-Dichlorobenzene-d4	4082560

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Cyclohexanedione, 4,5-dimethyl-	18458	042824-00-0	49.00
2	1-Octene	6625	000111-66-0	46.00
3	Decyl isobutyl carbonate	109129	959226-07-4	46.00
4	1-Octene, 3,7-dimethyl-	17995	004984-01-4	46.00
5	Cyclopropane, 1-methyl-2-(3-methylp	18069	062238-07-7	43.00



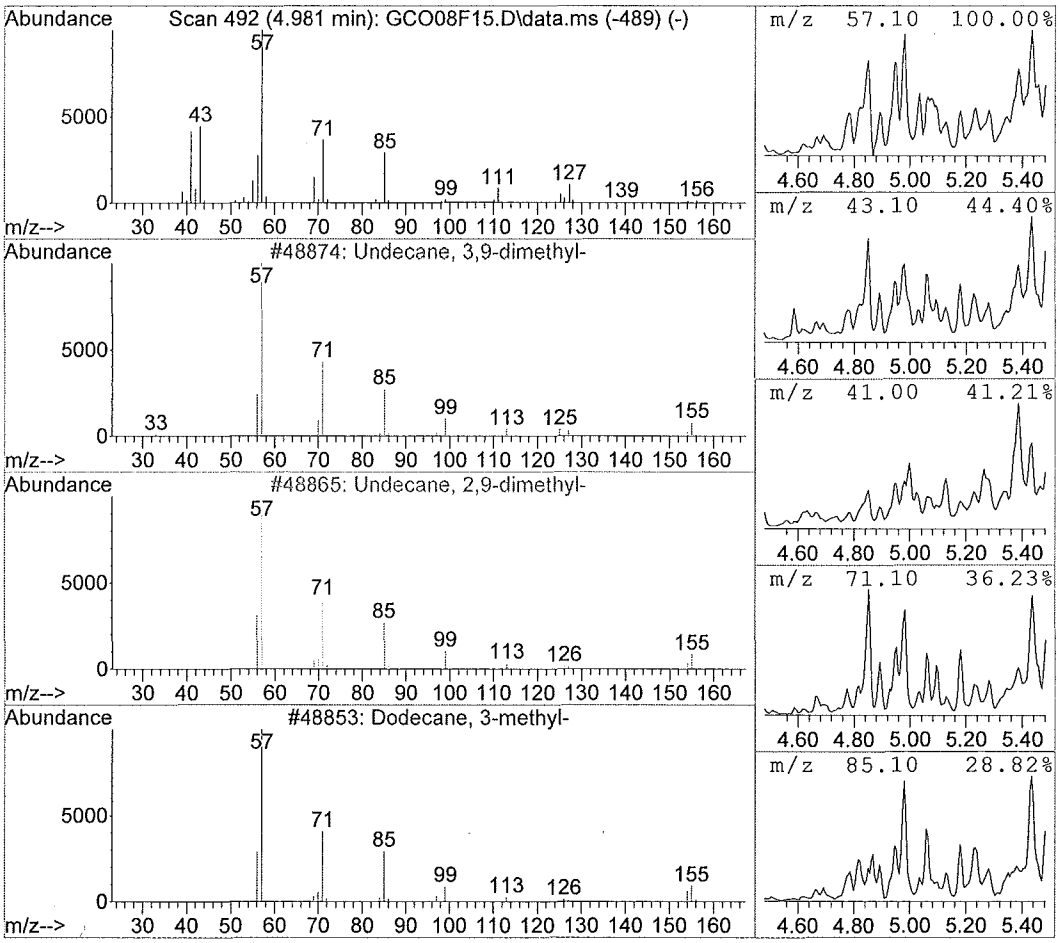
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.98	3.38 ug/ml	689112	1,4-Dichlorobenzene-d4	4082560

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 3,9-dimethyl- BA	48874	017301-31-4	59.00
2	Undecane, 2,9-dimethyl-	48865	017301-26-7	53.00
3	Dodecane, 3-methyl-	48853	017312-57-1	53.00
4	Sulfurous acid, butyl heptadecyl es	200447	1000309-18-4	50.00
5	Isobutyl nonyl carbonate	97339	959311-27-4	45.00



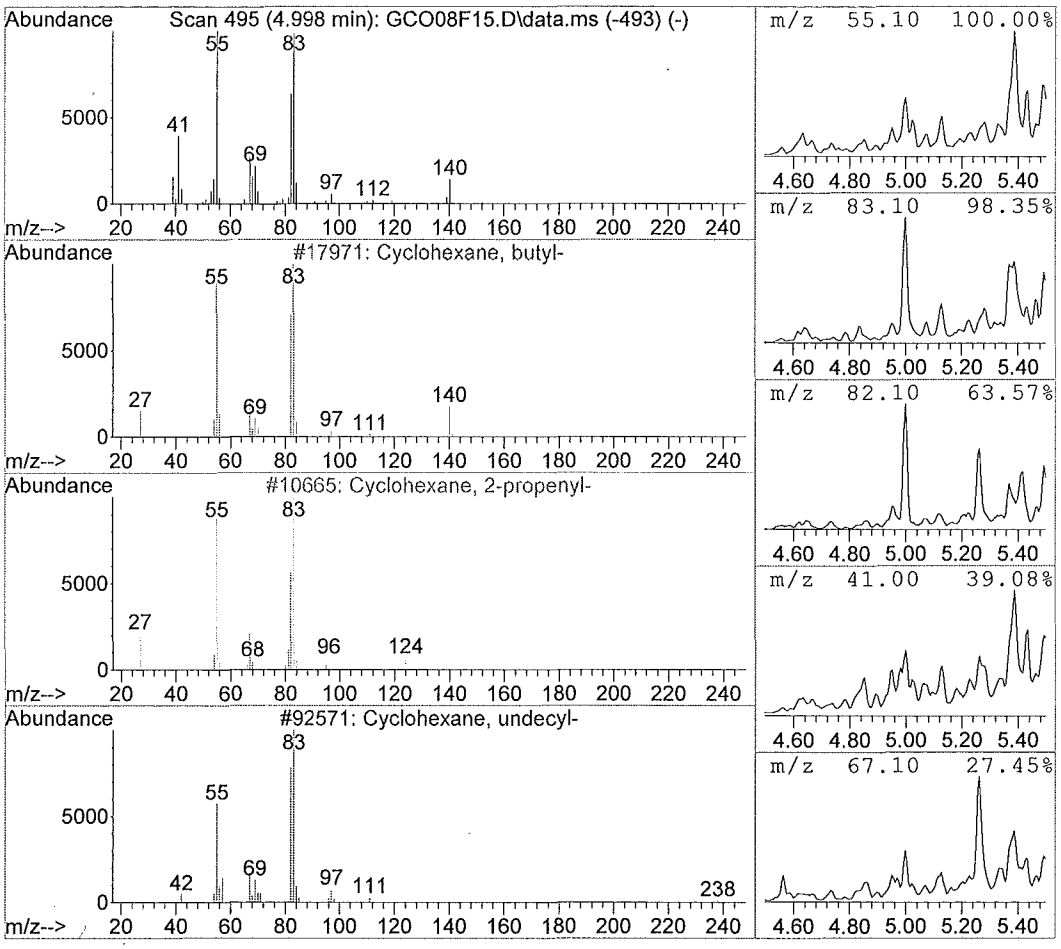
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.00	5.22 ug/ml	1065975	1,4-Dichlorobenzene-d4	4082560

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, butyl- CA	17971	001678-93-9	86.00
2	Cyclohexane, 2-propenyl-	10665	002114-42-3	78.00
3	Cyclohexane, undecyl-	92571	054105-66-7	78.00
4	Cyclohexane, (2-methylpropyl)-	18027	001678-98-4	72.00
5	Cyclohexane, (1-methylethyl)-	11587	000696-29-7	72.00



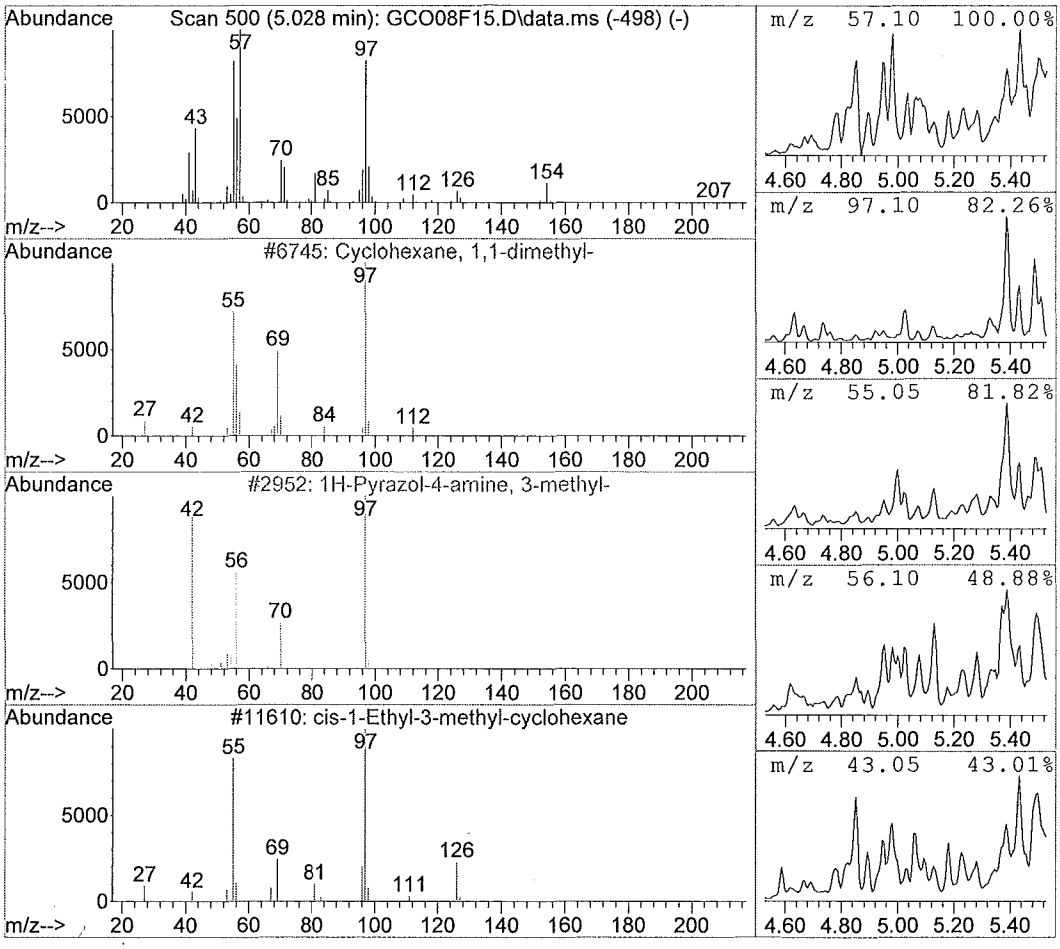
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.03	2.63 ug/ml	537023	1,4-Dichlorobenzene-d4	4082560

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl- CA	6745	000590-66-9	50.00
2	1H-Pyrazol-4-amine, 3-methyl-	2952	1000338-28-2	43.00
3	cis-1-Ethyl-3-methyl-cyclohexane	11610	019489-10-2	43.00
4	Cyclohexane, 1-ethyl-4-methyl-, tra	11625	006236-88-0	43.00
5	Cyclohexane, 1-ethyl-4-methyl-, cis	11621	004926-78-7	43.00



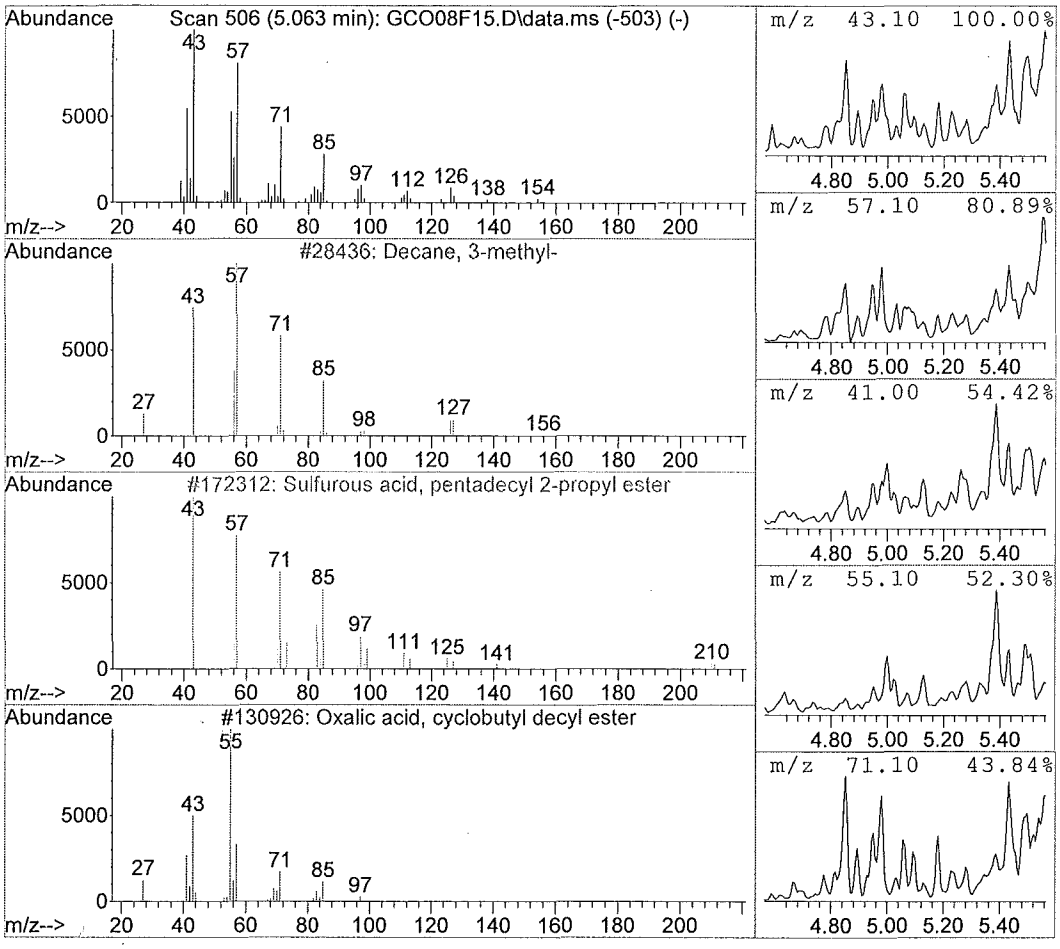
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.06	3.53 ug/ml	720664	1,4-Dichlorobenzene-d4	4082560

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 3-methyl- BA	28436	013151-34-3	72.00
2	Sulfurous acid, pentadecyl 2-propyl	172312	1000309-12-6	64.00
3	Oxalic acid, cyclobutyl decyl ester	130926	1000309-70-1	64.00
4	Oxalic acid, cyclobutyl nonyl ester	119015	1000309-70-0	59.00
5	Octane	7620	000111-65-9	50.00



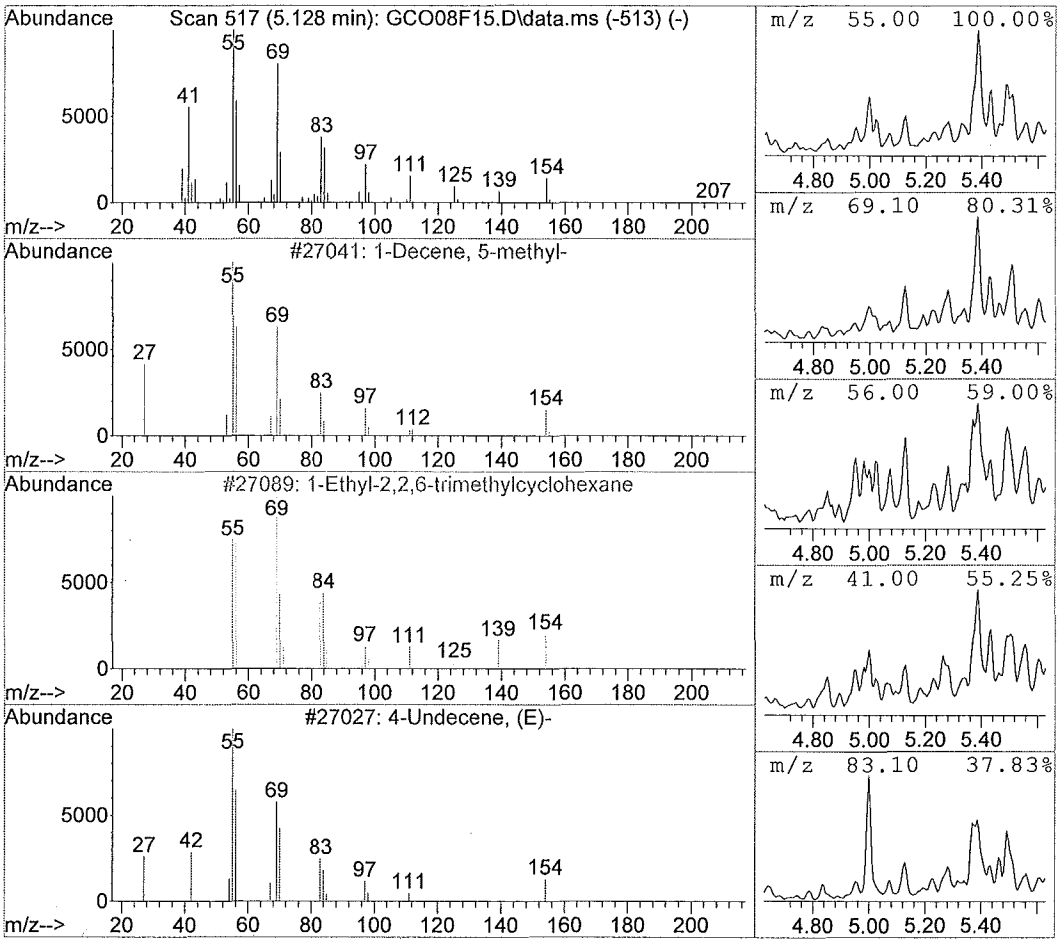
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.13	6.37 ug/ml	1300978	1,4-Dichlorobenzene-d4	4082560

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Decene, 5-methyl-	27041	054244-79-0	90.00
2	1-Ethyl-2,2,6-trimethylcyclohexane	27089	071186-27-1	83.00
3	4-Undecene, (E)-	27027	000693-62-9	80.00
4	5-Undecene	27019	004941-53-1	80.00
5	4-Decene, 4-methyl-, (E)-	27060	060366-66-7	64.00



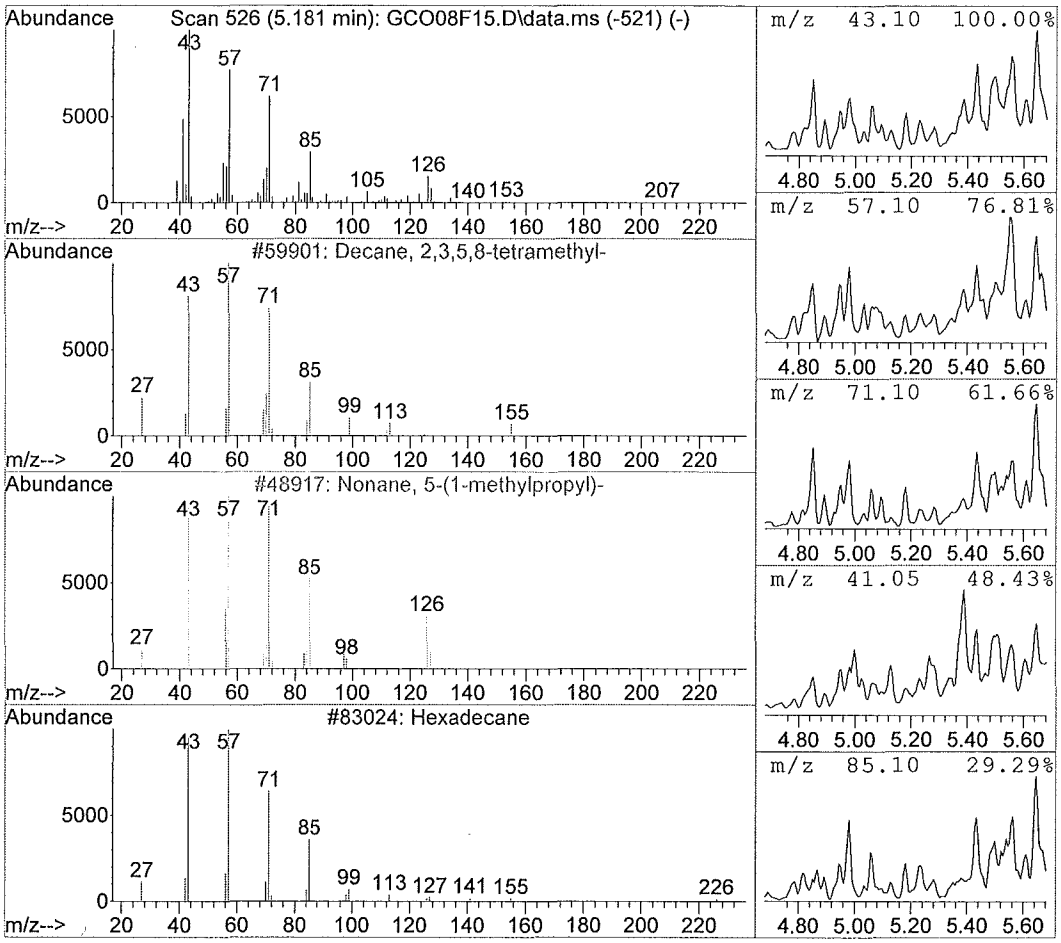
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.18	4.18 ug/ml	852786	1,4-Dichlorobenzene-d4	4082560

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 2,3,5,8-tetramethyl- BA	59901	192823-15-7	59.00
2	Nonane, 5-(1-methylpropyl)-	48917	062185-54-0	59.00
3	Hexadecane	83024	000544-76-3	53.00
4	2,3-Dimethyldecane	38323	017312-44-6	53.00
5	Undecane, 2,3-dimethyl-	48855	017312-77-5	50.00



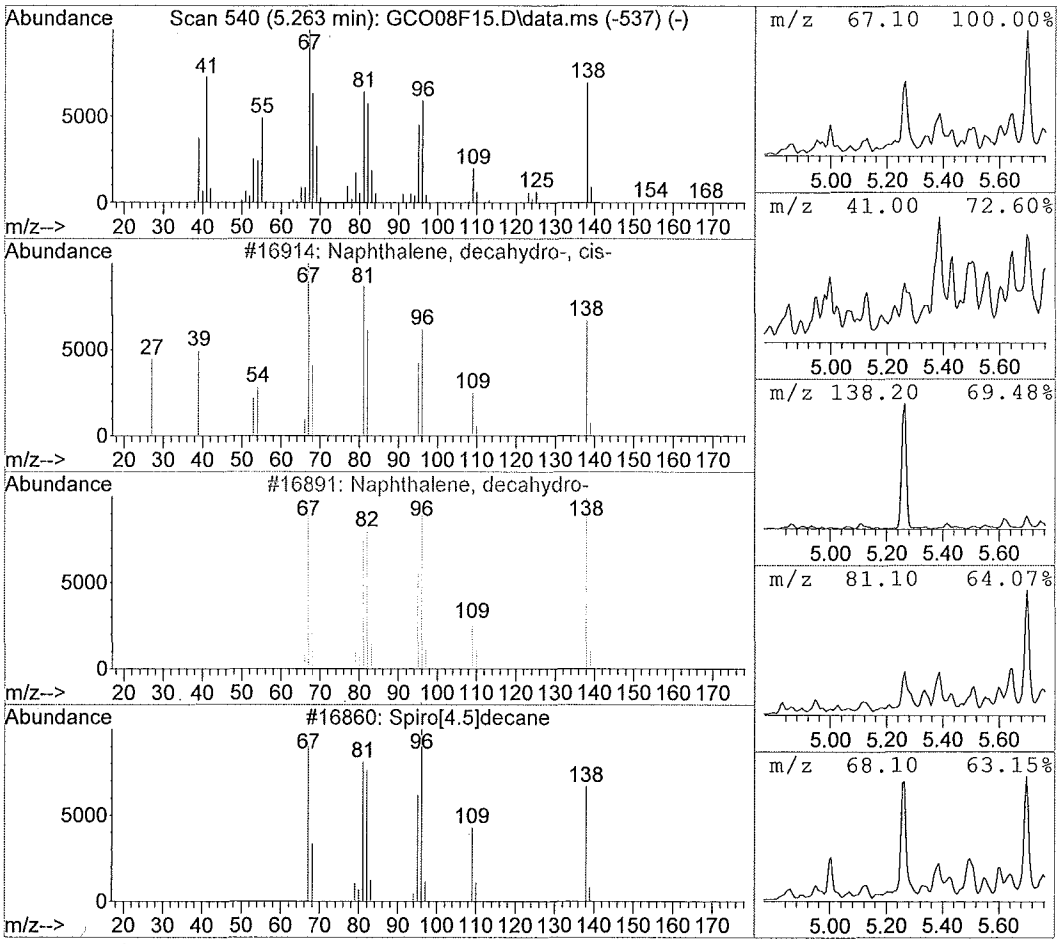
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.26	10.69 ug/ml	2181229	1,4-Dichlorobenzene-d4	4082560

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, decahydro-, cis-	16914	000493-01-6	96.00
2	Naphthalene, decahydro-	16891	000091-17-8	93.00
3	Spiro[4.5]decane	16860	000176-63-6	89.00
4	Naphthalene, decahydro-, trans-	16920	000493-02-7	83.00
5	4,5-Nonadiene	10620	000821-74-9	70.00



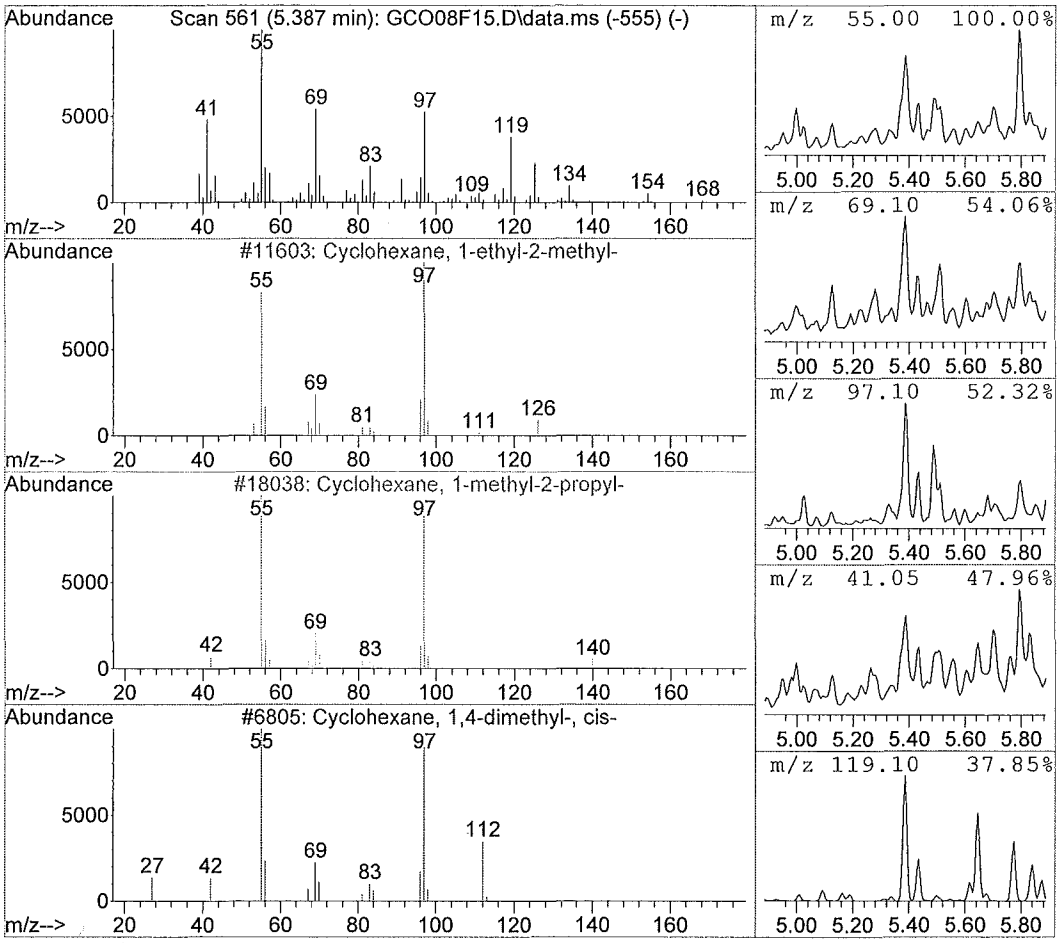
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.39	24.16 ug/ml	4931039	1,4-Dichlorobenzene-d4	4082560

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1-ethyl-2-methyl- CA	11603	003728-54-9	46.00
2	Cyclohexane, 1-methyl-2-propyl-	18038	004291-79-6	43.00
3	Cyclohexane, 1,4-dimethyl-, cis-	6805	000624-29-3	43.00
4	Sulfurous acid, cyclohexylmethyl is	112140	1000309-21-5	38.00
5	Oxalic acid, cyclohexylmethyl octyl	142823	1000309-68-4	38.00



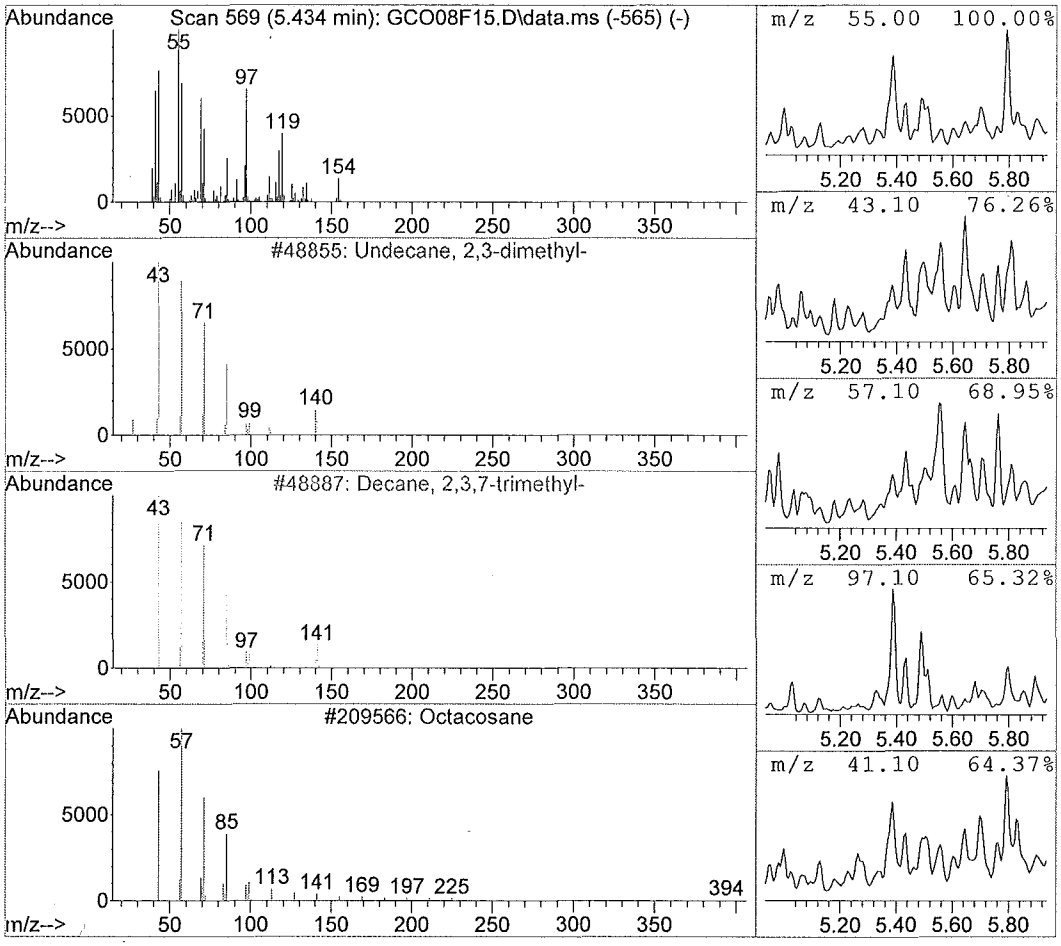
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.43	9.66 ug/ml	1972104	1,4-Dichlorobenzene-d4	4082560

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 2,3-dimethyl- BA	48855	017312-77-5	14.00
2	Decane, 2,3,7-trimethyl-	48887	062238-13-5	14.00
3	Octacosane	209566	000630-02-4	14.00
4	Heptadecane, 2,6,10,15-tetramethyl-	141442	054833-48-6	14.00
5	2-Propionyl-1-pyrroline	10835	1000298-55-4	14.00



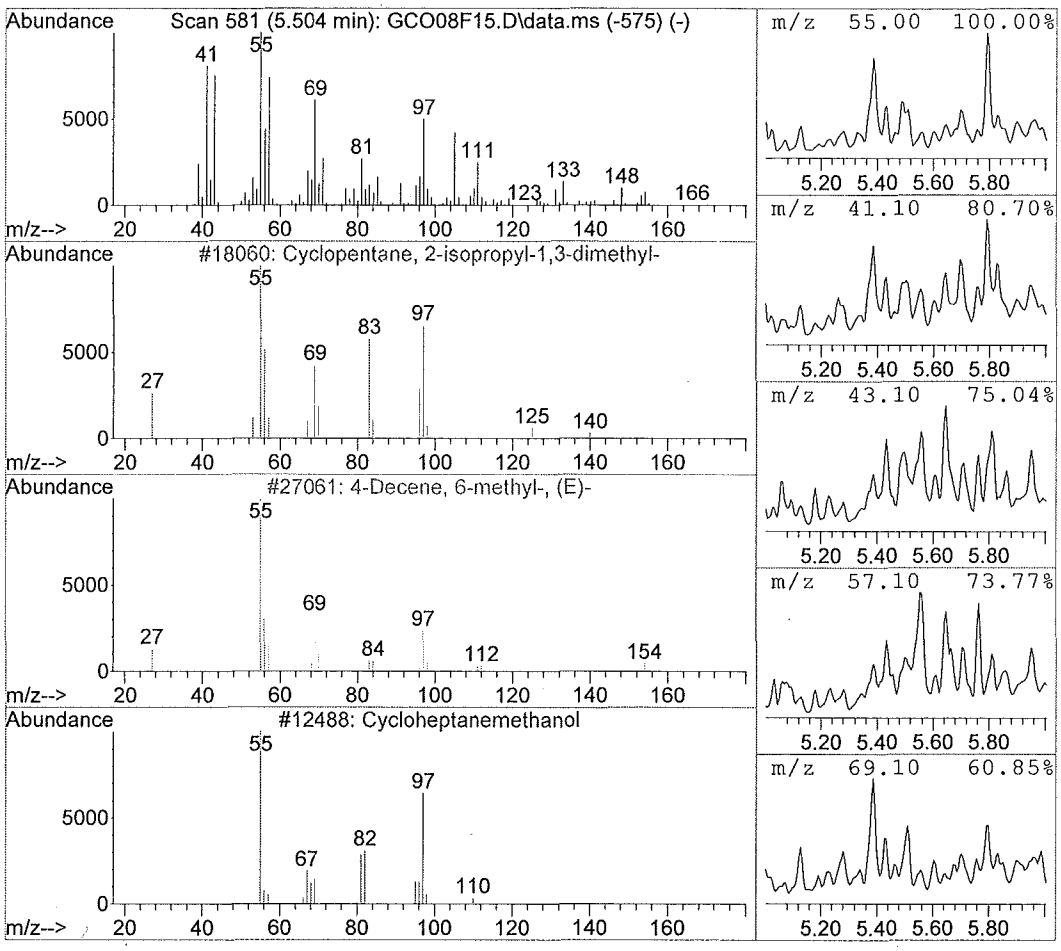
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.50	15.36 ug/ml	3136031	1,4-Dichlorobenzene-d4	4082560

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclopentane, 2-isopropyl-1,3-dimet CA	18060	032281-85-9	46.00
2	4-Decene, 6-methyl-, (E)-	27061	036229-57-9	38.00
3	Cycloheptanemethanol	12488	004448-75-3	27.00
4	3-Heptene, 4-propyl-	17979	004485-13-6	22.00
5	Cyclopentane, 1,2-dimethyl-3-(1-met	18074	000489-20-3	22.00



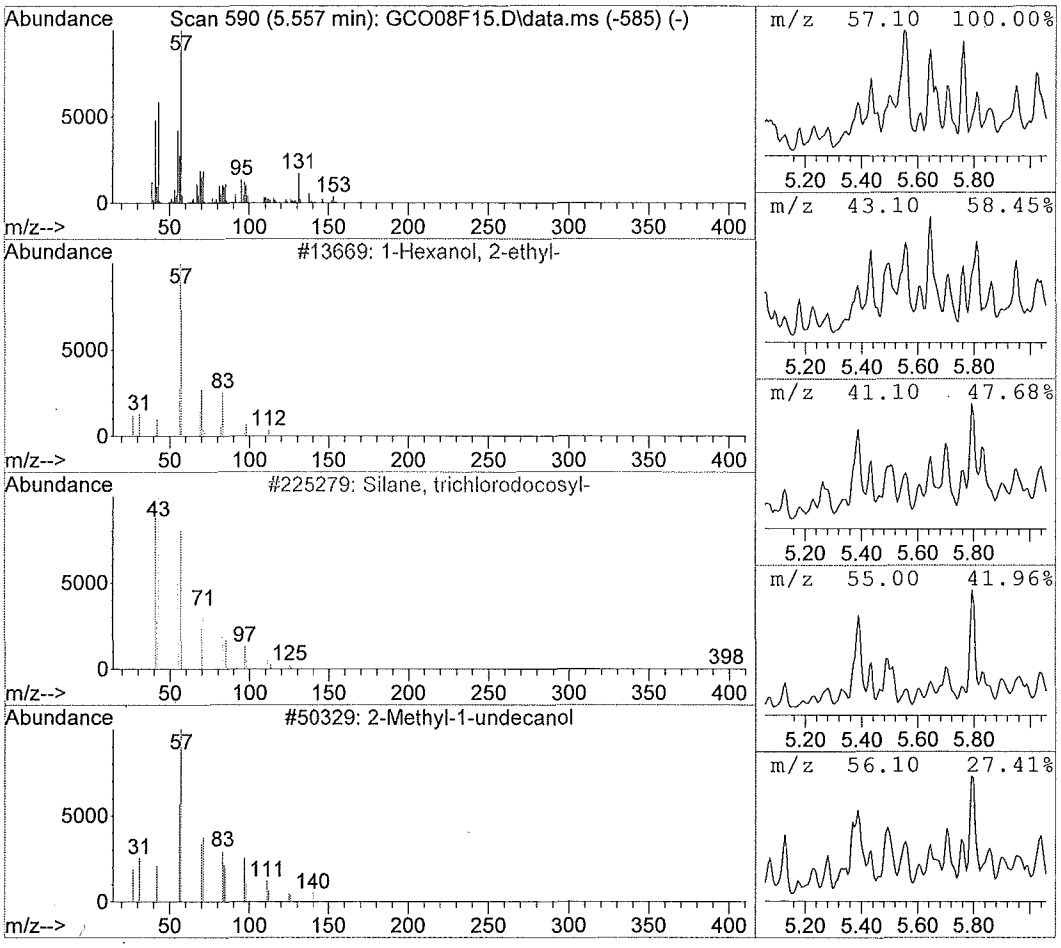
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.56	10.54 ug/ml	2150629	1,4-Dichlorobenzene-d4	4082560

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Hexanol, 2-ethyl-	13669	000104-76-7	43.00
2	Silane, trichlorodocosyl-	225279	007325-84-0	43.00
3	2-Methyl-1-undecanol	50329	010522-26-6	38.00
4	Decan-2-yl isobutyl carbonate	109131	1000372-79-5	38.00
5	1-Dodecanol, 2-methyl-, (S)-	61359	057289-26-6	38.00



: 00512

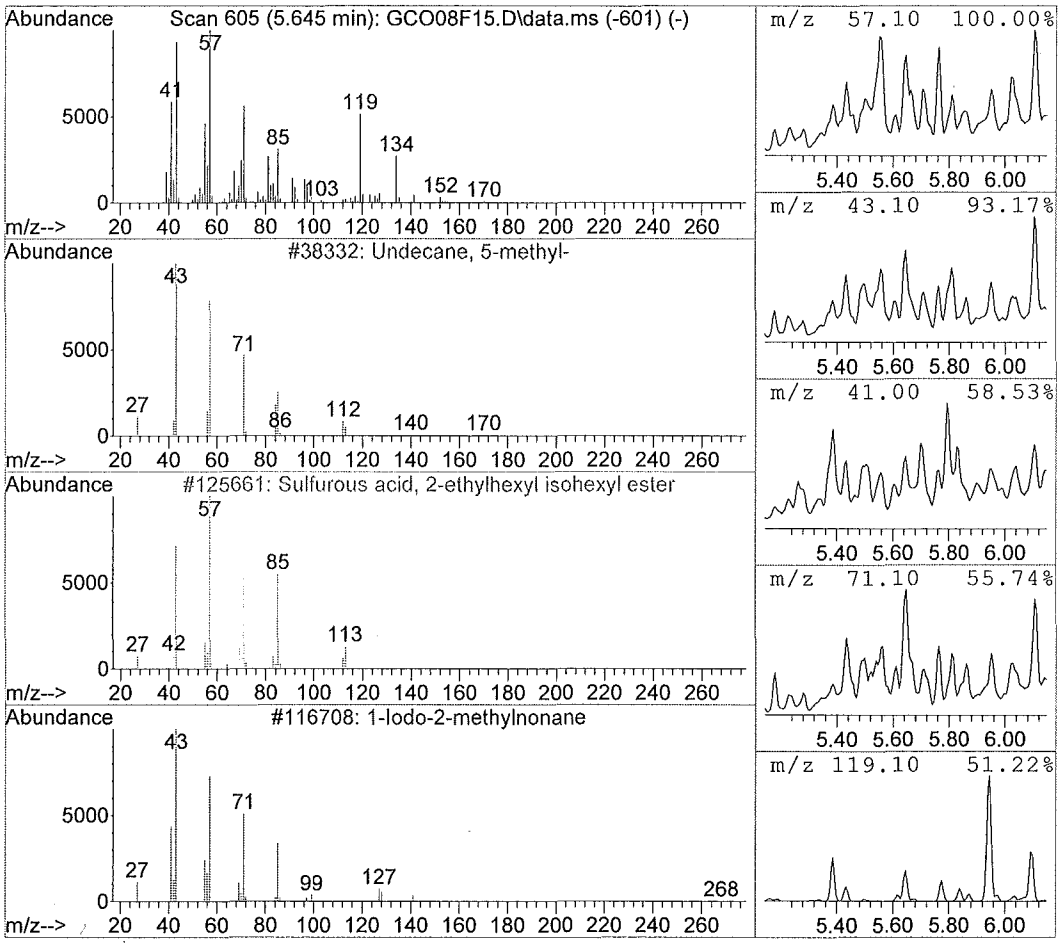
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.65	8.32 ug/ml	2209449	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 5-methyl- BA	38332	001632-70-8	38.00
2	Sulfurous acid, 2-ethylhexyl isohex	125661	1000309-19-0	27.00
3	1-Iodo-2-methylnonane	116708	1000101-47-9	27.00
4	Undecane, 4-methyl-	38333	002980-69-0	25.00
5	Hexane, 1-(hexyloxy)-4-methyl-	61363	074421-20-8	22.00



00513

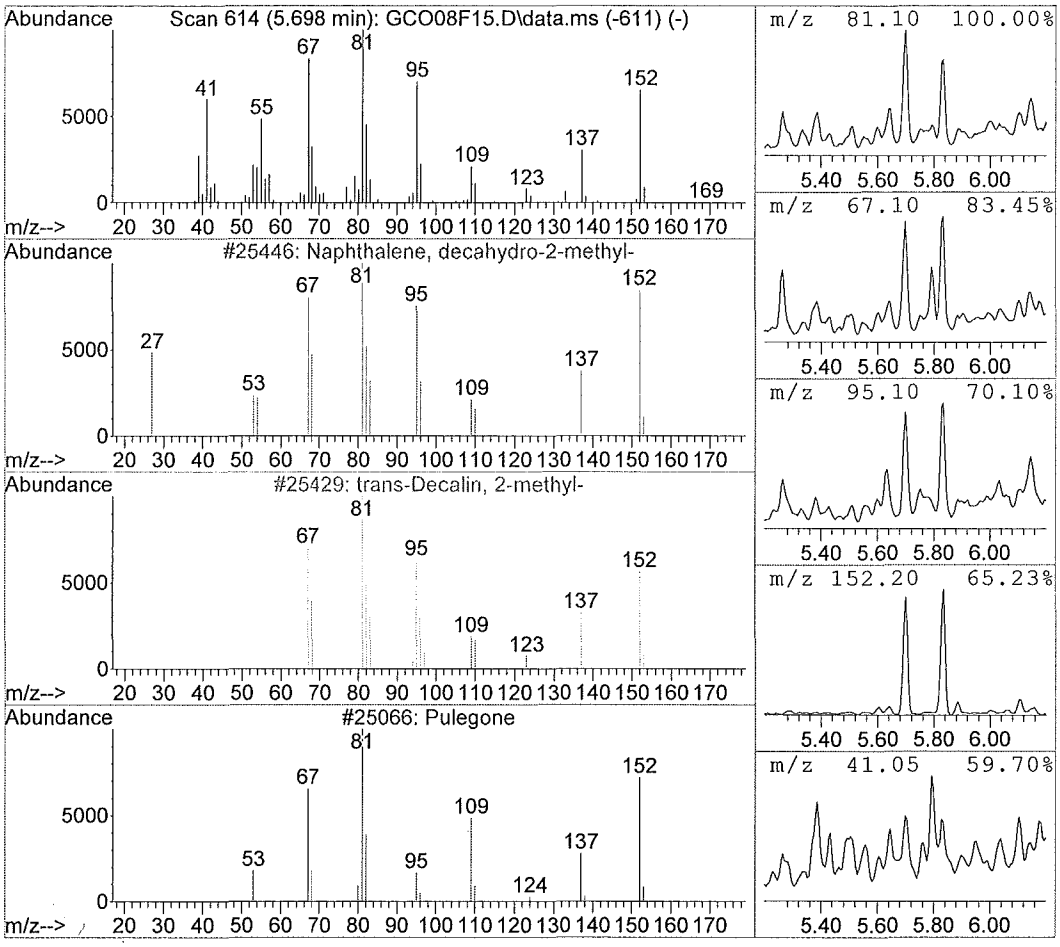
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.70	13.12 ug/ml	3484142	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	25446	002958-76-1	93.00
2	trans-Decalin, 2-methyl-	25429	1000152-47-3	87.00
3	Pulegone	25066	000089-82-7	81.00
4	6-Dodecyne	35138	006975-99-1	80.00
5	Cyclohexanone, 5-methyl-2-(1-methyl	25290	015932-80-6	74.00



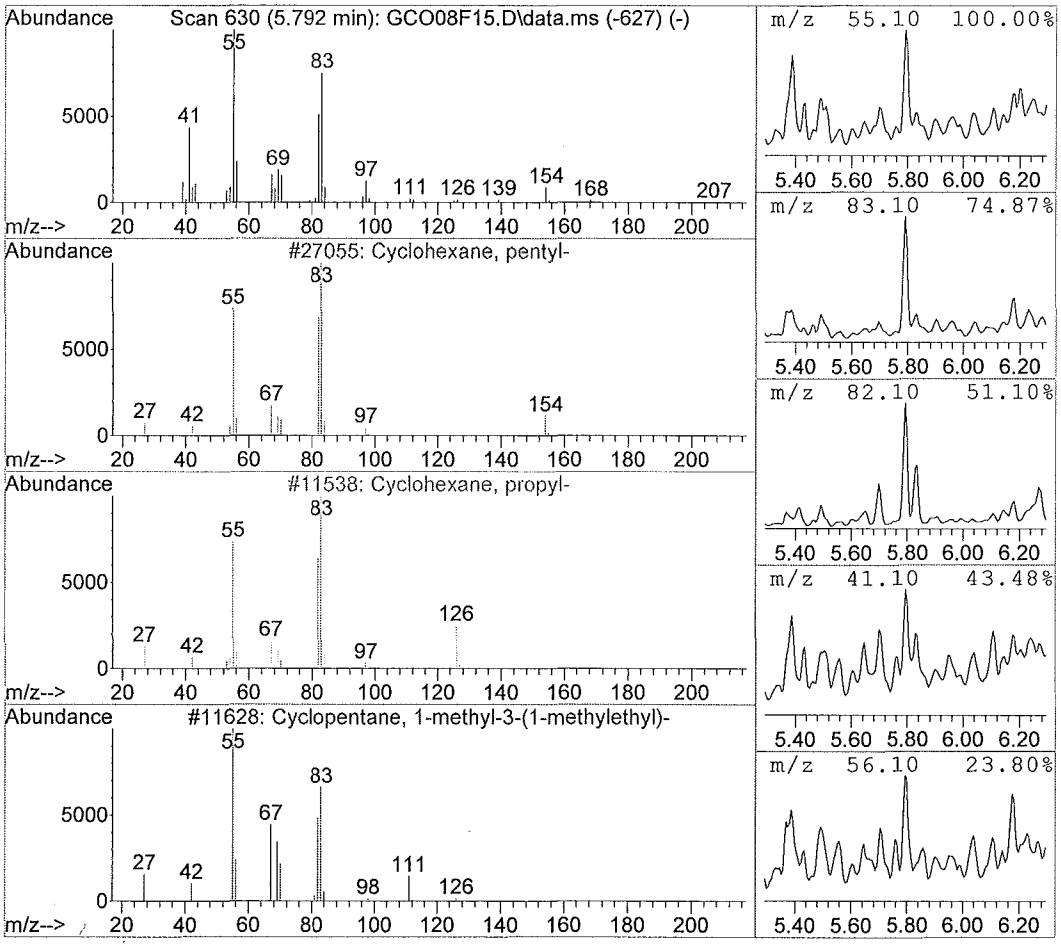
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.79	12.94 ug/ml	3436343	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, pentyl- CA	27055	004292-92-6	86.00
2	Cyclohexane, propyl-	11538	001678-92-8	72.00
3	Cyclopentane, 1-methyl-3-(1-methyle	11628	053771-88-3	68.00
4	Cyclohexanone, 3,3,5,5-tetramethyl-	26802	014376-79-5	58.00
5	2-Hexene, 2,3-dimethyl-	6725	007145-20-2	52.00



00545

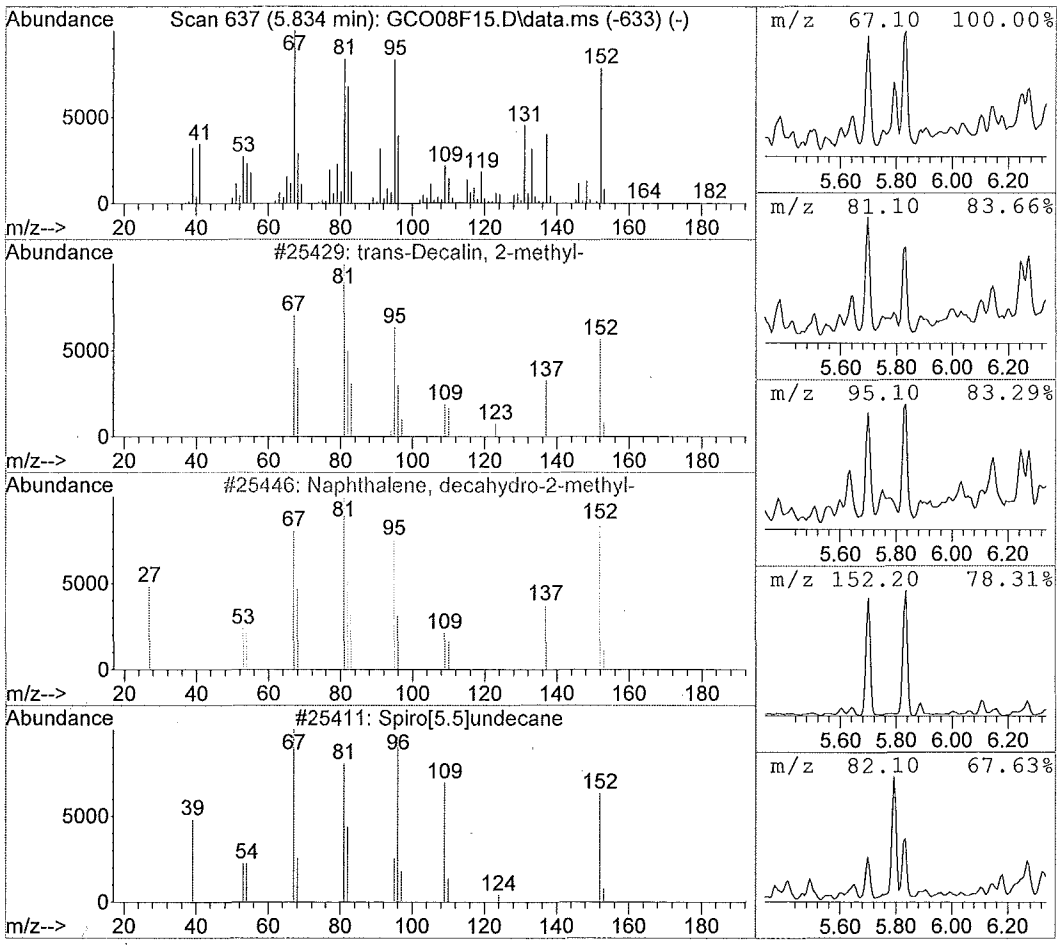
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.83	14.69 ug/ml	3901286	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	trans-Decalin, 2-methyl-	25429	1000152-47-3	70.00
2	Naphthalene, decahydro-2-methyl-	25446	002958-76-1	70.00
3	Spiro[5.5]undecane	25411	000180-43-8	55.00
4	1-Adamantanol	25086	000768-95-6	41.00
5	1H-Indene, octahydro-, cis-	10676	004551-51-3	38.00



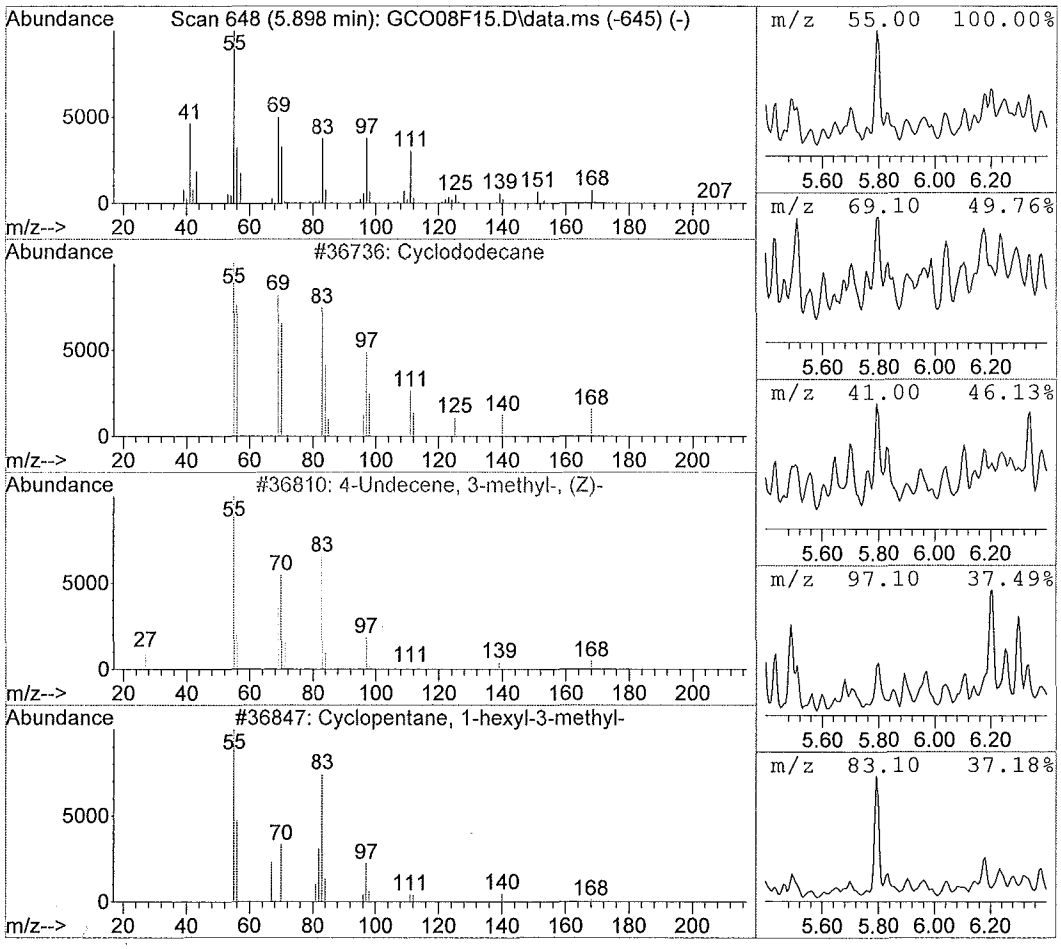
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.90	2.31 ug/ml	614536	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclododecane CA	36736	000294-62-2	64.00
2	4-Undecene, 3-methyl-, (Z)-	36810	074645-87-7	50.00
3	Cyclopentane, 1-hexyl-3-methyl-	36847	061142-68-5	50.00
4	9-Octadecene, (E)-	104187	007206-25-9	45.00
5	1-Hexadecanol	95980	036653-82-4	45.00



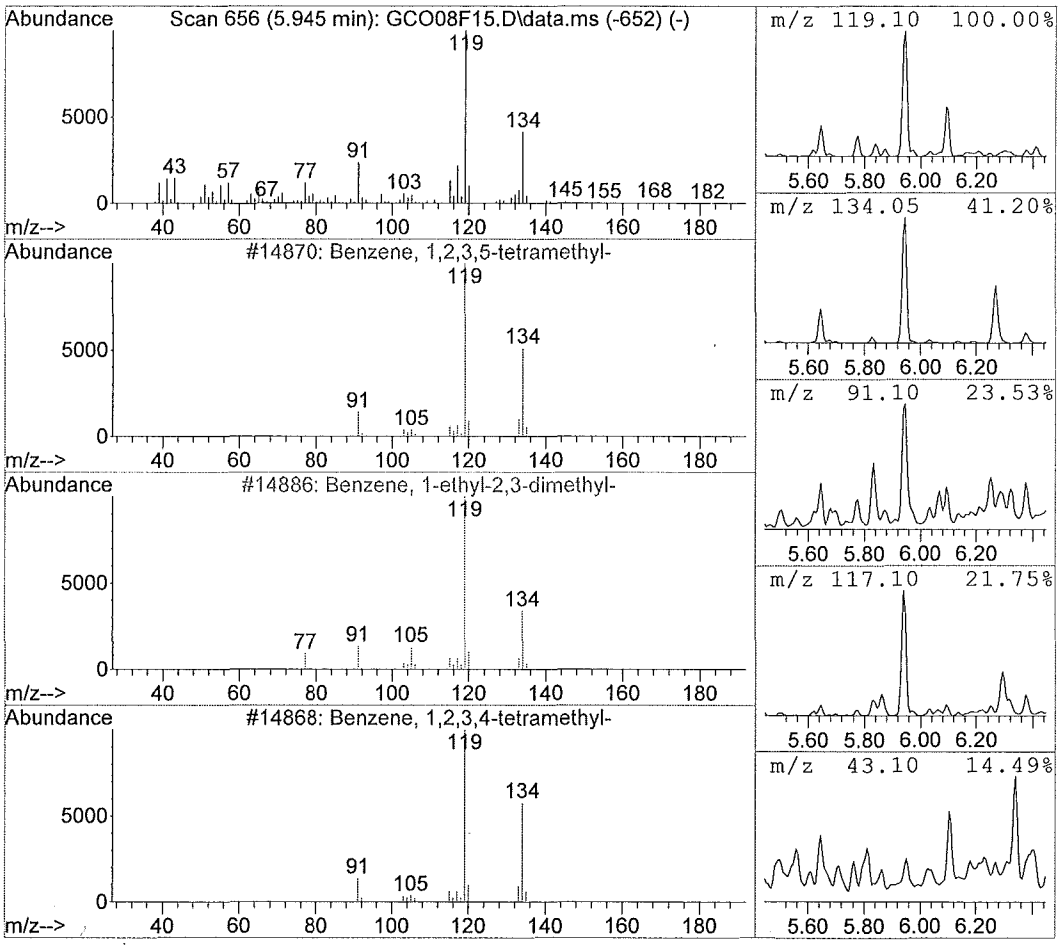
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.95	12.82 ug/ml	3404196	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	14870	000527-53-7	90.00
2	Benzene, 1-ethyl-2,3-dimethyl-	14886	000933-98-2	90.00
3	Benzene, 1,2,3,4-tetramethyl-	14868	000488-23-3	90.00
4	Benzene, 1-methyl-3-(1-methylethyl)	14907	000535-77-3	90.00
5	o-Cymene	14806	000527-84-4	90.00



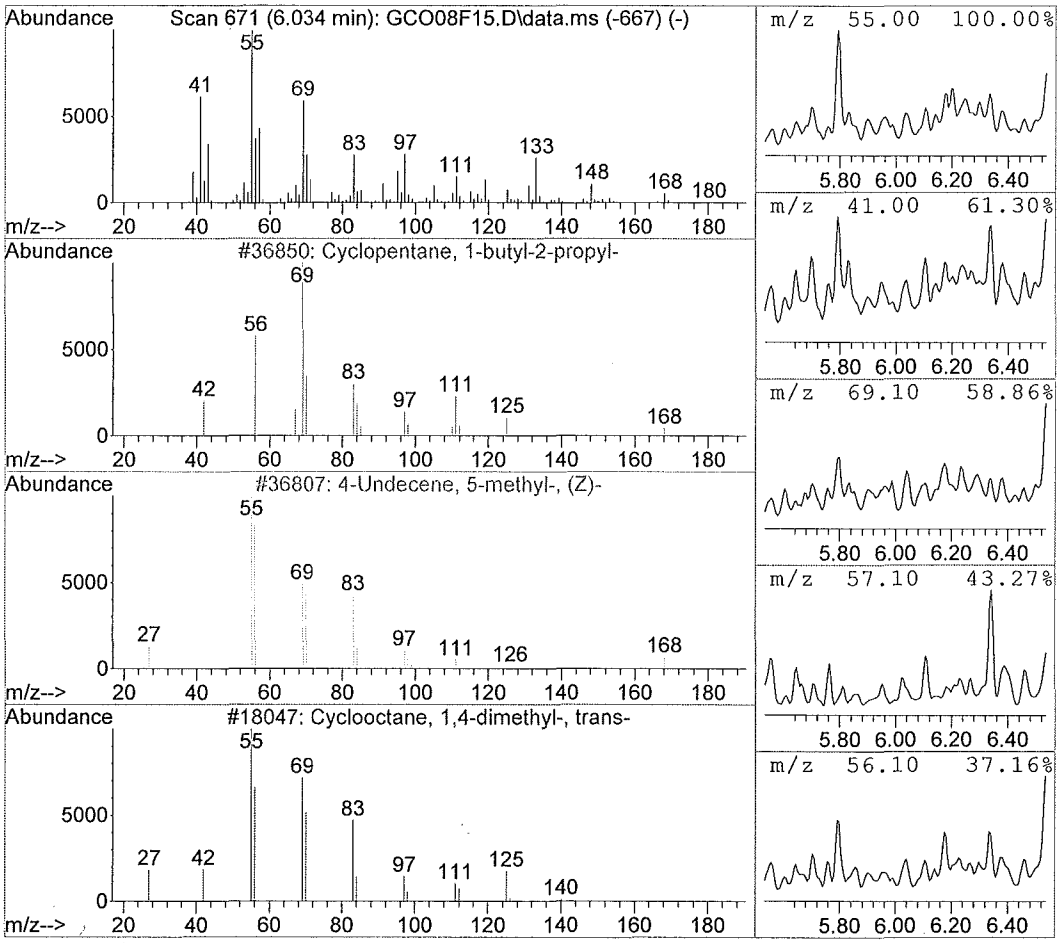
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.03	8.70 ug/ml	2309907	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclopentane, 1-butyl-2-propyl- CA	36850	062199-50-2	55.00
2	4-Undecene, 5-methyl-, (Z)-	36807	074630-69-6	38.00
3	Cyclooctane, 1,4-dimethyl-, trans-	18047	013151-98-9	38.00
4	Cyclopentane, 1,1,3-trimethyl-	6786	004516-69-2	38.00
5	5-Undecene, 4-methyl-	36780	143185-91-5	38.00



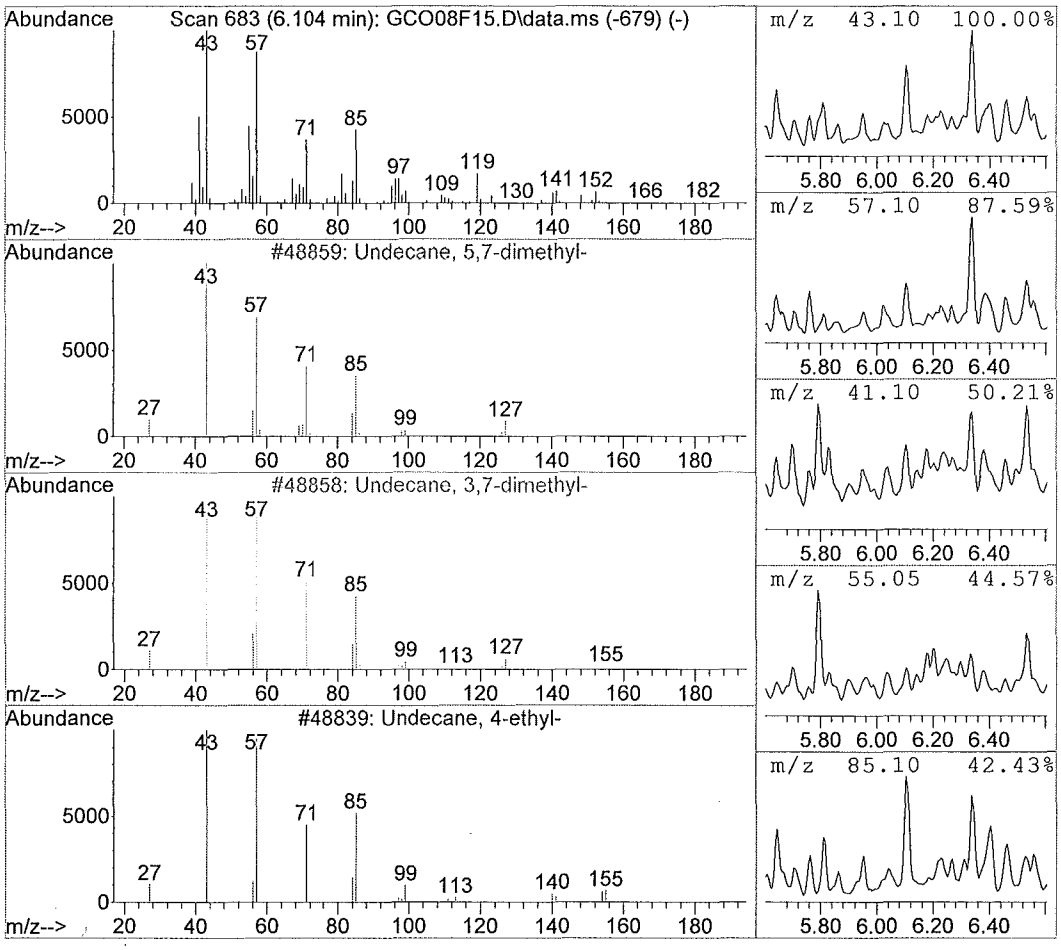
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.10	8.75 ug/ml	2324683	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 5,7-dimethyl- BA	48859	017312-83-3	52.00
2	Undecane, 3,7-dimethyl-	48858	017301-29-0	50.00
3	Undecane, 4-ethyl-	48839	017312-59-3	50.00
4	Sulfurous acid, butyl decyl ester	125656	1000309-17-7	49.00
5	Decane, 1-iodo-	116706	002050-77-3	43.00



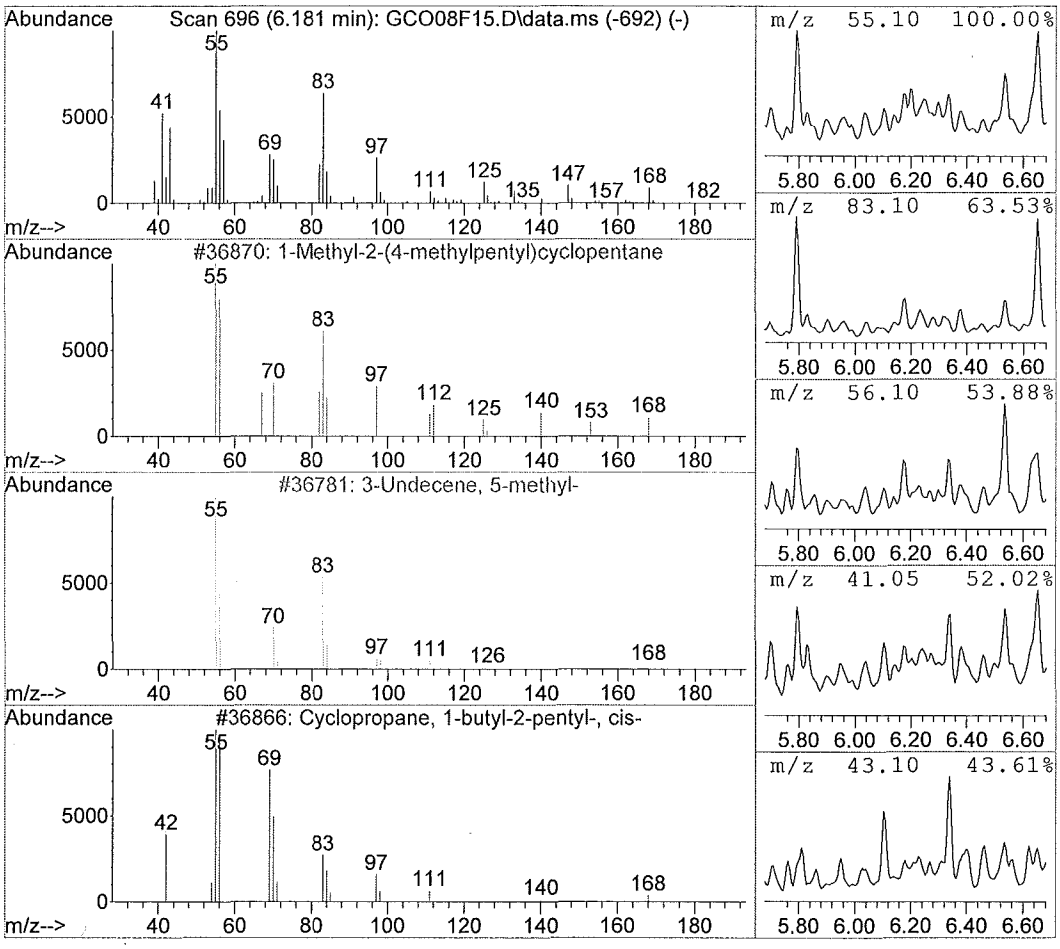
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.18	4.31 ug/ml	1144820	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Methyl-2-(4-methylpentyl)cyclopen CA	36870	1000113-60-1	68.00
2	3-Undecene, 5-methyl-	36781	1000061-84-1	62.00
3	Cyclopropane, 1-butyl-2-pentyl-, ci	36866	074663-88-0	43.00
4	Cyclopentane, 1,1,3-trimethyl-	6786	004516-69-2	43.00
5	4-Undecene, 5-methyl-	36777	020634-43-9	43.00



: 86521

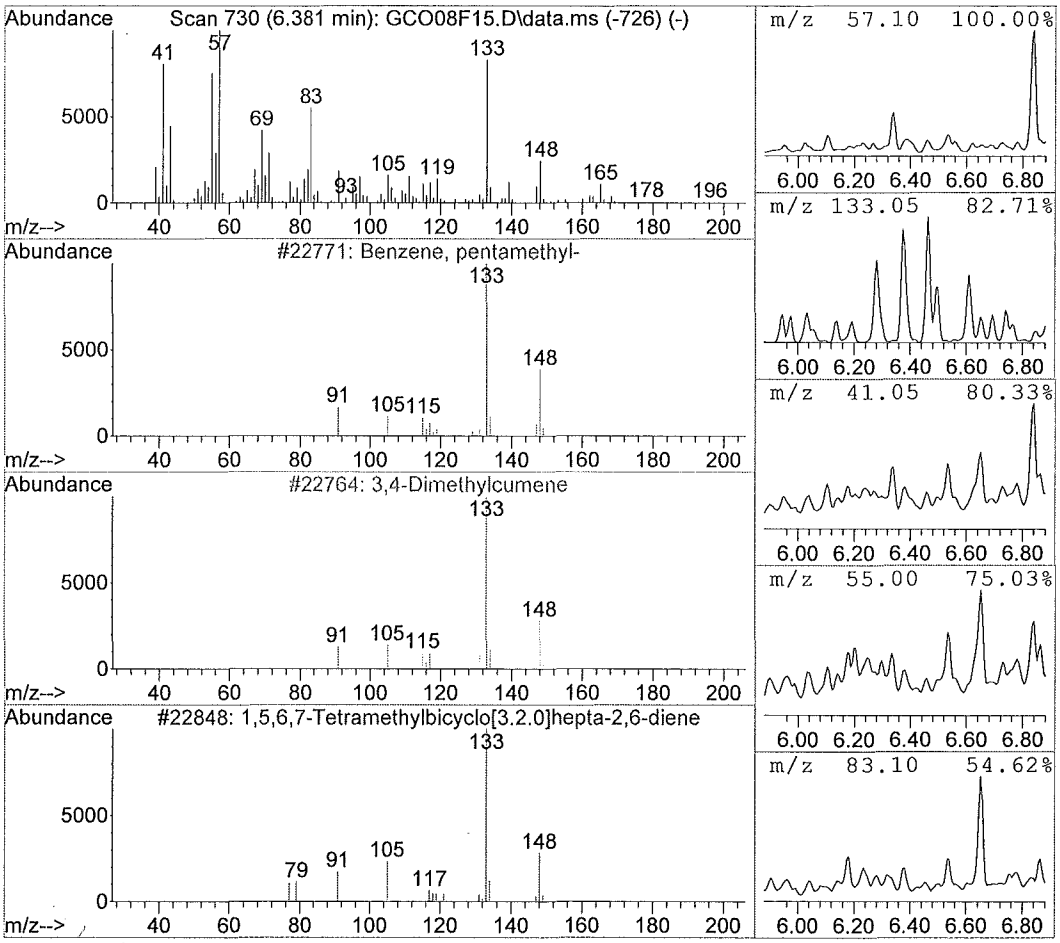
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.38	11.85 ug/ml	3146567	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, pentamethyl-	22771	000700-12-9	60.00
2	3,4-Dimethylcumene	22764	1000370-34-1	50.00
3	1,5,6,7-Tetramethylbicyclo[3.2.0]he	22848	134329-46-7	50.00
4	Benzene, 1-ethyl-2,4,5-trimethyl-	22808	017851-27-3	49.00
5	Benzene, 1-ethyl-3-(1-methylethyl)-	22811	004920-99-4	46.00



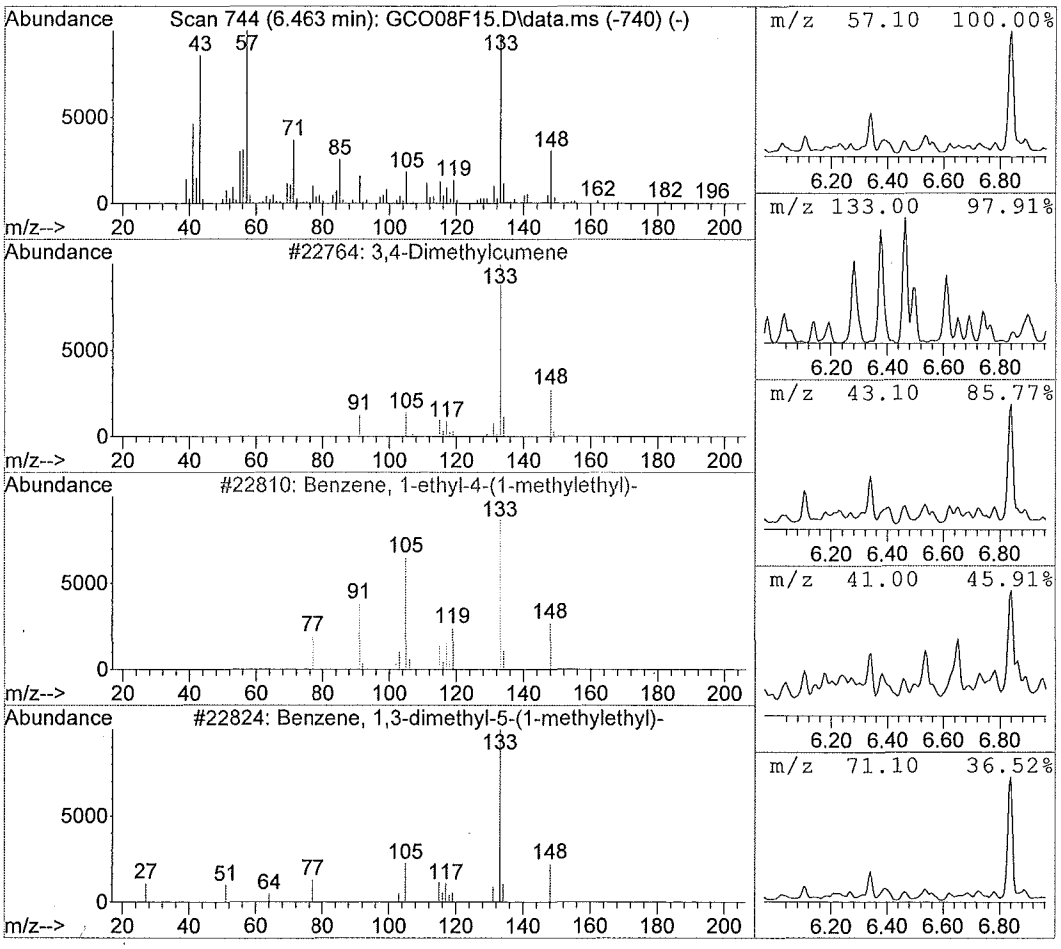
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.46	7.54 ug/ml	2003034	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3,4-Dimethylcumene	22764	1000370-34-1	55.00
2	Benzene, 1-ethyl-4-(1-methylethyl)-	22810	004218-48-8	55.00
3	Benzene, 1,3-dimethyl-5-(1-methylet	22824	004706-90-5	55.00
4	4-tert-Butyltoluene	22768	000098-51-1	50.00
5	Benzene, pentamethyl-	22772	000700-12-9	50.00



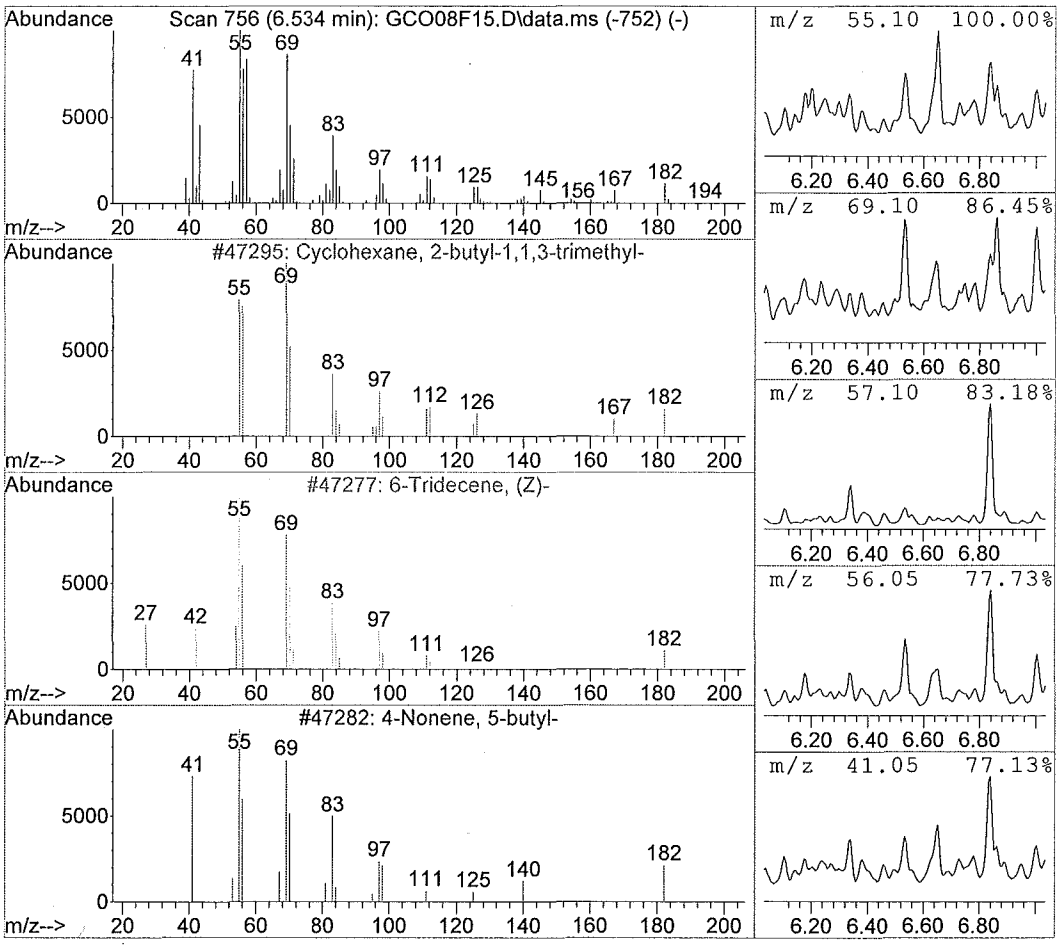
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.53	10.35 ug/ml	2747968	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 2-butyl-1,1,3-trimethy CA	47295	054676-39-0	96.00
2	6-Tridecene, (Z)-	47277	006508-77-6	93.00
3	4-Nonene, 5-butyl-	47282	007367-38-6	91.00
4	6-Tridecene, (E)-	47276	006434-76-0	90.00
5	Cyclopentane, butyl-	11534	002040-95-1	90.00



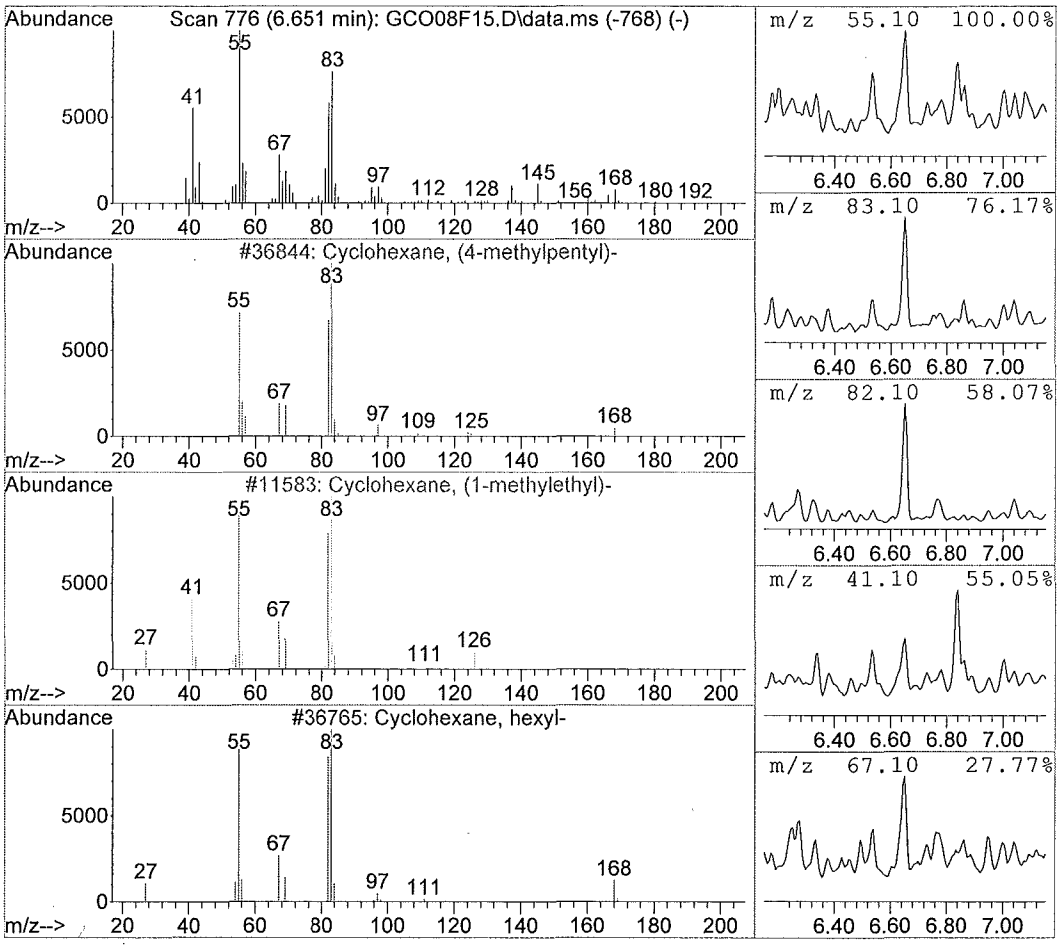
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.65	21.89 ug/ml	5814935	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, (4-methylpentyl)- CA	36844	061142-20-9	64.00
2	Cyclohexane, (1-methylethyl)-	11583	000696-29-7	64.00
3	Cyclohexane, hexyl-	36765	004292-75-5	58.00
4	3-Cyclohexyl-1-chloropropane	31397	001124-62-5	53.00
5	4-Undecene, 3-methyl-, (E)-	36809	074630-59-4	52.00



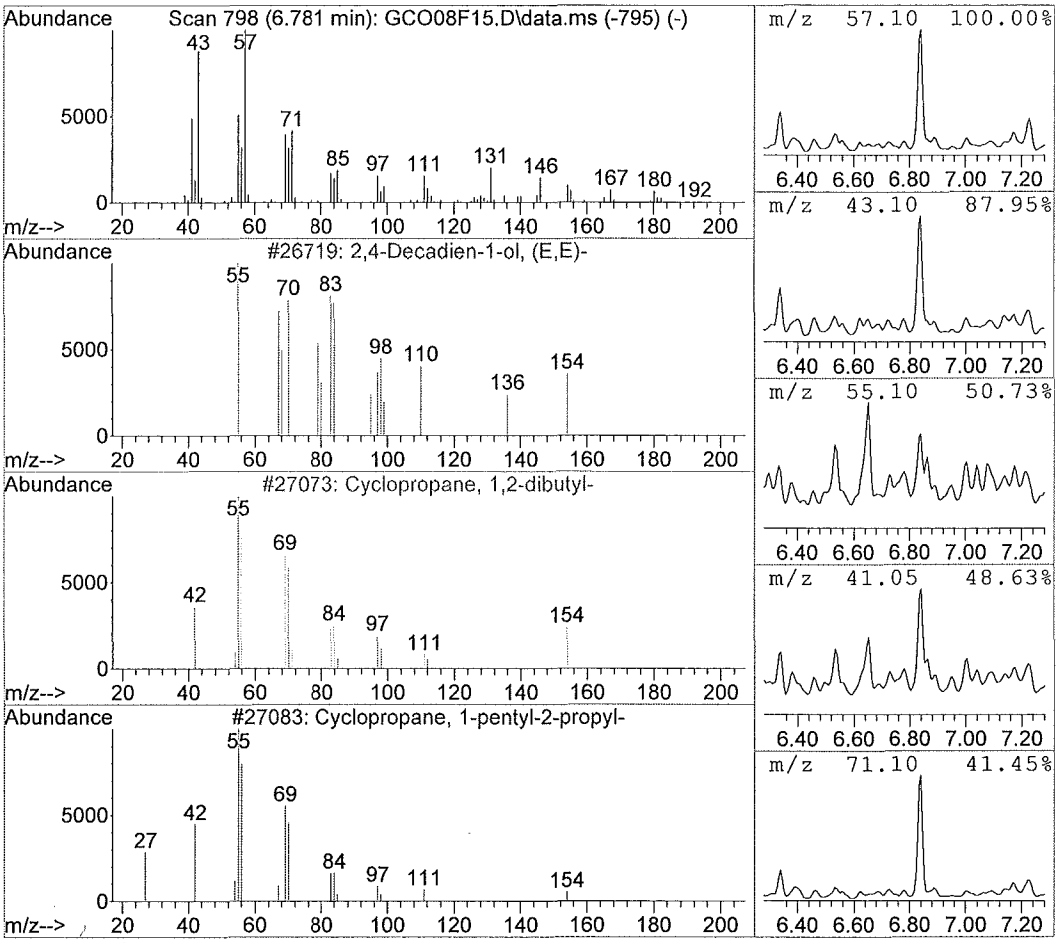
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.78	7.27 ug/ml	1931993	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,4-Decadien-1-ol, (E,E)-	26719	018409-21-7	53.00
2	Cyclopropane, 1,2-dibutyl-	27073	041977-32-6	42.00
3	Cyclopropane, 1-pentyl-2-propyl-	27083	041977-33-7	42.00
4	5-Undecene	27019	004941-53-1	38.00
5	Cyclooctane, 1,2-dimethyl-	18010	013151-94-5	35.00



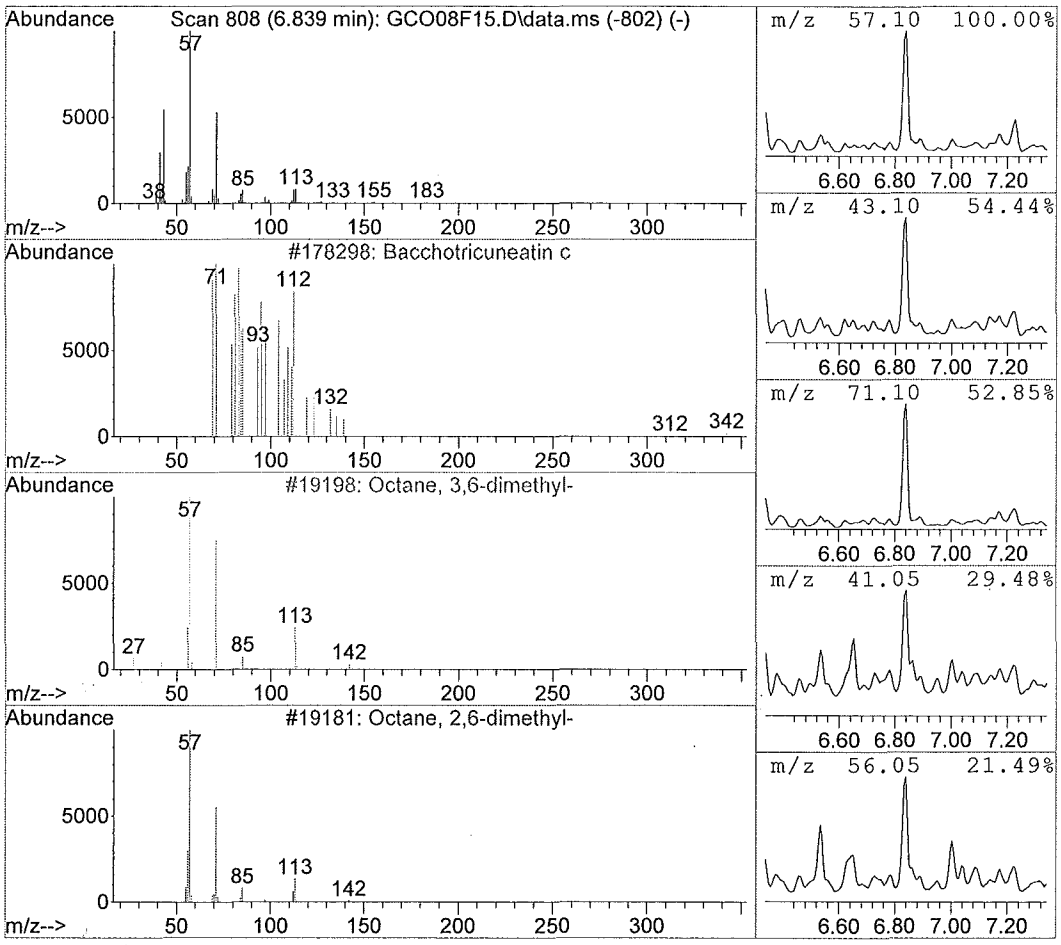
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.84	38.18 ug/ml	10139833	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bacchotricuneatin c	178298	066563-30-2	87.00
2	Octane, 3,6-dimethyl-	19198	015869-94-0	78.00
3	Octane, 2,6-dimethyl-	19181	002051-30-1	78.00
4	Undecane, 2,6-dimethyl-	48875	017301-23-4	78.00
5	Nonane, 3-methyl-	19171	005911-04-6	72.00



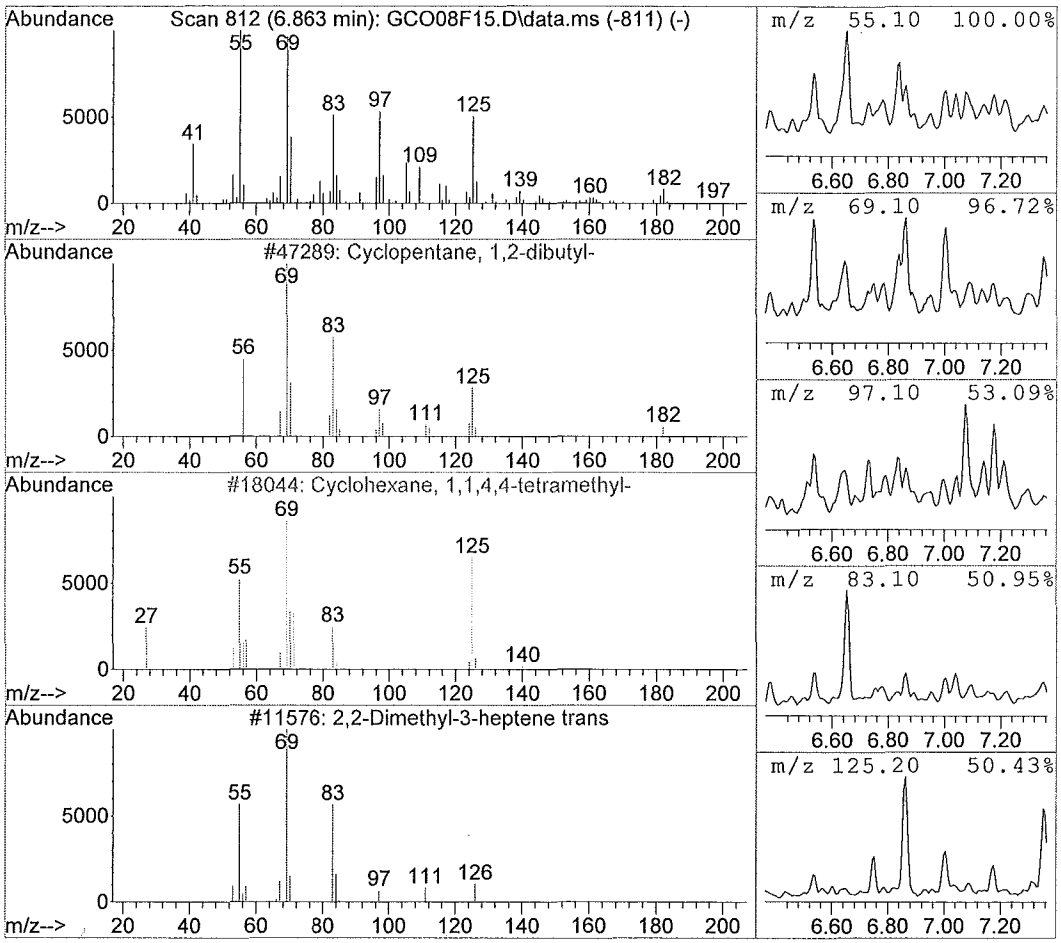
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.86	4.53 ug/ml	1201898	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclopentane, 1,2-dibutyl-	47289	062199-52-4	52.00
2	Cyclohexane, 1,1,4,4-tetramethyl- CA	18044	002223-52-1	38.00
3	2,2-Dimethyl-3-heptene trans	11576	019550-75-5	38.00
4	1-Hexene, 3-methyl-	3328	003404-61-3	35.00
5	2-Hexene, 3-methyl-, (Z)-	3383	010574-36-4	27.00



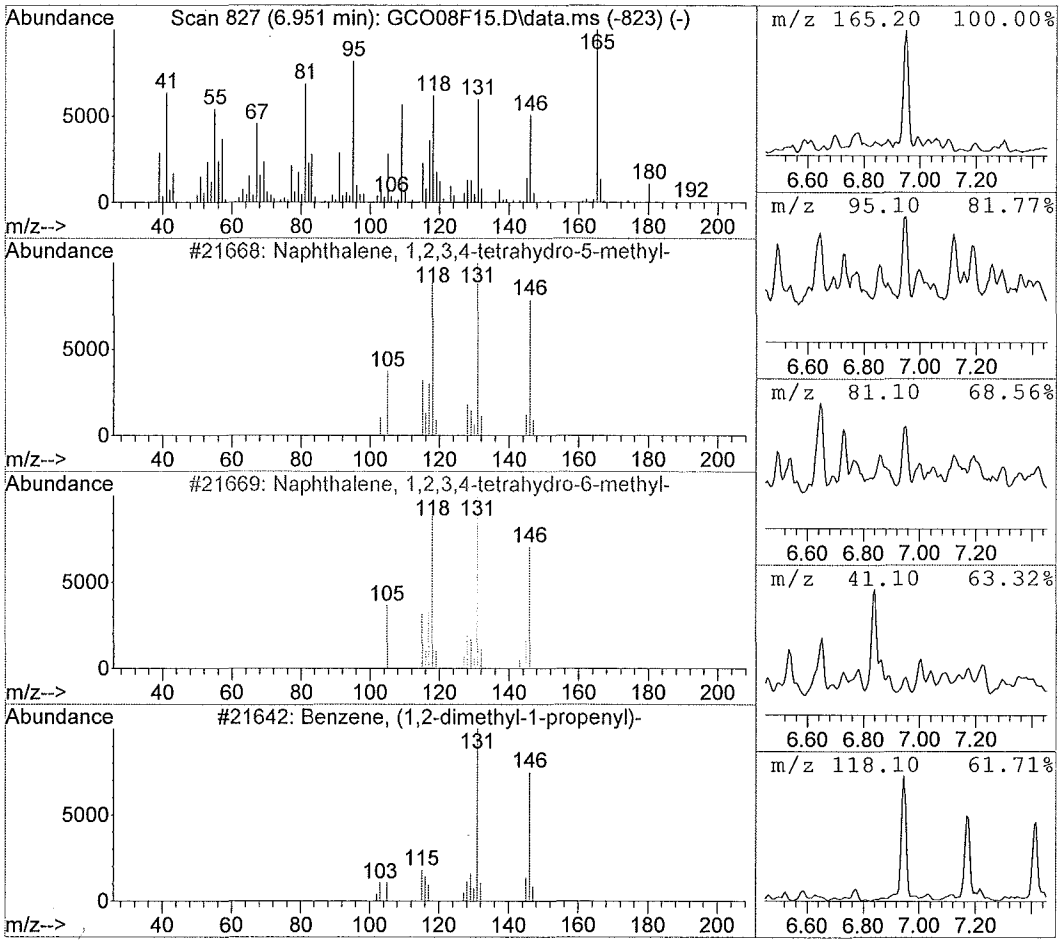
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.95	8.51 ug/ml	2260541	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-5-m	21668	002809-64-5	91.00
2	Naphthalene, 1,2,3,4-tetrahydro-6-m	21669	001680-51-9	70.00
3	Benzene, (1,2-dimethyl-1-propenyl)-	21642	000769-57-3	56.00
4	Benzene, 2-ethenyl-1,3,5-trimethyl-	21643	000769-25-5	41.00
5	4-Ethyl-2-hexynal	10488	071932-97-3	38.00



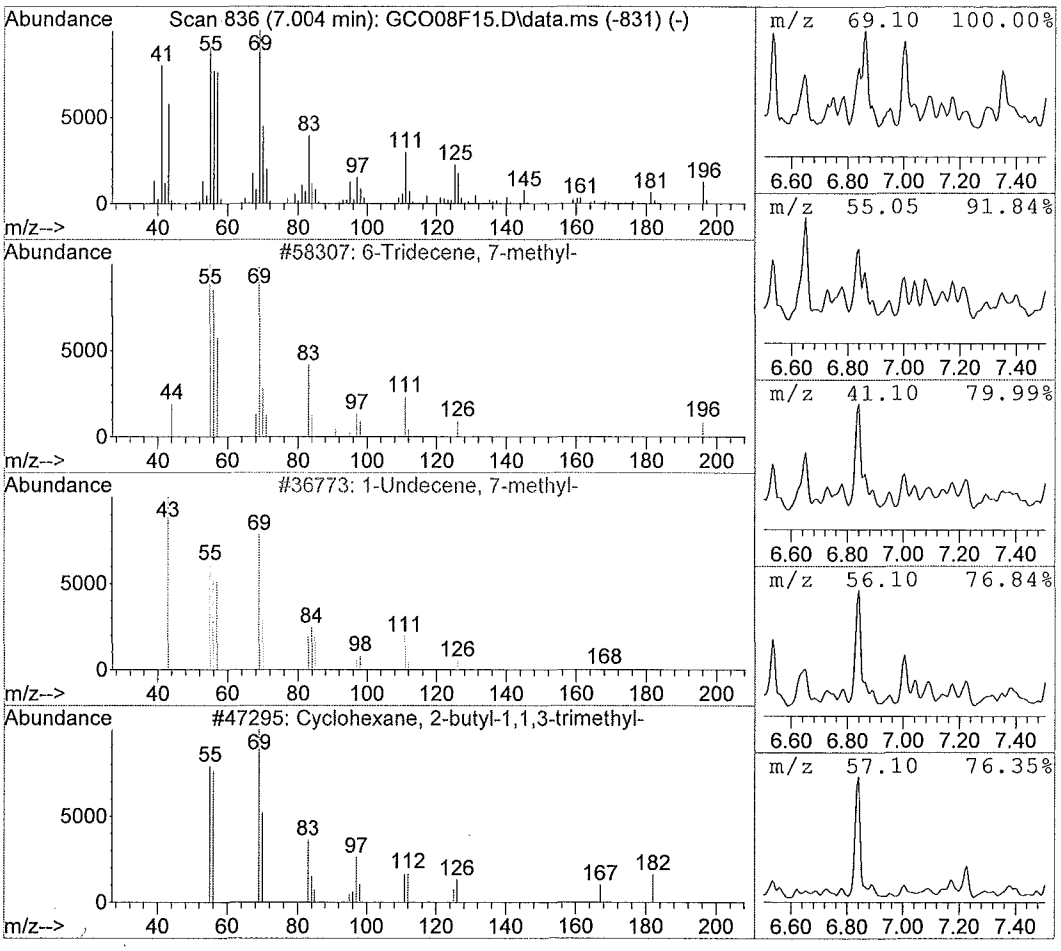
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.00	12.51 ug/ml	3323090	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	6-Tridecene, 7-methyl-	58307	024949-42-6	91.00
2	1-Undecene, 7-methyl-	36773	074630-42-5	72.00
3	Cyclohexane, 2-butyl-1,1,3-trimethy	47295	054676-39-0	68.00
4	1-Undecene, 8-methyl-	36770	074630-40-3	64.00
5	Cyclopropane, 1,2-dimethyl-1-pentyl	18055	062238-04-4	64.00



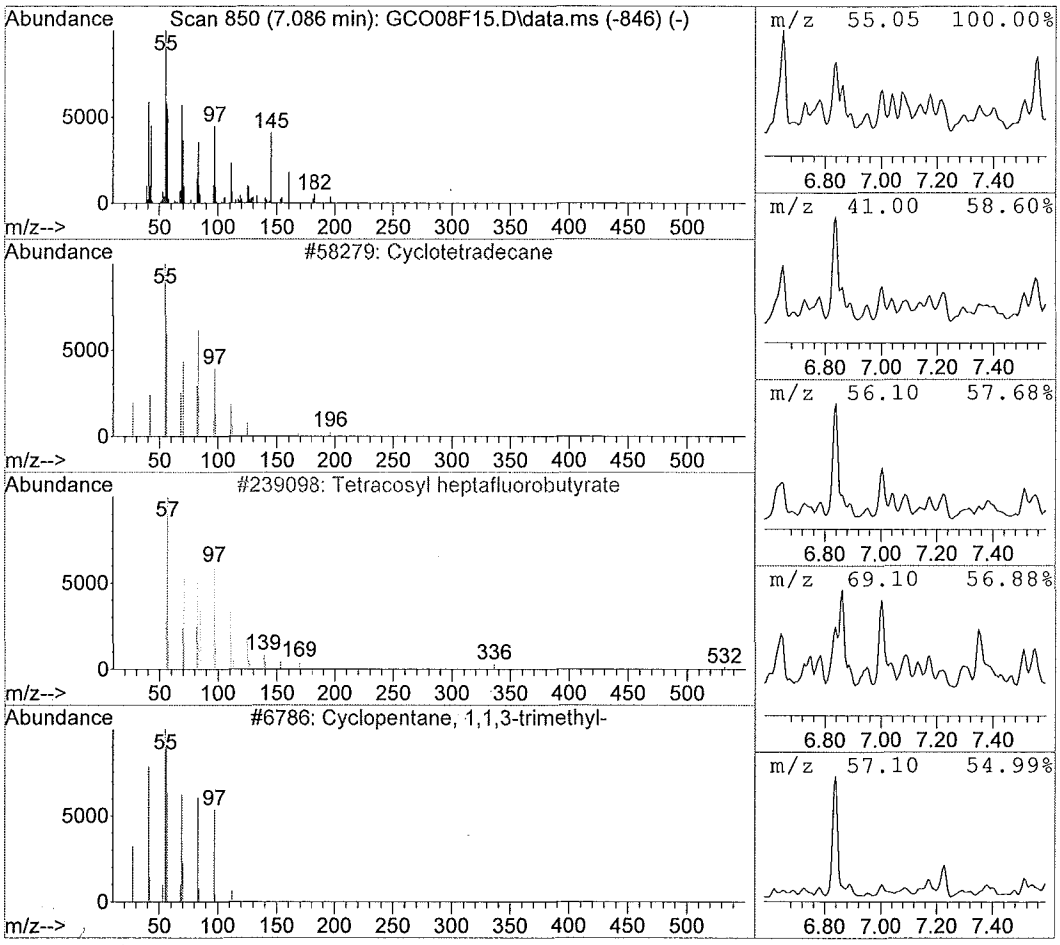
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.09	6.42 ug/ml	1704152	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclotetradecane	58279	000295-17-0	49.00
2	Tetracosyl heptafluorobutyrate	239098	1000351-83-7	46.00
3	Cyclopentane, 1,1,3-trimethyl-	6786	004516-69-2	42.00
4	6-Tridecene, 7-methyl-	58309	024949-42-6	41.00
5	Tridecane, 7-methylene-	58310	019780-80-4	38.00



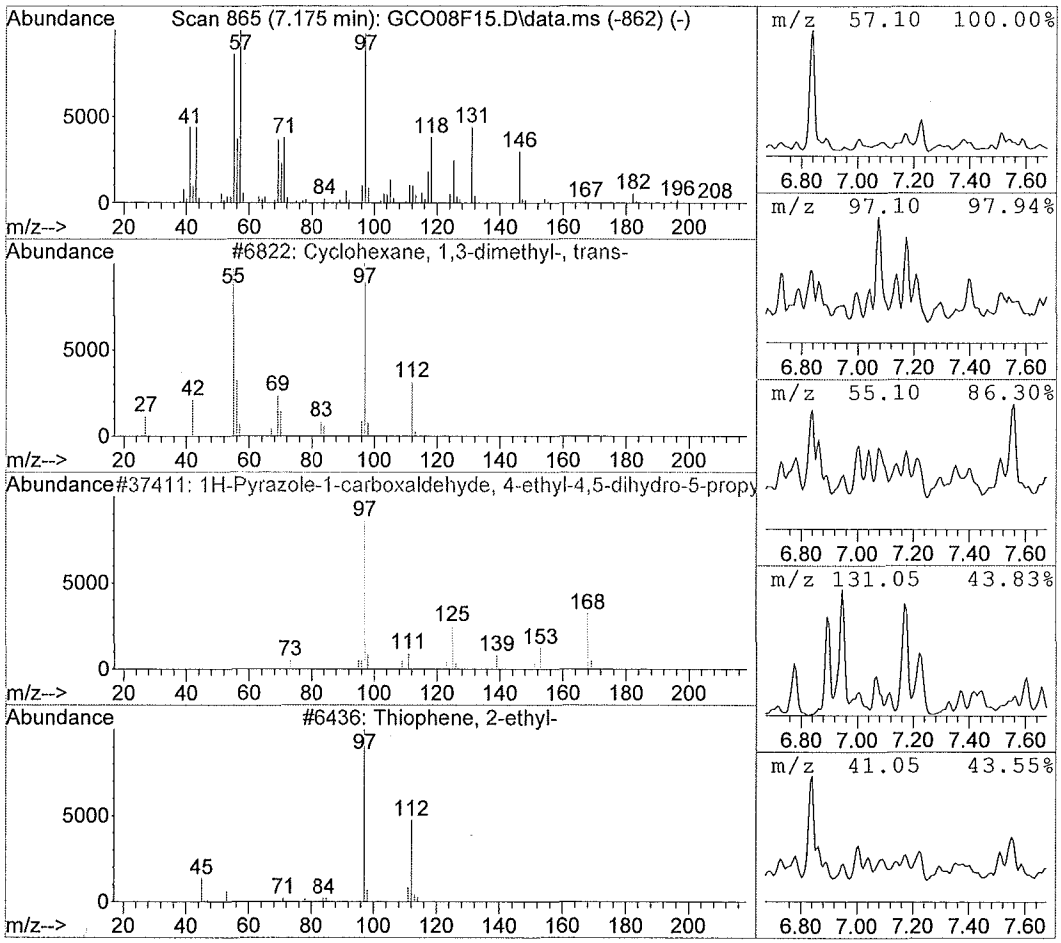
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.17	5.74 ug/ml	1524687	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, trans- CA	6822	002207-03-6	38.00
2	1H-Pyrazole-1-carboxaldehyde, 4-eth	37411	054411-09-5	32.00
3	Thiophene, 2-ethyl-	6436	000872-55-9	27.00
4	2,4-Dimethyl-1,5-diazabicyclo[3.1.0	6335	1000283-20-9	27.00
5	5-Octen-4-one, 7-methyl-	18704	032064-78-1	27.00



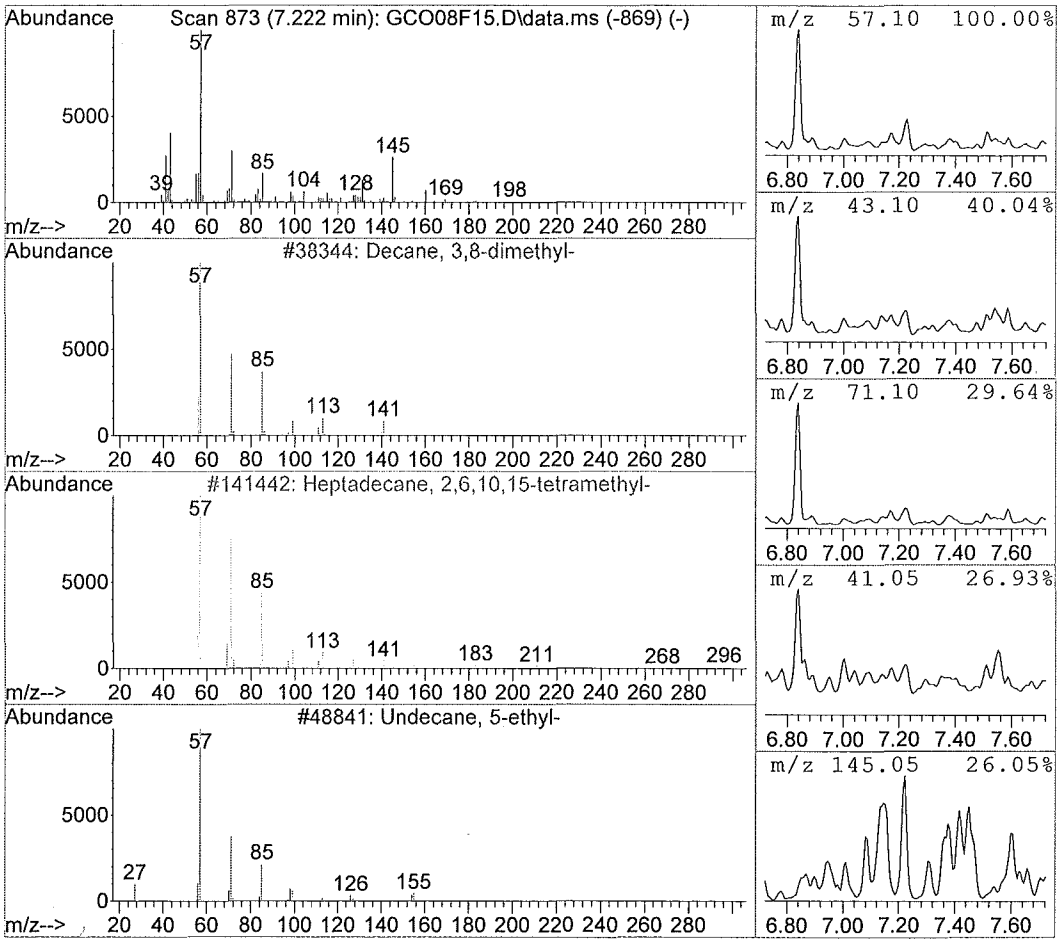
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.22	17.57 ug/ml	4665098	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 3,8-dimethyl- BA	38344	017312-55-9	35.00
2	Heptadecane, 2,6,10,15-tetramethyl-	141442	054833-48-6	35.00
3	Undecane, 5-ethyl-	48841	017453-94-0	35.00
4	Undecane, 3,6-dimethyl-	48867	017301-28-9	30.00
5	3-Hexanone, 2,4-dimethyl-	12595	018641-70-8	27.00



: 00533

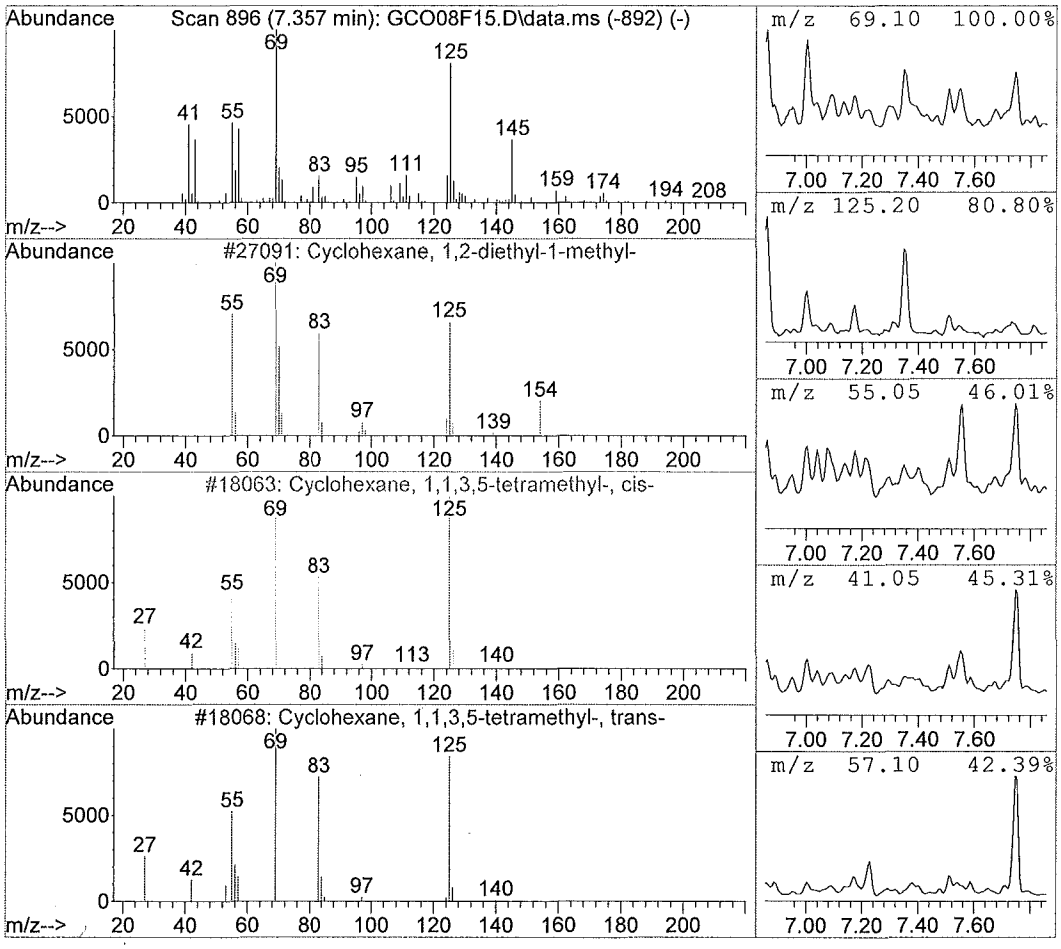
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.36	3.87 ug/ml	1027678	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,2-diethyl-1-methyl- CA	27091	061141-79-5	59.00
2	Cyclohexane, 1,1,3,5-tetramethyl-,	18063	050876-32-9	50.00
3	Cyclohexane, 1,1,3,5-tetramethyl-,	18068	050876-31-8	42.00
4	2,2-Dimethyl-3-heptene trans	11576	019550-75-5	35.00
5	4N-Methylcytosine	10751	006220-47-9	35.00



: 00531

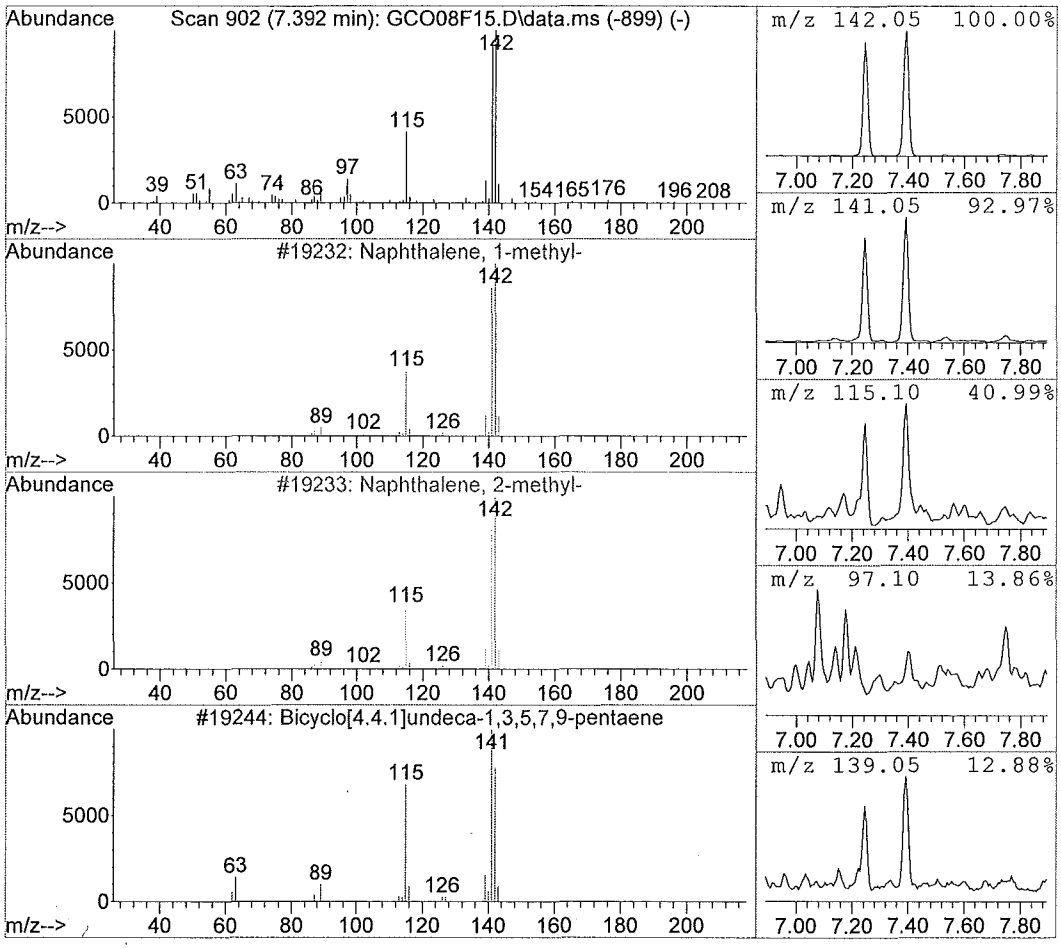
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.39	9.18 ug/ml	2438164	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1-methyl-	19232	000090-12-0	94.00
2	Naphthalene, 2-methyl-	19233	000091-57-6	94.00
3	Bicyclo[4.4.1]undeca-1,3,5,7,9-pent	19244	002443-46-1	90.00
4	1,4-Methanonaphthalene, 1,4-dihydro	19243	004453-90-1	90.00
5	Benzocycloheptatriene	19230	000264-09-5	90.00



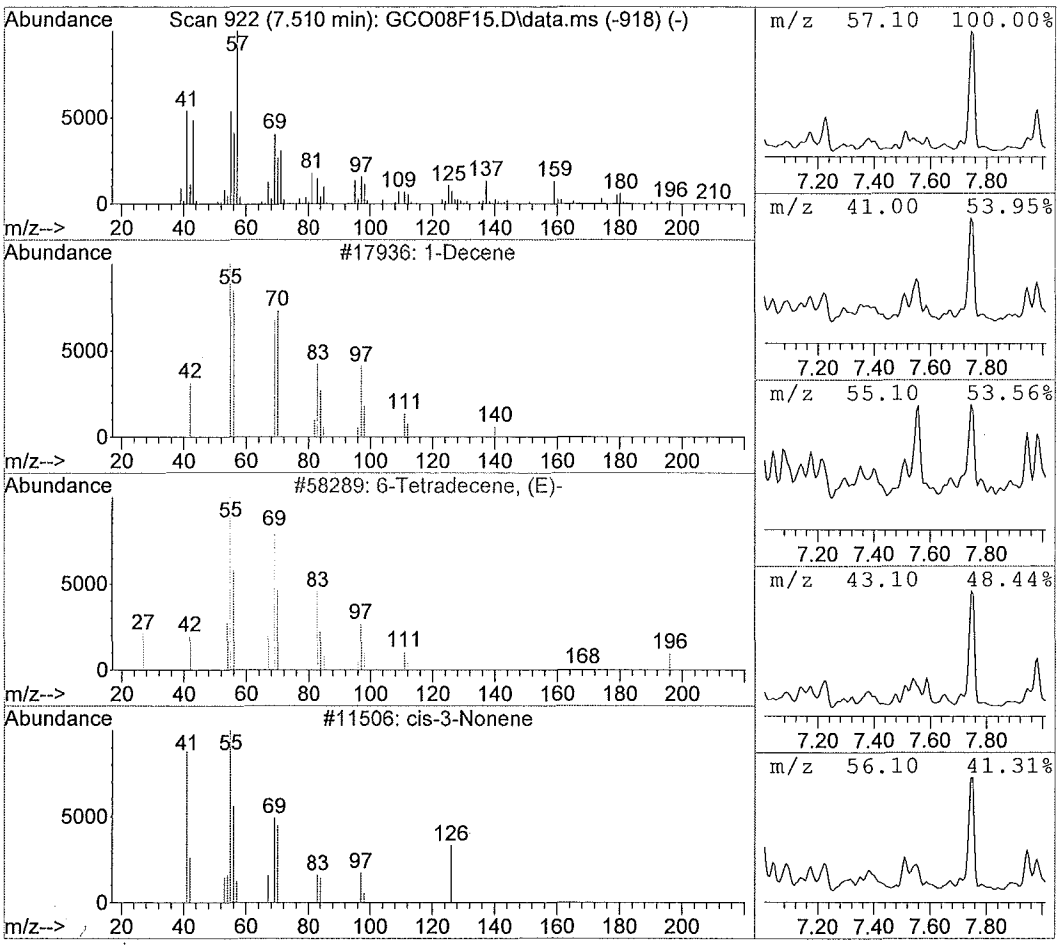
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.51	9.33 ug/ml	2476969	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Decene	17936	000872-05-9	55.00
2	6-Tetradecene, (E)-	58289	041446-64-4	46.00
3	cis-3-Nonene	11506	020237-46-1	41.00
4	Heptane, 5-ethyl-2,2,3-trimethyl-	38361	062199-06-8	38.00
5	1-Hexene, 3-methyl-	3320	003404-61-3	35.00



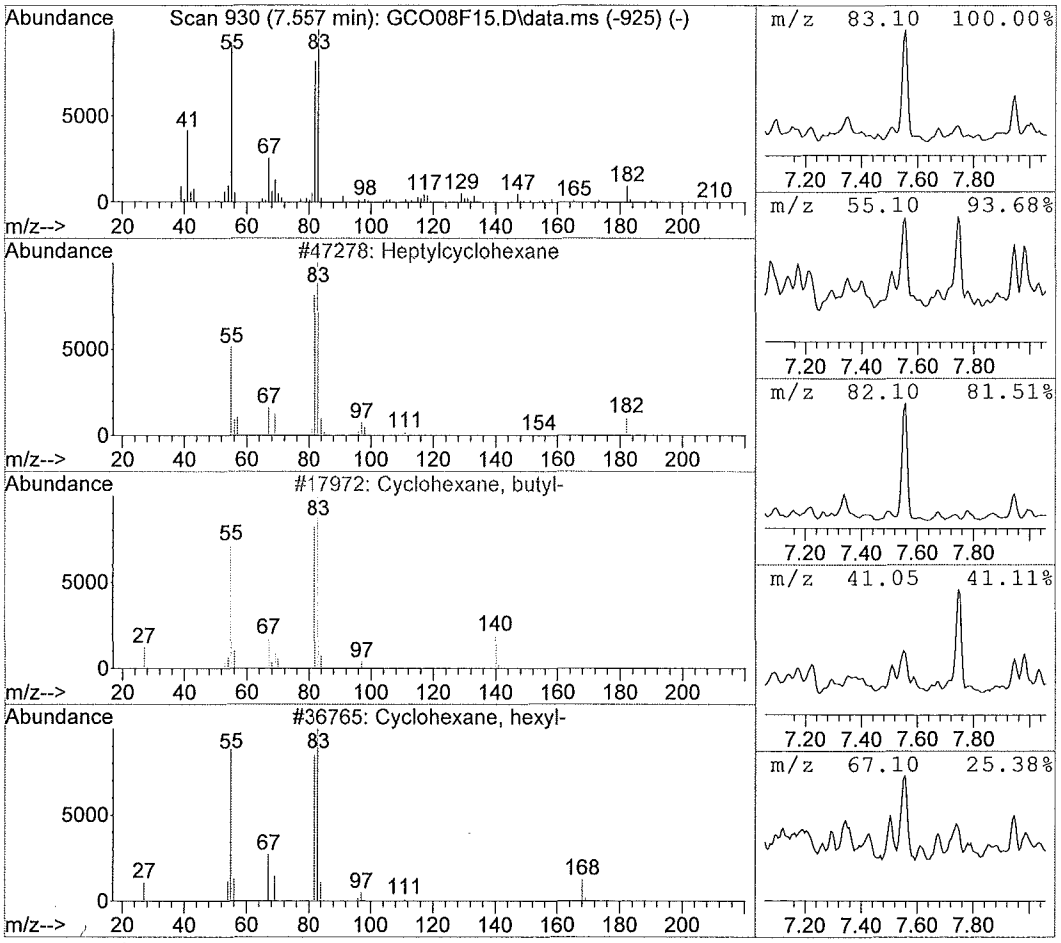
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.56	16.91 ug/ml	4490896	Naphthalene-d8	5311792

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptylcyclohexane	47278	005617-41-4	86.00
2	Cyclohexane, butyl-	17972	001678-93-9	72.00
3	Cyclohexane, hexyl-	36765	004292-75-5	72.00
4	Cyclohexane, pentyl-	27055	004292-92-6	72.00
5	Cyclohexane, 1,1'-(1,4-butanediyl)b	79573	006165-44-2	72.00



Library Search Compound Report

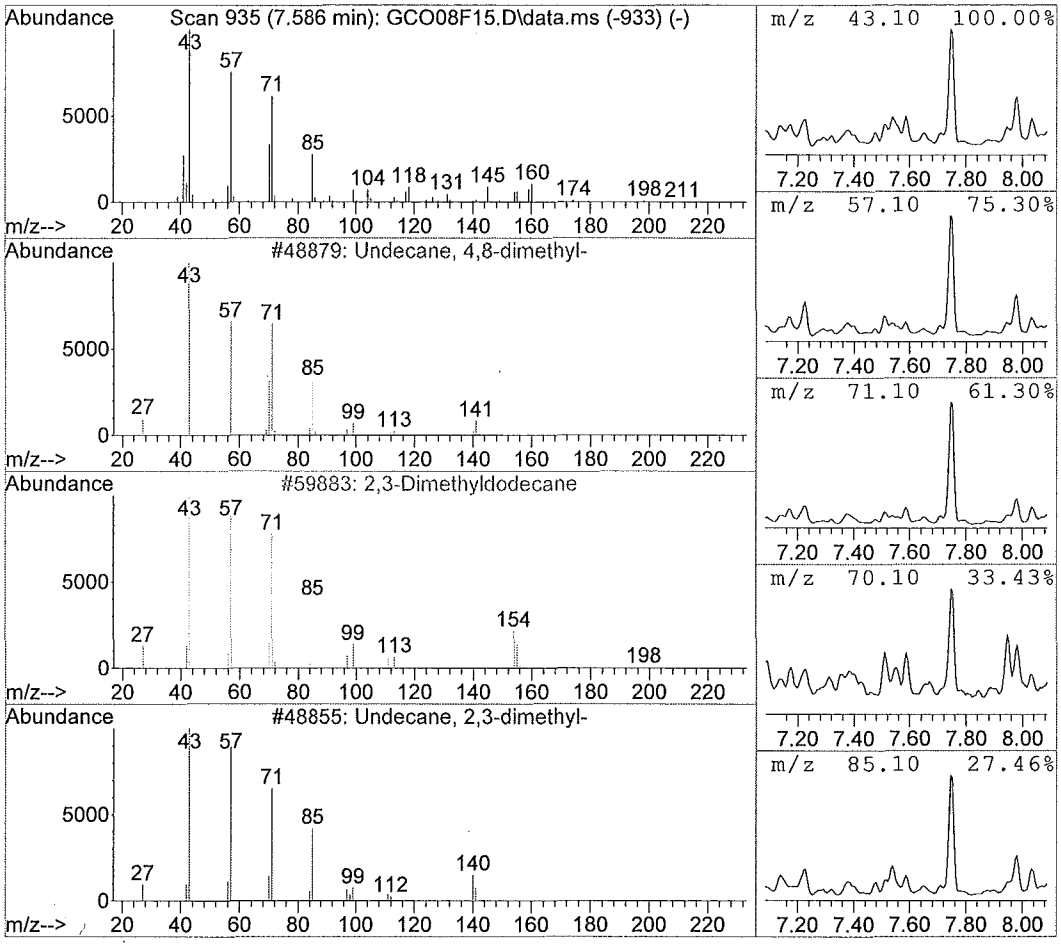
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.59	7.66 ug/ml	1493817	Acenaphthene-d10	3901965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 4,8-dimethyl-	48879	017301-33-6	59.00
2	2,3-Dimethyldodecane	59883	006117-98-2	53.00
3	Undecane, 2,3-dimethyl-	48855	017312-77-5	50.00
4	Octane, 6-ethyl-2-methyl-	28450	062016-19-7	50.00
5	Decane, 4-methyl-	28434	002847-72-5	49.00

BA



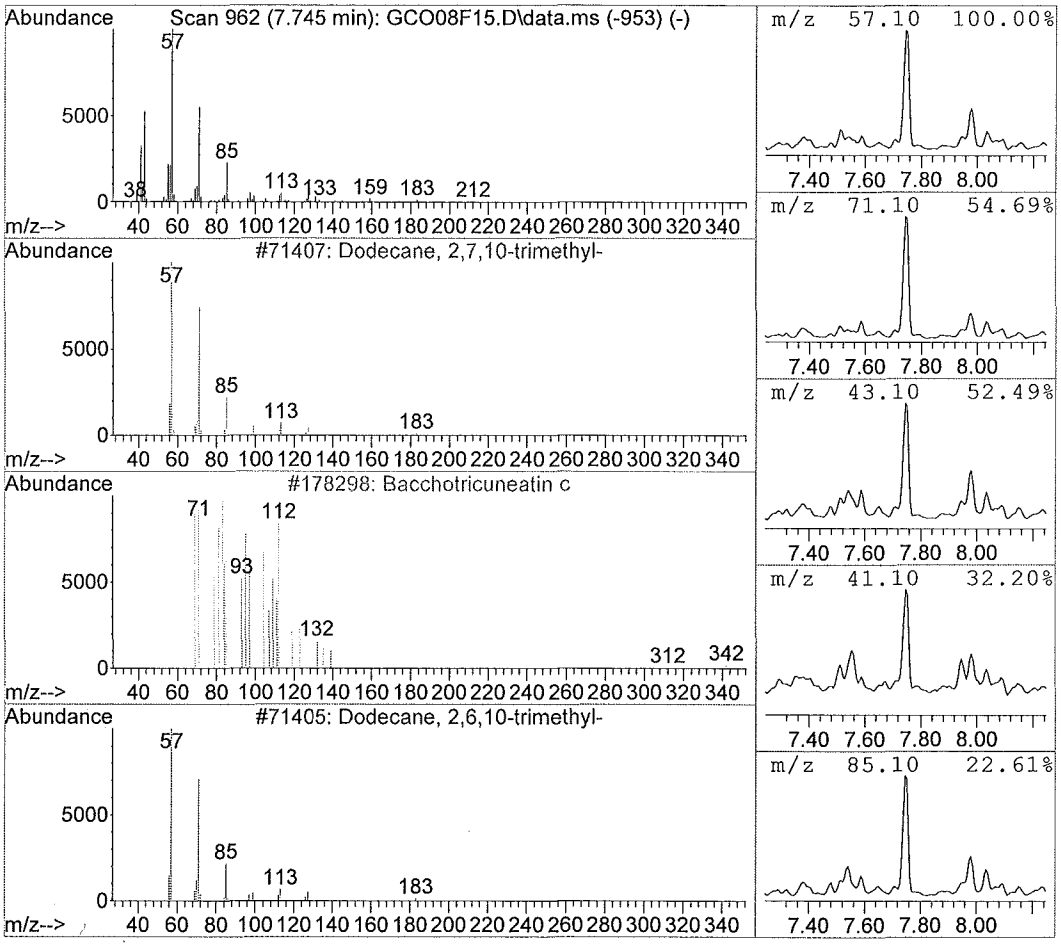
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.75	60.12 ug/ml	11728904	Acenaphthene-d10	3901965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2,7,10-trimethyl- βA	71407	074645-98-0	83.00
2	Bacchotricuneatin c	178298	066563-30-2	81.00
3	Dodecane, 2,6,10-trimethyl-	71405	003891-98-3	80.00
4	Octane, 2-methyl-	12672	003221-61-2	72.00
5	Nonane, 2-methyl-5-propyl-	48913	031081-17-1	72.00



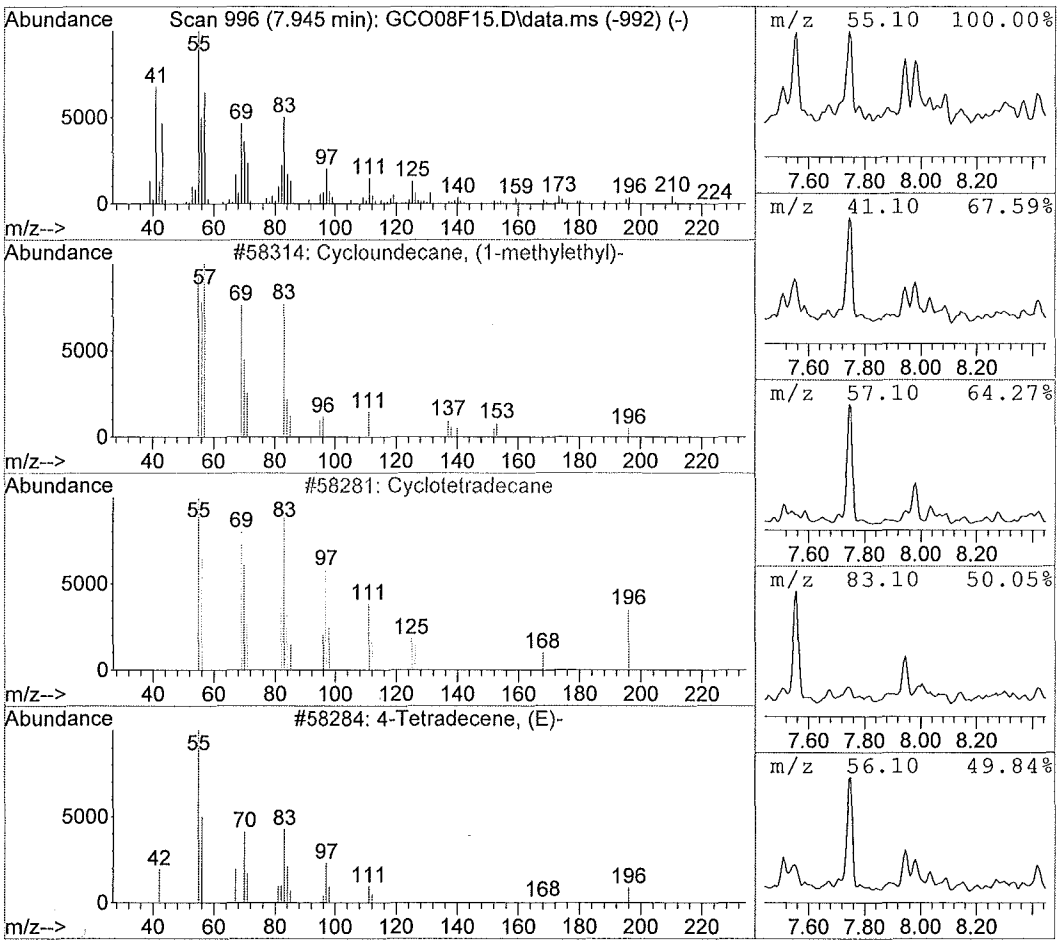
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.95	15.26 ug/ml	2977790	Acenaphthene-d10	3901965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cycloundecane, (1-methylethyl)- CA	58314	062338-56-1	91.00
2	Cyclotetradecane	58281	000295-17-0	87.00
3	4-Tetradecene, (E)-	58284	041446-78-0	83.00
4	Cyclopentane, 1-hexyl-3-methyl-	36847	061142-68-5	70.00
5	Cyclododecane	36737	000294-62-2	60.00



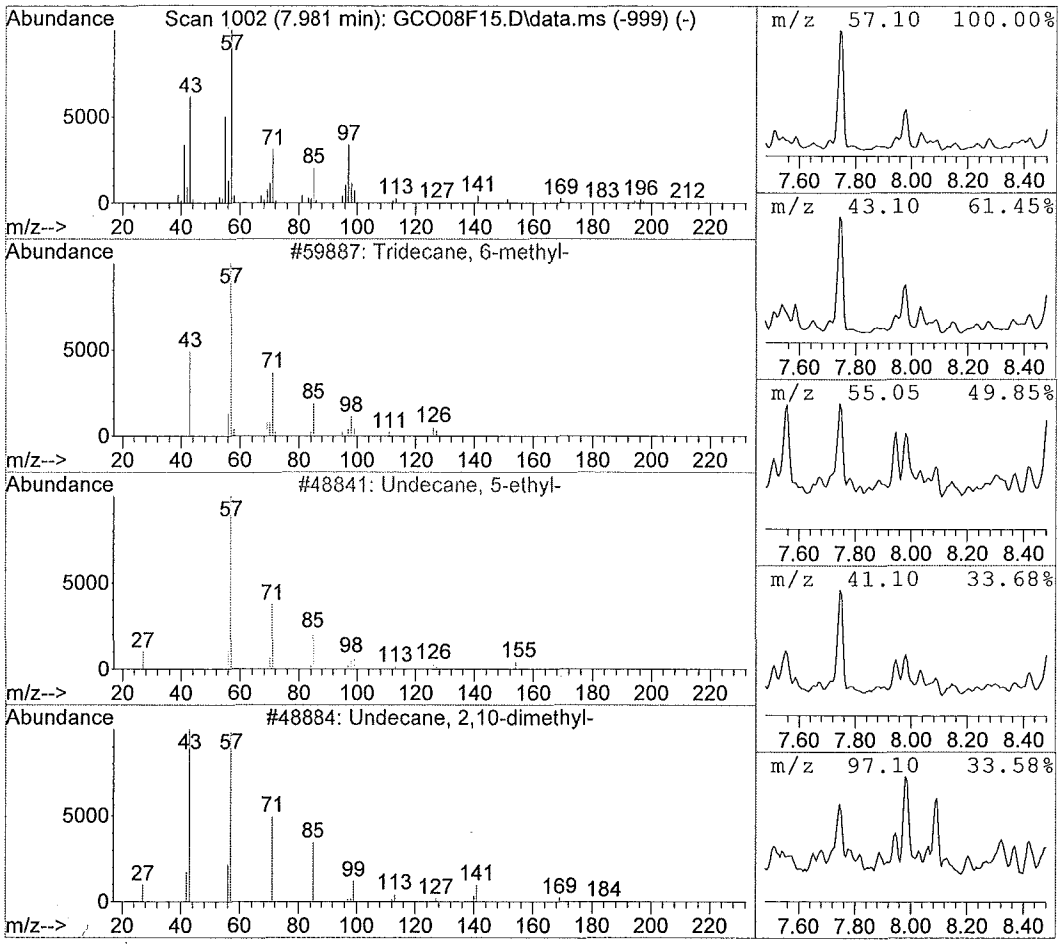
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.98	18.77 ug/ml	3662080	Acenaphthene-d10	3901965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 6-methyl- BA	59887	013287-21-3	50.00
2	Undecane, 5-ethyl-	48841	017453-94-0	47.00
3	Undecane, 2,10-dimethyl-	48884	017301-27-8	43.00
4	1-Iodo-2-methylundecane	140553	073105-67-6	38.00
5	3,5-Dimethyldodecane	59888	107770-99-0	38.00



Library Search Compound Report

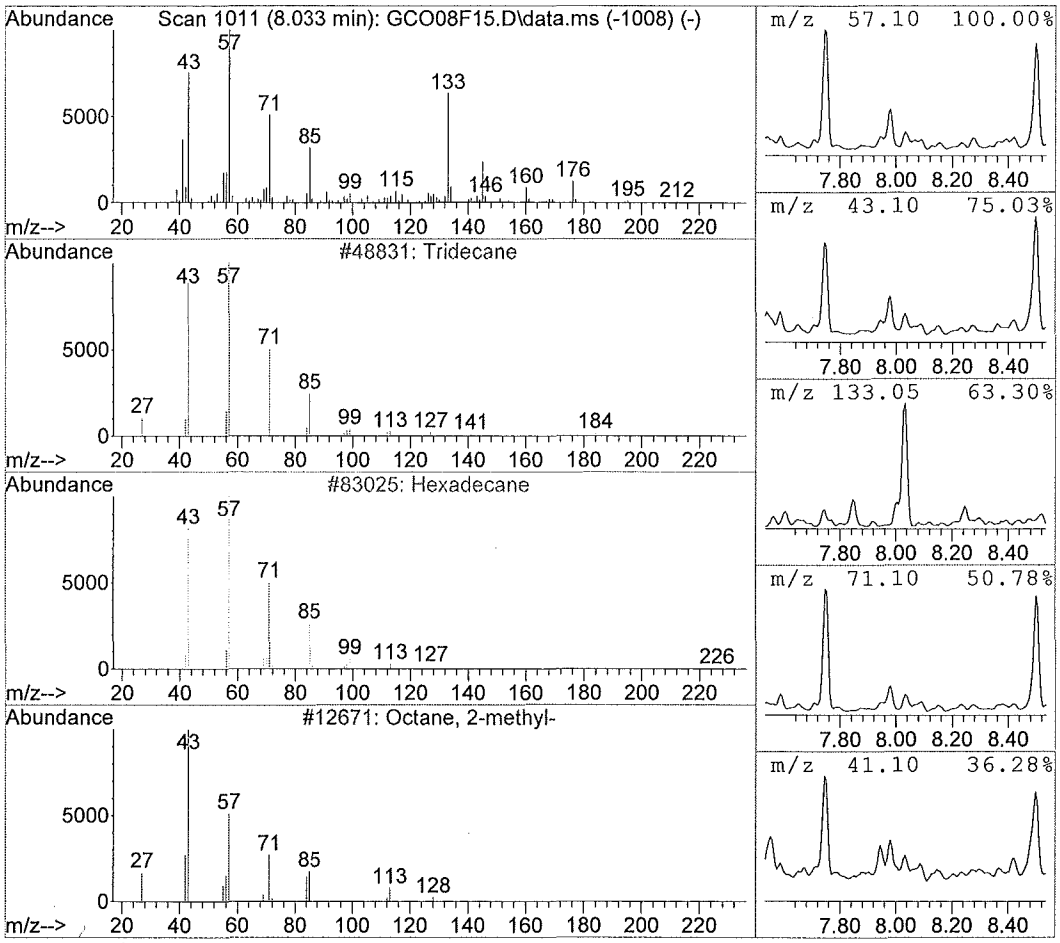
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.03	10.44 ug/ml	2036254	Acenaphthene-d10	3901965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane	48831	000629-50-5	46.00
2	Hexadecane	83025	000544-76-3	38.00
3	Octane, 2-methyl-	12671	003221-61-2	38.00
4	Dodecane	38315	000112-40-3	35.00
5	2-Bromo dodecane	100330	013187-99-0	35.00

5A



:00542

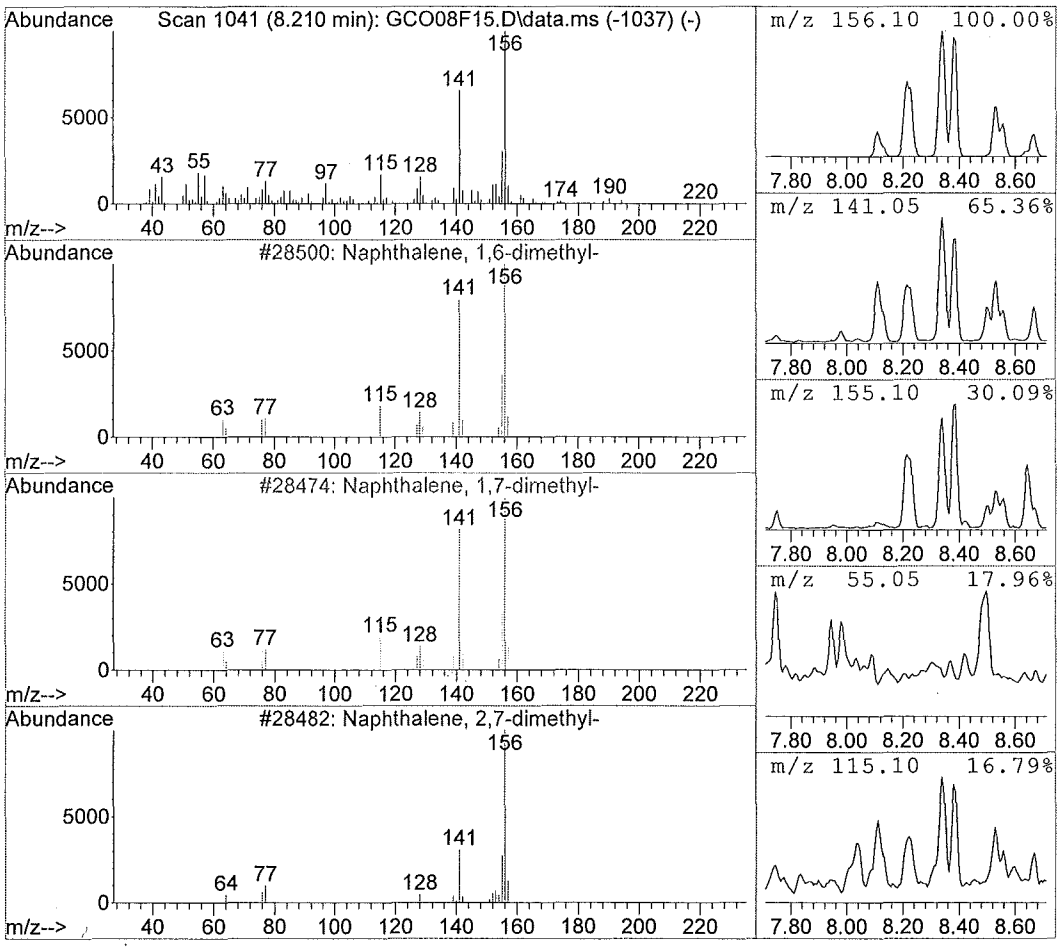
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.21	8.52 ug/ml	1662859	Acenaphthene-d10	3901965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	28500	000575-43-9	97.00
2	Naphthalene, 1,7-dimethyl-	28474	000575-37-1	96.00
3	Naphthalene, 2,7-dimethyl-	28482	000582-16-1	96.00
4	Naphthalene, 1,4-dimethyl-	28498	000571-58-4	96.00
5	Naphthalene, 2,3-dimethyl-	28485	000581-40-8	96.00



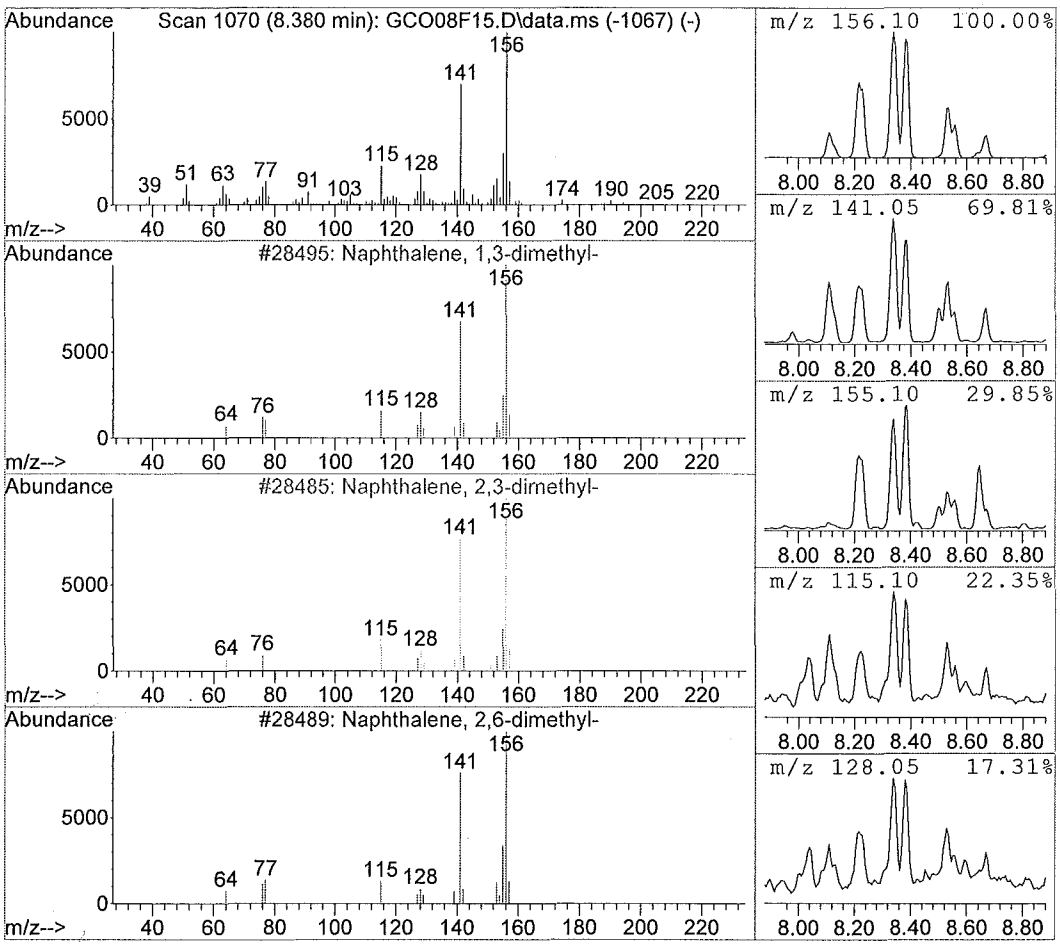
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.38	9.55 ug/ml	1863056	Acenaphthene-d10	3901965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,3-dimethyl-	28495	000575-41-7	96.00
2	Naphthalene, 2,3-dimethyl-	28485	000581-40-8	96.00
3	Naphthalene, 2,6-dimethyl-	28489	000581-42-0	96.00
4	Naphthalene, 1,7-dimethyl-	28474	000575-37-1	96.00
5	Naphthalene, 2,7-dimethyl-	28480	000582-16-1	95.00



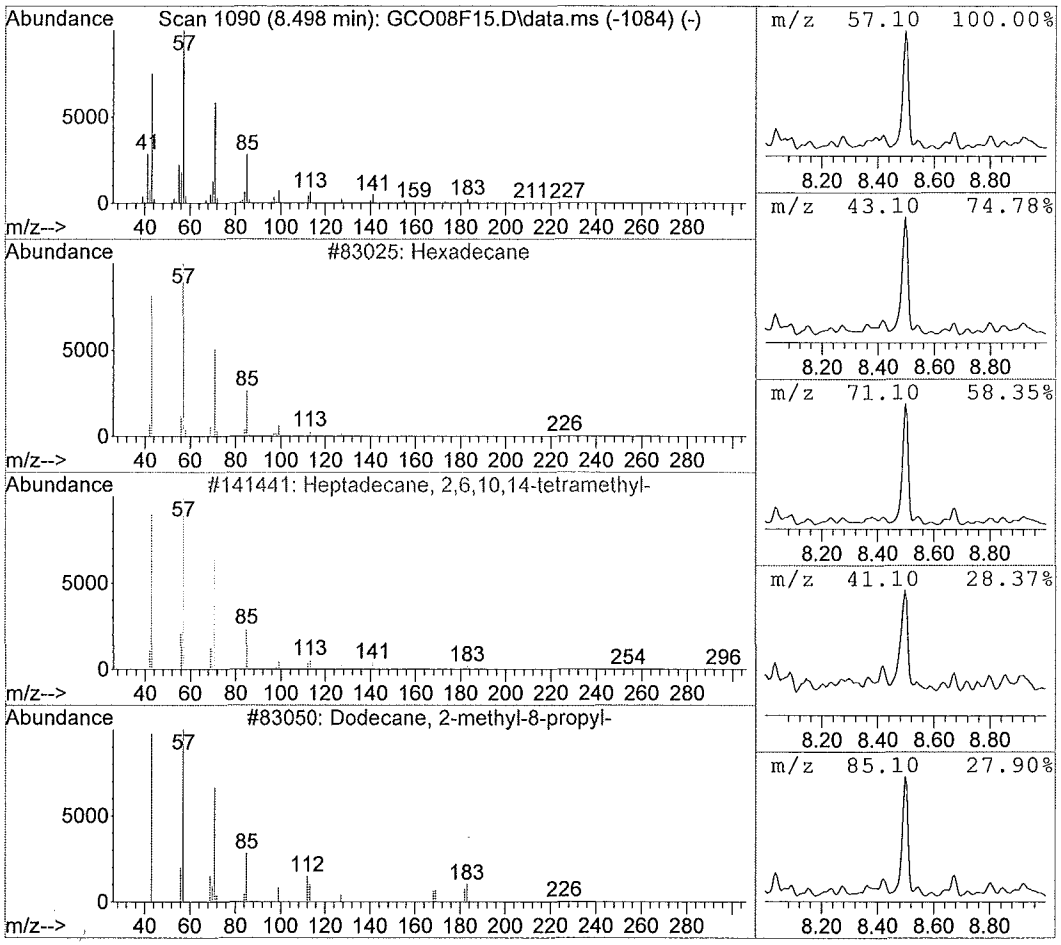
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.50	52.84 ug/ml	10309893	Acenaphthene-d10	3901965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane SA	83025	000544-76-3	93.00
2	Heptadecane, 2,6,10,14-tetramethyl-	141441	018344-37-1	87.00
3	Dodecane, 2-methyl-8-propyl-	83050	055045-07-3	83.00
4	Tridecane	48832	000629-50-5	83.00
5	Undecane, 4,6-dimethyl-	48869	017312-82-2	83.00



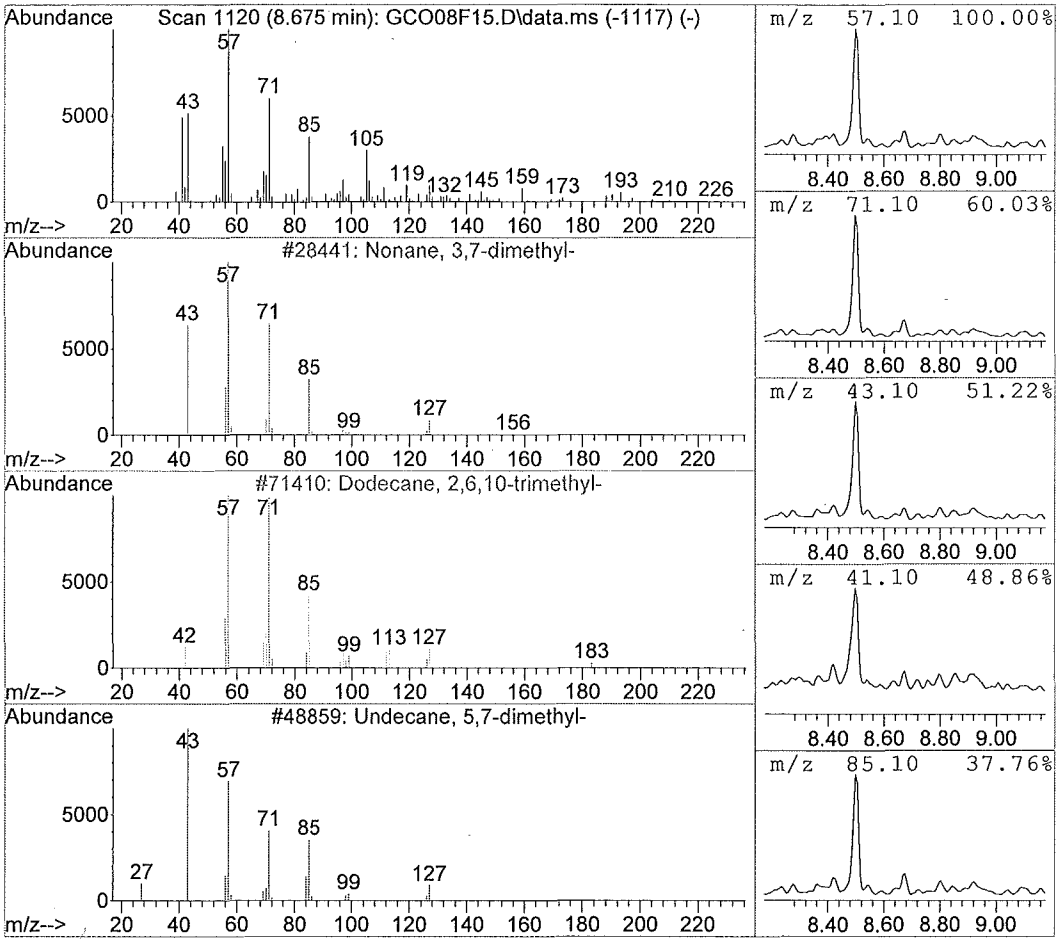
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.67	7.75 ug/ml	1511556	Acenaphthene-d10	3901965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonane, 3,7-dimethyl-	28441	017302-32-8	50.00
2	Dodecane, 2,6,10-trimethyl- βA	71410	003891-98-3	50.00
3	Undecane, 5,7-dimethyl-	48859	017312-83-3	47.00
4	Decane, 3-methyl-	28429	013151-34-3	43.00
5	Tridecane, 6-propyl-	83030	055045-10-8	43.00



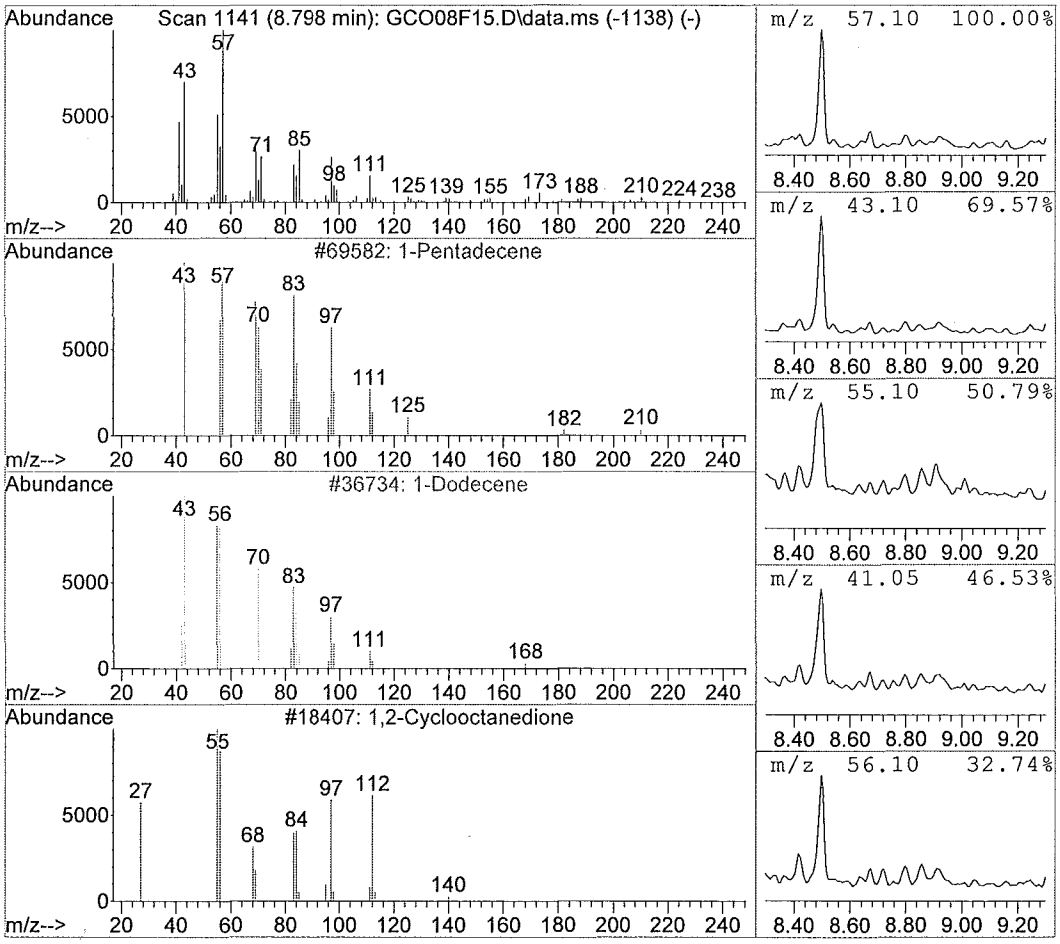
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.80	6.28 ug/ml	1225989	Acenaphthene-d10	3901965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Pentadecene	69582	013360-61-7	49.00
2	1-Dodecene	36734	000112-41-4	43.00
3	1,2-Cyclooctanedione	18407	003008-37-5	43.00
4	Tridecane	48834	000629-50-5	38.00
5	Hexyl octyl ether	72867	017071-54-4	38.00



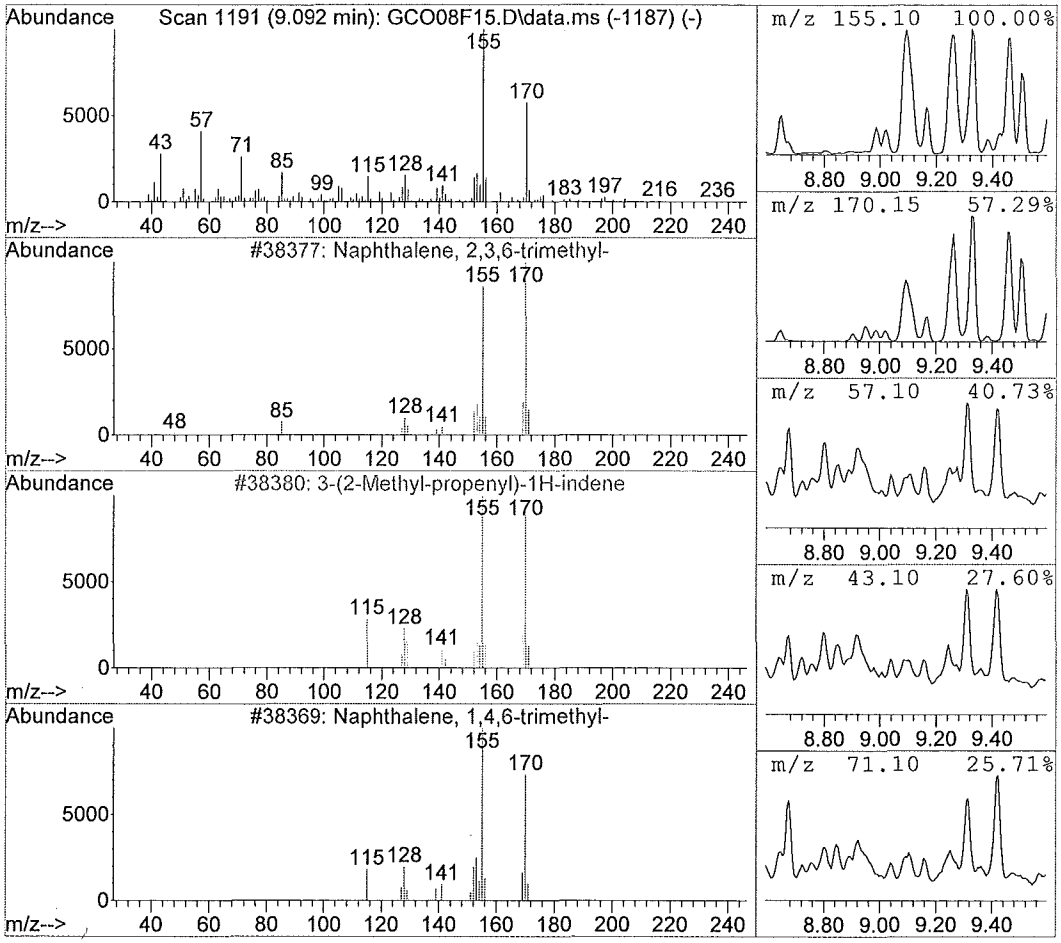
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.09	11.81 ug/ml	2304453	Acenaphthene-d10	3901965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	38377	000829-26-5	93.00
2	3-(2-Methyl-propenyl)-1H-indene	38380	1000187-78-5	91.00
3	Naphthalene, 1,4,6-trimethyl-	38369	002131-42-2	83.00
4	Naphthalene, 1,6,7-trimethyl-	38370	002245-38-7	81.00
5	Naphthalene, 2-(1-methylethyl)-	38381	002027-17-0	81.00



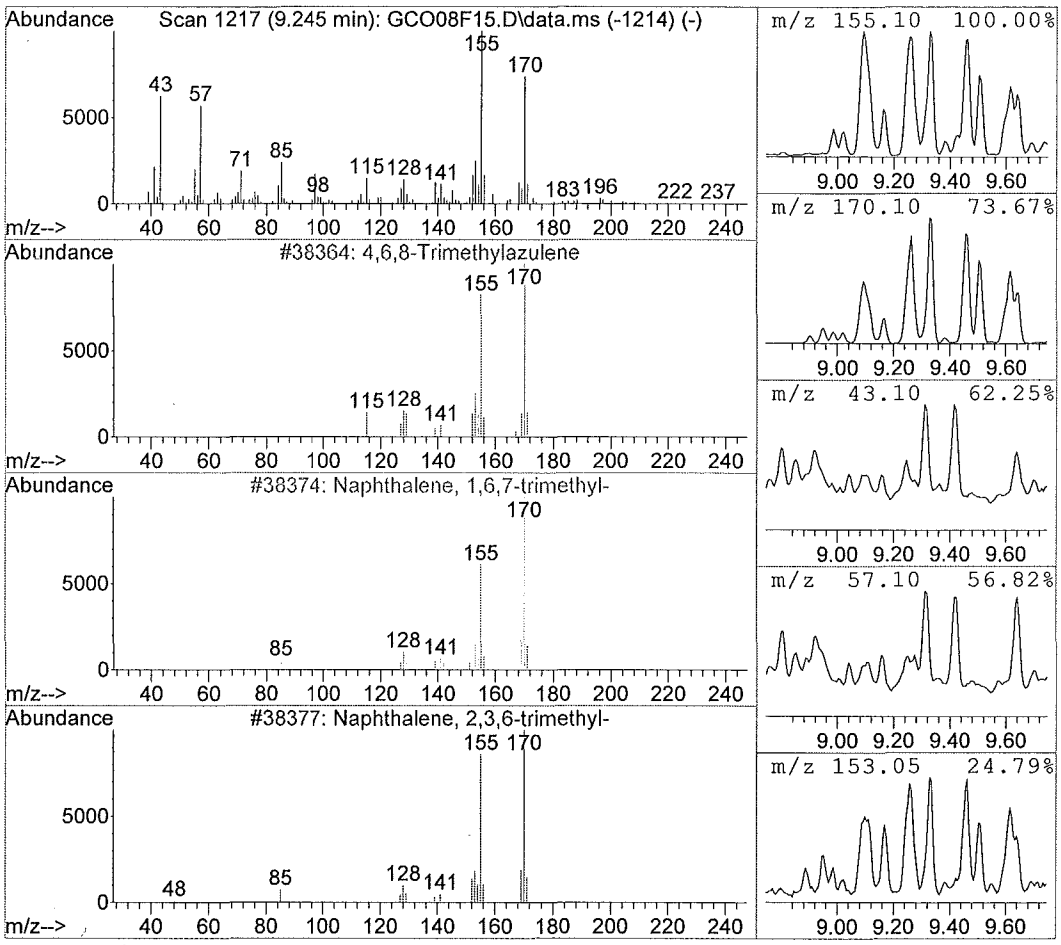
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.25	10.79 ug/ml	2104358	Acenaphthene-d10	3901965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4,6,8-Trimethylazulene	38364	000941-81-1	91.00
2	Naphthalene, 1,6,7-trimethyl-	38374	002245-38-7	91.00
3	Naphthalene, 2,3,6-trimethyl-	38377	000829-26-5	90.00
4	Naphthalene, 1,4,6-trimethyl-	38369	002131-42-2	87.00
5	3-(2-Methyl-propenyl)-1H-indene	38380	1000187-78-5	83.00



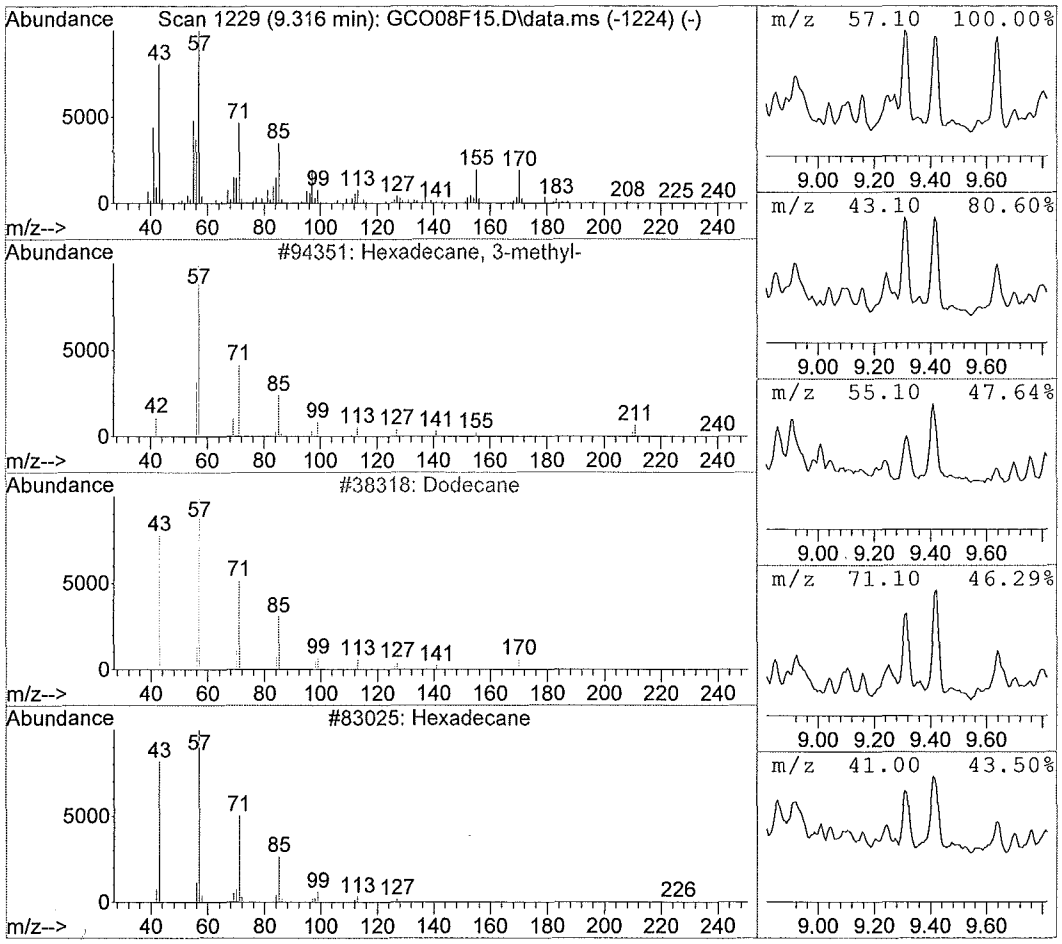
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.32	19.11 ug/ml	3727762	Acenaphthene-d10	3901965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane, 3-methyl-	94351	006418-43-5	64.00
2	Dodecane	38318	000112-40-3	62.00
3	Hexadecane	83025	000544-76-3	60.00
4	1-Iodo-2-methylundecane	140553	073105-67-6	58.00
5	Undecane, 3-methyl-	38335	001002-43-3	50.00



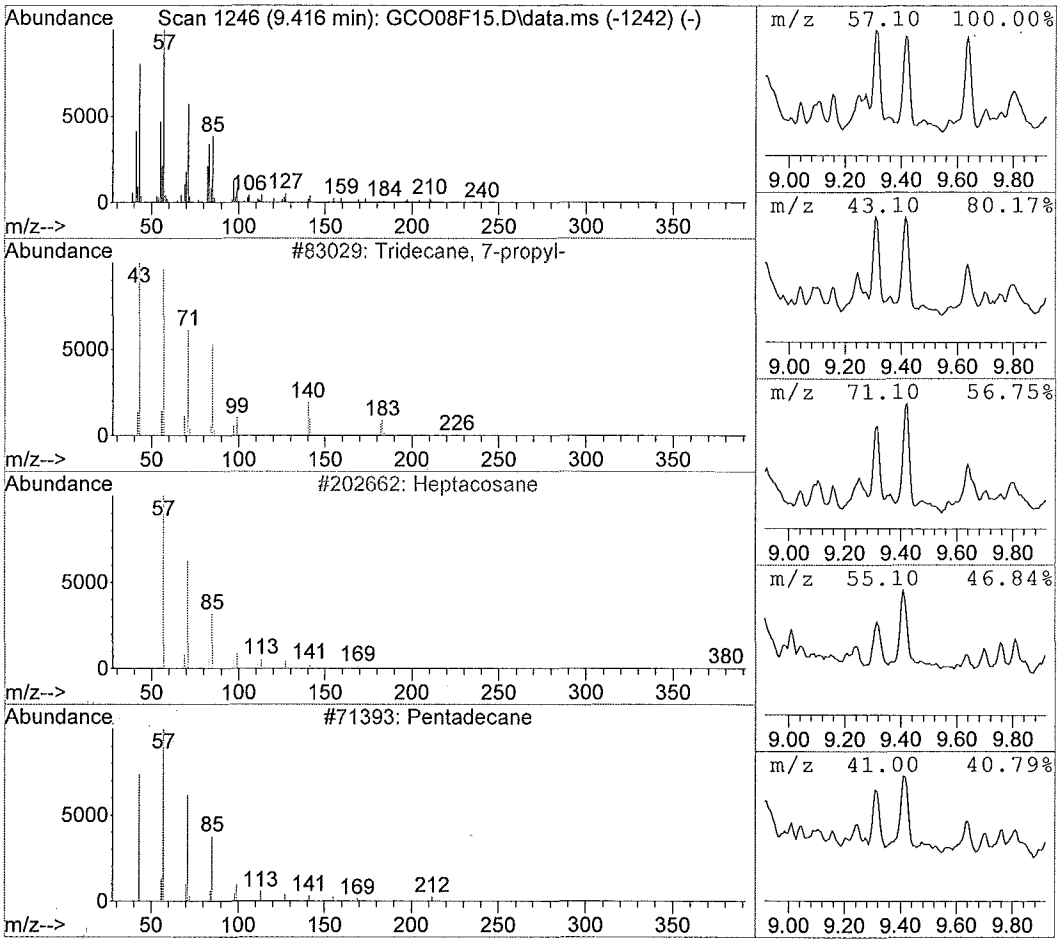
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.42	14.00 ug/ml	2731317	Acenaphthene-d10	3901965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 7-propyl- BA	83029	055045-09-5	55.00
2	Heptacosane	202662	000593-49-7	52.00
3	Pentadecane	71393	000629-62-9	52.00
4	Sulfurous acid, butyl nonyl ester	113721	1000309-17-6	50.00
5	Hexadecane	83023	000544-76-3	49.00



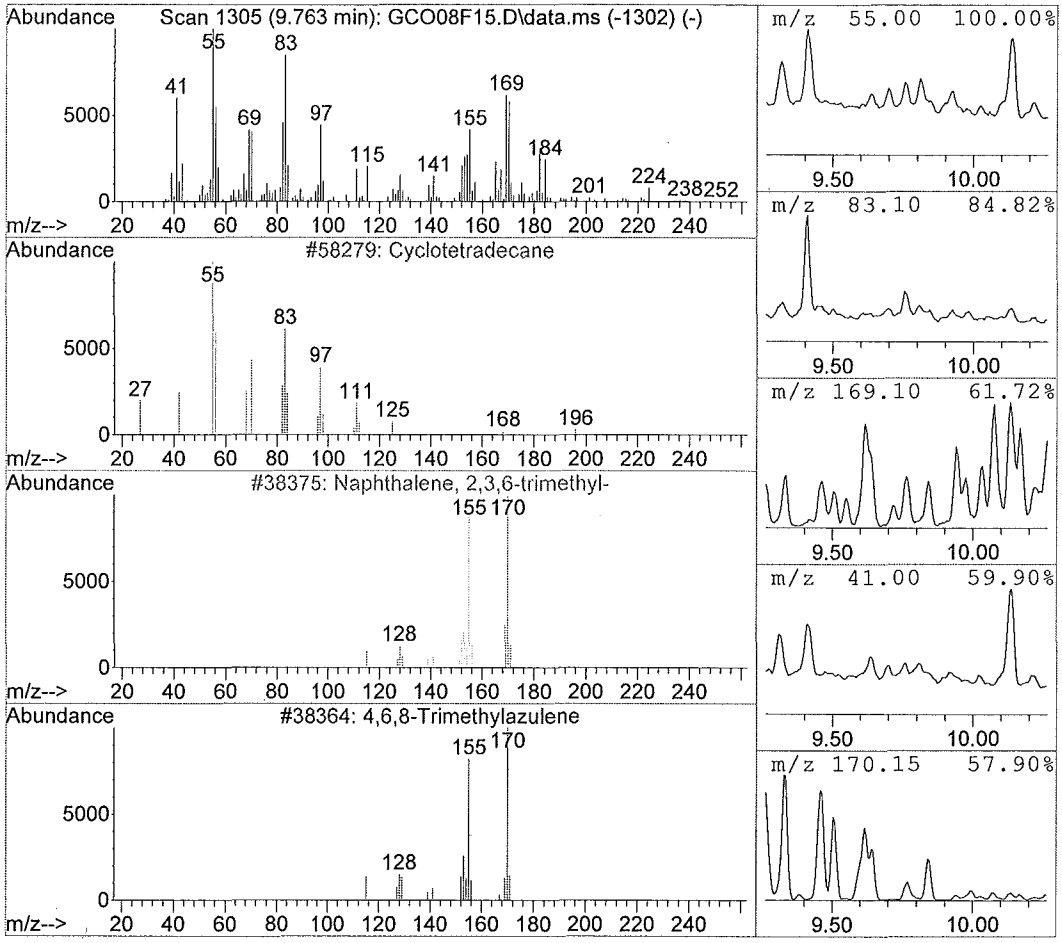
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.76	2.89 ug/ml	563526	Acenaphthene-d10	3901965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclotetradecane CA	58279	000295-17-0	44.00
2	Naphthalene, 2,3,6-trimethyl-	38375	000829-26-5	20.00
3	4,6,8-Trimethylazulene	38364	000941-81-1	18.00
4	Naphthalene, 1,6,7-trimethyl-	38370	002245-38-7	14.00
5	o-Hydroxybiphenyl	38293	000090-43-7	11.00



00552

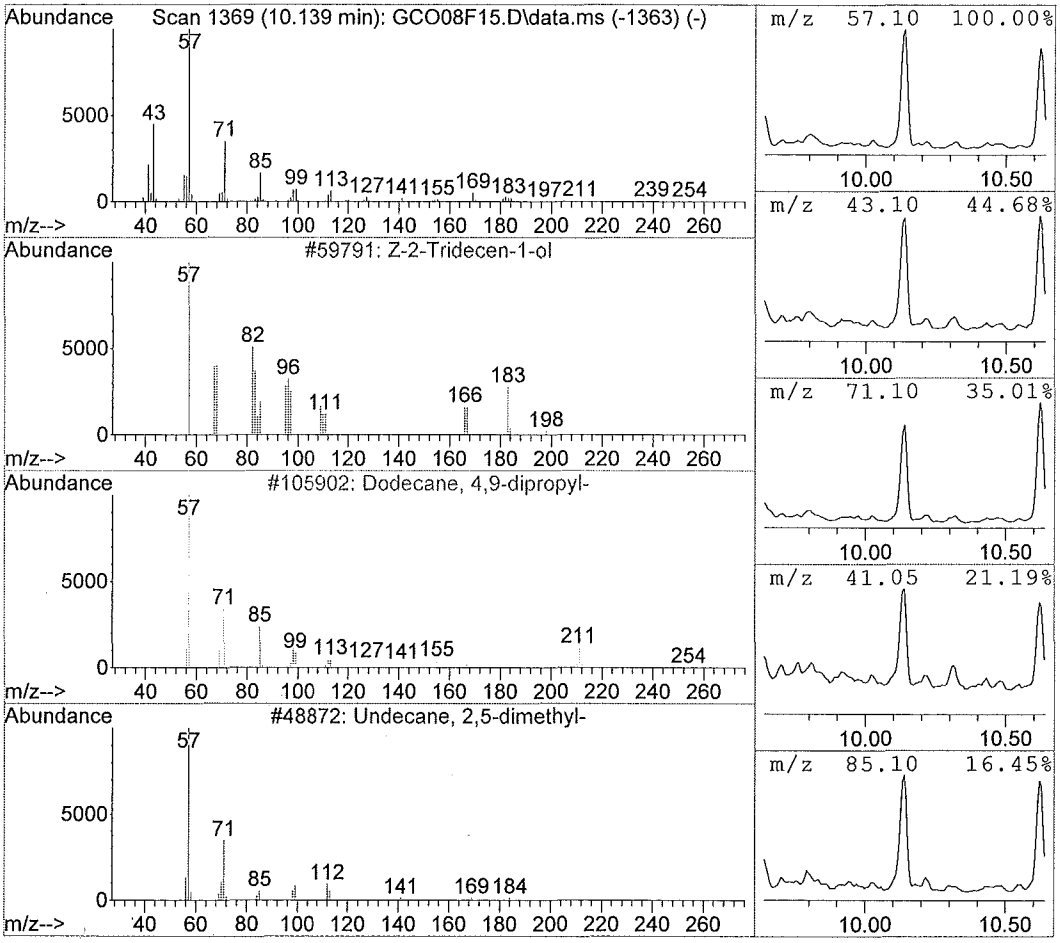
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.14	39.36 ug/ml	7679750	Acenaphthene-d10	3901965

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Z-2-Tridecen-1-ol	59791	1000130-75-8	92.00
2	Dodecane, 4,9-dipropyl-	105902	003054-63-5	87.00
3	Undecane, 2,5-dimethyl-	48872	017301-22-3	81.00
4	Tridecane	48834	000629-50-5	74.00
5	5-Ethyldecane	38319	017302-36-2	72.00



Library Search Compound Report

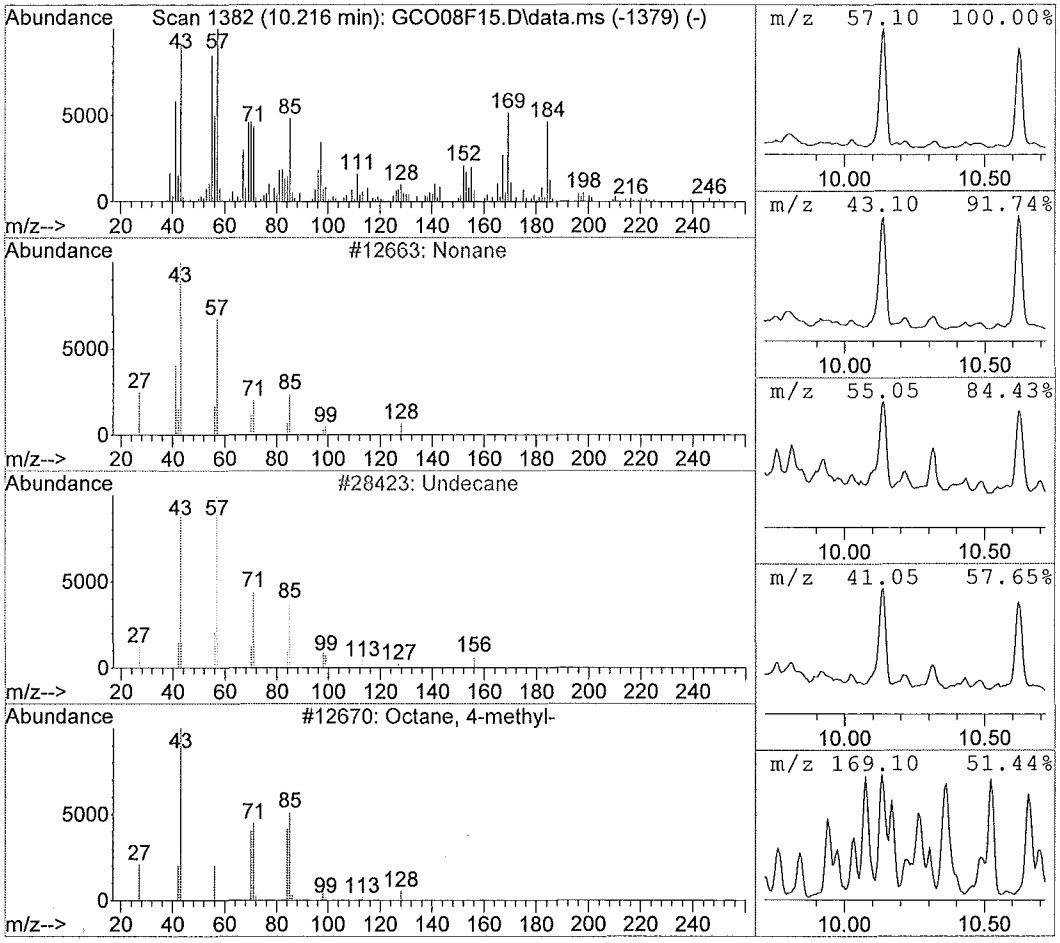
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.22	5.25 ug/ml	851491	Phenanthrene-d10	3240894

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonane	12663	000111-84-2	38.00
2	Undecane	28423	001120-21-4	35.00
3	Octane, 4-methyl-	12670	002216-34-4	30.00
4	Naphthalene, 1,2,3,4-tetramethyl-	48934	003031-15-0	25.00
5	1-(5-Methoxy-4,4-dimethyl-dihydro-f	48365	1000185-36-3	25.00

5A



Library Search Compound Report

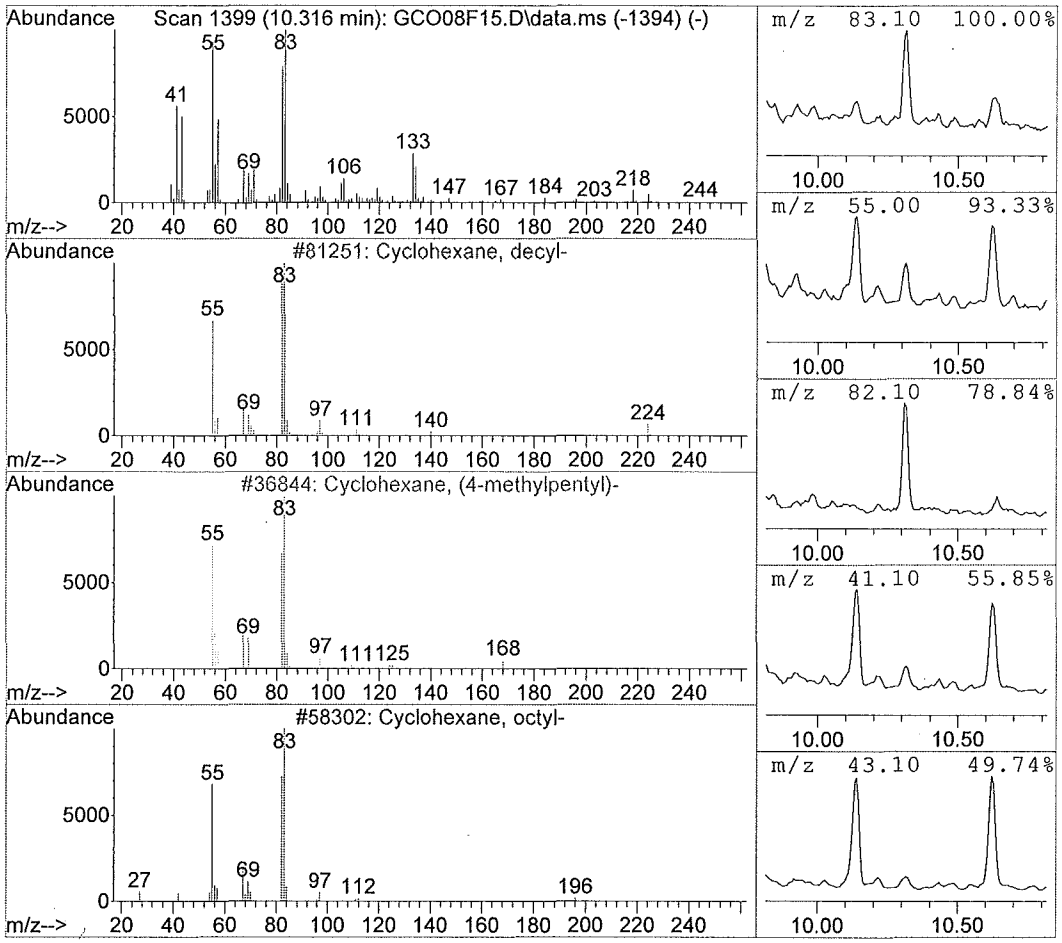
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.32	8.30 ug/ml	1344378	Phenanthrene-d10	3240894

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, decyl-	81251	001795-16-0	76.00
2	Cyclohexane, (4-methylpentyl)-	36844	061142-20-9	64.00
3	Cyclohexane, octyl-	58302	001795-15-9	62.00
4	Cyclohexane, propyl-	11540	001678-92-8	59.00
5	Cyclohexane, pentyl-	27055	004292-92-6	59.00

CA



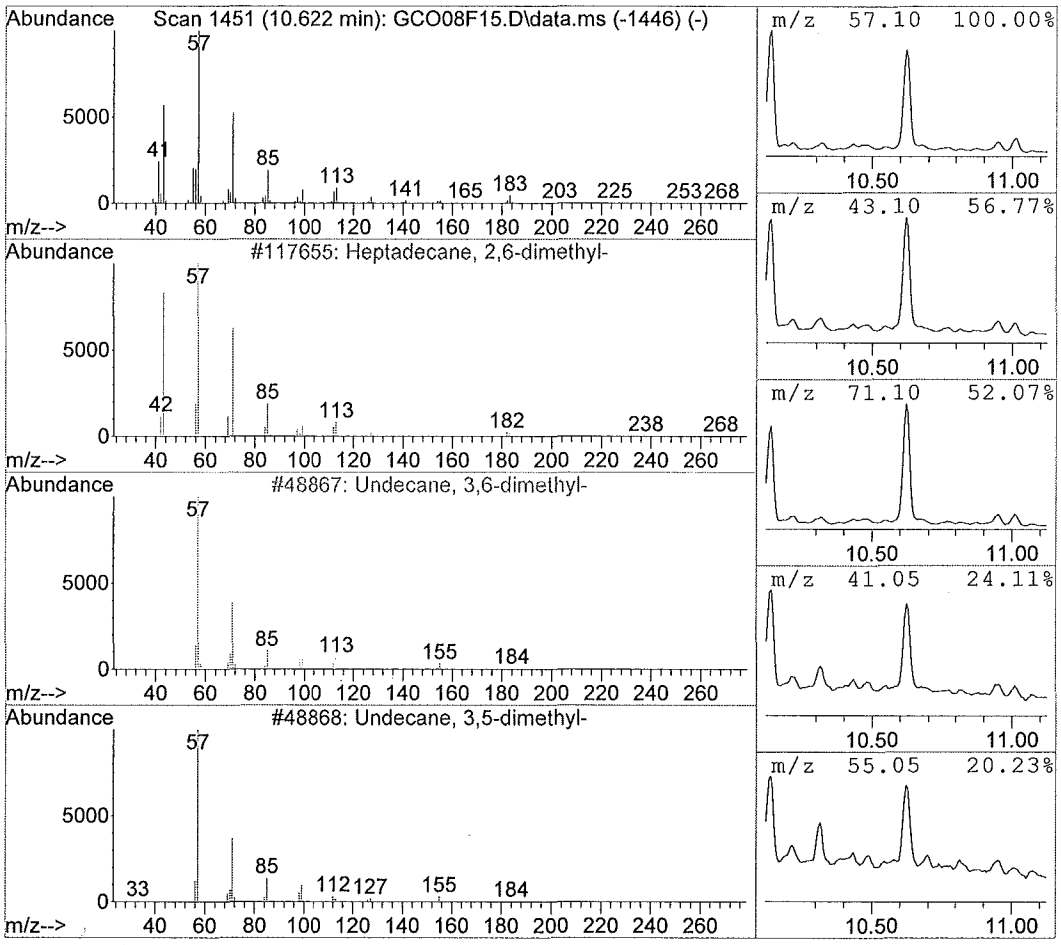
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.62	41.08 ug/ml	6657198	Phenanthrene-d10	3240894

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane, 2,6-dimethyl- BA	117655	054105-67-8	94.00
2	Undecane, 3,6-dimethyl-	48867	017301-28-9	80.00
3	Undecane, 3,5-dimethyl-	48868	017312-81-1	72.00
4	Hexadecane	83025	000544-76-3	70.00
5	Undecane, 6-ethyl-	48842	017312-60-6	62.00



Library Search Compound Report

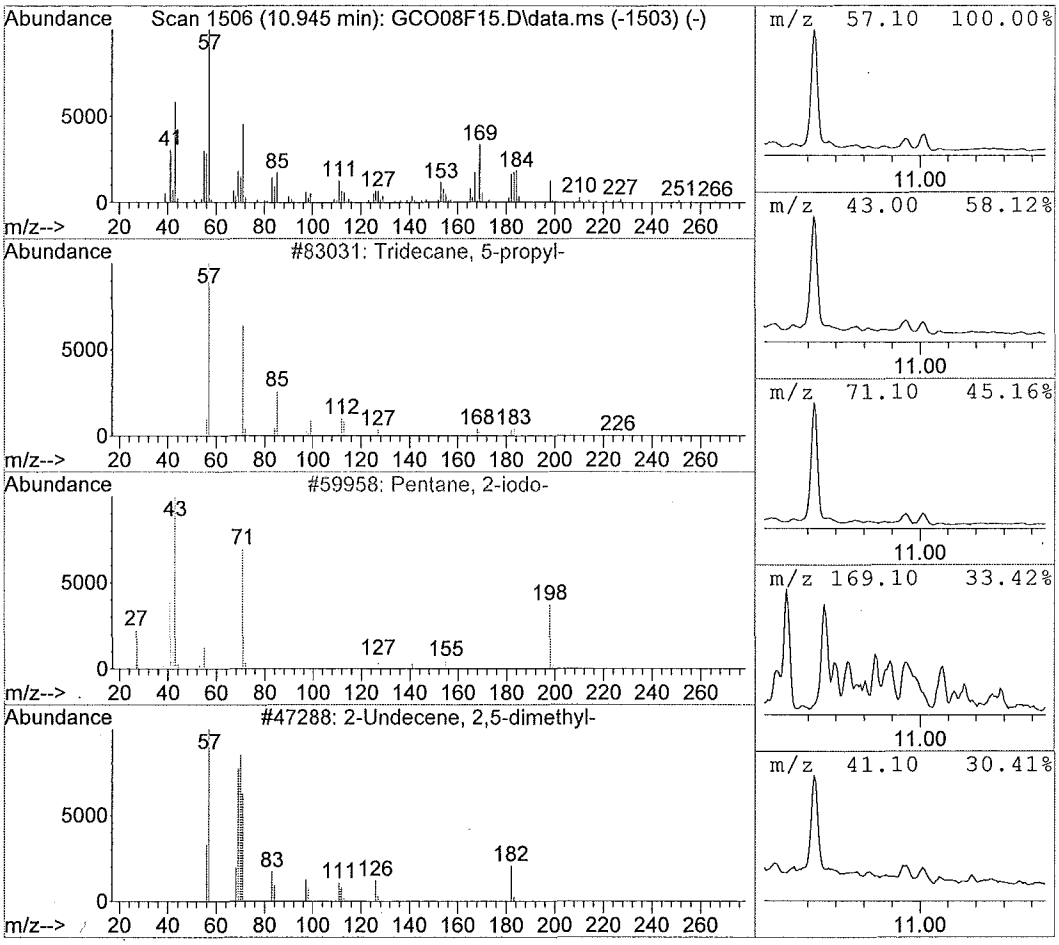
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.95	5.06 ug/ml	820427	Phenanthrene-d10	3240894

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 5-propyl-	83031	055045-11-9	46.00
2	Pentane, 2-iodo-	59958	000637-97-8	38.00
3	2-Undecene, 2,5-dimethyl-	47288	049622-16-4	38.00
4	3-Octen-2-one, 3-butyl-	47183	032064-71-4	35.00
5	Pentane, 1-iodo-	59959	000628-17-1	25.00

BA



00557

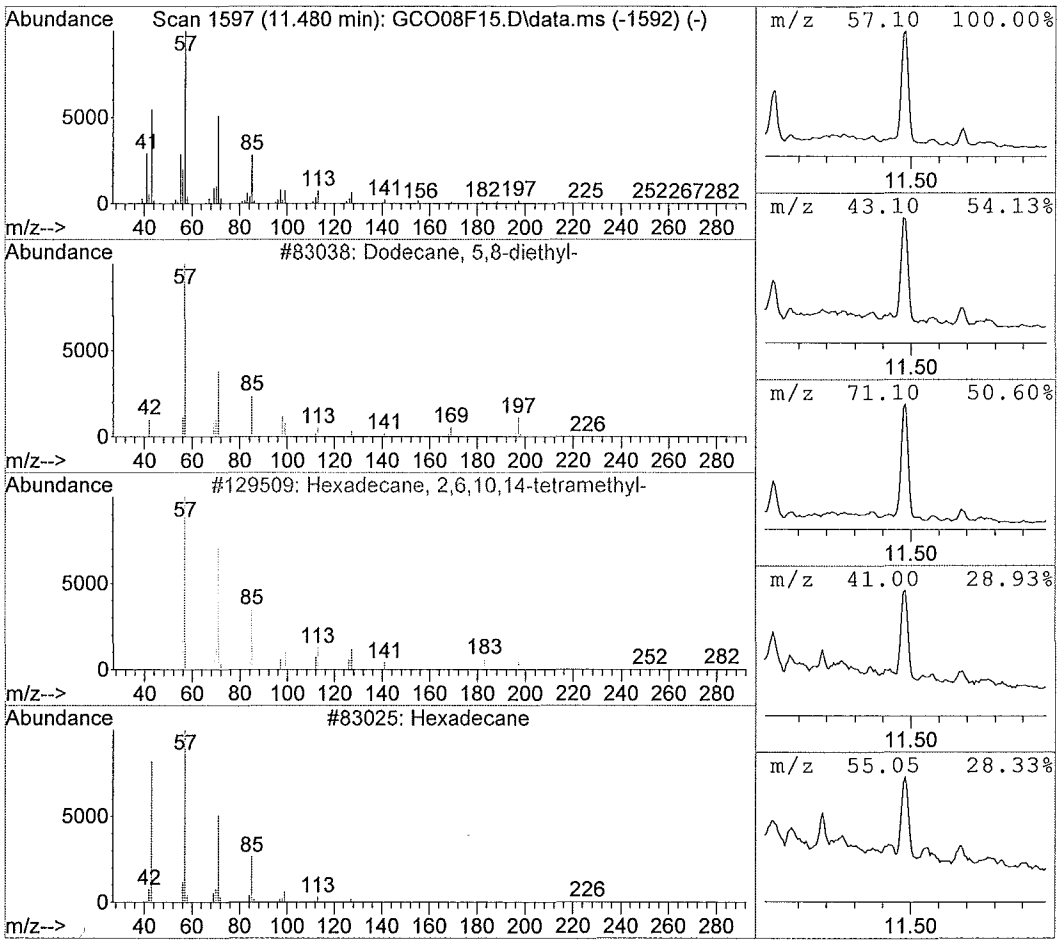
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.48	12.95 ug/ml	2099285	Phenanthrene-d10	3240894

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 5,8-diethyl-	83038	024251-86-3	87.00
2	Hexadecane, 2,6,10,14-tetramethyl- BA	129509	000638-36-8	83.00
3	Hexadecane	83025	000544-76-3	81.00
4	1-Iodo-2-methylundecane	140553	073105-67-6	72.00
5	Nonane, 3,7-dimethyl-	28441	017302-32-8	72.00



: 00558

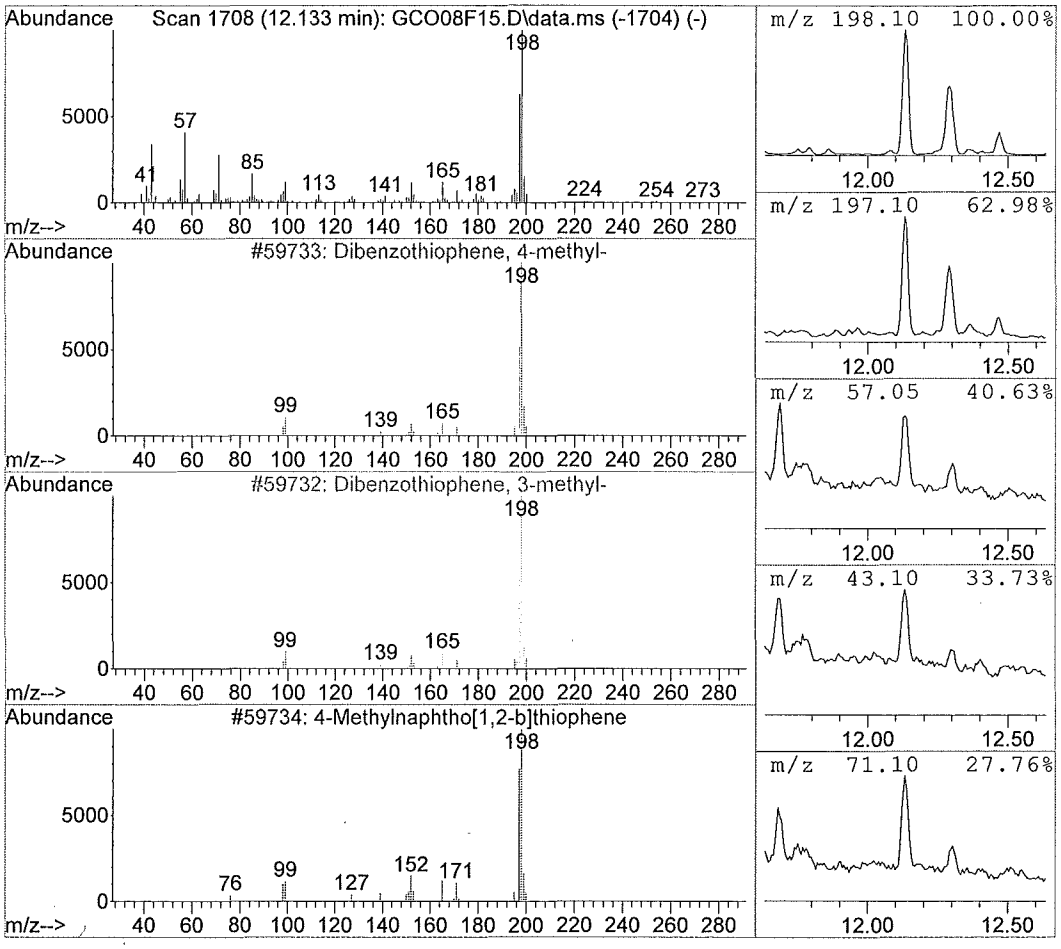
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.13	6.05 ug/ml	980804	Phenanthrene-d10	3240894

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	59733	007372-88-5	96.00
2	Dibenzothiophene, 3-methyl-	59732	016587-52-3	96.00
3	4-Methylnaphtho[1,2-b]thiophene	59734	067388-11-8	90.00
4	1-Methyldibenzothiophene	59730	031317-07-4	81.00
5	Benzenamine, 4,4'-methylenebis-	59745	000101-77-9	59.00



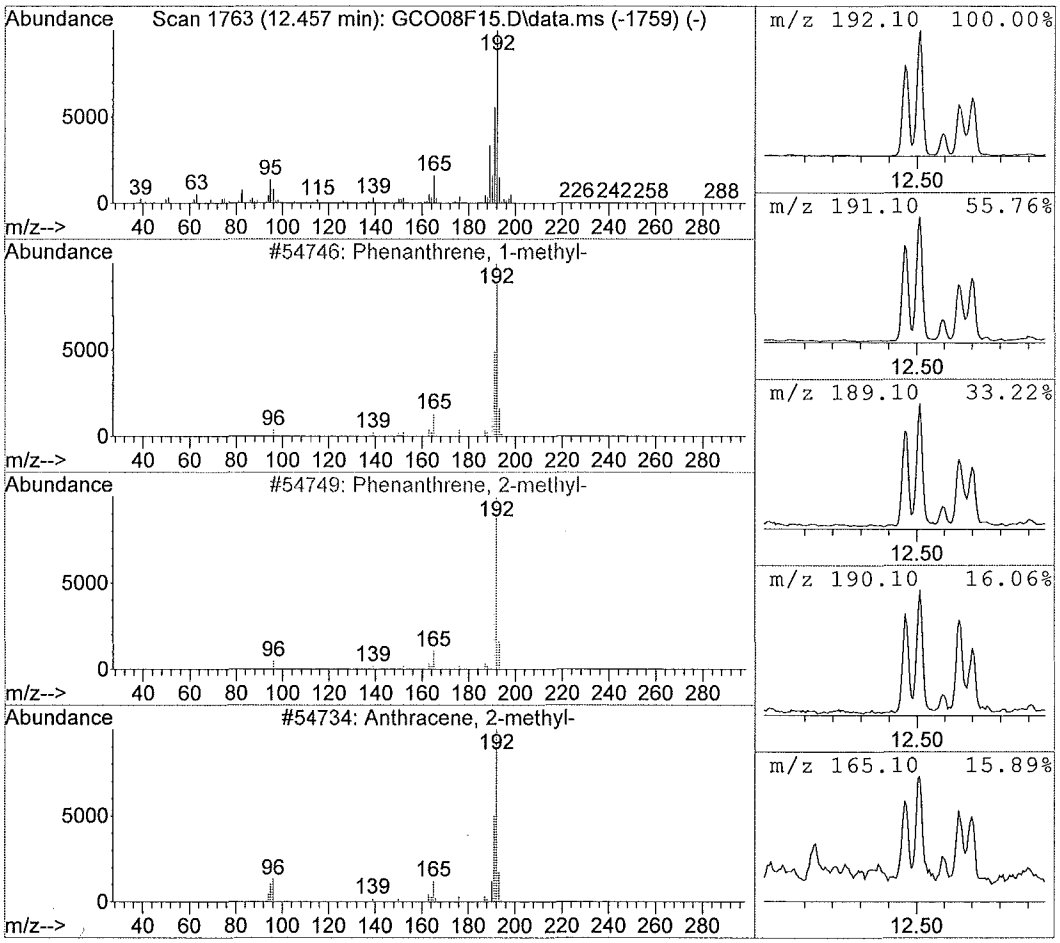
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.46	7.78 ug/ml	1261205	Phenanthrene-d10	3240894

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 1-methyl-	54746	000832-69-9	94.00
2	Phenanthrene, 2-methyl-	54749	002531-84-2	94.00
3	Anthracene, 2-methyl-	54734	000613-12-7	93.00
4	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	90.00
5	Anthracene, 1-methyl-	54732	000610-48-0	90.00



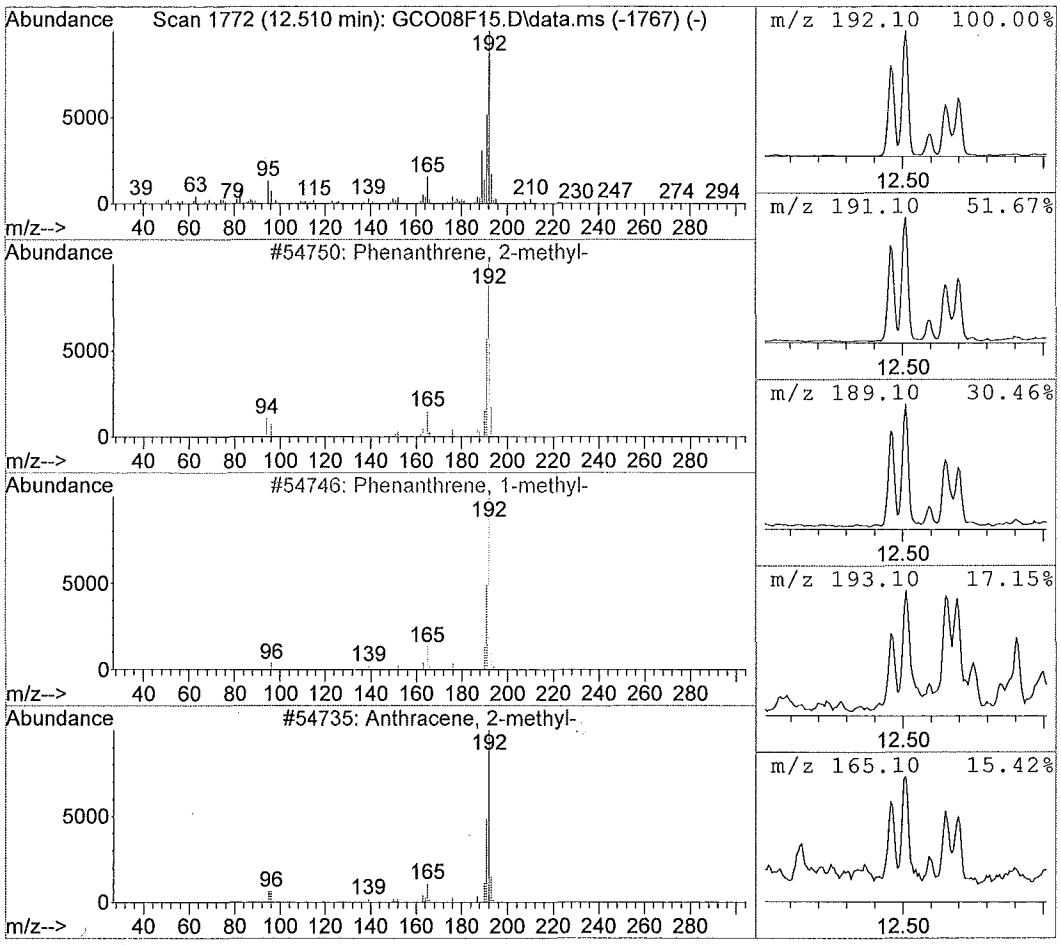
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.51	12.61 ug/ml	2043310	Phenanthrene-d10	3240894

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2-methyl-	54750	002531-84-2	97.00
2	Phenanthrene, 1-methyl-	54746	000832-69-9	97.00
3	Anthracene, 2-methyl-	54735	000613-12-7	97.00
4	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	96.00
5	Phenanthrene, 3-methyl-	54754	000832-71-3	95.00



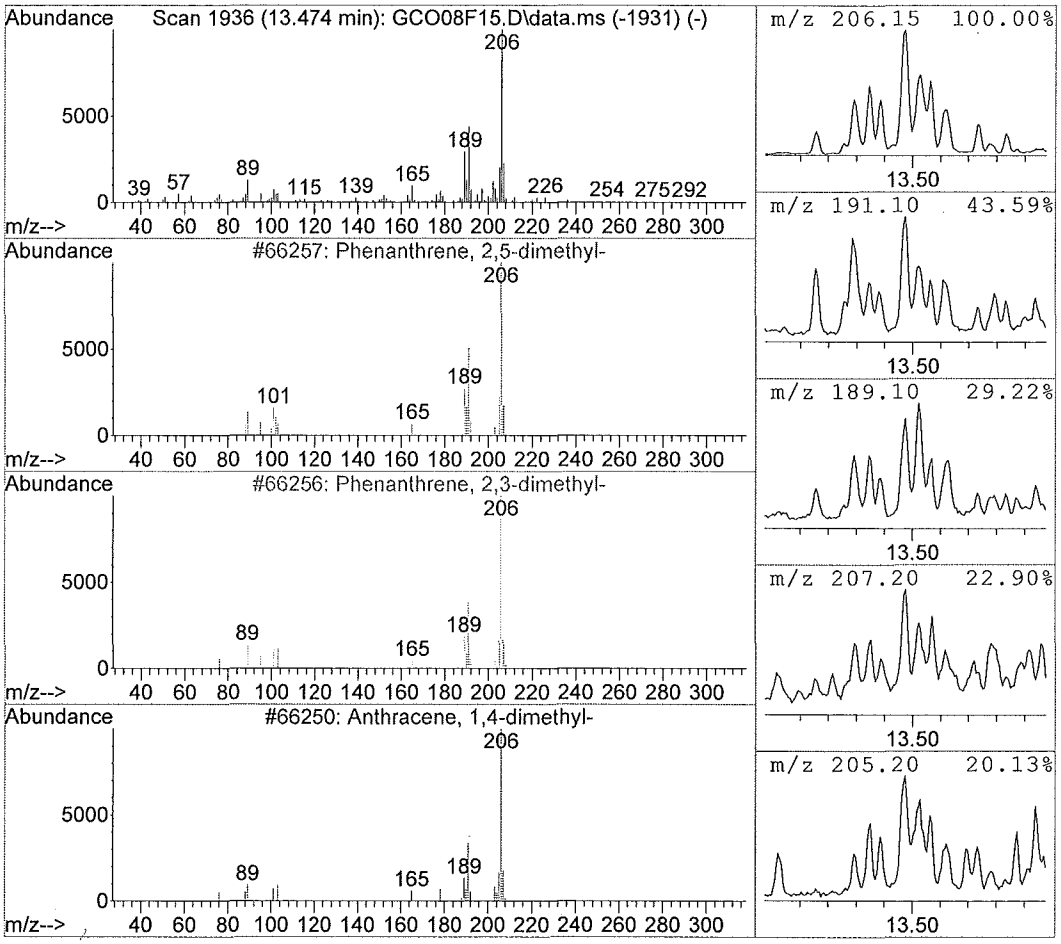
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.47	6.82 ug/ml	1104830	Phenanthrene-d10	3240894

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	66257	003674-66-6	94.00
2	Phenanthrene, 2,3-dimethyl-	66256	003674-65-5	94.00
3	Anthracene, 1,4-dimethyl-	66250	000781-92-0	93.00
4	Phenanthrene, 3,6-dimethyl-	66267	001576-67-6	91.00
5	9,10-Dimethylanthracene	66249	000781-43-1	90.00



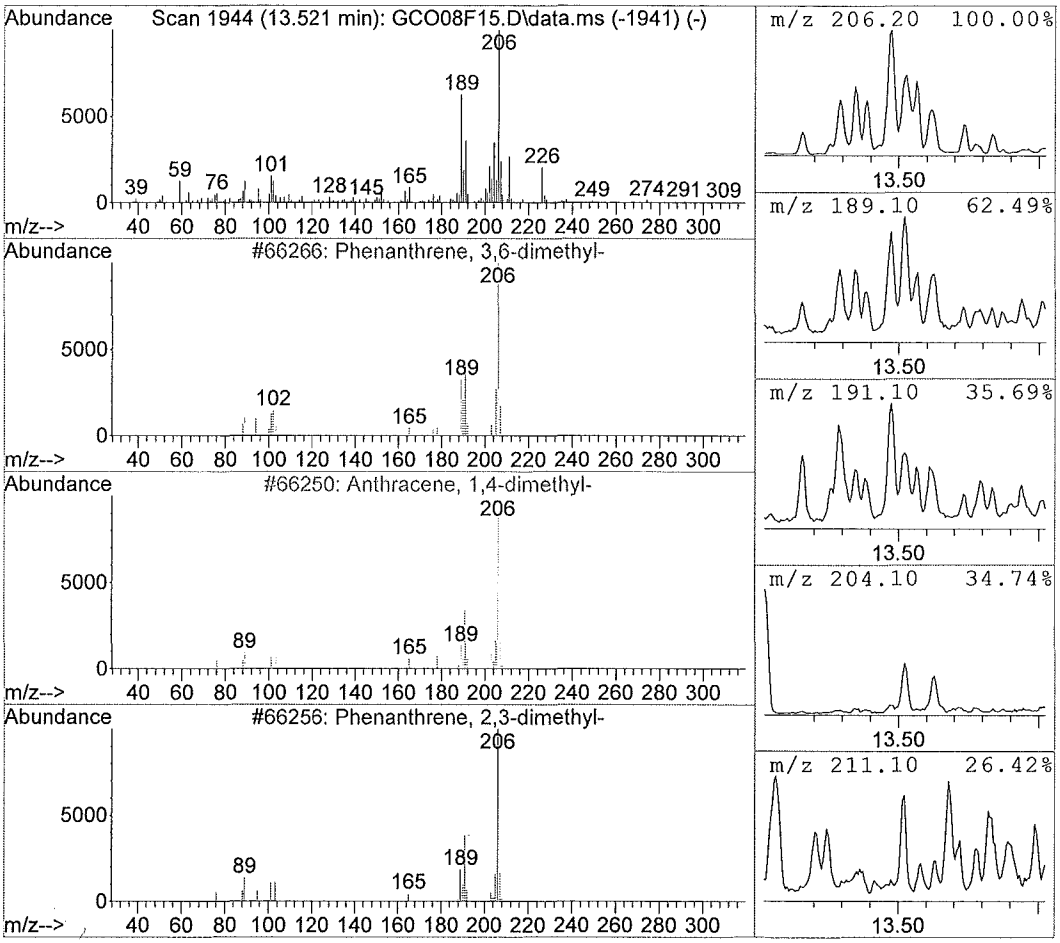
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.52	5.73 ug/ml	928029	Phenanthrene-d10	3240894

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	66266	001576-67-6	64.00
2	Anthracene, 1,4-dimethyl-	66250	000781-92-0	50.00
3	Phenanthrene, 2,3-dimethyl-	66256	003674-65-5	50.00
4	9,10-Dimethylanthracene	66248	000781-43-1	45.00
5	Phenanthrene, 1,7-dimethyl-	66261	000483-87-4	43.00



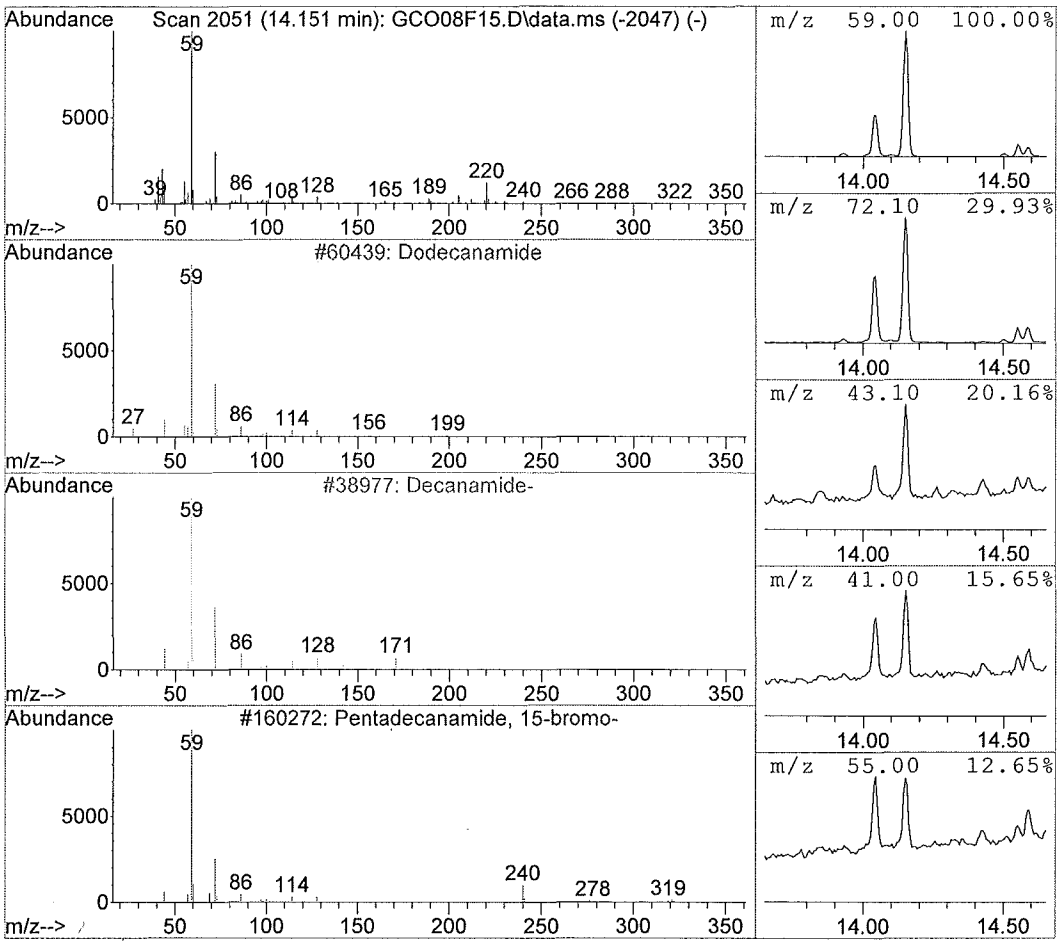
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	8.90 ug/ml	1641392	Chrysene-d12	3687328

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	72.00
2	Decanamide-	38977	002319-29-1	64.00
3	Pentadecanamide, 15-bromo-	160272	1000163-86-1	64.00
4	Nonanamide	29478	001120-07-6	64.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	53.00



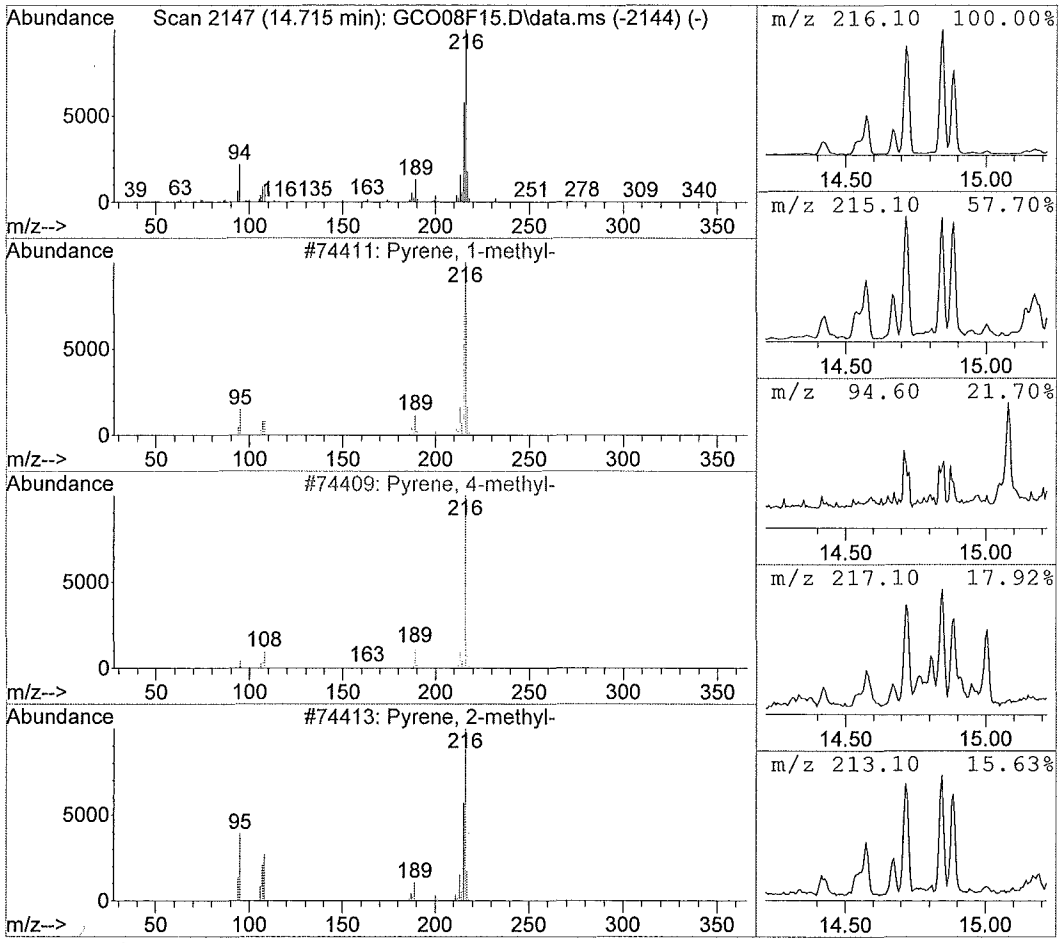
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.72	5.63 ug/ml	1038732	Chrysene-d12	3687328

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrene, 1-methyl-	74411	002381-21-7	98.00
2	Pyrene, 4-methyl-	74409	003353-12-6	96.00
3	Pyrene, 2-methyl-	74413	003442-78-2	91.00
4	Fluoranthene, 2-methyl-	74425	033543-31-6	90.00
5	11H-Benzo[b]fluorene	74418	000243-17-4	87.00



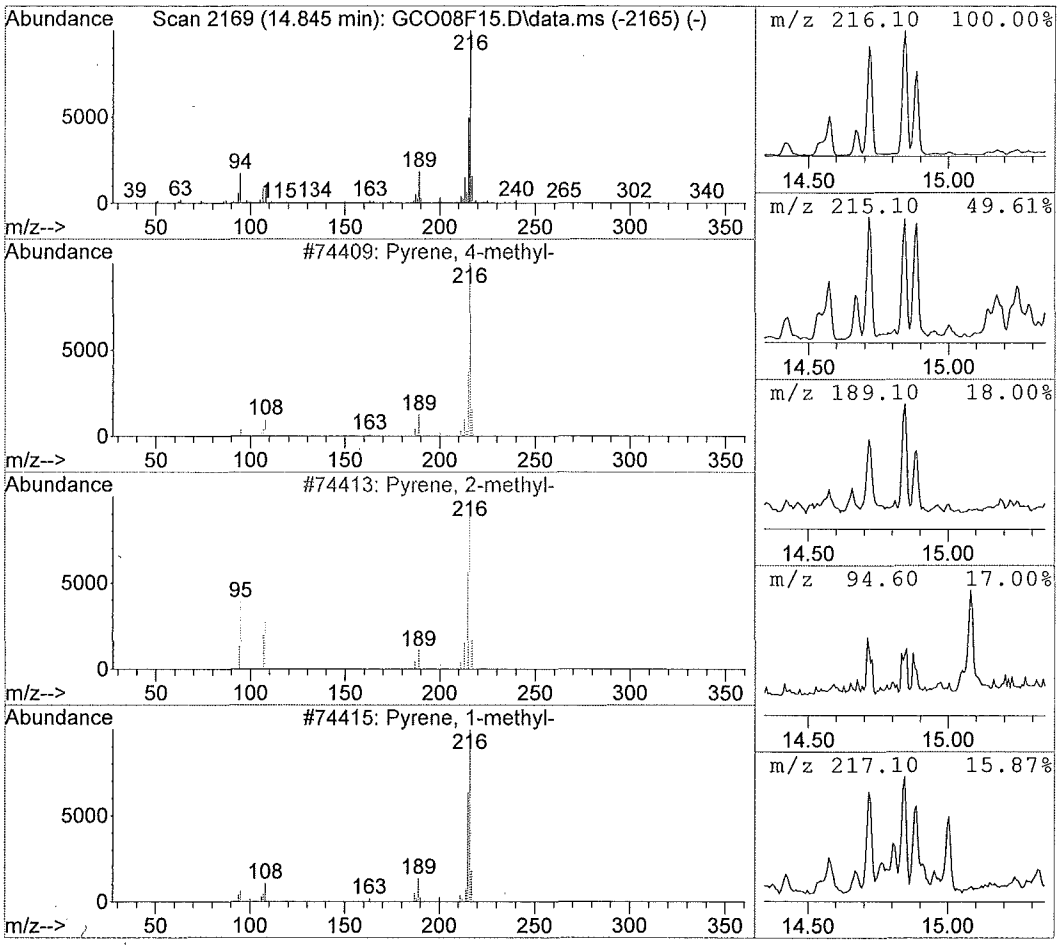
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.84	6.05 ug/ml	1115731	Chrysene-d12	3687328

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrene, 4-methyl-	74409	003353-12-6	93.00
2	Pyrene, 2-methyl-	74413	003442-78-2	93.00
3	Pyrene, 1-methyl-	74415	002381-21-7	91.00
4	11H-Benzo[a]fluorene	74419	000238-84-6	90.00
5	Fluoranthene, 2-methyl-	74425	033543-31-6	81.00



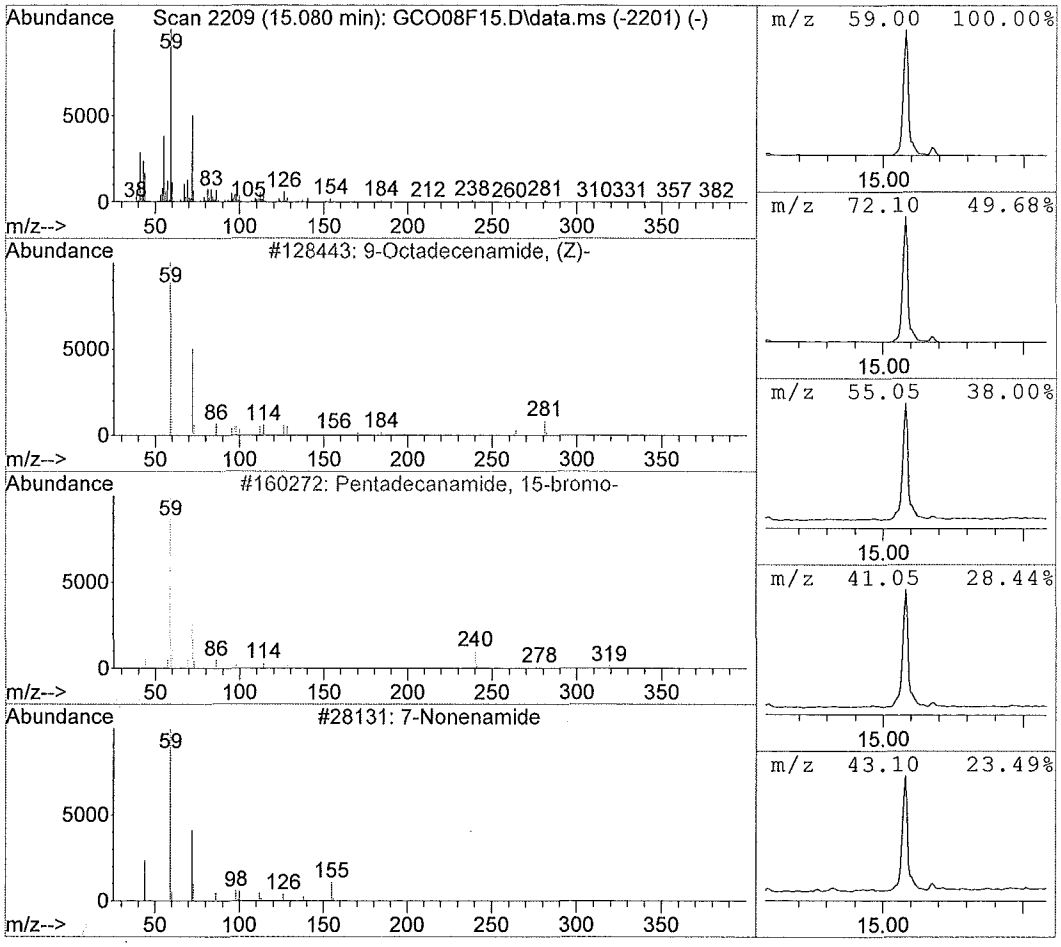
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO08F15.D Vial: 8
Acq On : 07/08/2015 12:03 Operator: TJM
Sample : 1515375015 F9M10 (20) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.08	68.29 ug/ml	12590054	Chrysene-d12	3687328

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	83.00
3	7-Nonenamide	28131	090949-53-4	72.00
4	Tetradecanamide	83608	000638-58-4	56.00
5	Hexadecanamide	106564	000629-54-9	56.00



: 00567

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M11

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375016

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GC009F16

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

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
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	760	J
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	2500	
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.

F9M11

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375016

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GC009F16

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

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
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	450	J
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	6600	
120-12-7	Anthracene	490	J
86-74-8	Carbazole	460	J
84-74-2	Di-n-butylphthalate	1900	U
206-44-0	Fluoranthene	900	J
129-00-0	Pyrene	5700	
85-68-7	Butylbenzylphthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	2000	
218-01-9	Chrysene	3900	
117-81-7	Bis(2-ethylhexyl)phthalate	1900	U
117-84-0	Di-n-octylphthalate	1900	U
205-99-2	Benzo(b)fluoranthene	1200	J
207-08-9	Benzo(k)fluoranthene	230	J
50-32-8	Benzo(a)pyrene	1300	J
193-39-5	Indeno(1,2,3-cd)pyrene	390	J
53-70-3	Dibenzo(a,h)anthracene	1900	U
191-24-2	Benzo(g,h,i)perylene	560	J
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.

F9M11

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375016

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GC009F16

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

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-	3.49	3900	JB
02		Unknown Decyl isobutyl carbonate	4.95	3100	J
03	821-98-7	4-Undecene, (Z)-	5.13	2700	JN
04	493-02-7	Naphthalene, decahydro-, trans-	5.26	3700	JN
05		Unknown Sulfurous acid, 2-propyl tetradecyl este	5.43	3800	J
06		Unknown Sulfurous acid, cyclohexylmethyl heptade	5.49	5600	J
07		Unknown Dodecyl isobutyl carbonate	5.56	3700	J
08	1000152-47-3	trans-Decalin, 2-methyl-	5.70	4100	JN
09		Unknown 1-Methyldecahydronaphthalene	5.83	4600	J
10	95-93-2	Benzene, 1,2,4,5-tetramethyl-	5.95	3900	JN
11		Unknown Benzene, pentamethyl-	6.37	3600	J
12	6434-76-0	6-Tridecene, (E)-	6.53	3100	JN
13		Unknown 1-Decanol, 2-ethyl-	6.77	2200	J
14	1680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-methyl-	6.95	2700	JN
15		Unknown 6-Tridecene, 7-methyl-	7.00	4100	J
16		Unknown 2-Tetradecene, (E)-	7.51	2800	J
17	41446-78-0	4-Tetradecene, (E)-	7.95	4100	JN
18		Unknown Sulfurous acid, butyl nonyl ester	8.67	2300	J
19	829-26-5	Naphthalene, 2,3,6-trimethyl-	9.09	2800	JN
20	829-26-5	Naphthalene, 2,3,6-trimethyl-	9.25	2900	JN
21	1000130-75-8	Z-2-Tridecen-1-ol	10.13	11000	JN
22	7372-88-5	Dibenzothiophene, 4-methyl-	12.13	2700	JN
23	2531-84-2	Phenanthrene, 2-methyl-	12.46	3600	JN
24	2531-84-2	Phenanthrene, 2-methyl-	12.51	5900	JN
25	3674-66-6	Phenanthrene, 2,5-dimethyl-	13.47	2500	JN
26	5875-26-3	Undecanamide, 11-bromo-	14.16	5600	JN
27	2381-21-7	Pyrene, 1-methyl-	14.72	2600	JN
28	301-02-0	9-Octadecenamide, (Z)-	15.09	28000	JNB
29		Unknown Hexadecanamide	15.18	2100	JB
30	243-46-9	Benzo[b]naphtho[2,3-d]thiophene	15.40	2100	JN
	E966796[2]	Total Alkanes	N/A	130000	J

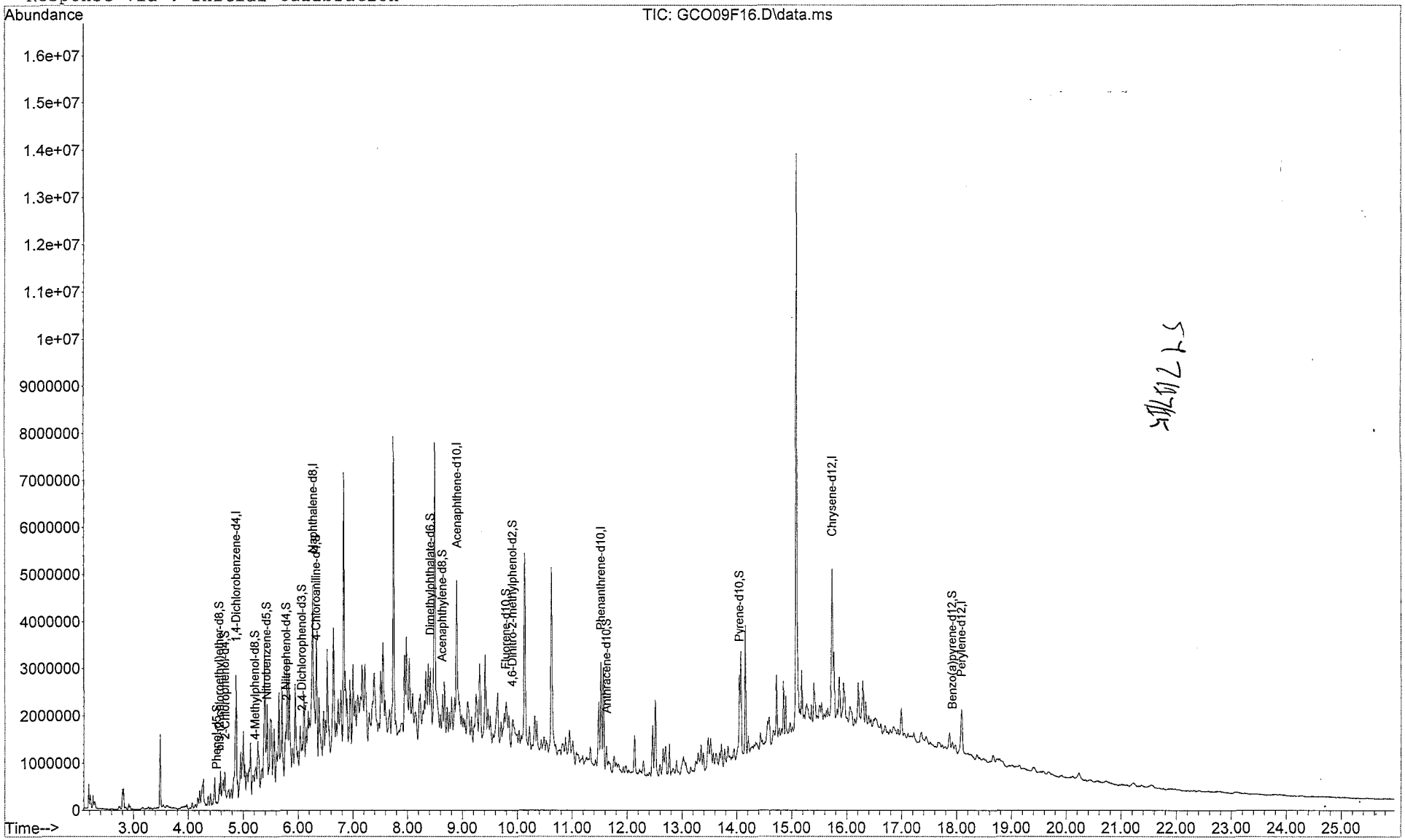
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 08:14:14 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 08:14:14 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	356949	20.00 ug/ml
16) Naphthalene-d8	6.27	136	1286057	20.00 ug/ml
33) Acenaphthene-d10	8.90	164	786170	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1359119	20.00 ug/ml
73) Chrysene-d12	15.73	240	1281259	20.00 ug/ml
81) Perylene-d12	18.09	264	682166	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	24917	0.802ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	96778	3.998ug/mL
7) 2-Chlorophenol-d4	4.66	132	82722	3.154ug/ml
13) 4-Methylphenol-d8	5.20	113	54012	2.600ug/mL
17) Nitrobenzene-d5	5.42	128	44870	3.972ug/ml
21) 2-Nitrophenol-d4	5.77	143	38392	3.215ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	62471	3.360ug/mL
28) 4-Chloroaniline-d4	6.32	131	143550	7.072ug/mL
42) Dimethylphthalate-d6	8.41	166	185947	3.772ug/mL
45) Acenaphthylene-d8	8.63	160	240331	3.587ug/mL
50) 4-Nitrophenol-d4	9.16	143	2706	0.269ug/mL
57) Fluorene-d10	9.79	176	169753	4.032ug/mL
61) 4,6-Dinitro-2-methylphenol	9.91	200	8443	0.875ug/mL
69) Anthracene-d10	11.62	188	269833	3.744ug/mL
75) Pyrene-d10	14.04	212	251493	3.933ug/mL
86) Benzo(a)pyrene-d12	17.92	264	120480	3.686ug/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	6.29	128	131260	2.019ug/ml m	87
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	7.25	142	277384	6.742ug/ml	97
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	

SY 7/17/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 88572

Quantitation Report

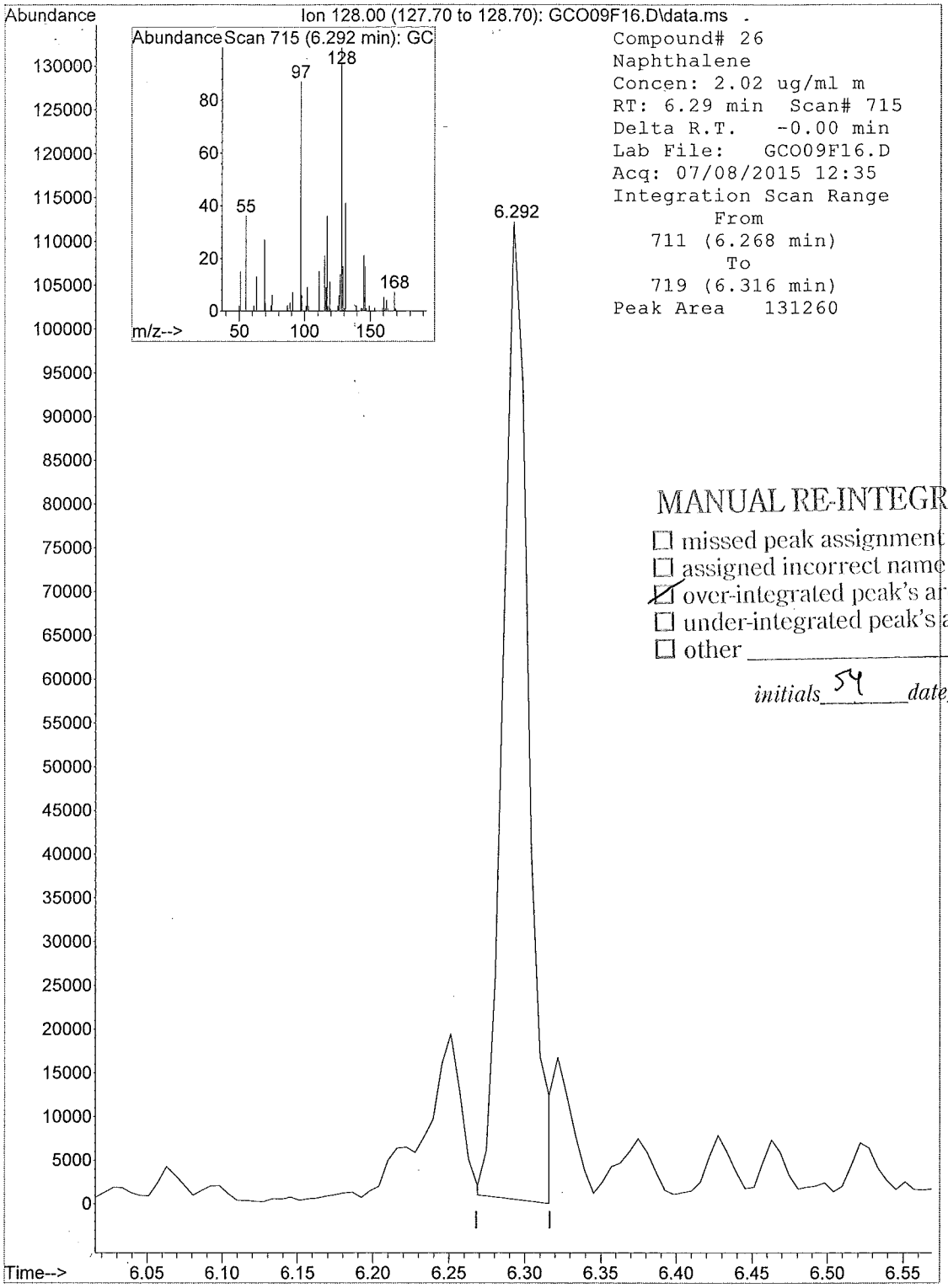
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GC009F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 08:14:14 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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	9.84	166	56206	1.188ug/ml	94
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	11.57	178	1279106	17.645ug/ml	99
68)	Anthracene	11.66	178	96687	1.307ug/ml	71
70)	Carbazole	11.97	167	62412	1.232ug/mL	88
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	13.72	202	192227	2.406ug/ml	98
74)	Pyrene	14.07	202	1247163	15.292ug/ml	96
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.72	228	416390	5.357ug/ml	74
79)	Chrysene	15.77	228	729411	10.392ug/ml	86
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.35	252	141323	3.308ug/ml m	92
84)	Benzo(k)fluoranthene	17.38	252	25105	0.622ug/ml m SY	92
85)	Benzo(a)pyrene	17.97	252	140712	3.500ug/ml 7/15/15	95
87)	Indeno(1,2,3-c,d)pyrene	20.73	276	36869	1.037ug/ml m	62
88)	Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89)	Benzo(g,h,i)perylene	21.54	276	52439	1.498ug/ml	95

(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 Naphthalene

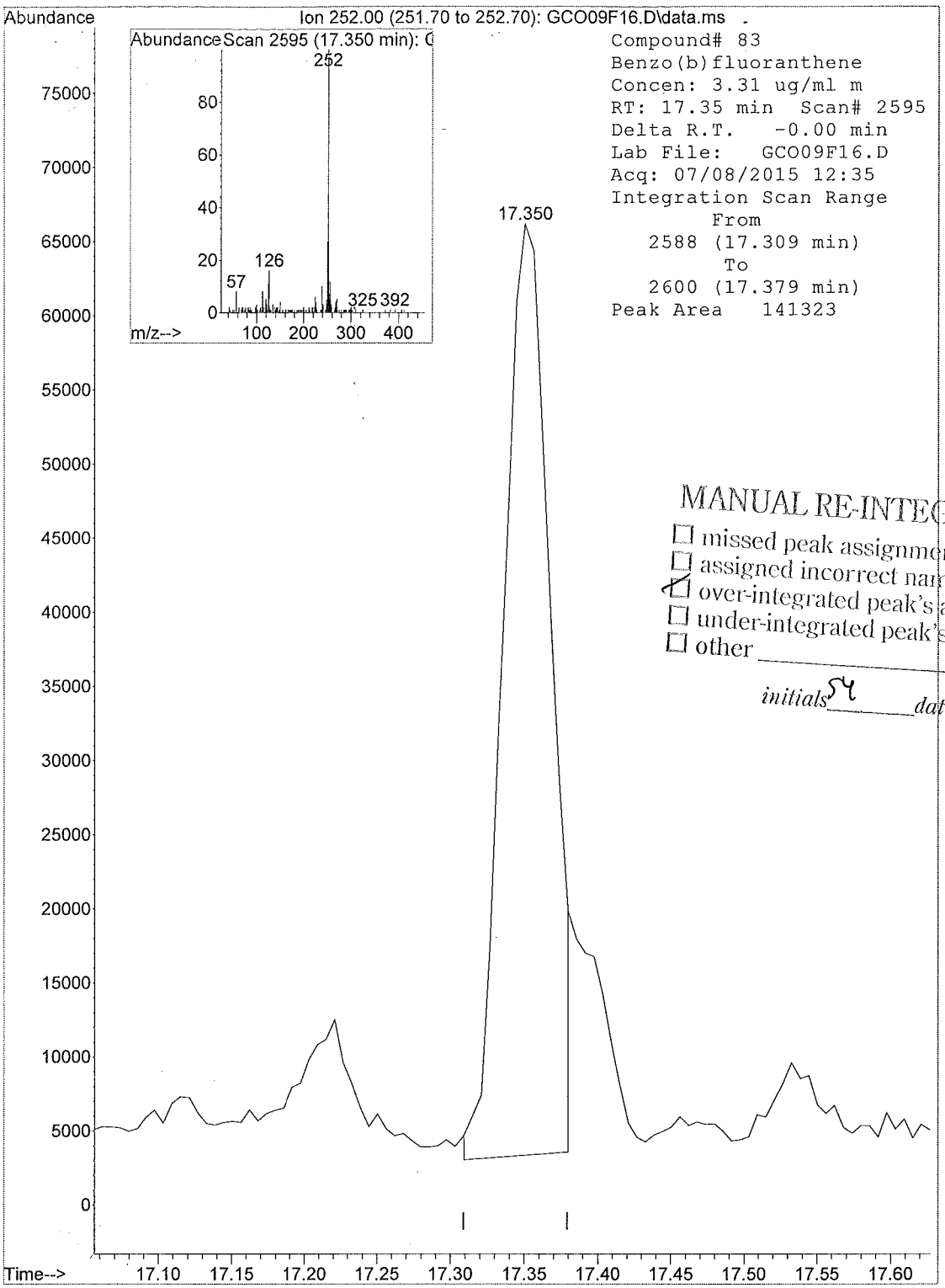


MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/17/15

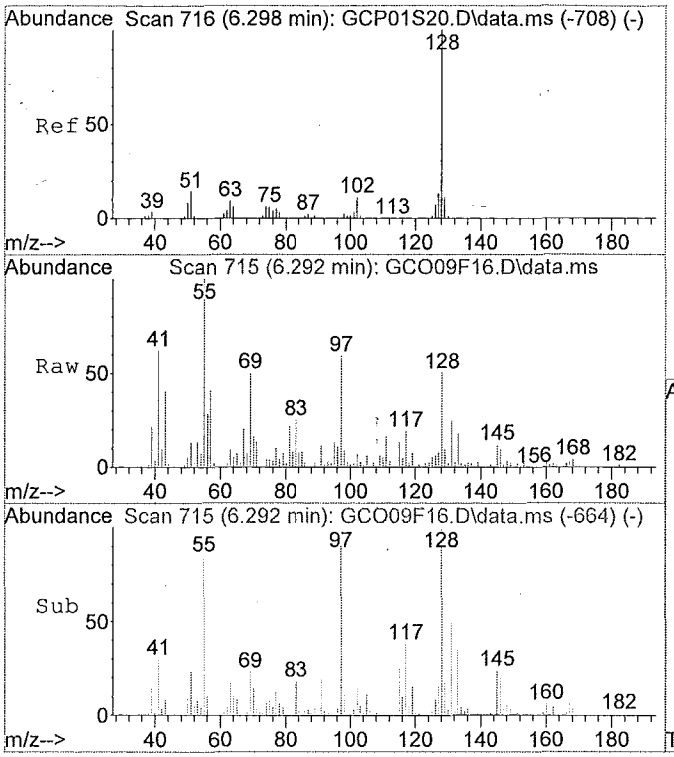
M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene



MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

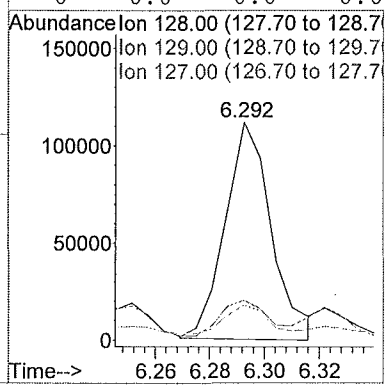
initials SY *date* 7/17/15

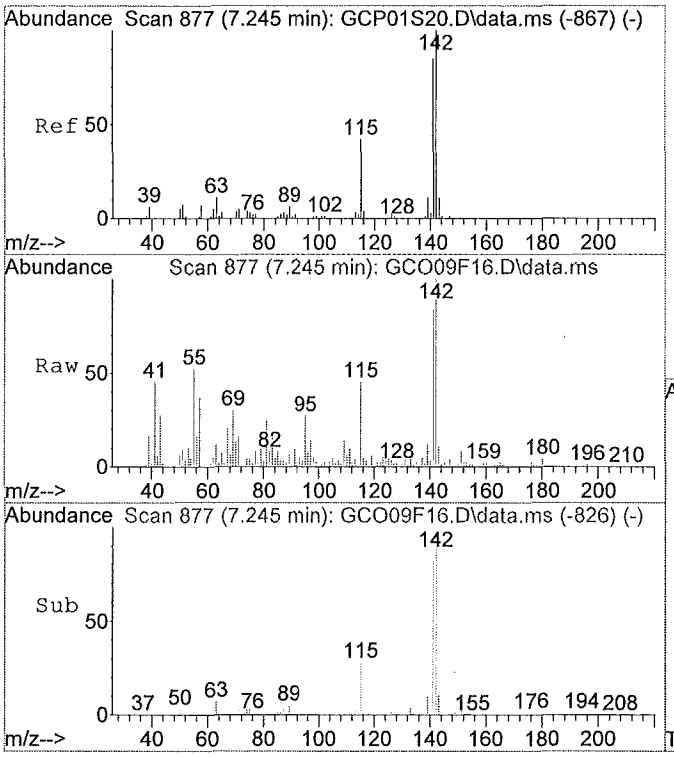


#26
Naphthalene
Concen: 2.02 ug/ml m
RT: 6.29 min Scan# 715
Delta R.T. -0.00 min
Lab File: GCO09F16.D
Acq: 07/08/2015 12:35

Tgt Ion:128 Resp: 131260

Ion	Ratio	Lower	Upper
128	100		
129	20.9	7.8	14.4#
127	12.0	9.3	17.3
0	0.0	0.0	0.0

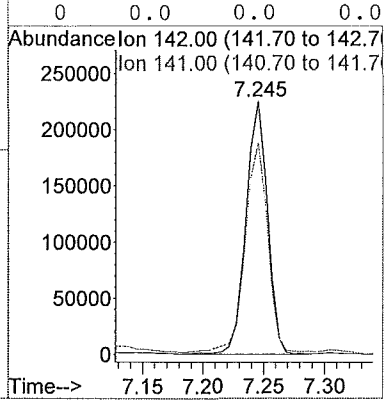




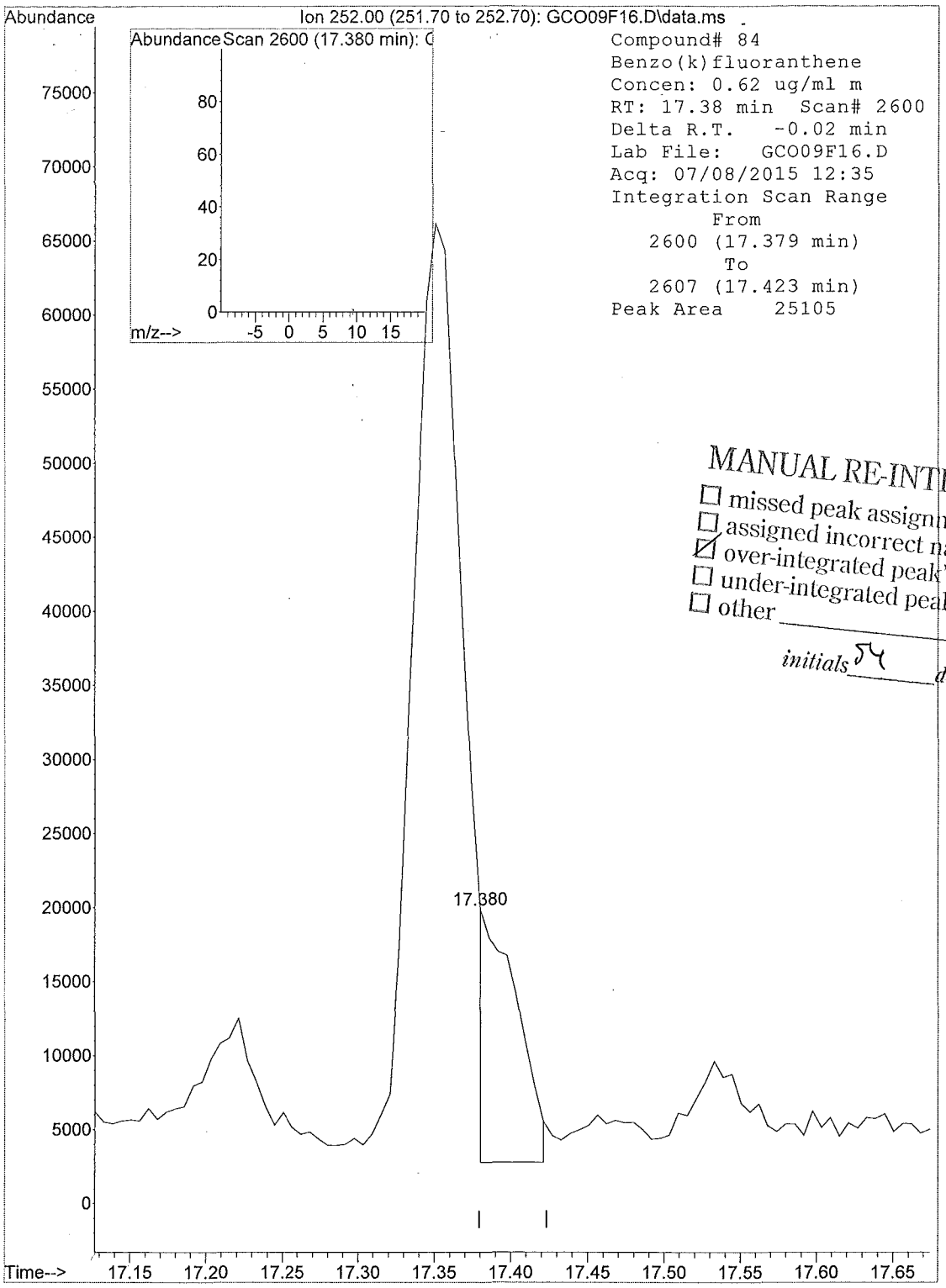
#32
2-Methylnaphthalene
Concen: 6.74 ug/ml
RT: 7.25 min Scan# 877
Delta R.T. -0.00 min
Lab File: GCO09F16.D
Acq: 07/08/2015 12:35

Tgt Ion:142 Resp: 277384

Ion	Ratio	Lower	Upper
142	100		
141	85.0	57.7	107.3
0	0.0	0.0	0.0
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 Benzo(k)fluoranthene

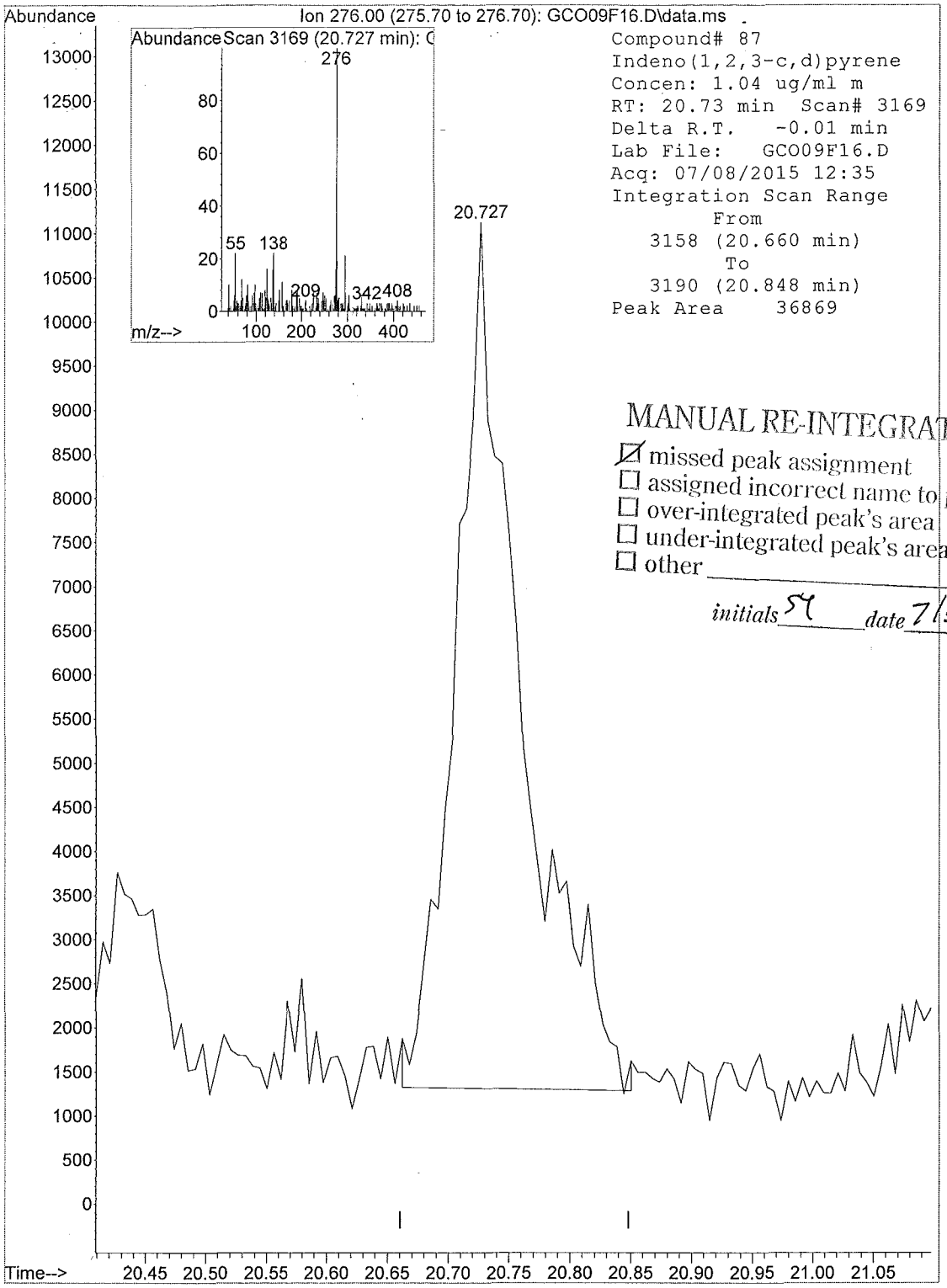


MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/17/15

M A N U A L I N T E G R A T I O N FOR Indeno(1,2,3-c,d)pyrene



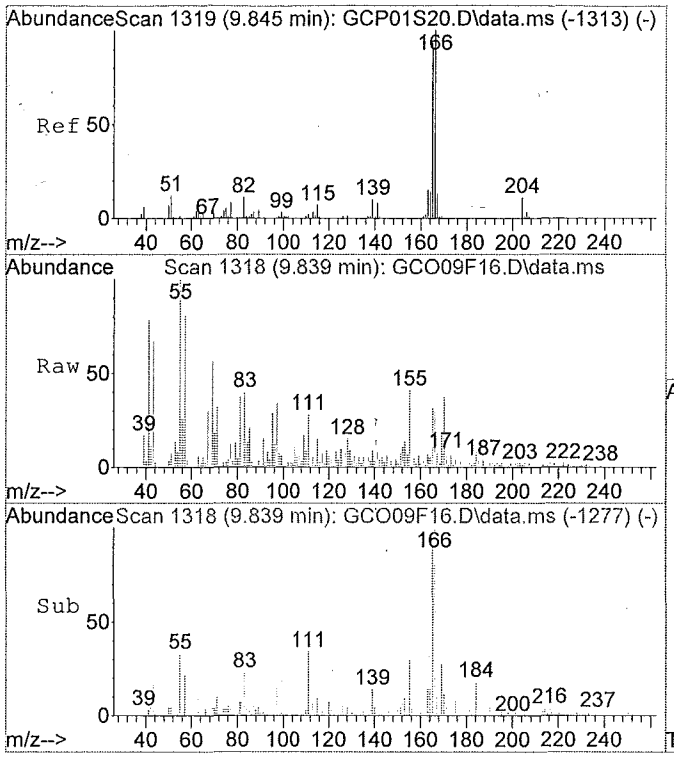
Compound# 87
Indeno(1,2,3-c,d)pyrene
Concen: 1.04 ug/ml m
RT: 20.73 min Scan# 3169
Delta R.T. -0.01 min
Lab File: GCO09F16.D
Acq: 07/08/2015 12:35
Integration Scan Range
From
3158 (20.660 min)
To
3190 (20.848 min)
Peak Area 36869

MANUAL RE-INTEGRATION

☒ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/17/15

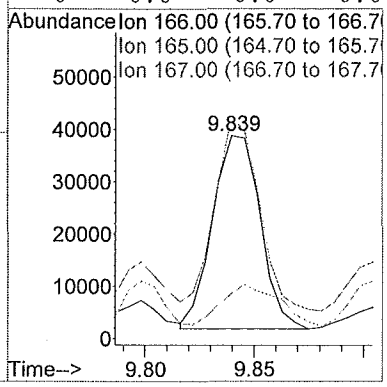
GSOM01D6.M 5975-G GSOM01D6.M 1515375016 F9M11 (10) . SOIL SOM

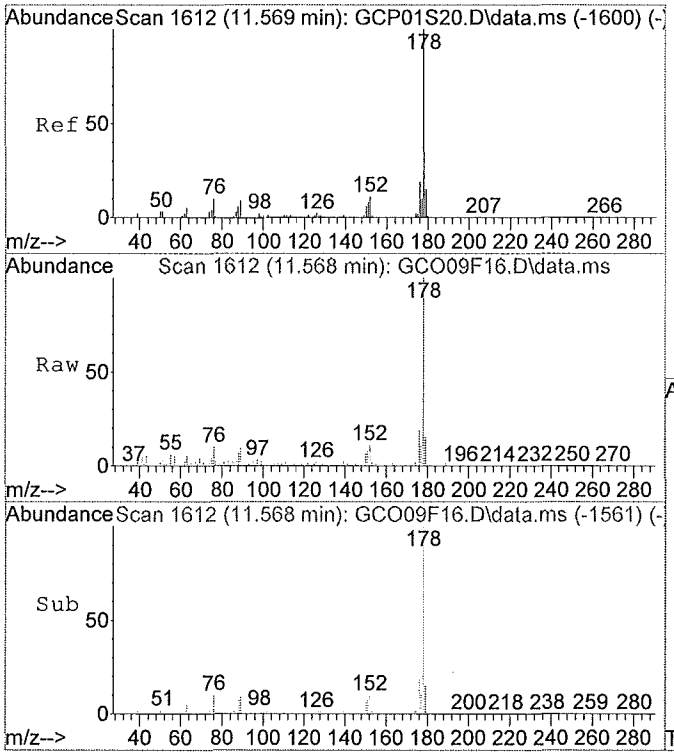


#56
Fluorene
Concen: 1.19 ug/ml
RT: 9.84 min Scan# 1318
Delta R.T. -0.01 min
Lab File: GCO09F16.D
Acq: 07/08/2015 12:35

Tgt Ion:166 Resp: 56206

Ion	Ratio	Lower	Upper
166	100		
165	93.1	63.8	118.4
167	26.1	9.3	17.3#
0	0.0	0.0	0.0

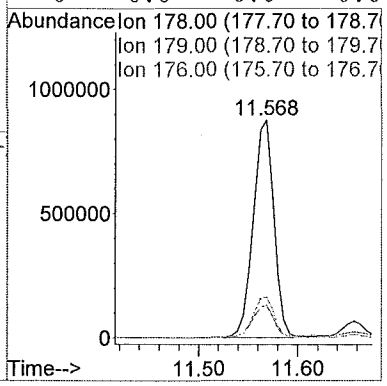


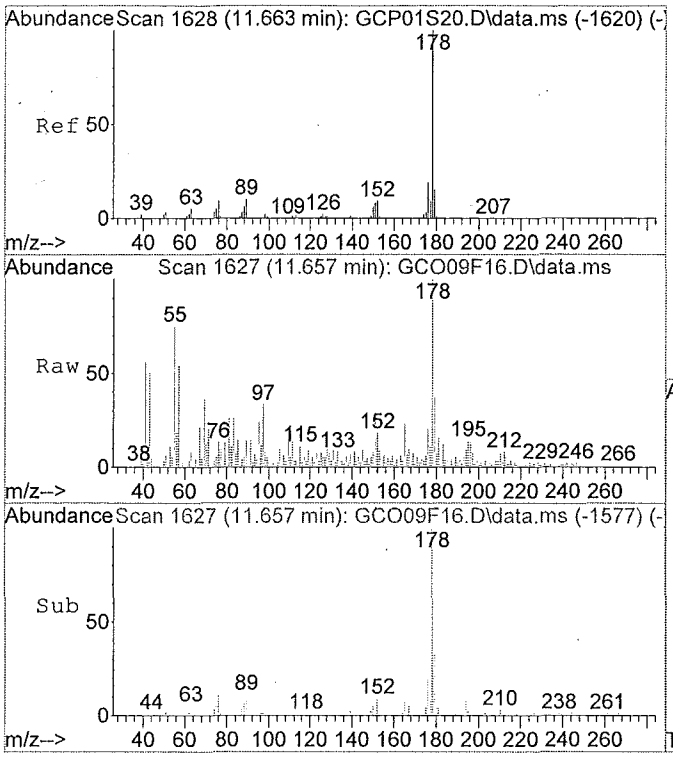


#67
Phenanthrene
Concen: 17.65 ug/ml
RT: 11.57 min Scan# 1612
Delta R.T. -0.00 min
Lab File: GCO09F16.D
Acq: 07/08/2015 12:35

Tgt Ion:178 Resp: 1279106

Ion	Ratio	Lower	Upper
178	100		
179	15.6	10.6	19.8
176	19.5	13.2	24.4
0	0.0	0.0	0.0

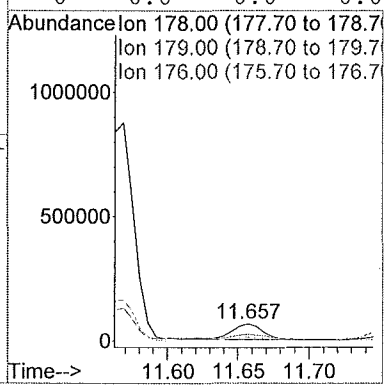


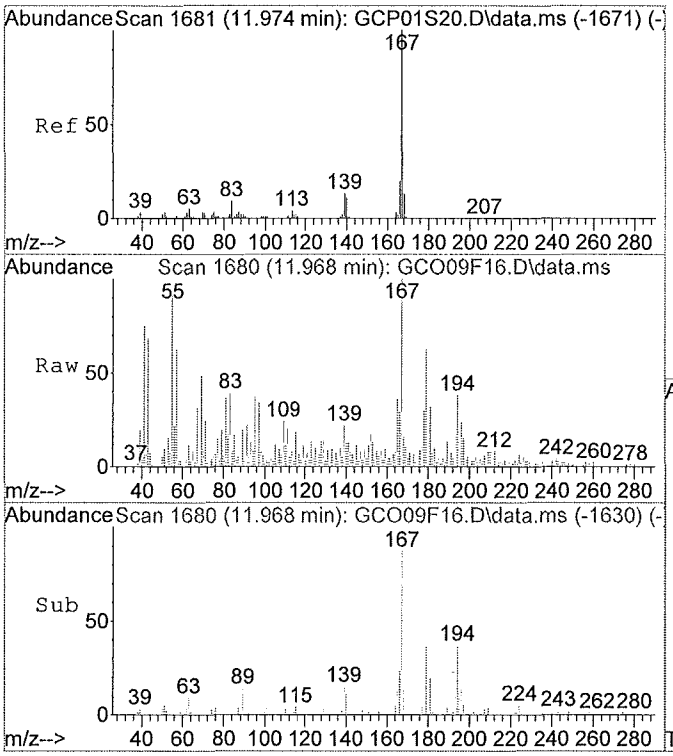


#68
Anthracene
Concen: 1.31 ug/ml
RT: 11.66 min Scan# 1627
Delta R.T. -0.01 min
Lab File: GCO09F16.D
Acq: 07/08/2015 12:35

Tgt Ion:178 Resp: 96687

Ion	Ratio	Lower	Upper
178	100		
179	37.5	10.5	19.5#
176	21.9	12.7	23.5
0	0.0	0.0	0.0

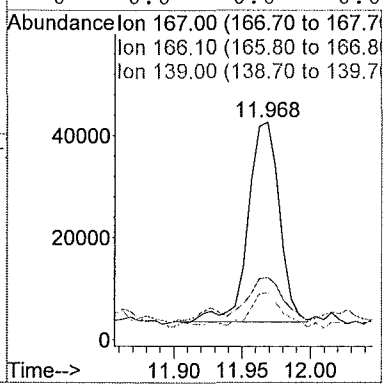


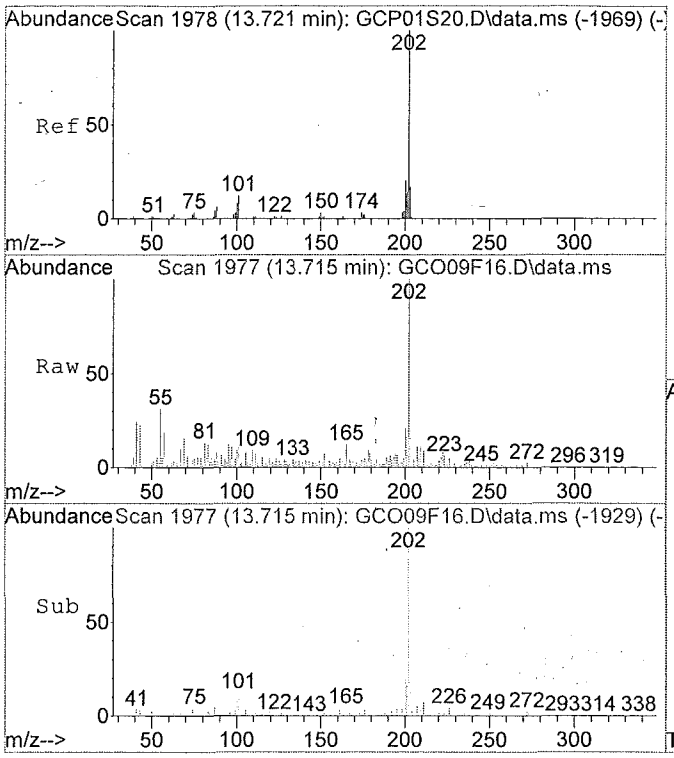


#70
Carbazole
Concen: 1.23 ug/mL
RT: 11.97 min Scan# 1680
Delta R.T. -0.01 min
Lab File: GCO09F16.D
Acq: 07/08/2015 12:35

Tgt Ion:167 Resp: 62412

Ion	Ratio	Lower	Upper
167	100		
166	25.0	15.8	23.8#
139	18.8	11.1	16.7#
0	0.0	0.0	0.0

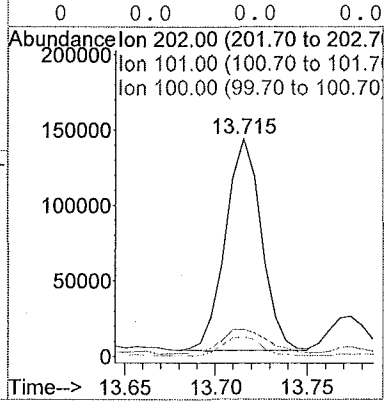


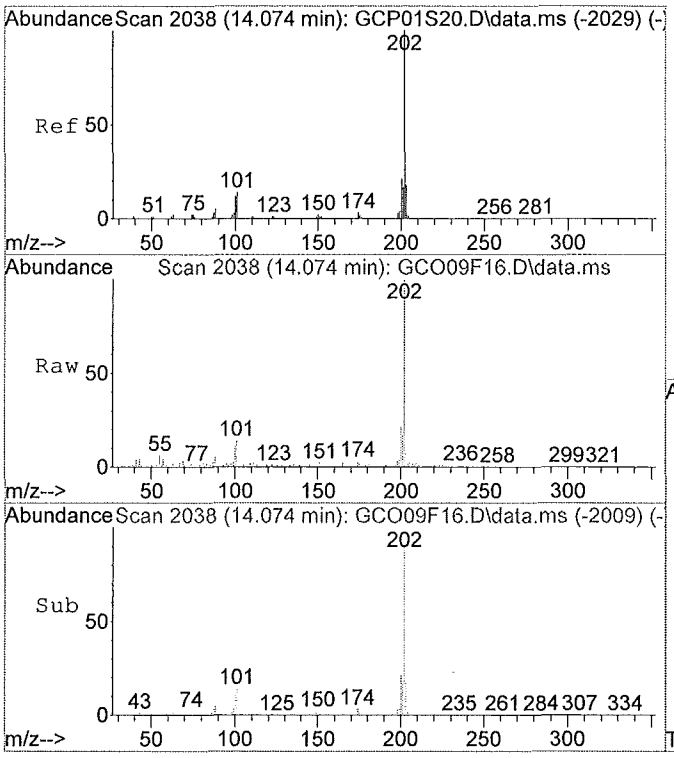


#72
Fluoranthene
Concen: 2.41 ug/ml
RT: 13.72 min Scan# 1977
Delta R.T. -0.01 min
Lab File: GCO09F16.D
Acq: 07/08/2015 12:35

Tgt Ion:202 Resp: 192227

Ion	Ratio	Lower	Upper
202	100		
101	14.7	10.5	19.5
100	9.5	7.4	13.8
0	0.0	0.0	0.0

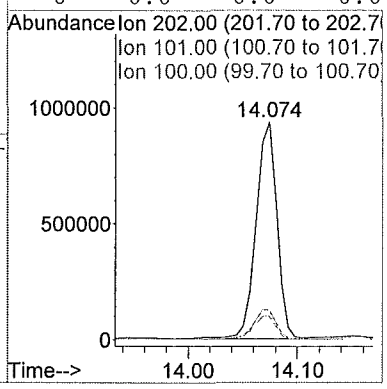


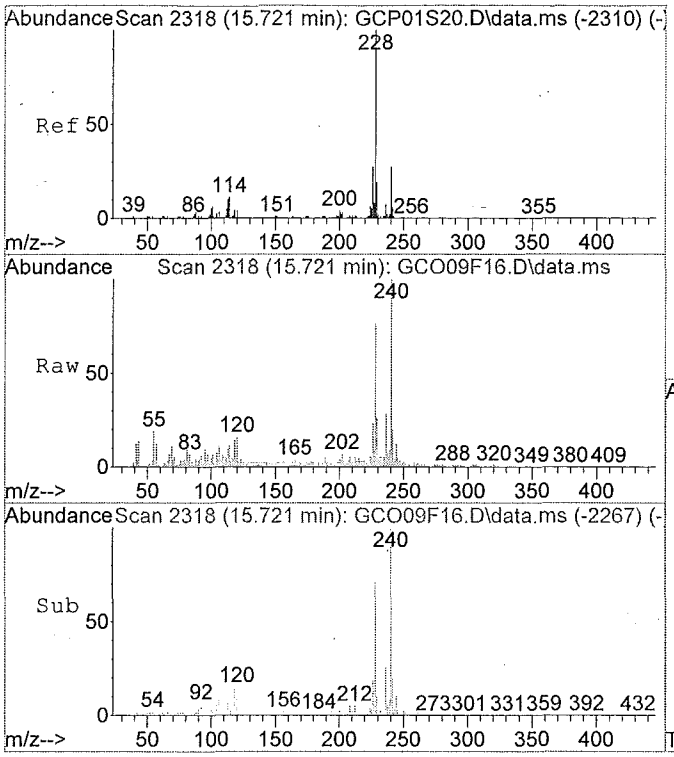


#74
Pyrene
Concen: 15.29 ug/ml
RT: 14.07 min Scan# 2038
Delta R.T. -0.00 min
Lab File: GCO09F16.D
Acq: 07/08/2015 12:35

Tgt Ion:202 Resp: 1247163

Ion	Ratio	Lower	Upper
202	100		
101	15.6	12.2	22.7
100	12.7	10.1	18.7
0	0.0	0.0	0.0

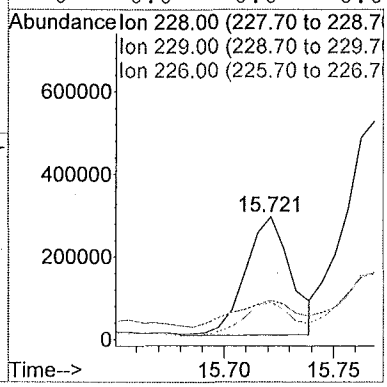


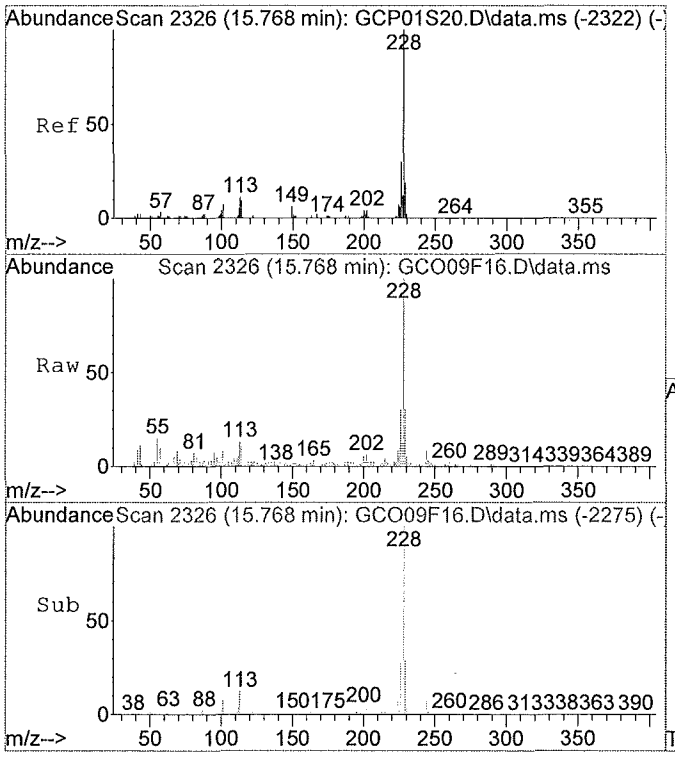


#78
Benzo(a)anthracene
Concen: 5.36 ug/ml
RT: 15.72 min Scan# 2318
Delta R.T. -0.00 min
Lab File: GCO09F16.D
Acq: 07/08/2015 12:35

Tgt Ion:228 Resp: 416390

Ion	Ratio	Lower	Upper
228	100		
229	38.7	13.7	25.5#
226	33.0	18.2	33.8
0	0.0	0.0	0.0

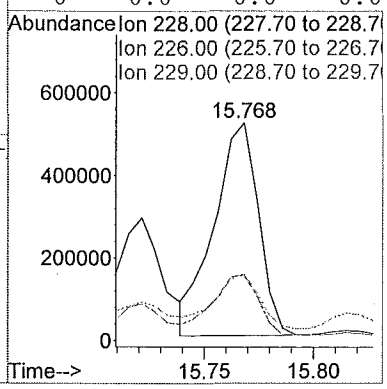


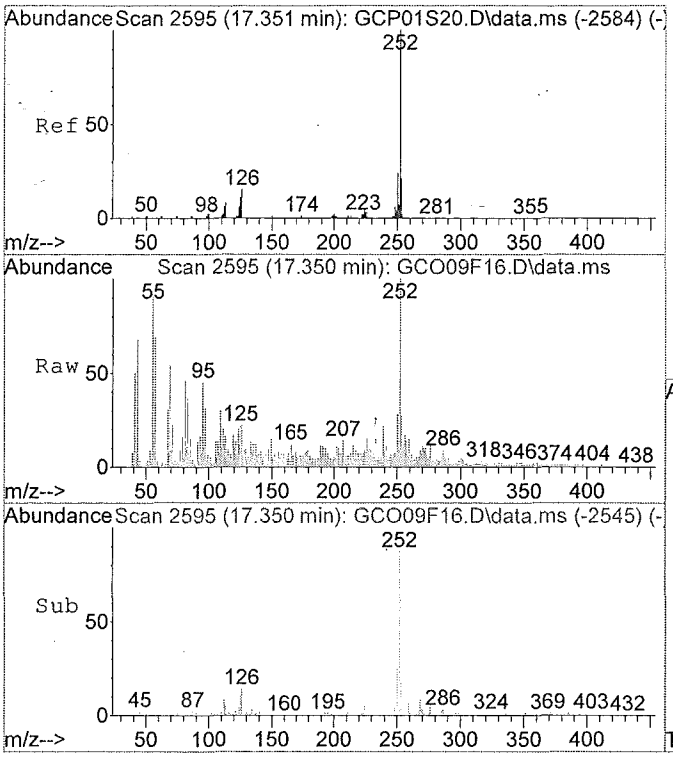


#79
Chrysene
Concen: 10.39 ug/ml
RT: 15.77 min Scan# 2326
Delta R.T. -0.00 min
Lab File: GCO09F16.D
Acq: 07/08/2015 12:35

Tgt Ion:228 Resp: 729411

Ion	Ratio	Lower	Upper
228	100		
226	32.4	20.1	37.3
229	30.4	13.7	25.5#
0	0.0	0.0	0.0

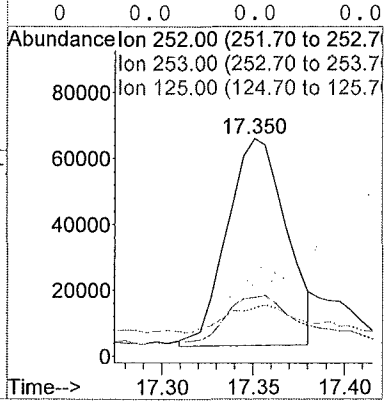


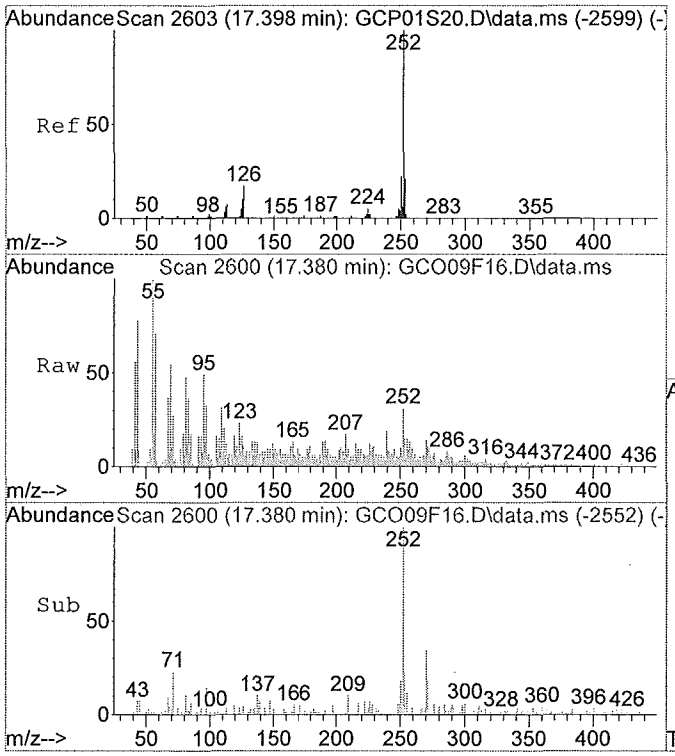


#83
Benzo(b)fluoranthene
Concen: 3.31 ug/ml m
RT: 17.35 min Scan# 2595
Delta R.T. -0.00 min
Lab File: GCO09F16.D
Acq: 07/08/2015 12:35

Tgt Ion:252 Resp: 141323

Ion	Ratio	Lower	Upper
252	100		
253	32.0	15.1	28.1#
125	17.4	10.6	19.8
0	0.0	0.0	0.0

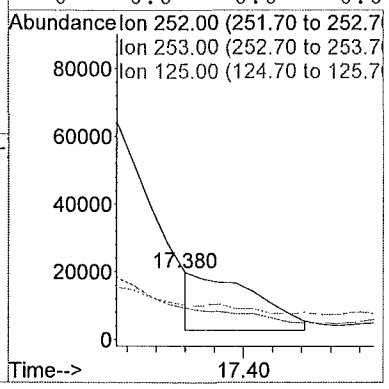


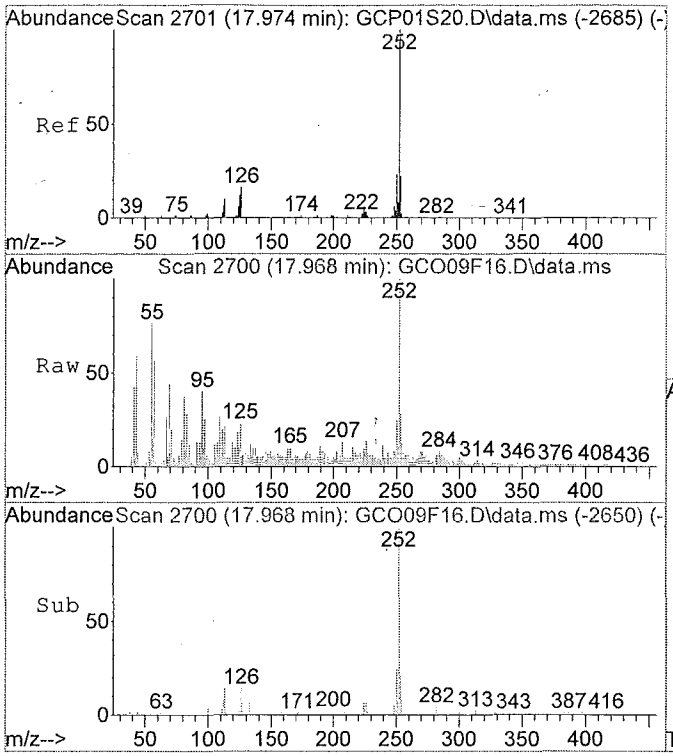


#84
Benzo(k)fluoranthene
Concen: 0.62 ug/ml m
RT: 17.38 min Scan# 2600
Delta R.T. -0.02 min
Lab File: GCO09F16.D
Acq: 07/08/2015 12:35

Tgt Ion:252 Resp: 25105

Ion	Ratio	Lower	Upper
252	100		
253	180.1	15.1	28.1#
125	97.9	10.7	19.9#
0	0.0	0.0	0.0

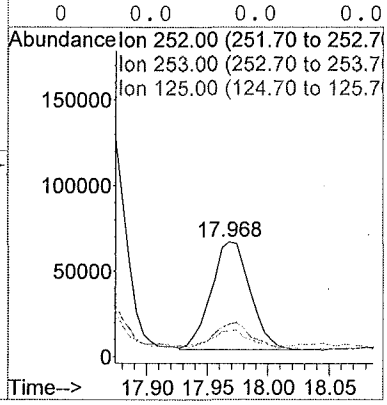


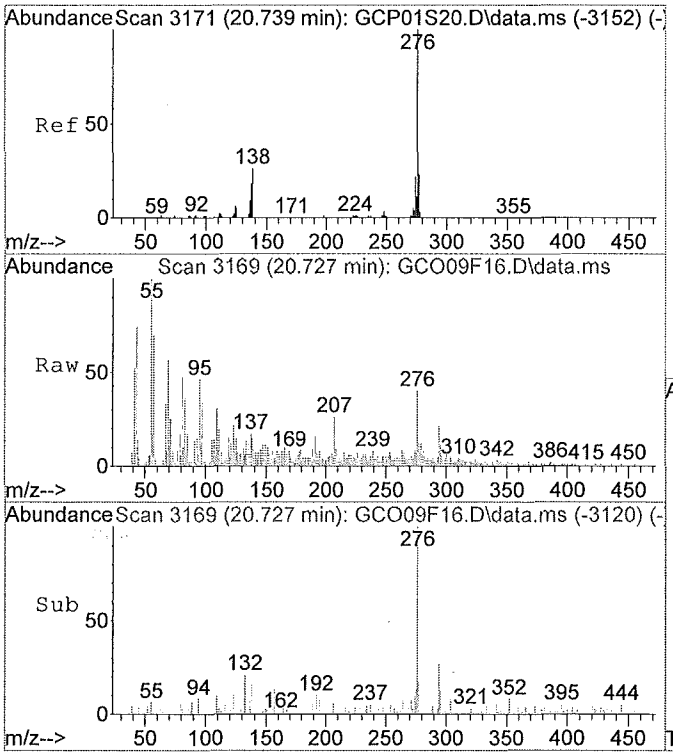


#85
Benzo(a)pyrene
Concen: 3.50 ug/ml
RT: 17.97 min Scan# 2700
Delta R.T. -0.01 min
Lab File: GCO09F16.D
Acq: 07/08/2015 12:35

Tgt Ion:252 Resp: 140712

Ion	Ratio	Lower	Upper
252	100		
253	23.3	15.2	28.2
125	13.4	11.8	21.8
0	0.0	0.0	0.0

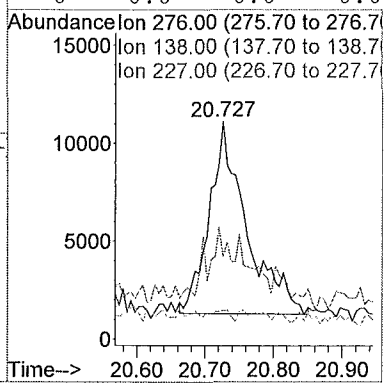


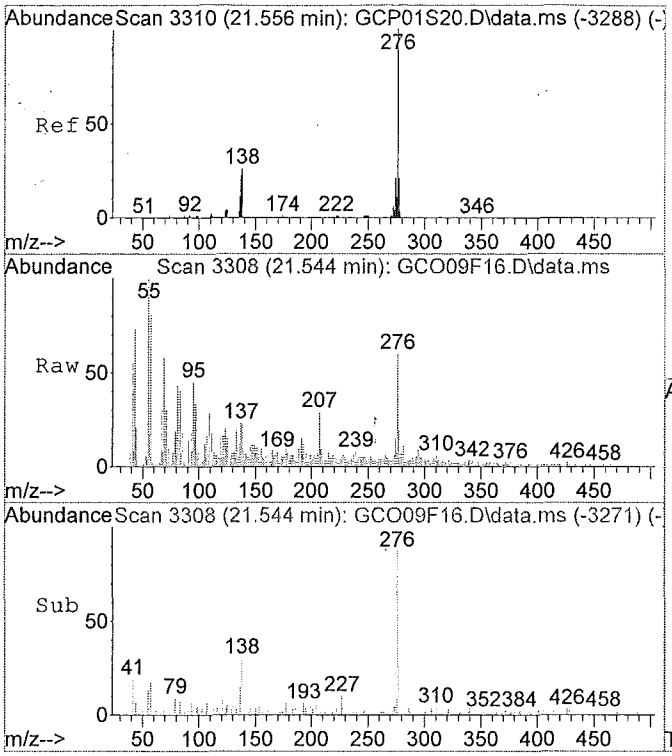


#87
Indeno(1,2,3-c,d)pyrene
Concen: 1.04 ug/ml m
RT: 20.73 min Scan# 3169
Delta R.T. -0.01 min
Lab File: GCO09F16.D
Acq: 07/08/2015 12:35

Tgt Ion:276 Resp: 36869

Ion	Ratio	Lower	Upper
276	100		
138	8.9	22.3	41.5#
227	2.3	0.1	0.1#
0	0.0	0.0	0.0

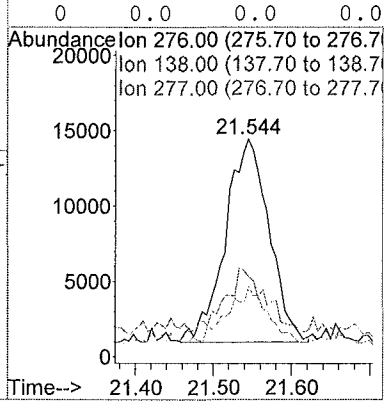




#89
Benzo(g,h,i)perylene
Concen: 1.50 ug/ml
RT: 21.54 min Scan# 3308
Delta R.T. -0.01 min
Lab File: GCO09F16.D
Acq: 07/08/2015 12:35

Tgt Ion:276 Resp: 52439

Ion	Ratio	Lower	Upper
276	100		
138	30.2	24.1	44.7
277	24.3	16.7	30.9
0	0.0	0.0	0.0



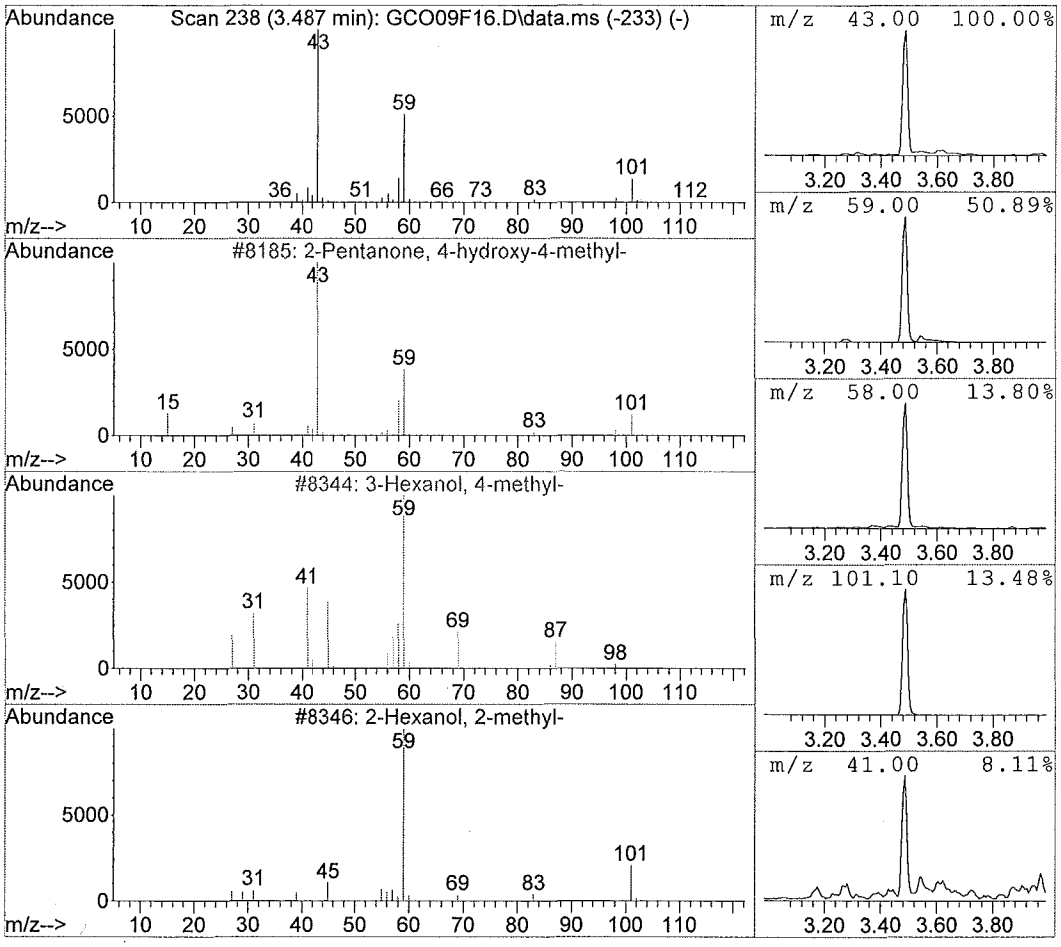
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.49	10.28 ug/ml	1858522	1,4-Dichlorobenzene-d4	3614349

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
4	Acetic acid, 1,1-dimethylethyl este	8205	000540-88-5	23.00
5	Formamide, N,N-diethyl-	4092	000617-84-5	9.00



Library Search Compound Report

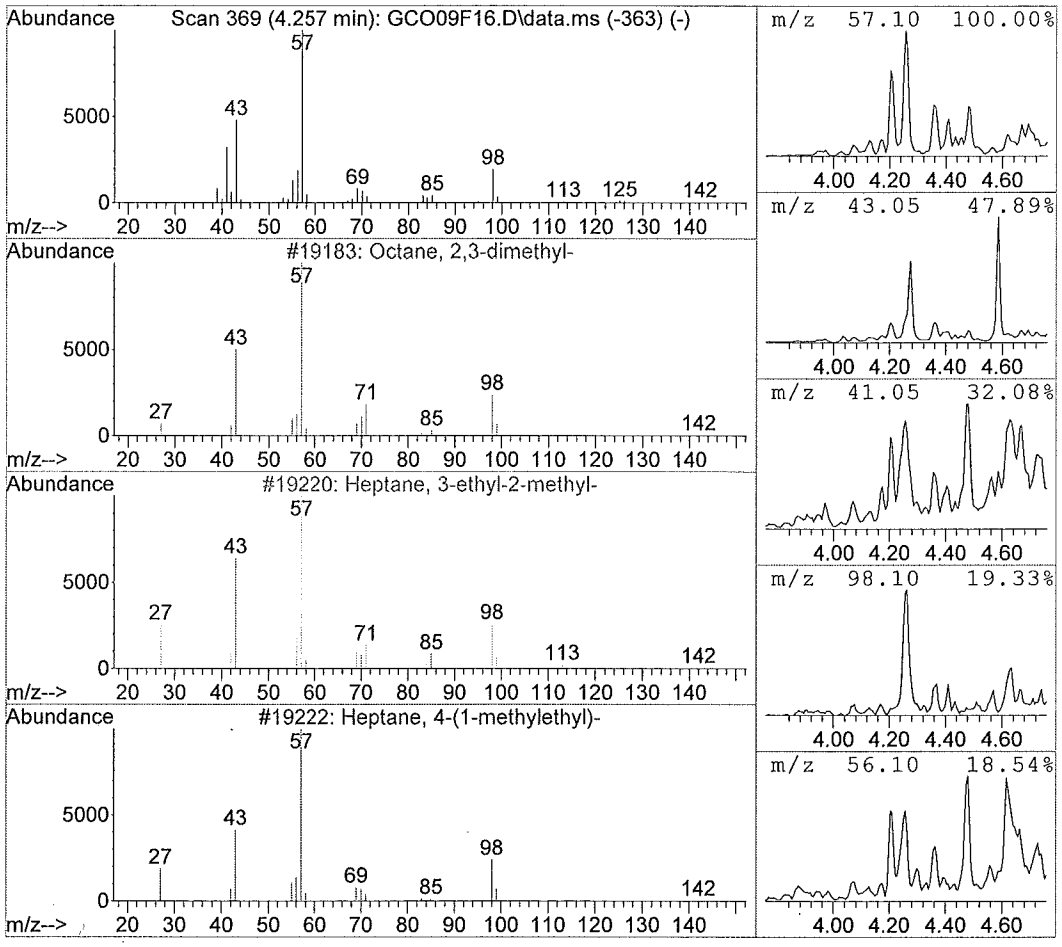
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.26	4.31 ug/ml	779250	1,4-Dichlorobenzene-d4	3614349

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 2,3-dimethyl-	19183	007146-60-3	80.00
2	Heptane, 3-ethyl-2-methyl-	19220	014676-29-0	80.00
3	Heptane, 4-(1-methylethyl)-	19222	052896-87-4	80.00
4	Undecane, 6-methyl-	38328	017302-33-9	72.00
5	Dodecane, 6-methyl-	48847	006044-71-9	50.00

BA



00587

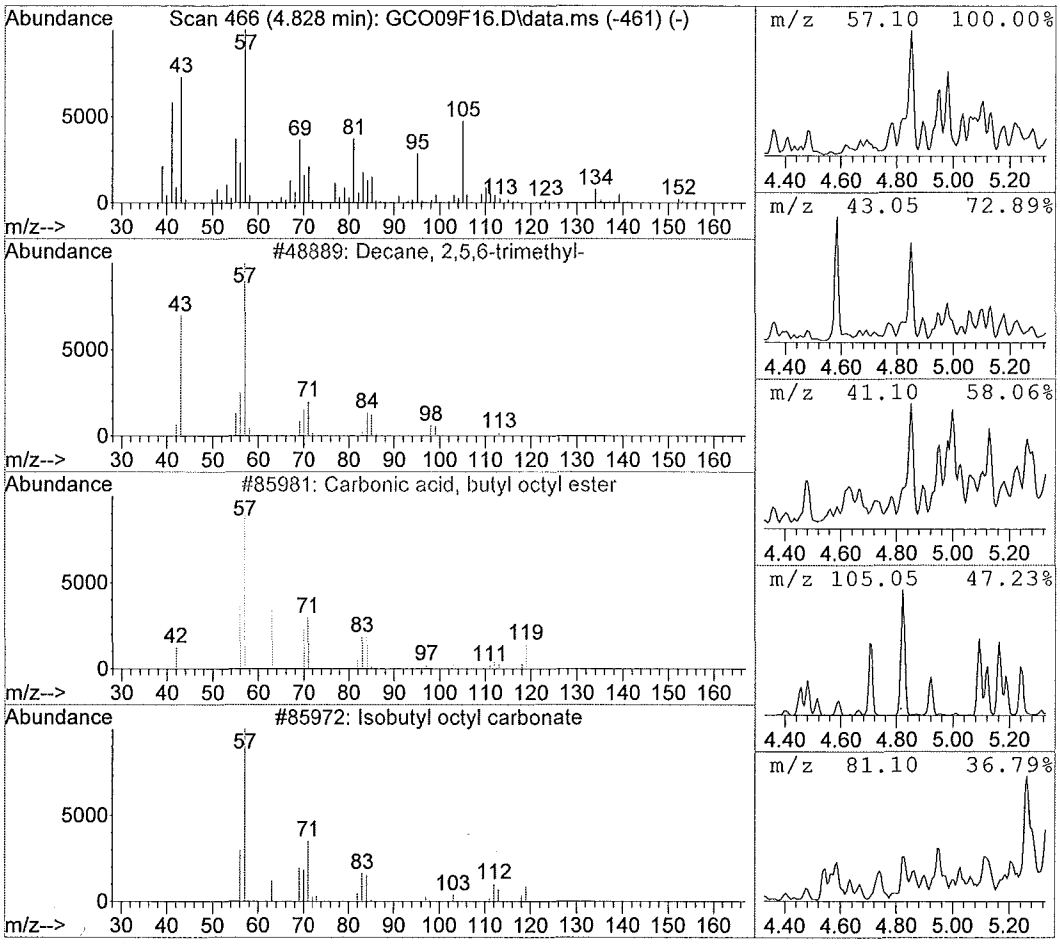
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.83	3.58 ug/ml	646122	1,4-Dichlorobenzene-d4	3614349

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 2,5,6-trimethyl- BA	48889	062108-23-0	49.00
2	Carbonic acid, butyl octyl ester	85981	1000314-63-5	38.00
3	Isobutyl octyl carbonate	85972	1000372-74-6	38.00
4	Hexyl octyl ether	72867	017071-54-4	38.00
5	Oxalic acid, isobutyl pentyl ester	73873	1000309-37-0	35.00



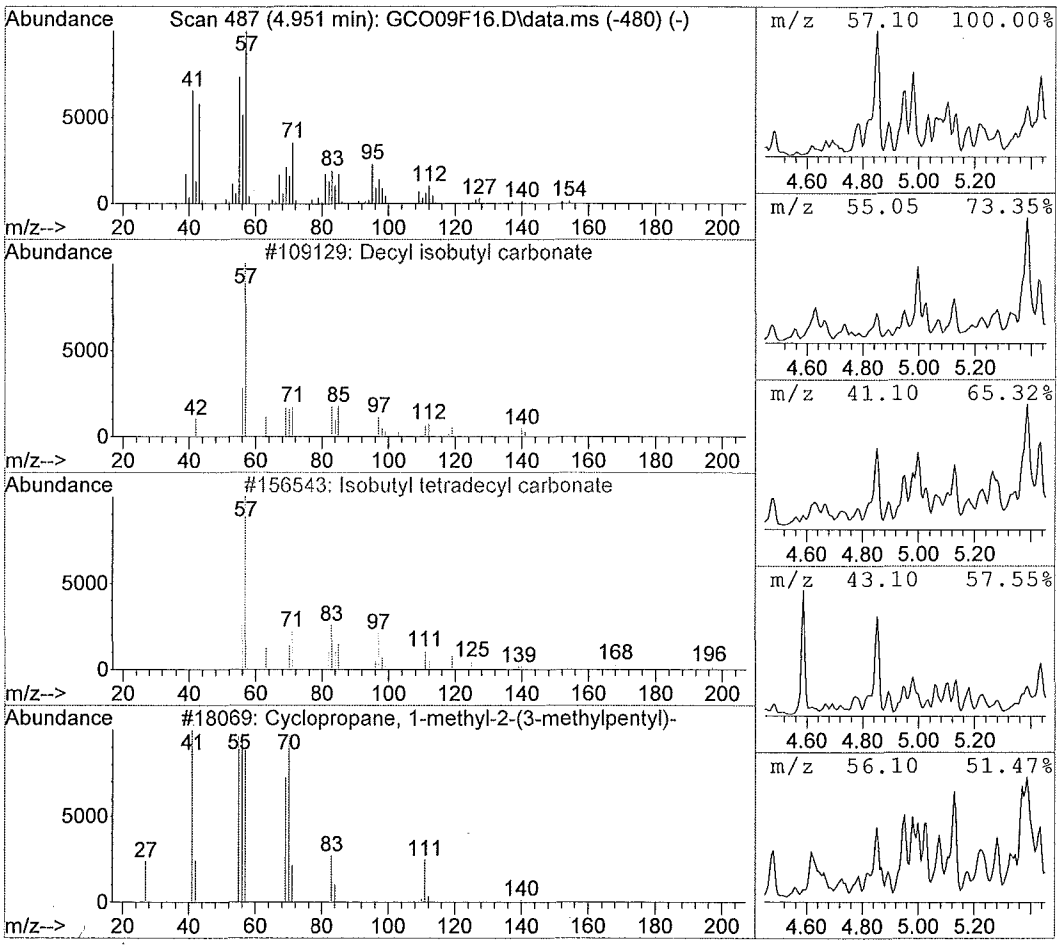
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.95	8.14 ug/ml	1471218	1,4-Dichlorobenzene-d4	3614349

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decyl isobutyl carbonate	109129	959226-07-4	52.00
2	Isobutyl tetradecyl carbonate	156543	959275-58-2	47.00
3	Cyclopropane, 1-methyl-2-(3-methylp	18069	062238-07-7	46.00
4	1-Octene	6625	000111-66-0	46.00
5	Dodecane, 1-fluoro-	51680	000334-68-9	43.00



: 00589

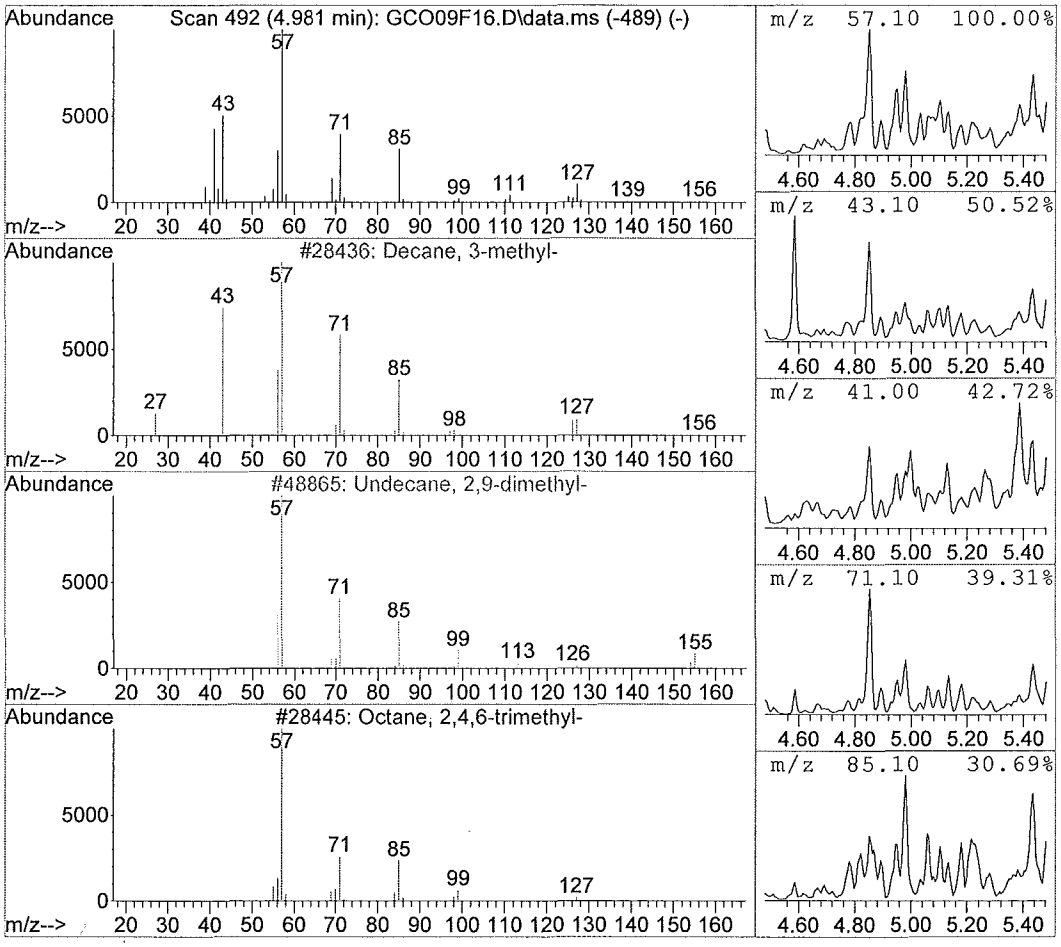
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.98	3.55 ug/ml	640839	1,4-Dichlorobenzene-d4	3614349

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 3-methyl-	28436	013151-34-3	83.00
2	Undecane, 2,9-dimethyl- BA	48865	017301-26-7	64.00
3	Octane, 2,4,6-trimethyl-	28445	062016-37-9	59.00
4	Sulfurous acid, butyl undecyl ester	137567	1000309-17-8	59.00
5	Octane, 2,7-dimethyl-	19178	001072-16-8	53.00



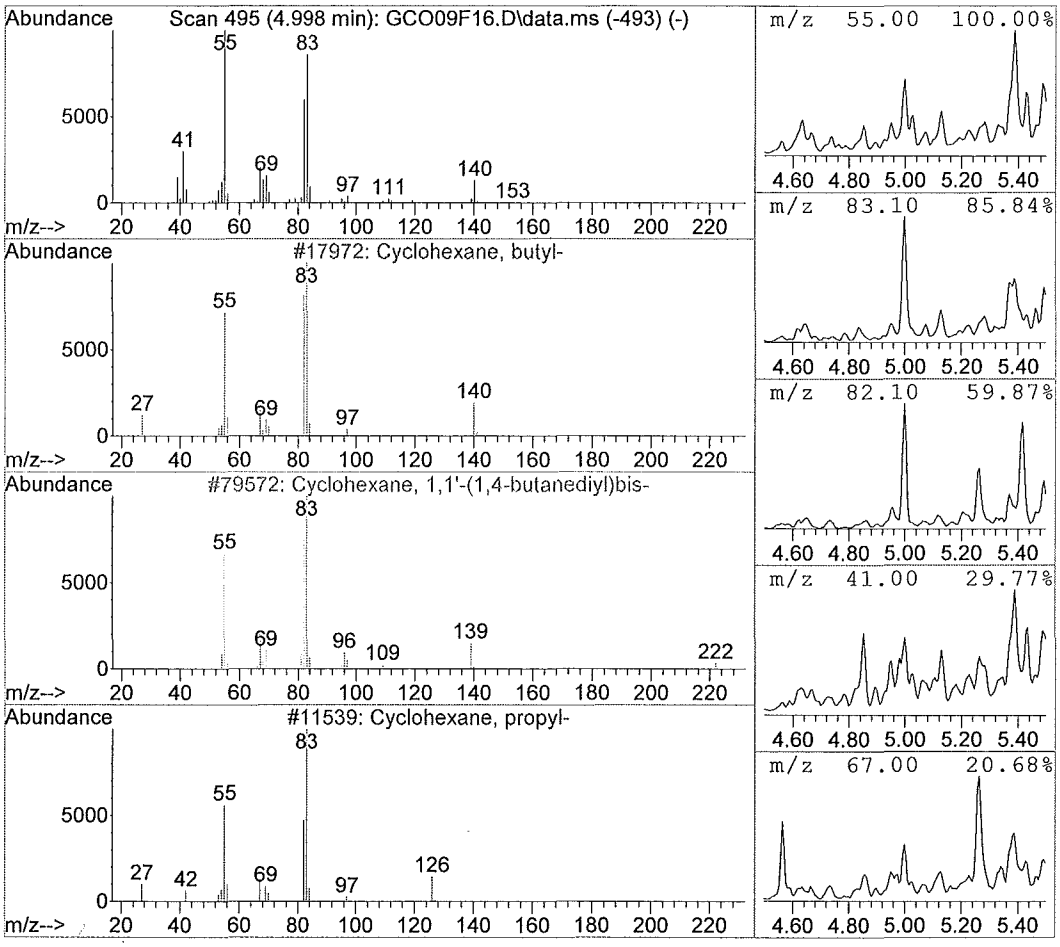
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.00	6.02 ug/ml	1087240	1,4-Dichlorobenzene-d4	3614349

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, butyl- CA	17972	001678-93-9	91.00
2	Cyclohexane, 1,1'-(1,4-butanediyl)b	79572	006165-44-2	78.00
3	Cyclohexane, propyl-	11539	001678-92-8	78.00
4	Cyclohexane, (2-methylpropyl)-	18027	001678-98-4	72.00
5	Cyclohexane, 2-propenyl-	10665	002114-42-3	72.00



: 00591

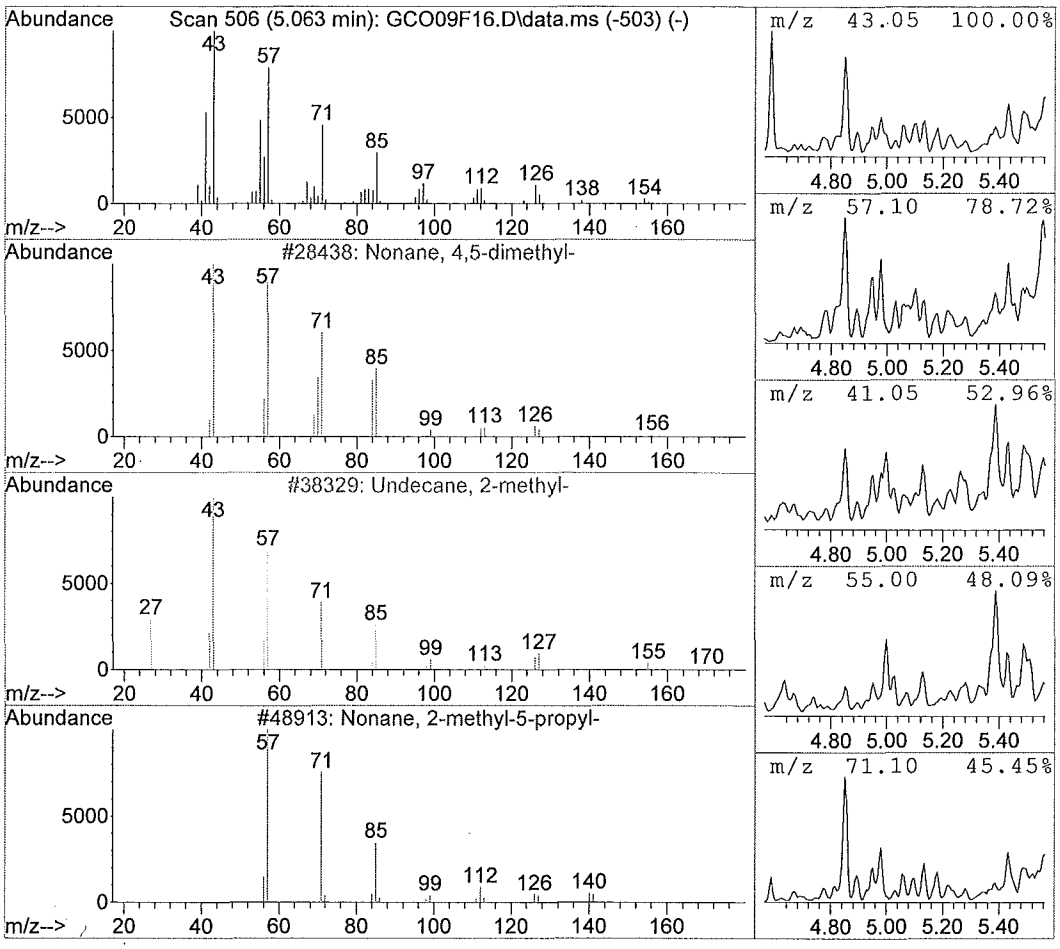
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.06	3.48 ug/ml	628908	1,4-Dichlorobenzene-d4	3614349

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonane, 4,5-dimethyl- BA	28438	017302-23-7	53.00
2	Undecane, 2-methyl-	38329	007045-71-8	53.00
3	Nonane, 2-methyl-5-propyl-	48913	031081-17-1	53.00
4	Hentriacontane	223851	000630-04-6	53.00
5	Sulfurous acid, hexyl pentadecyl es	200446	1000309-13-7	50.00



00592

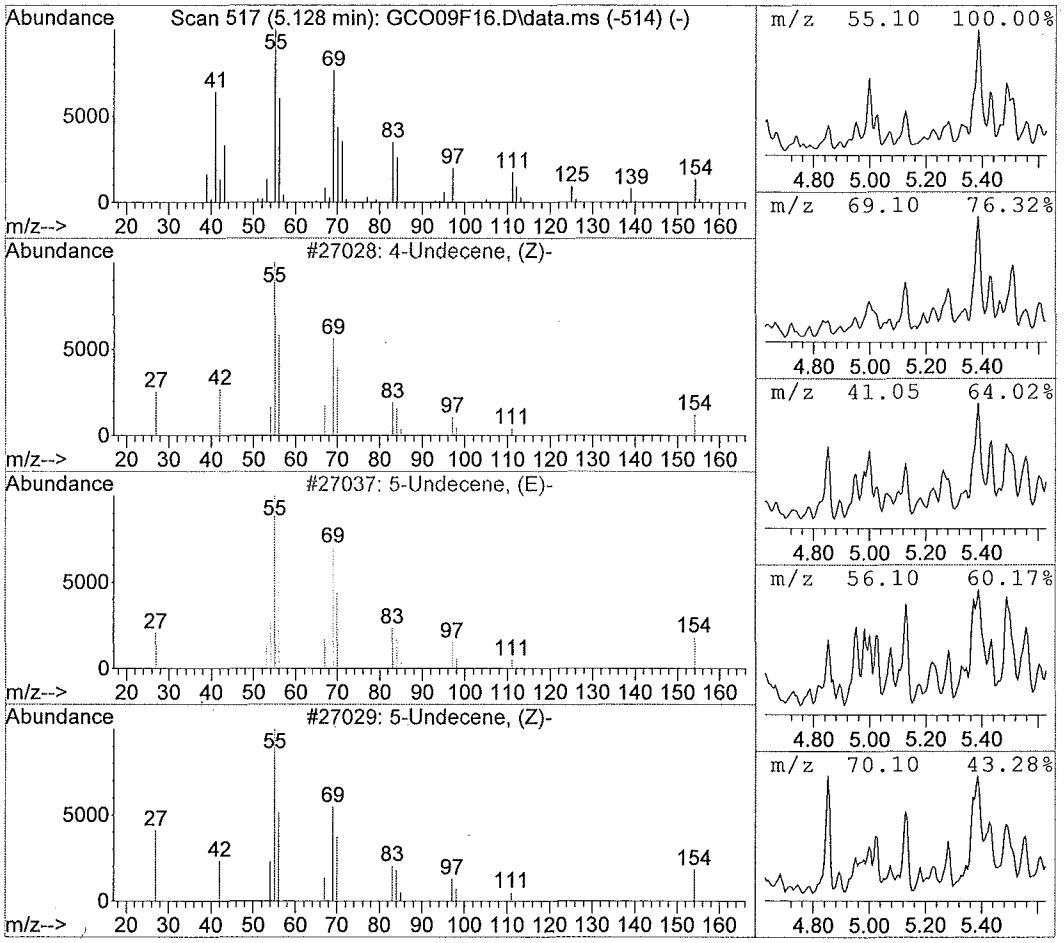
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.13	7.25 ug/ml	1310176	1,4-Dichlorobenzene-d4	3614349

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Undecene, (Z)-	27028	000821-98-7	87.00
2	5-Undecene, (E)-	27037	000764-97-6	87.00
3	5-Undecene, (Z)-	27029	000764-96-5	83.00
4	Cyclooctane, 1,4-dimethyl-, cis-	18039	013151-99-0	72.00
5	Cyclohexane, 1,1-dimethyl-2-propyl-	27097	081983-71-3	64.00



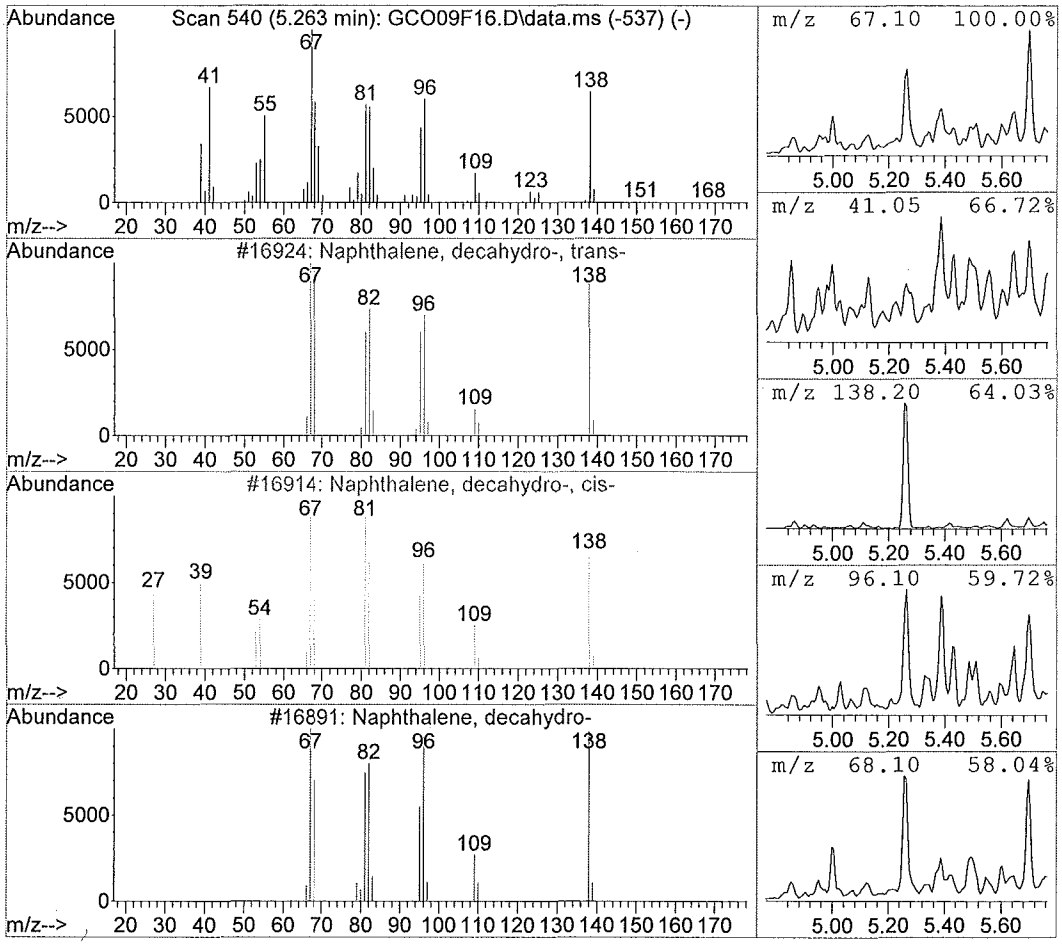
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.26	9.90 ug/ml	1788280	1,4-Dichlorobenzene-d4	3614349

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, decahydro-, trans-	16924	000493-02-7	93.00
2	Naphthalene, decahydro-, cis-	16914	000493-01-6	92.00
3	Naphthalene, decahydro-	16891	000091-17-8	89.00
4	Spiro[4.5]decane	16860	000176-63-6	76.00
5	5H-Inden-5-one, octahydro-, trans-	17588	004668-81-9	64.00



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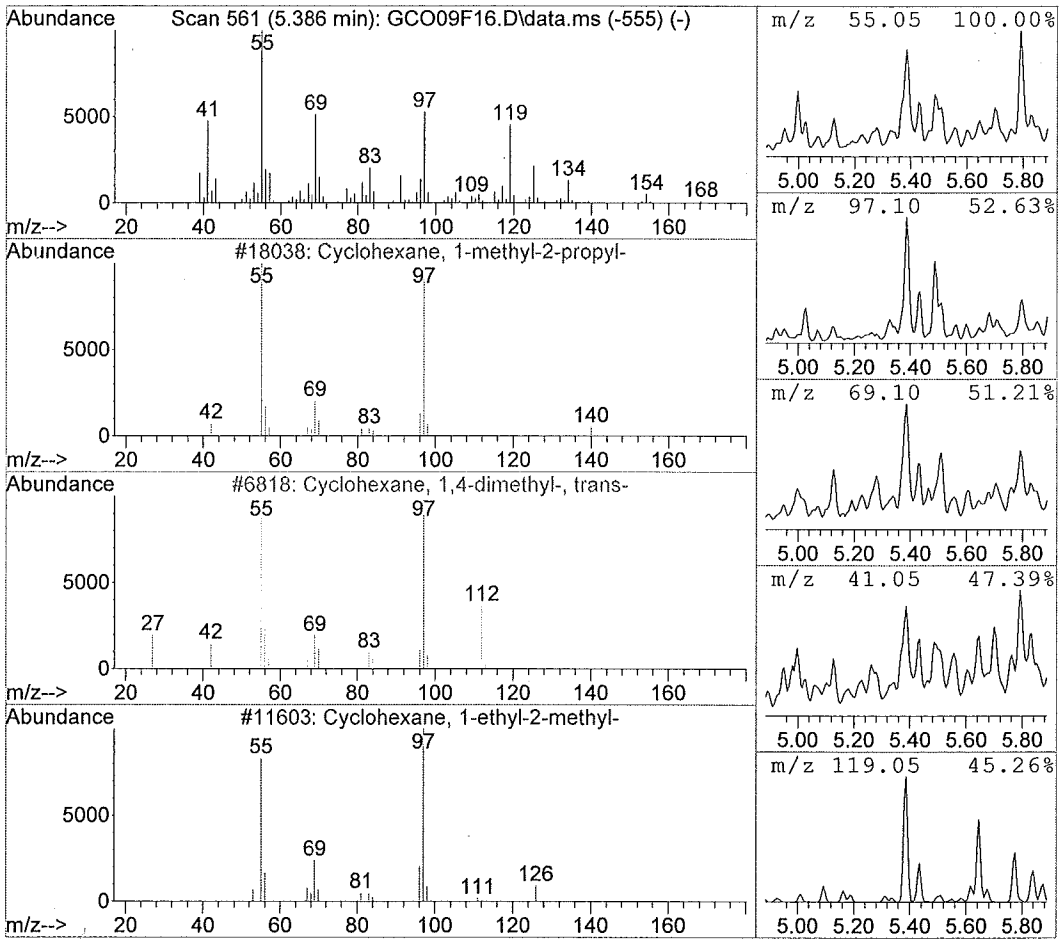
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.39	22.09 ug/ml	3992326	1,4-Dichlorobenzene-d4	3614349

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1-methyl-2-propyl- CA	18038	004291-79-6	35.00
2	Cyclohexane, 1,4-dimethyl-, trans-	6818	002207-04-7	35.00
3	Cyclohexane, 1-ethyl-2-methyl-	11603	003728-54-9	35.00
4	Cyclohexane, 1-ethyl-2-methyl-, cis	11620	004923-77-7	35.00
5	Cyclohexane, 1,4-dimethyl-	6747	000589-90-2	35.00



Library Search Compound Report

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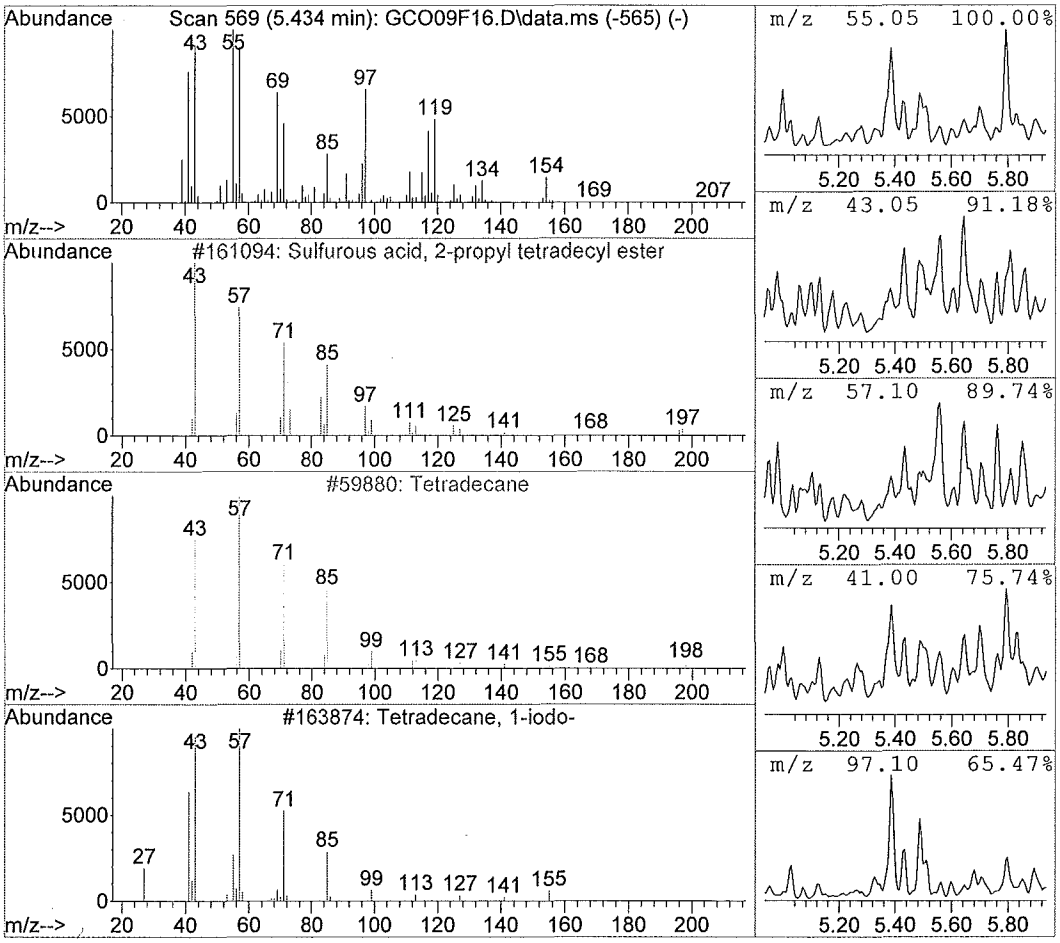
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.43	10.19 ug/ml	1842083	1,4-Dichlorobenzene-d4	3614349

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Sulfurous acid, 2-propyl tetradecyl	161094	1000309-12-5	14.00
2	Tetradecane	59880	000629-59-4	10.00
3	Tetradecane, 1-iodo-	163874	019218-94-1	10.00
4	Undecane, 5-ethyl-	48841	017453-94-0	10.00
5	Tridecane	48831	000629-50-5	10.00



Library Search Compound Report

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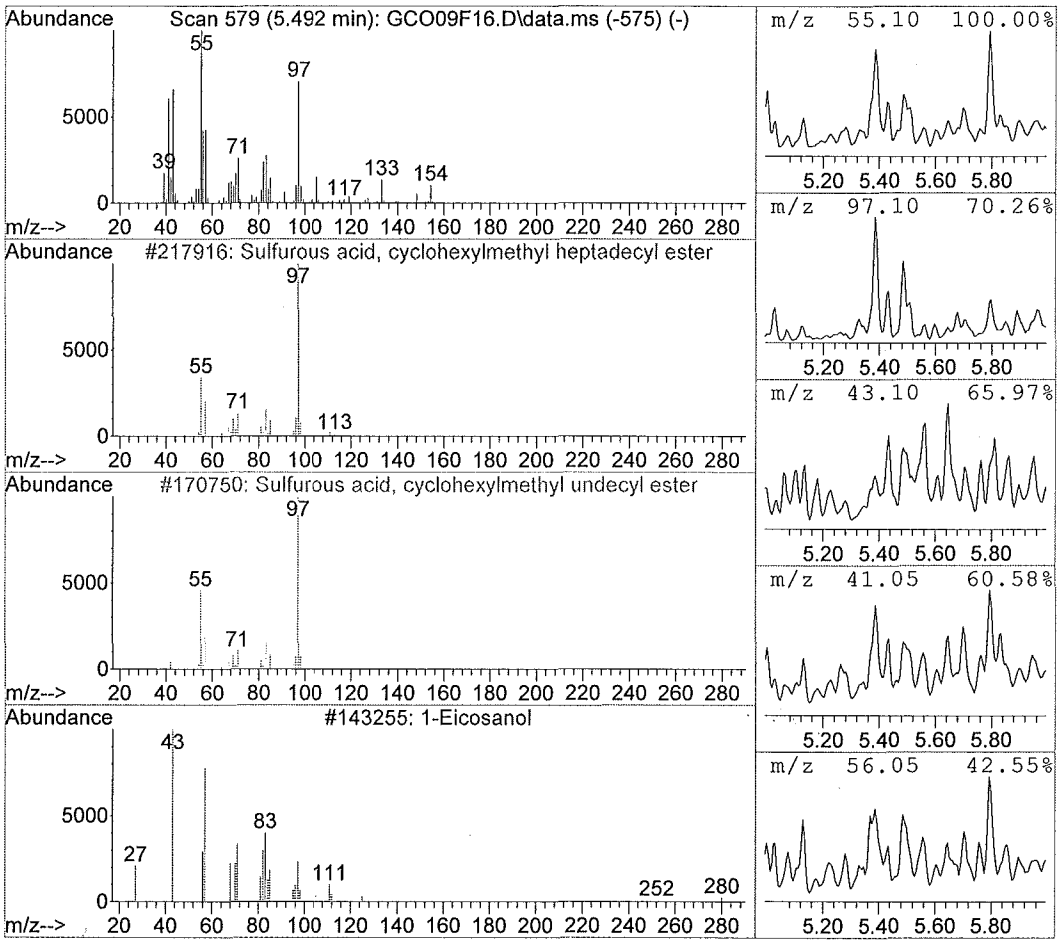
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.49	15.03 ug/ml	2715312	1,4-Dichlorobenzene-d4	3614349

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Sulfurous acid, cyclohexylmethyl he	217916	1000309-22-5	50.00
2	Sulfurous acid, cyclohexylmethyl un	170750	1000309-21-9	47.00
3	1-Eicosanol	143255	000629-96-9	43.00
4	Sulfurous acid, cyclohexylmethyl he	212990	1000309-22-4	38.00
5	Cyclohexane, 1,1-dimethyl-	6750	000590-66-9	38.00



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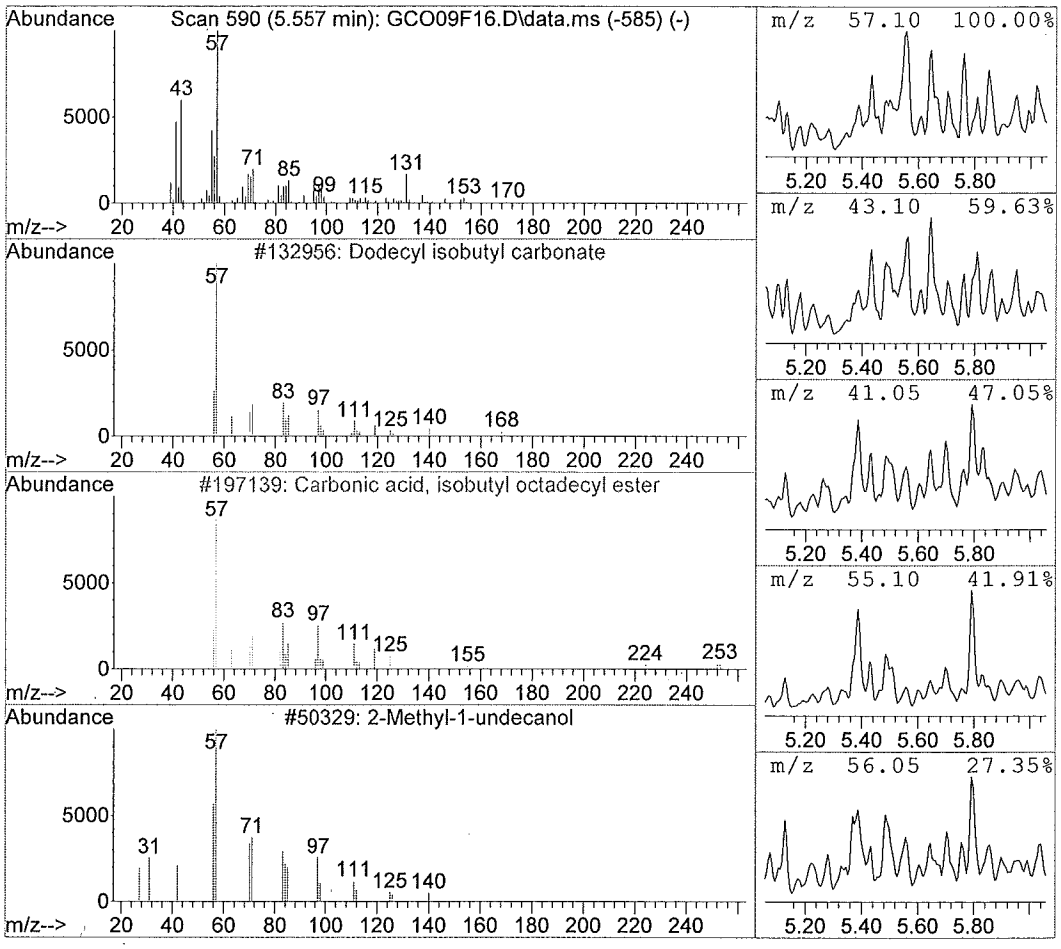
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.56	9.88 ug/ml	1784793	1,4-Dichlorobenzene-d4	3614349

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecyl isobutyl carbonate	132956	959067-22-2	59.00
2	Carbonic acid, isobutyl octadecyl e	197139	1000314-61-5	53.00
3	2-Methyl-1-undecanol	50329	010522-26-6	43.00
4	Heptane, 3-ethyl-2-methyl-	19220	014676-29-0	38.00
5	Hexadecane, 1-bromo-	147852	000112-82-3	38.00



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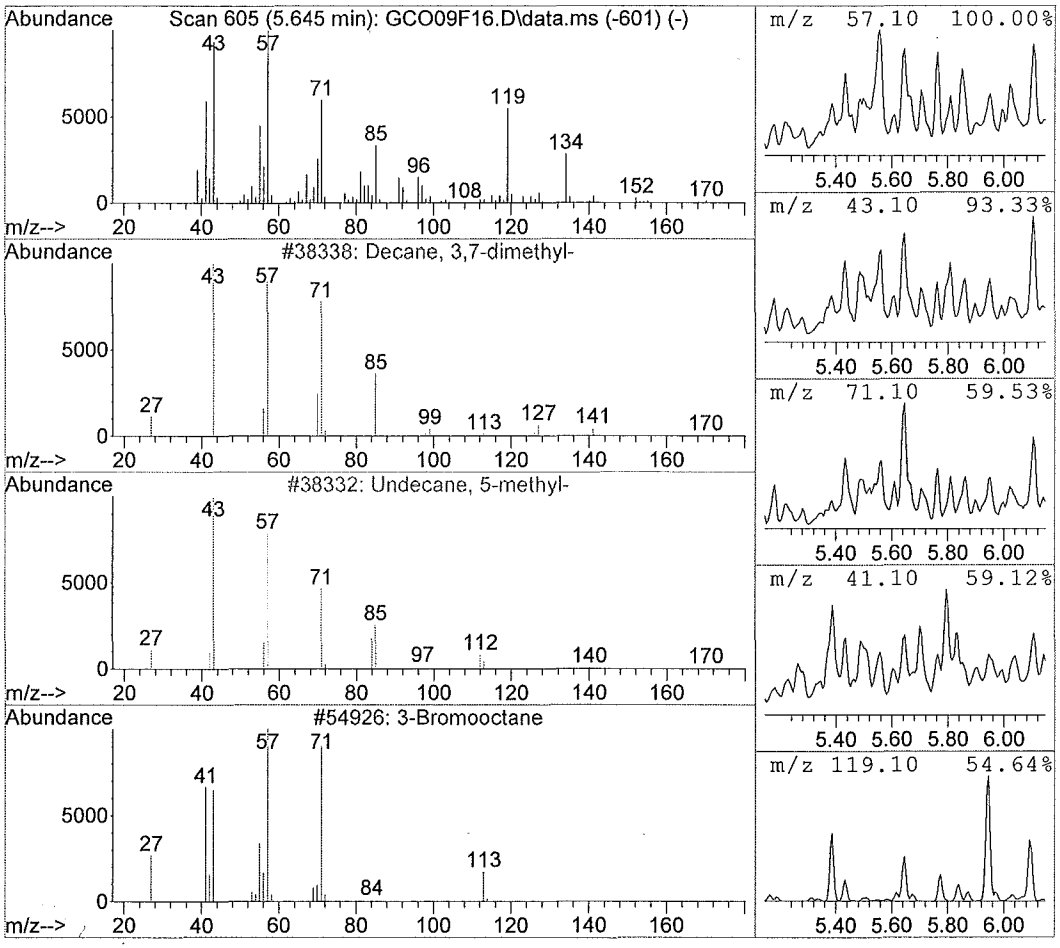
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.65	7.85 ug/ml	1859436	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 3,7-dimethyl- BA	38338	017312-54-8	46.00
2	Undecane, 5-methyl-	38332	001632-70-8	43.00
3	3-Bromooctane	54926	000999-64-4	30.00
4	Sulfurous acid, 2-ethylhexyl isohex	125661	1000309-19-0	27.00
5	Nonane, 5-(2-methylpropyl)-	48916	062185-53-9	27.00



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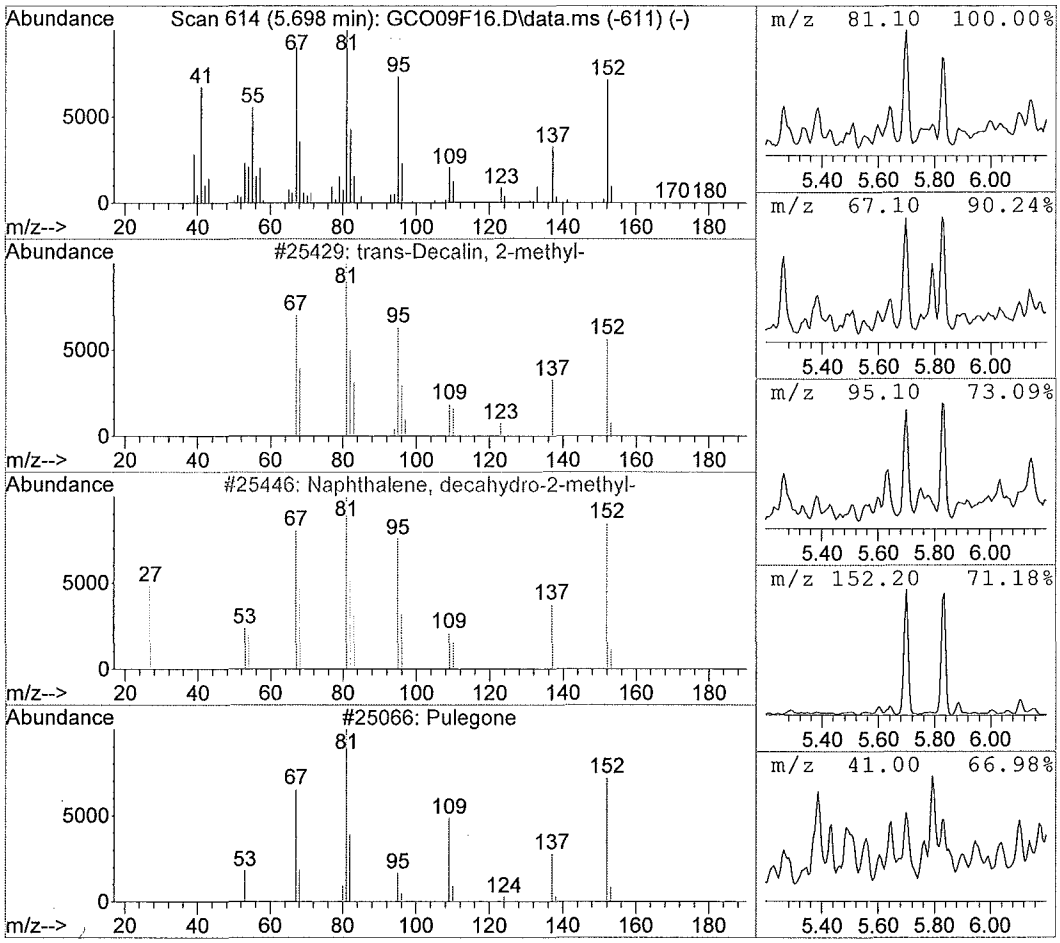
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.70	10.92 ug/ml	2584926	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	trans-Decalin, 2-methyl-	25429	1000152-47-3	91.00
2	Naphthalene, decahydro-2-methyl-	25446	002958-76-1	90.00
3	Pulegone	25066	000089-82-7	81.00
4	Spiro[5.5]undecane	25411	000180-43-8	76.00
5	Cyclohexanone, 5-methyl-2-(1-methyl	25285	015932-80-6	74.00



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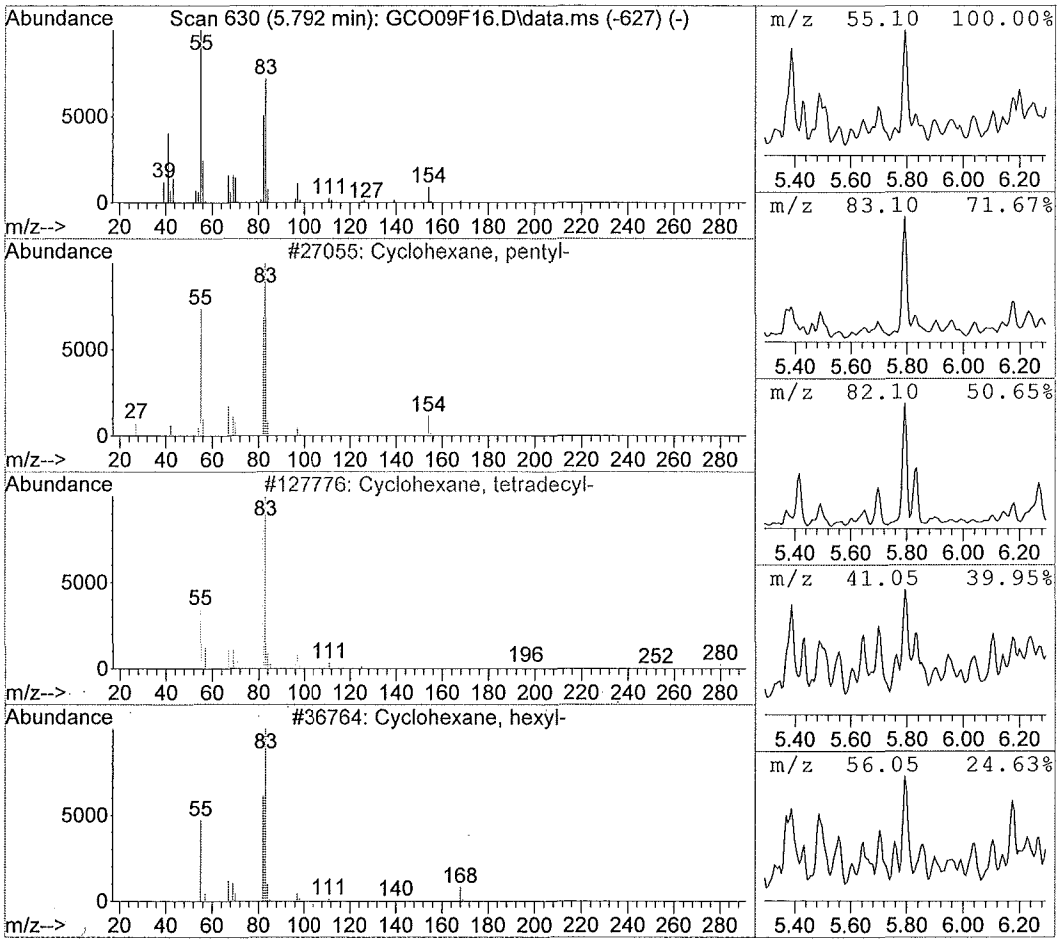
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.79	11.96 ug/ml	2832794	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, pentyl- CA	27055	004292-92-6	80.00
2	Cyclohexane, tetradecyl-	127776	001795-18-2	64.00
3	Cyclohexane, hexyl-	36764	004292-75-5	59.00
4	Cyclopentane, 1-methyl-3-(1-methyle	11628	053771-88-3	58.00
5	Cyclohexane, decyl-	81252	001795-16-0	53.00



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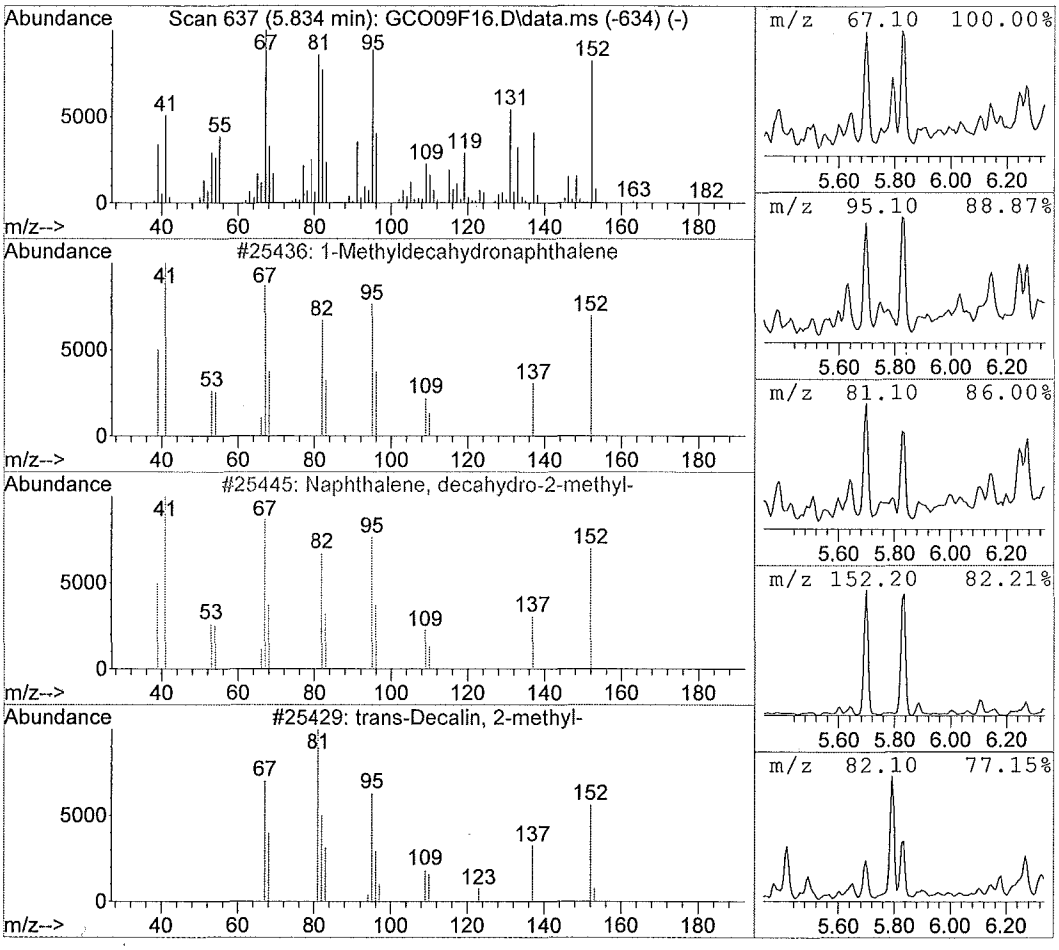
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.83	12.21 ug/ml	2891185	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Methyldecahydronaphthalene	25436	002958-75-0	83.00
2	Naphthalene, decahydro-2-methyl-	25445	002958-76-1	83.00
3	trans-Decalin, 2-methyl-	25429	1000152-47-3	64.00
4	Decalin, syn-1-methyl-, cis-	25438	1000158-89-1	58.00
5	cis-Decalin, 2-syn-methyl-	25433	1000155-85-6	58.00



Library Search Compound Report

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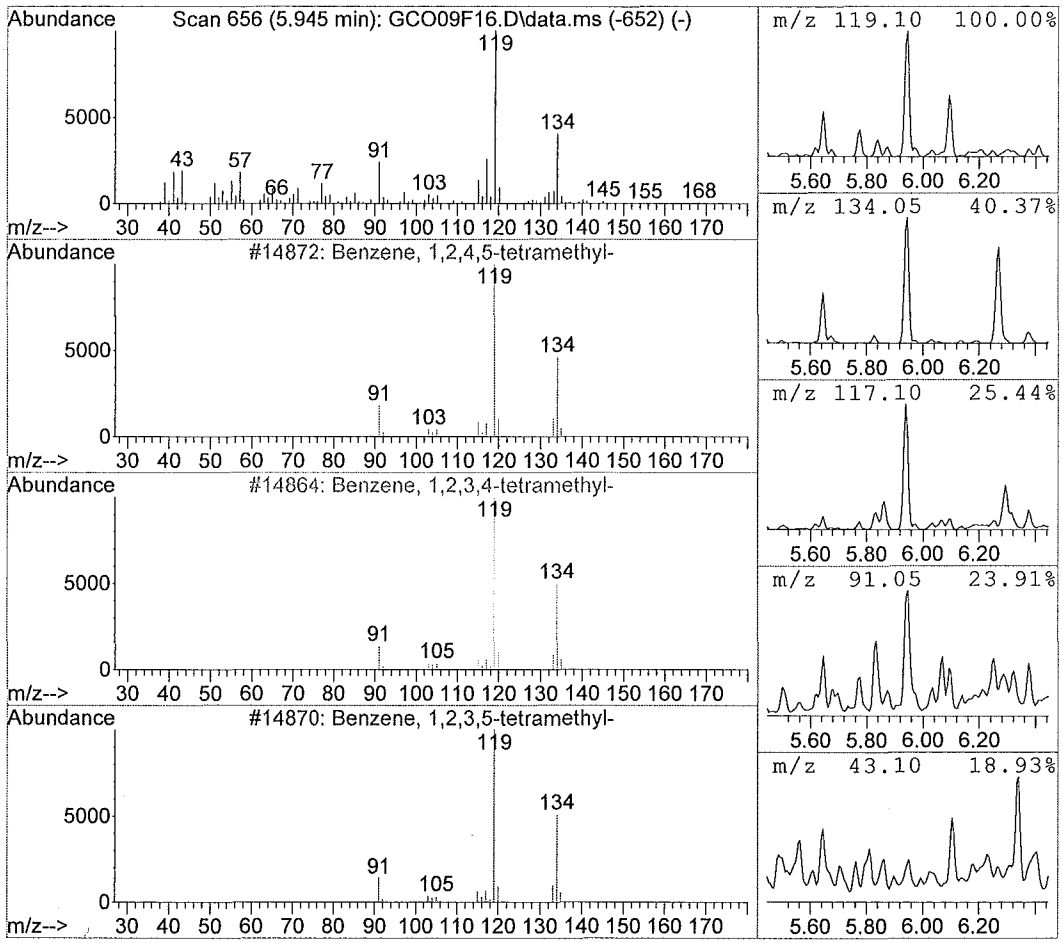
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.95	10.43 ug/ml	2469984	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	14872	000095-93-2	93.00
2	Benzene, 1,2,3,4-tetramethyl-	14864	000488-23-3	87.00
3	Benzene, 1,2,3,5-tetramethyl-	14870	000527-53-7	87.00
4	o-Cymene	14806	000527-84-4	87.00
5	Benzene, 1-ethyl-3,5-dimethyl-	14885	000934-74-7	87.00



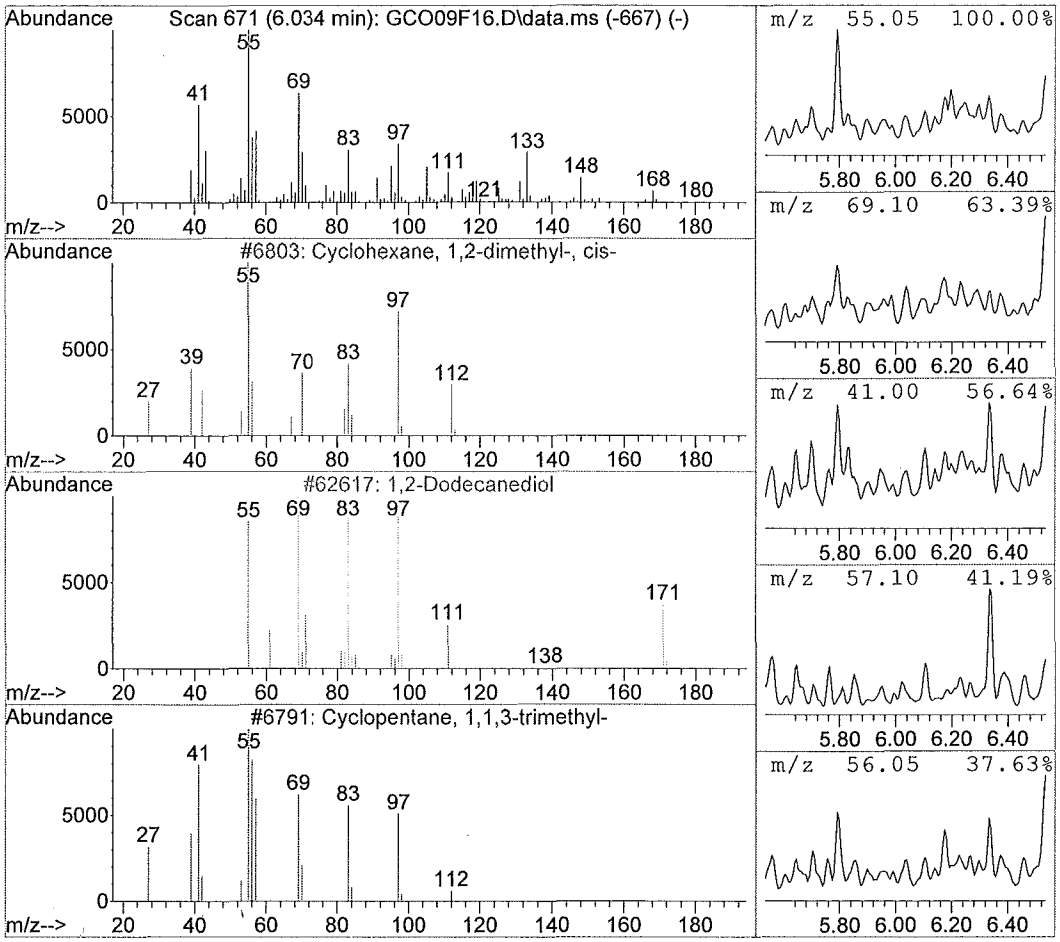
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.03	5.93 ug/ml	1404414	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, cis- CA	6803	002207-01-4	22.00
2	1,2-Dodecanediol	62617	001119-87-5	22.00
3	Cyclopentane, 1,1,3-trimethyl-	6791	004516-69-2	18.00
4	2-Octene, 4-ethyl-, (E)-	18001	074630-09-4	14.00
5	5-Undecene, 4-methyl-	36780	143185-91-5	11.00



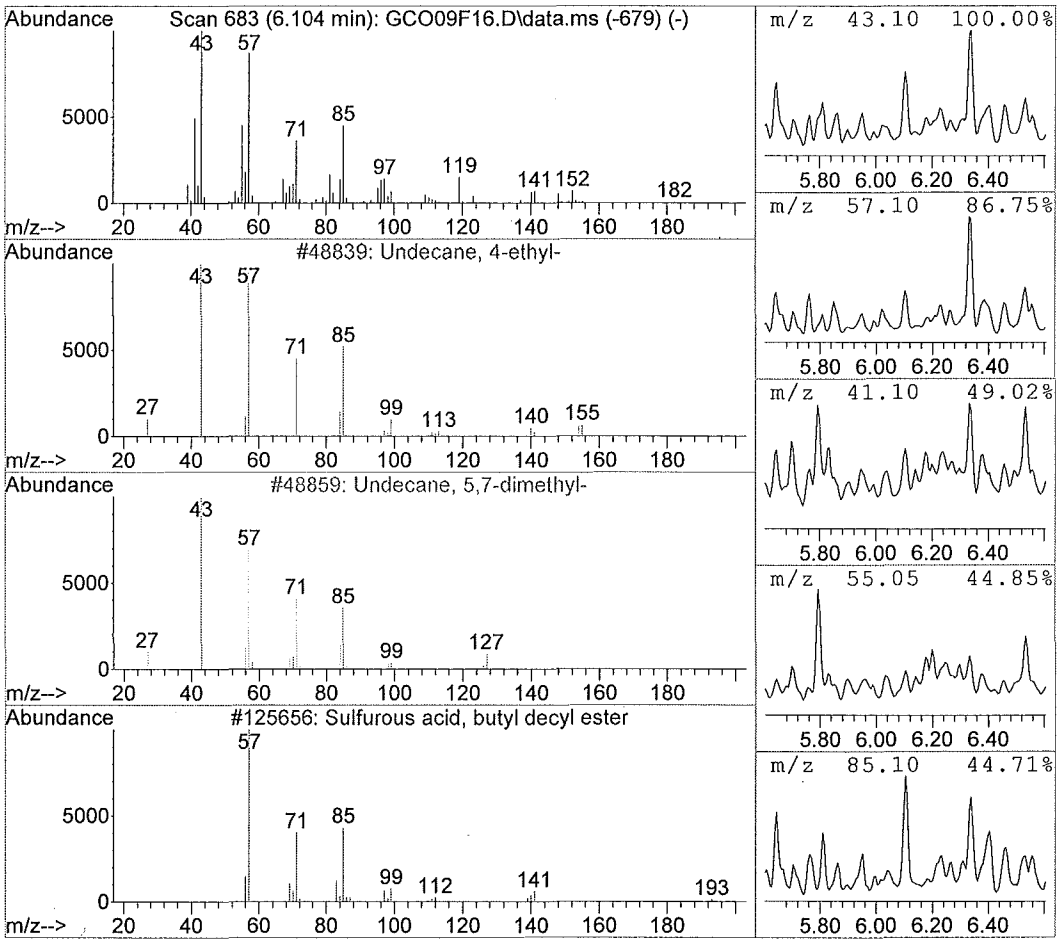
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.10	7.25 ug/ml	1716157	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 4-ethyl- BA	48839	017312-59-3	53.00
2	Undecane, 5,7-dimethyl-	48859	017312-83-3	52.00
3	Sulfurous acid, butyl decyl ester	125656	1000309-17-7	52.00
4	2-methyltetracosane	185534	1000376-72-6	50.00
5	Sulfurous acid, hexyl pentadecyl es	200446	1000309-13-7	50.00



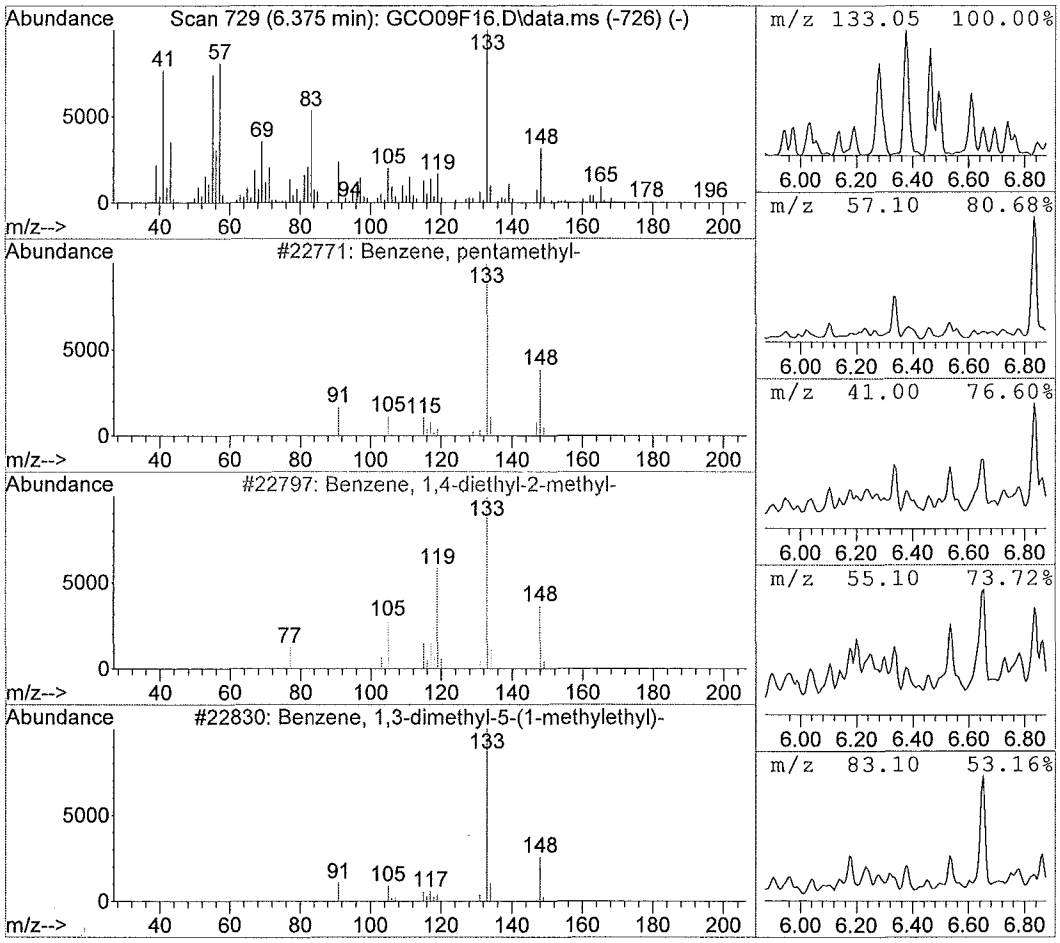
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.37	9.55 ug/ml	2260259	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, pentamethyl-	22771	000700-12-9	78.00
2	Benzene, 1,4-diethyl-2-methyl-	22797	013632-94-5	70.00
3	Benzene, 1,3-dimethyl-5-(1-methylet	22830	004706-90-5	55.00
4	3,4-Dimethylcumene	22764	1000370-34-1	55.00
5	Benzene, 1-(1,1-dimethylethyl)-3-me	22829	001075-38-3	53.00



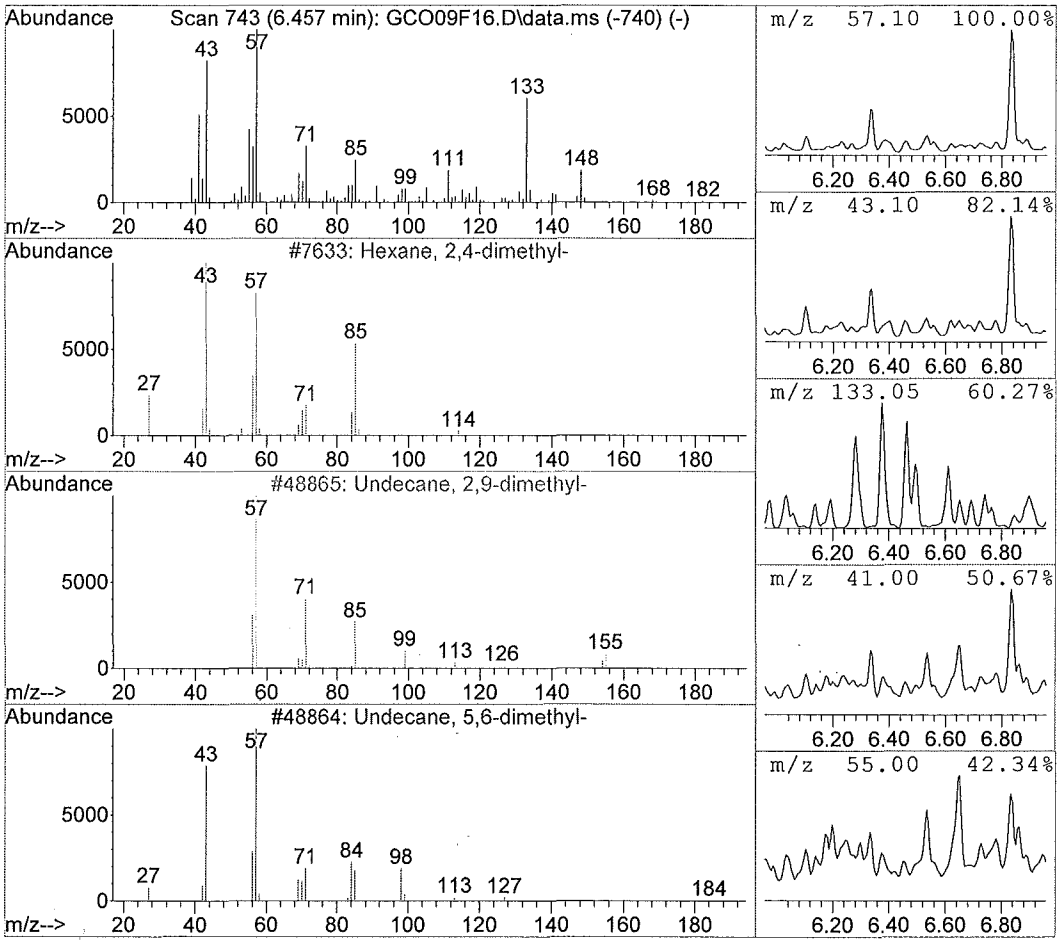
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.46	5.73 ug/ml	1356711	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,4-dimethyl- BA	7633	000589-43-5	43.00
2	Undecane, 2,9-dimethyl-	48865	017301-26-7	38.00
3	Undecane, 5,6-dimethyl-	48864	017615-91-7	38.00
4	Undecane, 3,5-dimethyl-	48868	017312-81-1	38.00
5	Benzene, pentamethyl-	22771	000700-12-9	35.00



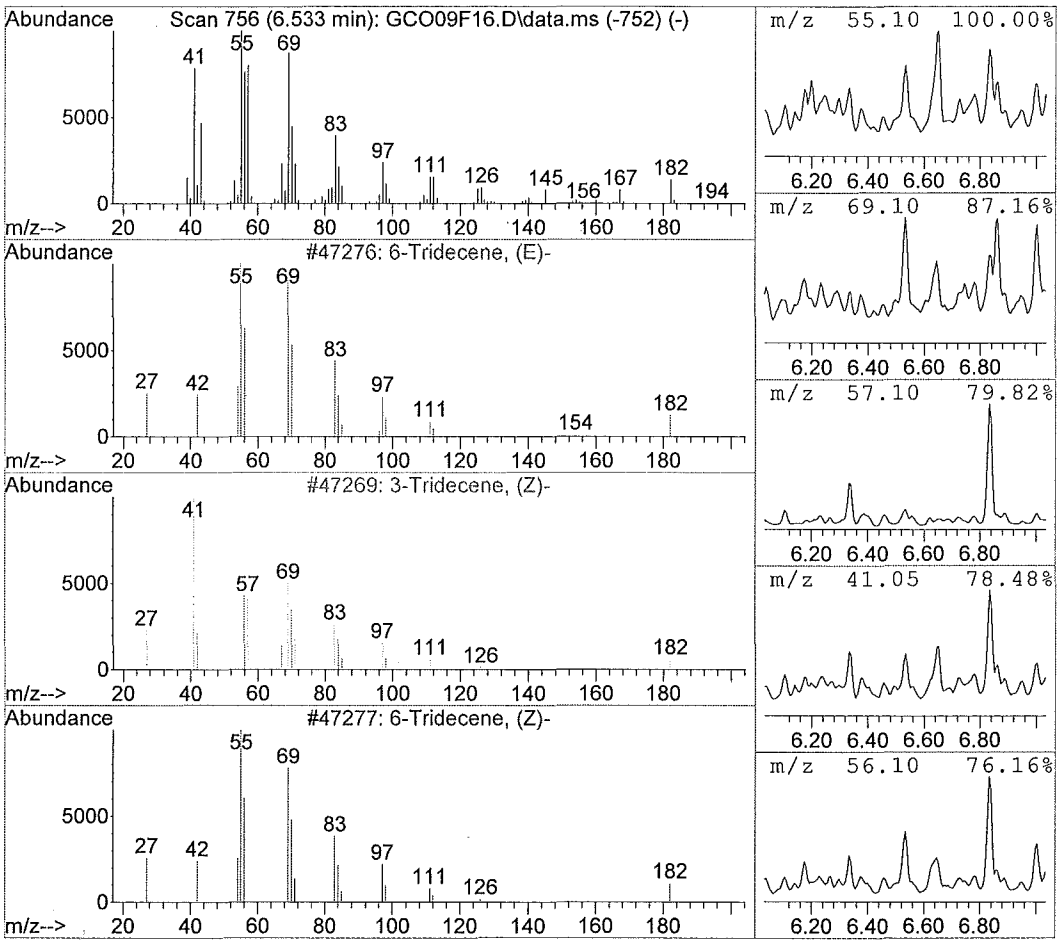
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.53	8.31 ug/ml	1968669	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	6-Tridecene, (E)-	47276	006434-76-0	95.00
2	3-Tridecene, (Z)-	47269	041446-53-1	94.00
3	6-Tridecene, (Z)-	47277	006508-77-6	94.00
4	Cyclohexane, 2-butyl-1,1,3-trimethy	47295	054676-39-0	93.00
5	6-Tridecene	47264	024949-38-0	93.00



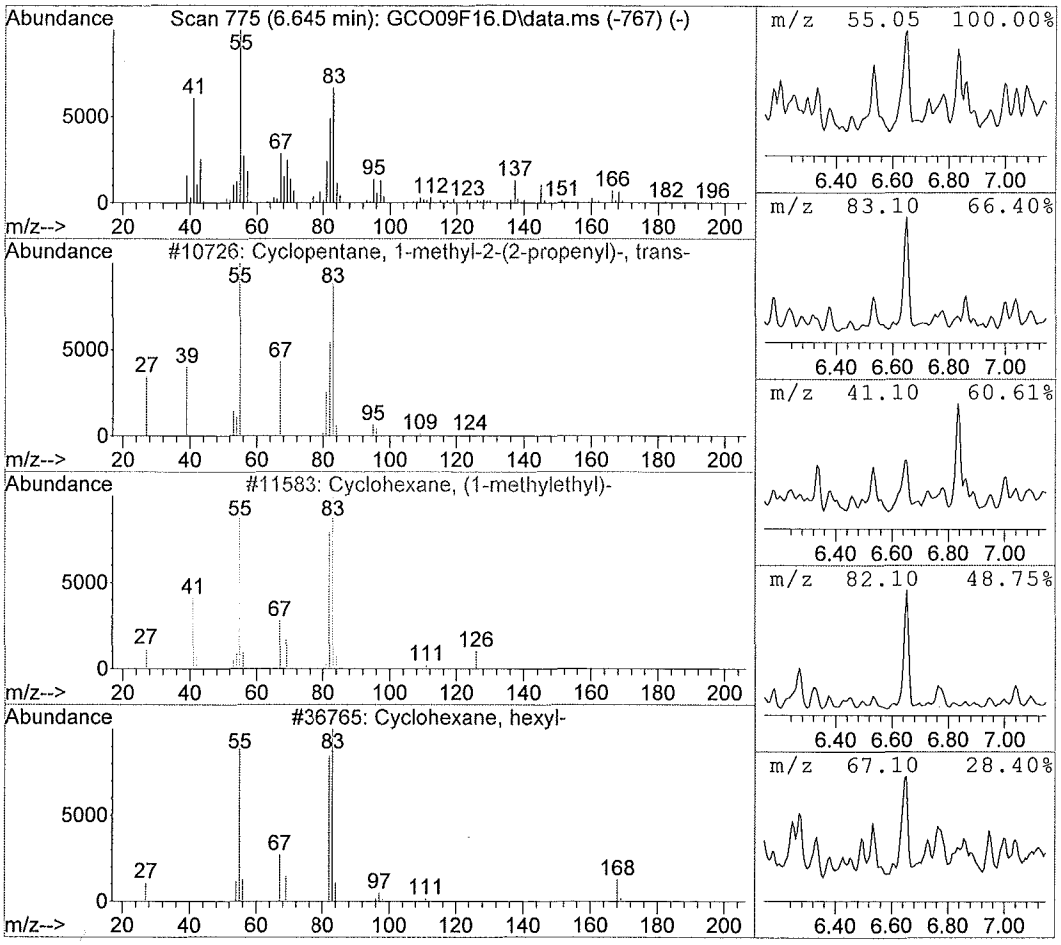
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.65	20.29 ug/ml	4803118	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclopentane, 1-methyl-2-(2-propeny	10726	050746-53-7	53.00
2	Cyclohexane, (1-methylethyl)-	11583	000696-29-7	53.00
3	Cyclohexane, hexyl-	36765	004292-75-5	47.00
4	Cyclohexane, (4-methylpentyl)-	36844	061142-20-9	38.00
5	3-Undecene, 3-methyl-	36782	023381-94-4	38.00



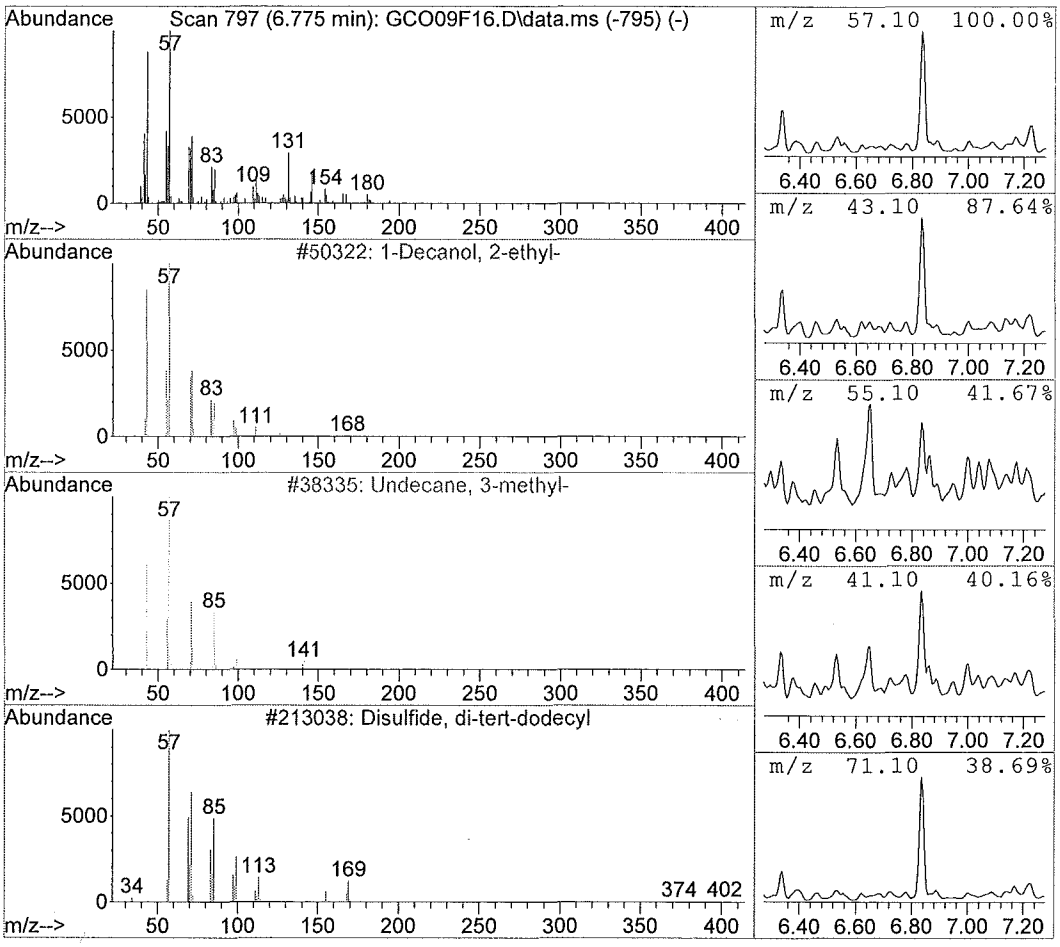
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.77	5.91 ug/ml	1399207	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Decanol, 2-ethyl-	50322	021078-65-9	58.00
2	Undecane, 3-methyl-	38335	001002-43-3	43.00
3	Disulfide, di-tert-dodecyl	213038	027458-90-8	43.00
4	Heptane, 2,6-dimethyl-	12681	001072-05-5	38.00
5	1-Pentanol, 2-methyl-	4451	000105-30-6	38.00



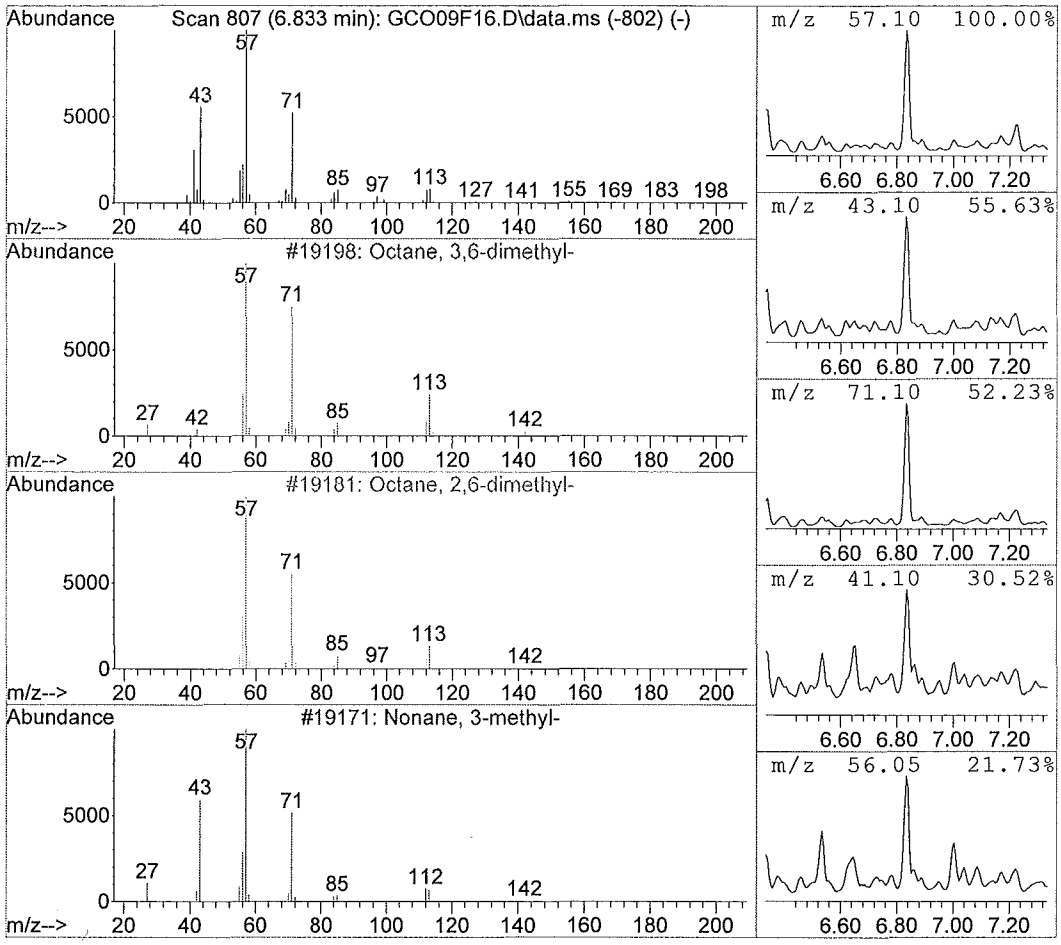
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.83	29.66 ug/ml	7023625	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 3,6-dimethyl- BA	19198	015869-94-0	72.00
2	Octane, 2,6-dimethyl-	19181	002051-30-1	72.00
3	Nonane, 3-methyl-	19171	005911-04-6	72.00
4	Sulfurous acid, 2-ethylhexyl nonyl	161093	1000309-19-2	64.00
5	Dodecane, 2,6,11-trimethyl-	71411	031295-56-4	59.00



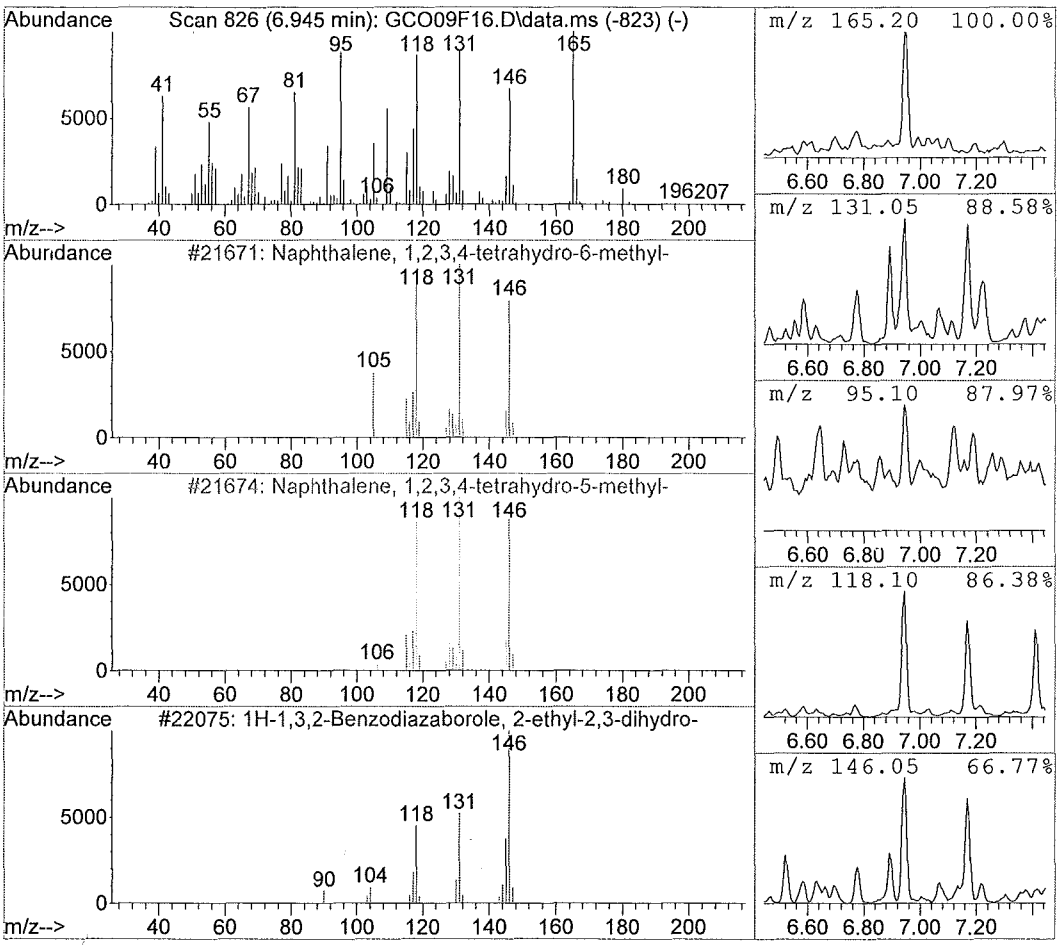
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.95	7.10 ug/ml	1681345	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-6-m	21671	001680-51-9	86.00
2	Naphthalene, 1,2,3,4-tetrahydro-5-m	21674	002809-64-5	86.00
3	1H-1,3,2-Benzodiazaborole, 2-ethyl-	22075	074663-81-3	41.00
4	Benzene, 2-ethenyl-1,3,5-trimethyl-	21643	000769-25-5	41.00
5	4-Ethyl-2-hexynal	10488	071932-97-3	35.00



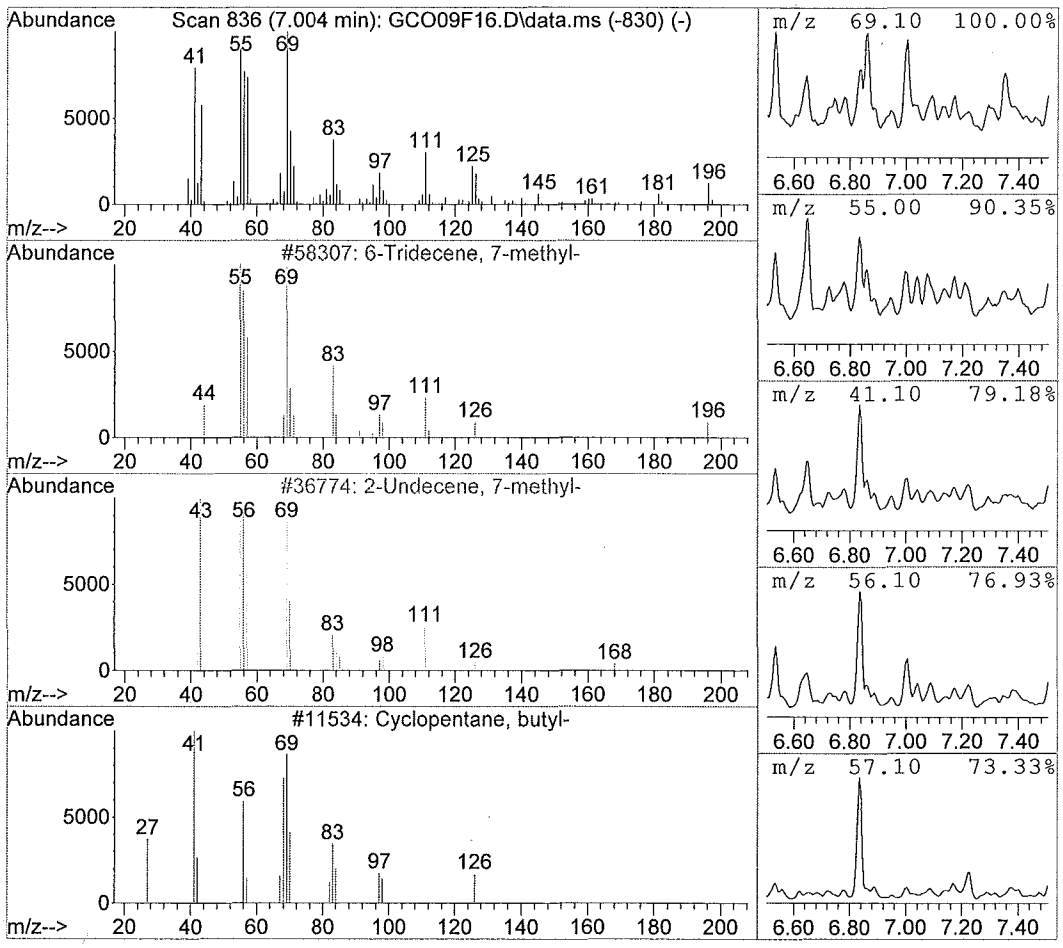
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.00	11.02 ug/ml	2610413	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	6-Tridecene, 7-methyl-	58307	024949-42-6	81.00
2	2-Undecene, 7-methyl-	36774	1000061-83-0	72.00
3	Cyclopentane, butyl-	11534	002040-95-1	64.00
4	3-Heptene, 2,6-dimethyl-	11558	002738-18-3	64.00
5	Cyclopropane, 1,2-dimethyl-1-pentyl	18055	062238-04-4	62.00



Library Search Compound Report

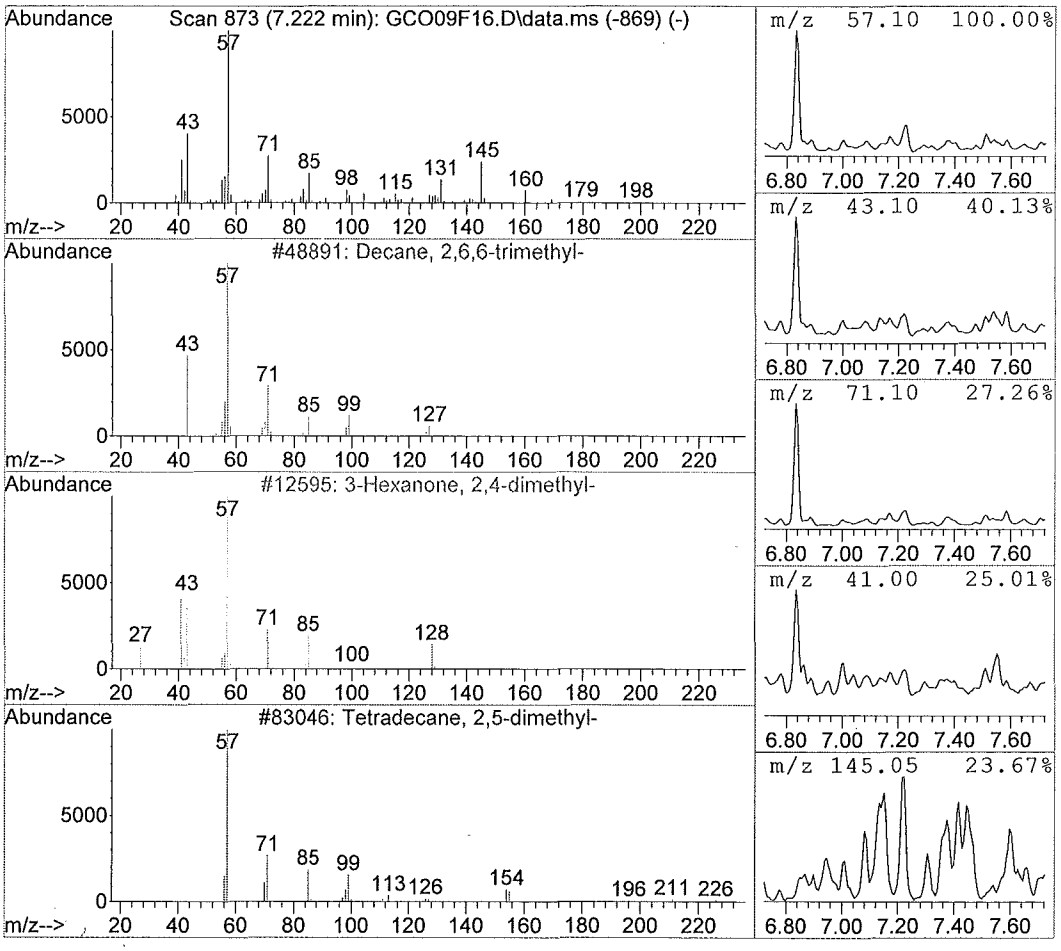
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.22	14.66 ug/ml	3471120	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 2,6,6-trimethyl-	48891	062108-24-1	38.00
2	3-Hexanone, 2,4-dimethyl-	12595	018641-70-8	38.00
3	Tetradecane, 2,5-dimethyl-	83046	056292-69-4	35.00
4	Sulfurous acid, butyl dodecyl ester	149369	1000309-17-9	35.00
5	Undecane, 5-ethyl-	48841	017453-94-0	35.00

DA



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Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
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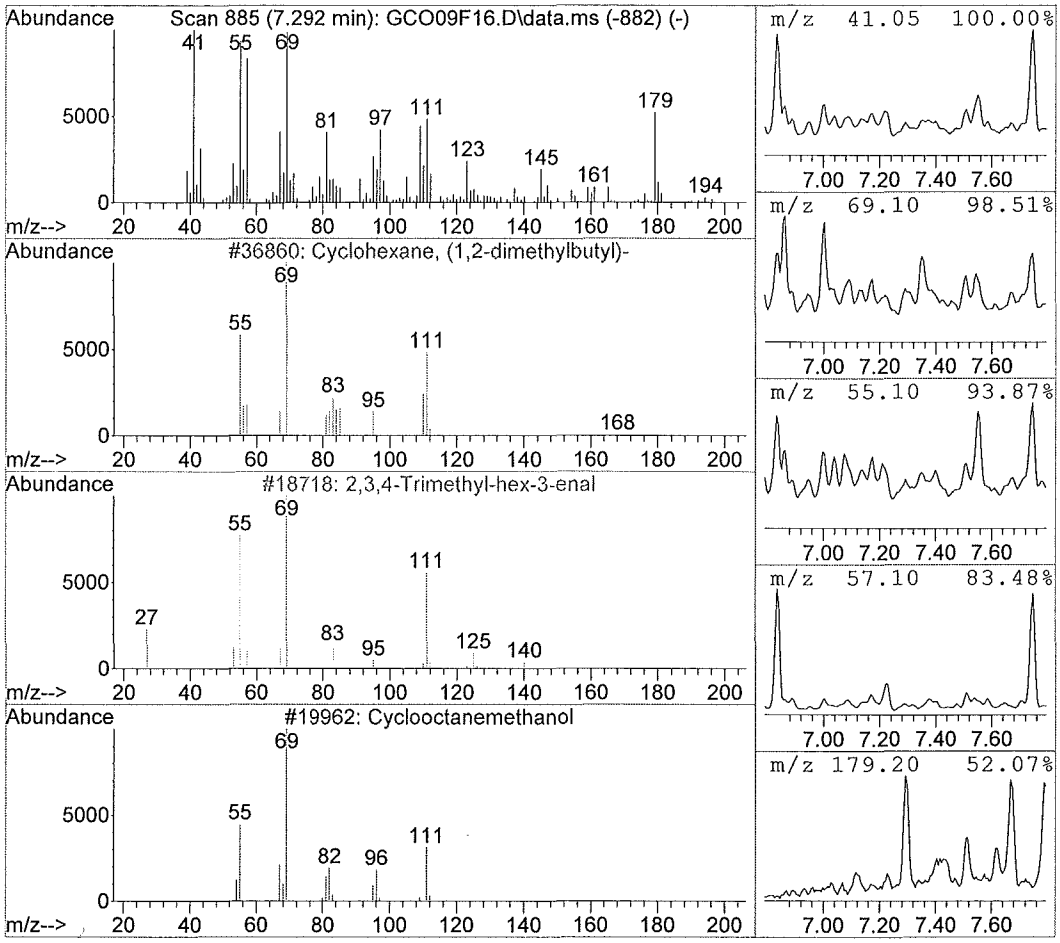
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.29	3.51 ug/ml	832160	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, (1,2-dimethylbutyl)- CA	36860	061142-37-8	38.00
2	2,3,4-Trimethyl-hex-3-enal	18718	1000193-72-9	30.00
3	Cyclooctanemethanol	19962	003637-63-6	27.00
4	1-Hexyl-2-nitrocyclohexane	71860	118252-04-3	27.00
5	Triallylsilane	26142	001116-62-7	27.00



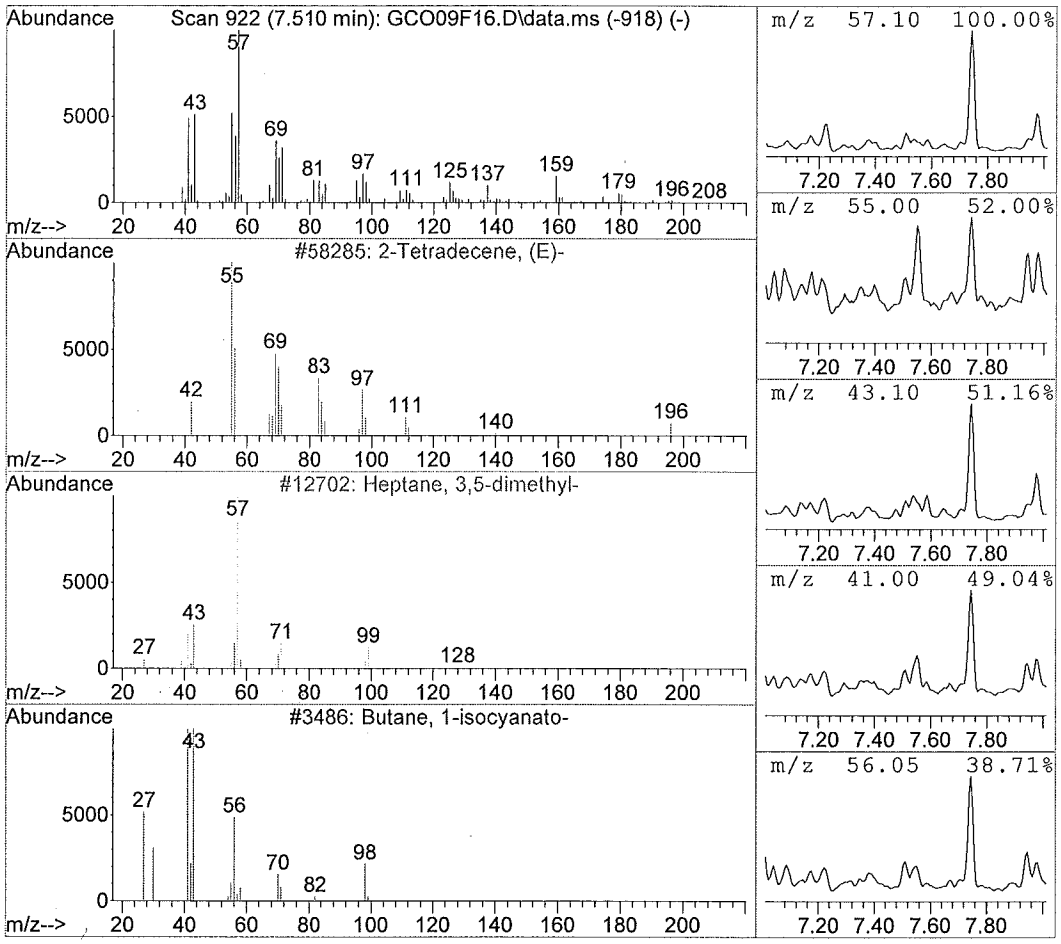
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.51	7.38 ug/ml	1747197	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Tetradecene, (E)-	58285	035953-54-9	64.00
2	Heptane, 3,5-dimethyl-	12702	000926-82-9	47.00
3	Butane, 1-isocyanato-	3486	000111-36-4	30.00
4	1,1-Dichloronon-1-ene	56928	1000305-38-0	27.00
5	1-Decene	17936	000872-05-9	25.00



Library Search Compound Report

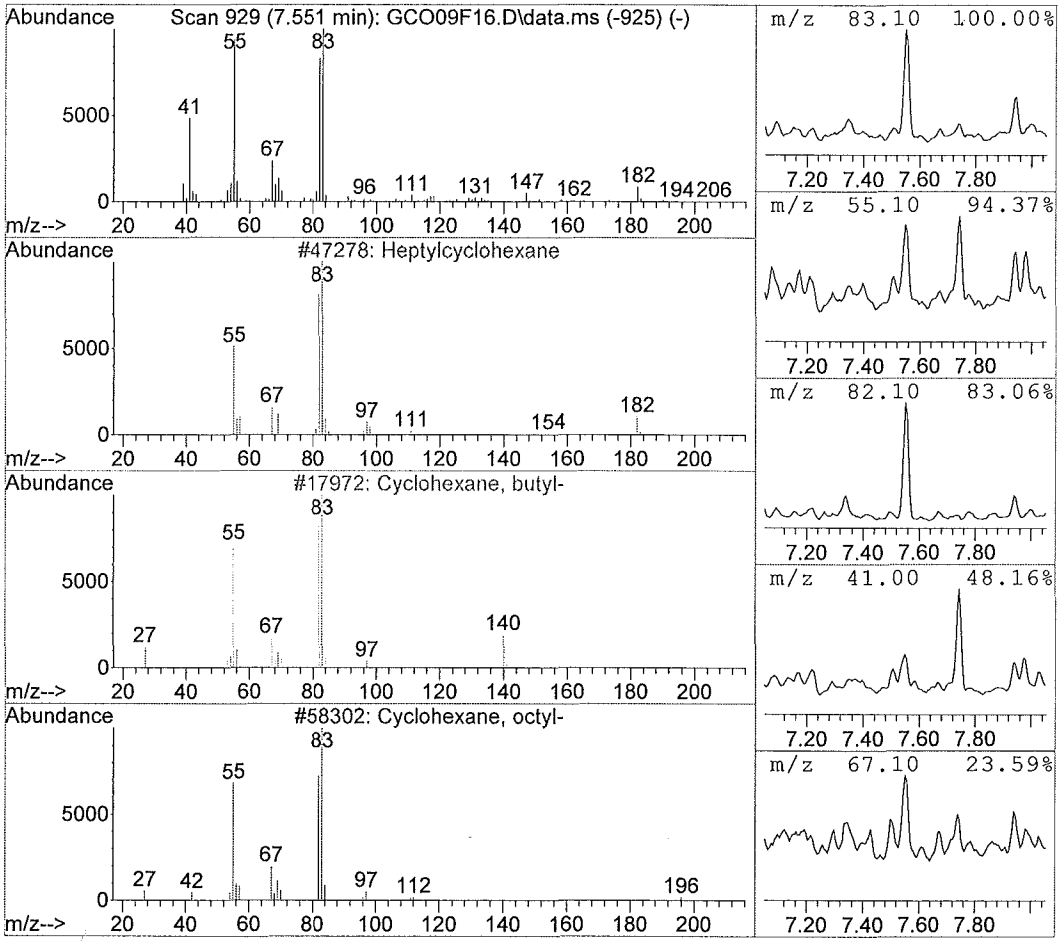
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.55	10.71 ug/ml	2535867	Naphthalene-d8	4735577

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptylcyclohexane	47278	005617-41-4	87.00
2	Cyclohexane, butyl-	17972	001678-93-9	78.00
3	Cyclohexane, octyl-	58302	001795-15-9	78.00
4	Cyclohexane, undecyl-	92571	054105-66-7	72.00
5	Cyclohexane, pentyl-	27052	004292-92-6	72.00

CA



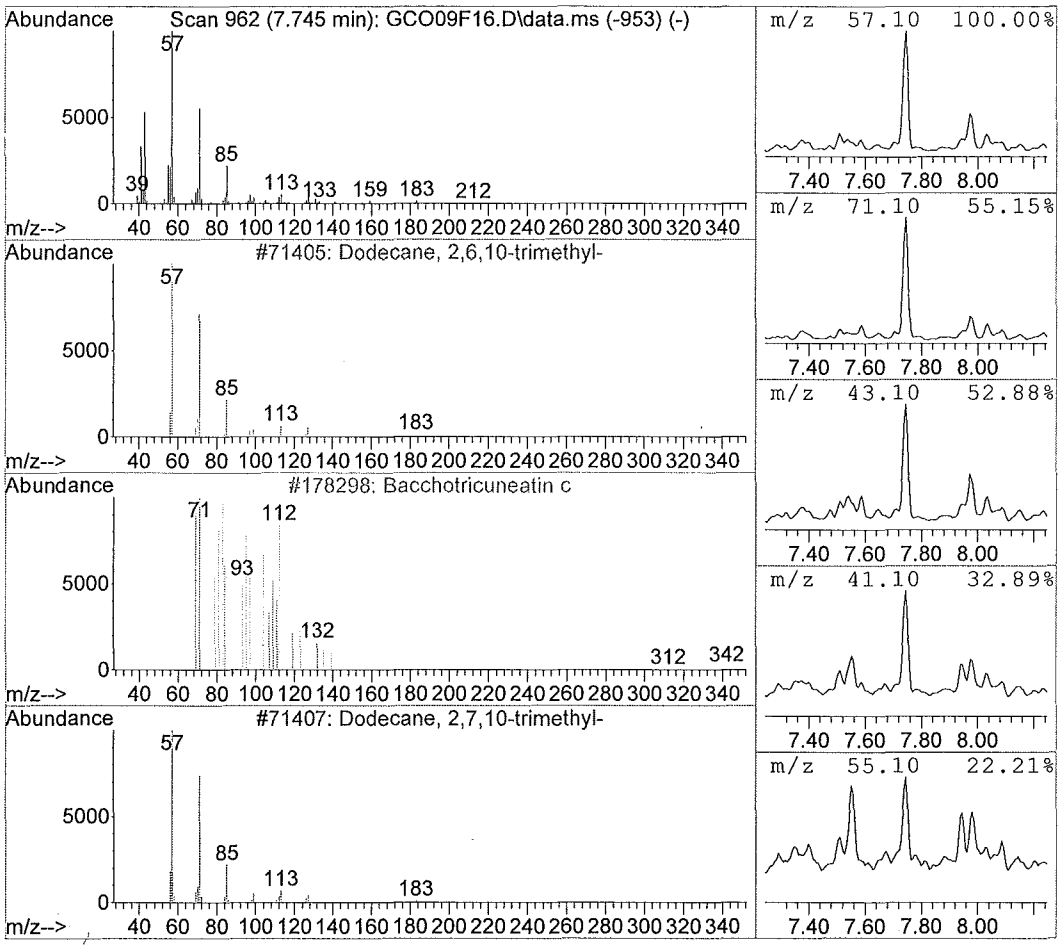
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.75	40.05 ug/ml	8701312	Acenaphthene-d10	4344951

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2,6,10-trimethyl-	71405	003891-98-3	86.00
2	Bacchotricuneatin c BA	178298	066563-30-2	81.00
3	Dodecane, 2,7,10-trimethyl-	71407	074645-98-0	80.00
4	Dodecane, 2,6,11-trimethyl-	71408	031295-56-4	62.00
5	Nonane, 5-butyl-	48836	017312-63-9	52.00



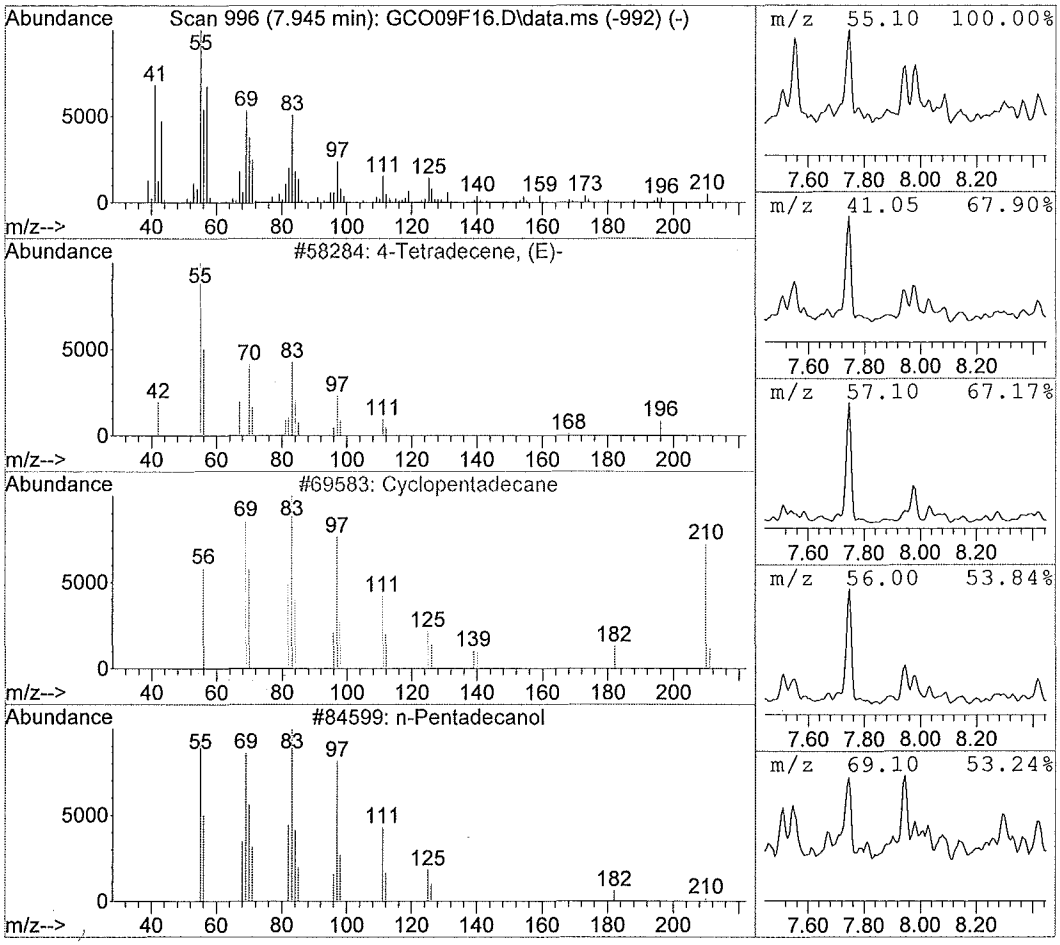
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.95	10.95 ug/ml	2379793	Acenaphthene-d10	4344951

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Tetradecene, (E)-	58284	041446-78-0	94.00
2	Cyclopentadecane	69583	000295-48-7	90.00
3	n-Pentadecanol	84599	000629-76-5	90.00
4	Cyclododecane, ethyl-	58304	028981-49-9	76.00
5	3-Tetradecene, (E)-	58294	041446-68-8	70.00



Library Search Compound Report

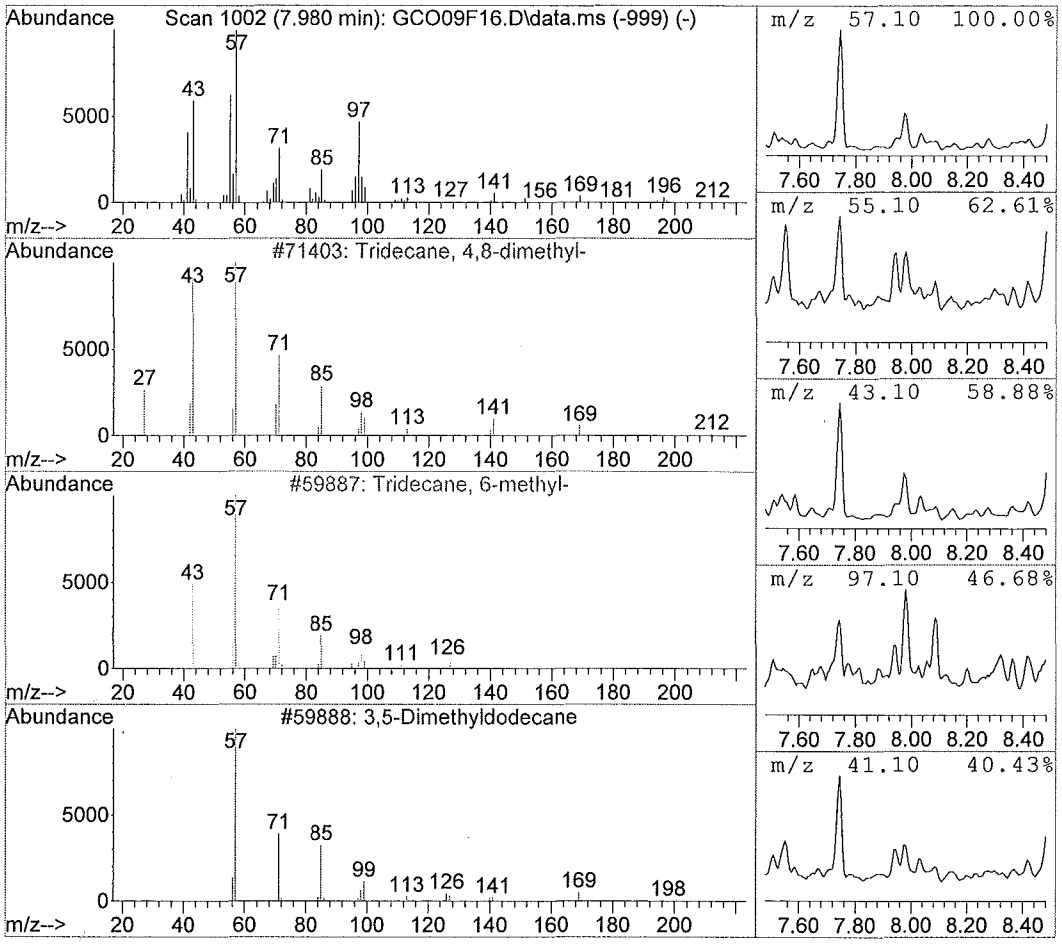
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.98	11.84 ug/ml	2572074	Acenaphthene-d10	4344951

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 4,8-dimethyl-	71403	055030-62-1	38.00
2	Tridecane, 6-methyl-	59887	013287-21-3	38.00
3	3,5-Dimethyldodecane	59888	107770-99-0	35.00
4	Ethanone, 1-(1-methylcyclohexyl)-	18753	002890-62-2	35.00
5	Hexane, 3-ethyl-2,5-dimethyl-	19229	052897-04-8	30.00

BA



Library Search Compound Report

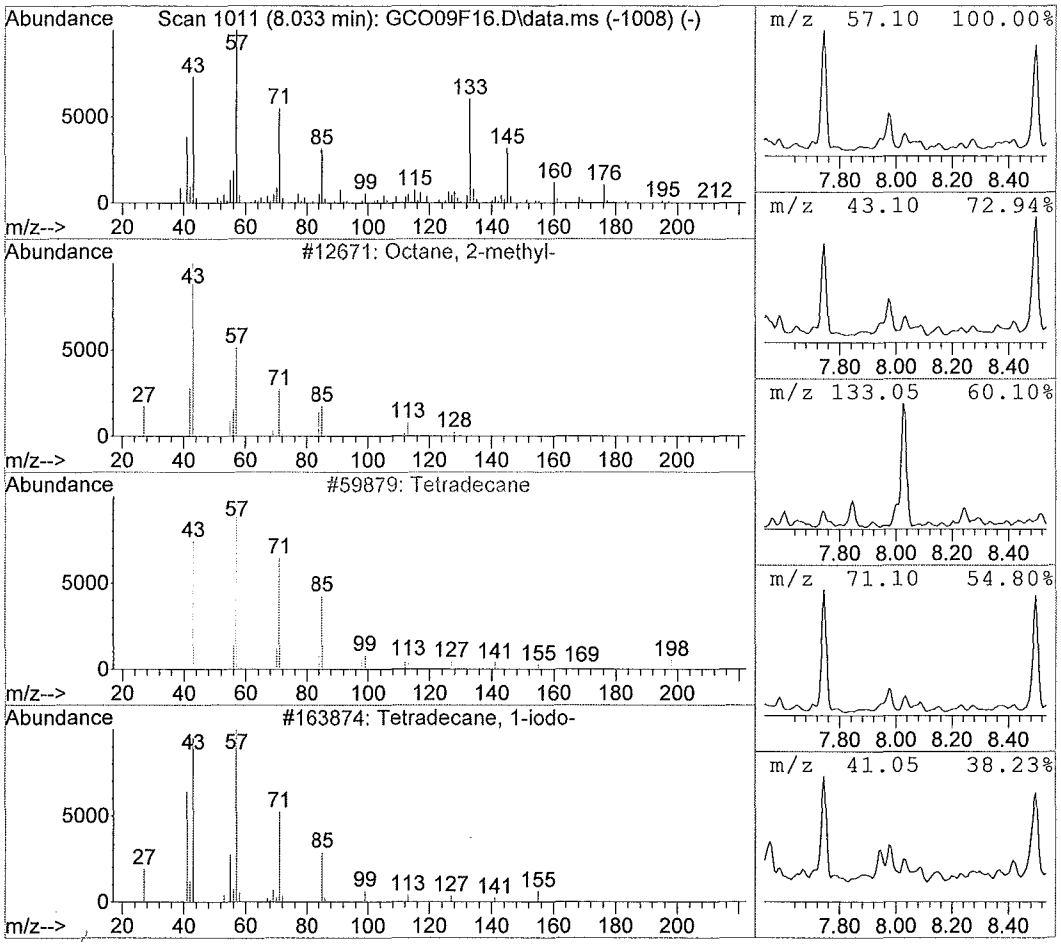
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.03	6.85 ug/ml	1487591	Acenaphthene-d10	4344951

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 2-methyl-	12671	003221-61-2	38.00
2	Tetradecane	59879	000629-59-4	38.00
3	Tetradecane, 1-iodo-	163874	019218-94-1	38.00
4	Hexadecane	83025	000544-76-3	38.00
5	Decane	19158	000124-18-5	38.00

BA



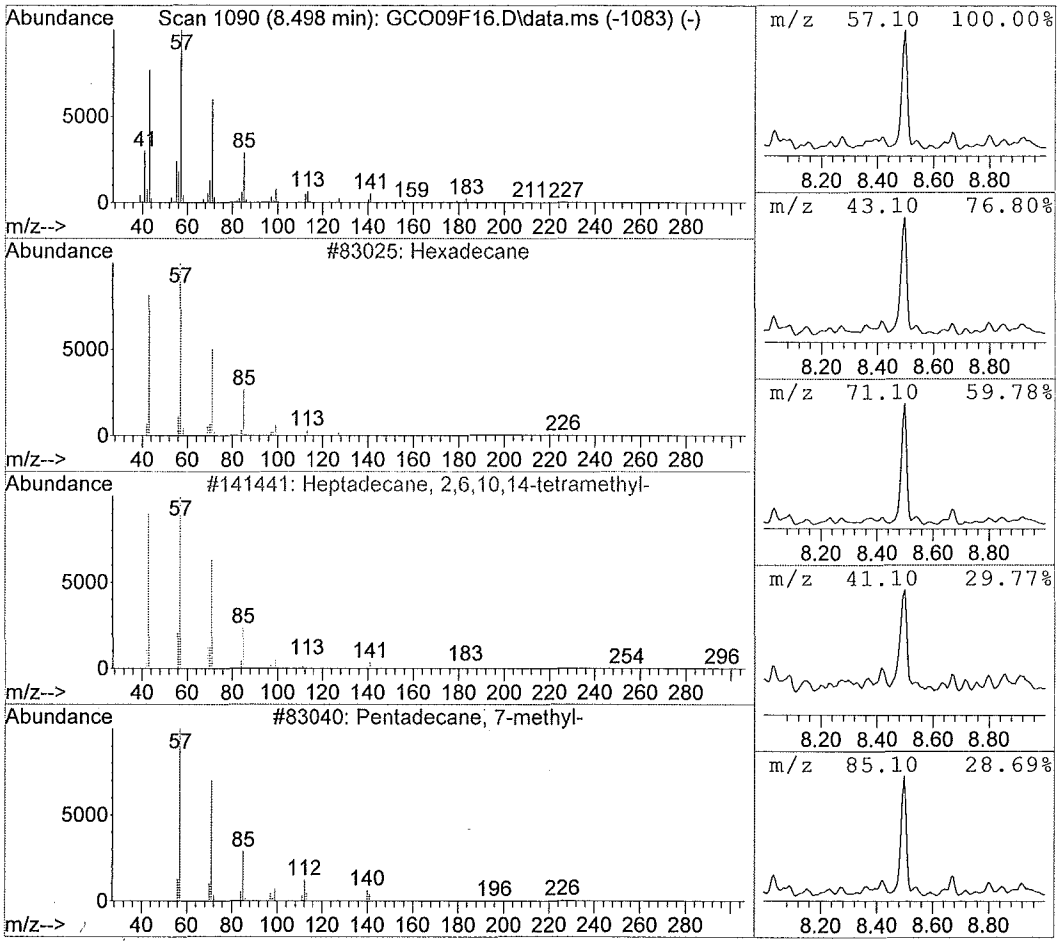
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.50	40.08 ug/ml	8708174	Acenaphthene-d10	4344951

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane ΣA	83025	000544-76-3	94.00
2	Heptadecane, 2,6,10,14-tetramethyl-	141441	018344-37-1	87.00
3	Pentadecane, 7-methyl-	83040	006165-40-8	87.00
4	Dodecane, 2-methyl-8-propyl-	83050	055045-07-3	83.00
5	Decane, 2,3,5-trimethyl-	48894	062238-11-3	80.00



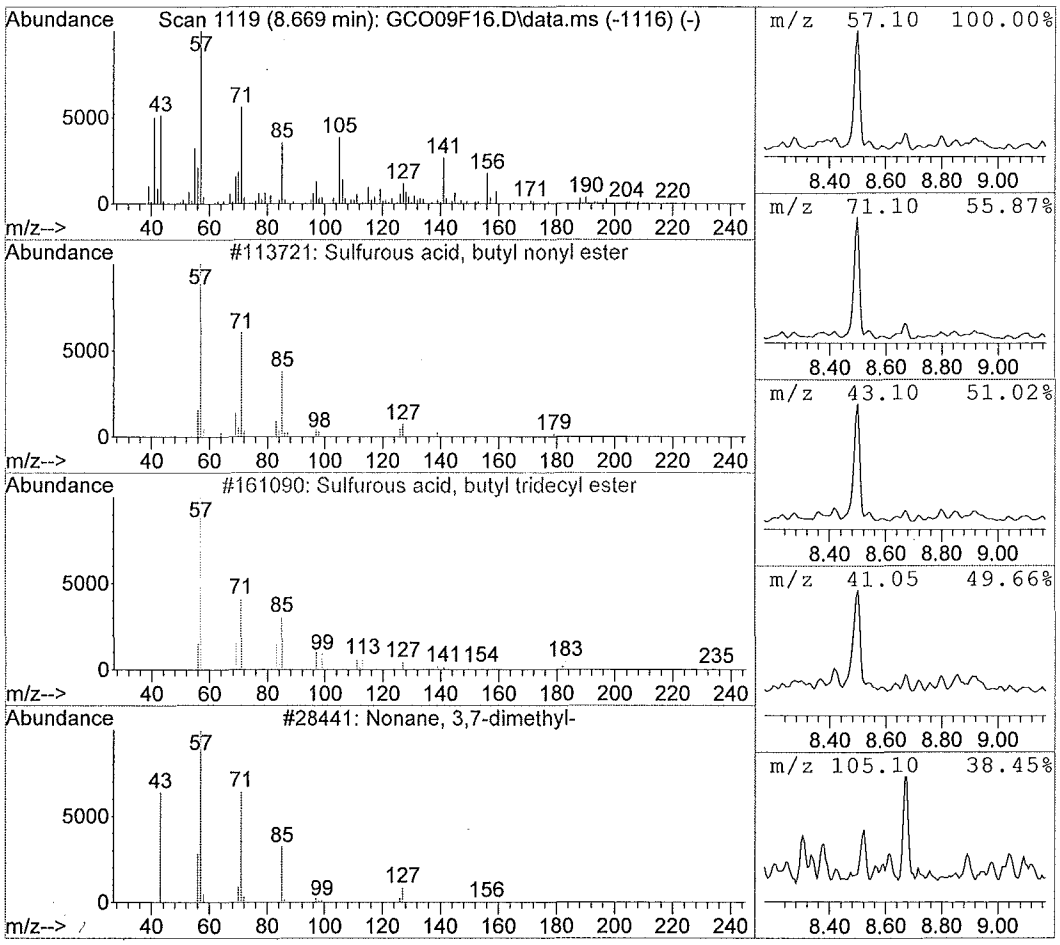
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.67	6.17 ug/ml	1341088	Acenaphthene-d10	4344951

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Sulfurous acid, butyl nonyl ester	113721	1000309-17-6	58.00
2	Sulfurous acid, butyl tridecyl este	161090	1000309-18-0	53.00
3	Nonane, 3,7-dimethyl-	28441	017302-32-8	50.00
4	3,5-Dimethyldodecane	59888	107770-99-0	47.00
5	Decane, 3-methyl-	28436	013151-34-3	47.00



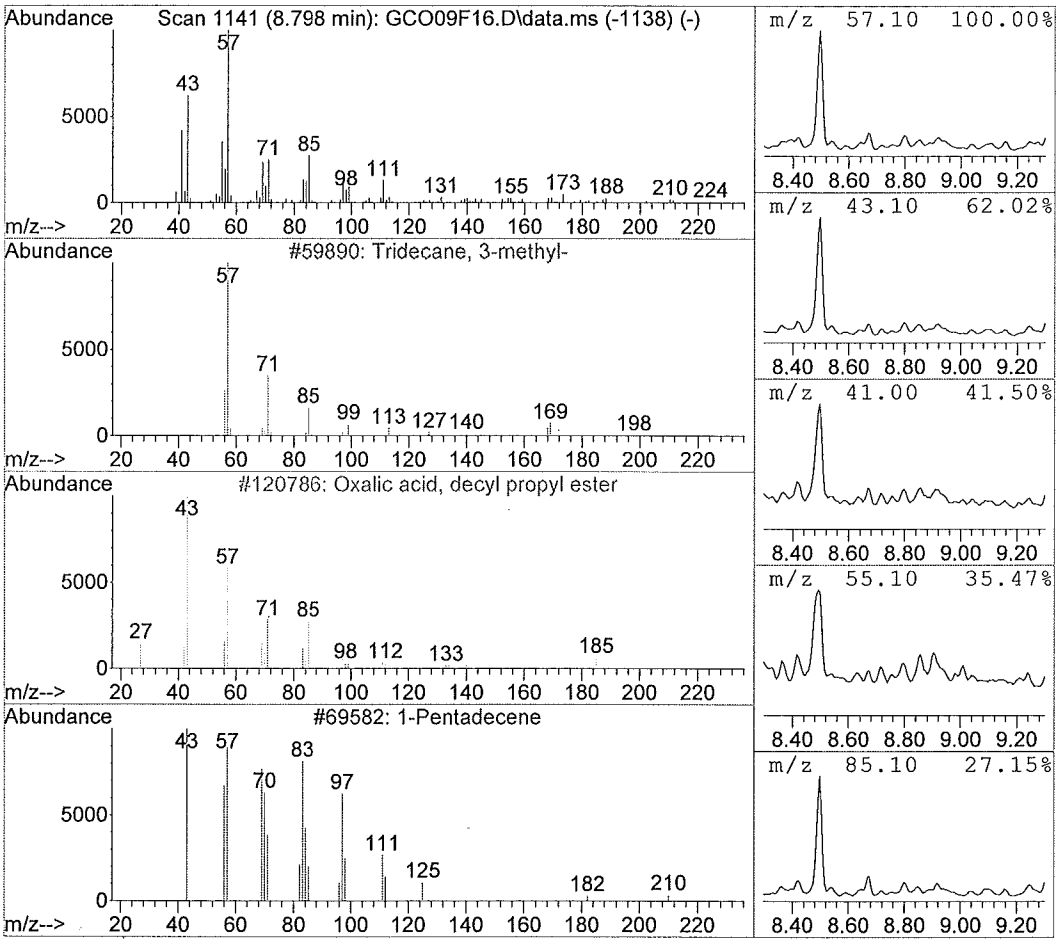
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.80	4.05 ug/ml	879149	Acenaphthene-d10	4344951

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 3-methyl-	59890	006418-41-3	47.00
2	Oxalic acid, decyl propyl ester BA	120786	1000309-26-3	43.00
3	1-Pentadecene	69582	013360-61-7	43.00
4	Hexane, 2,3,5-trimethyl-	12718	001069-53-0	43.00
5	Heptane, 2,5-dimethyl-	12700	002216-30-0	43.00



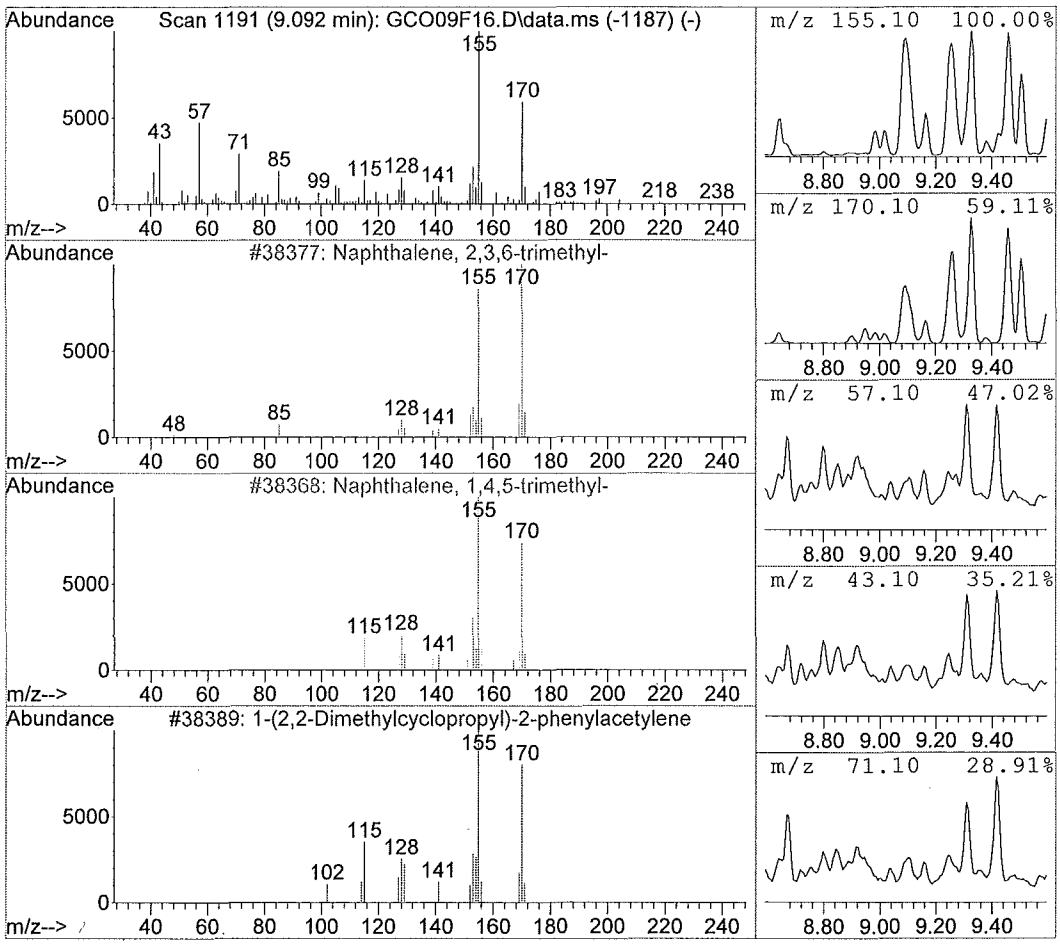
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.09	7.56 ug/ml	1643363	Acenaphthene-d10	4344951

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	38377	000829-26-5	94.00
2	Naphthalene, 1,4,5-trimethyl-	38368	002131-41-1	90.00
3	1-(2,2-Dimethylcyclopropyl)-2-pheny	38389	1000294-91-1	90.00
4	Naphthalene, 1-(1-methylethyl)-	38379	006158-45-8	90.00
5	3-(2-Methyl-propenyl)-1H-indene	38380	1000187-78-5	90.00



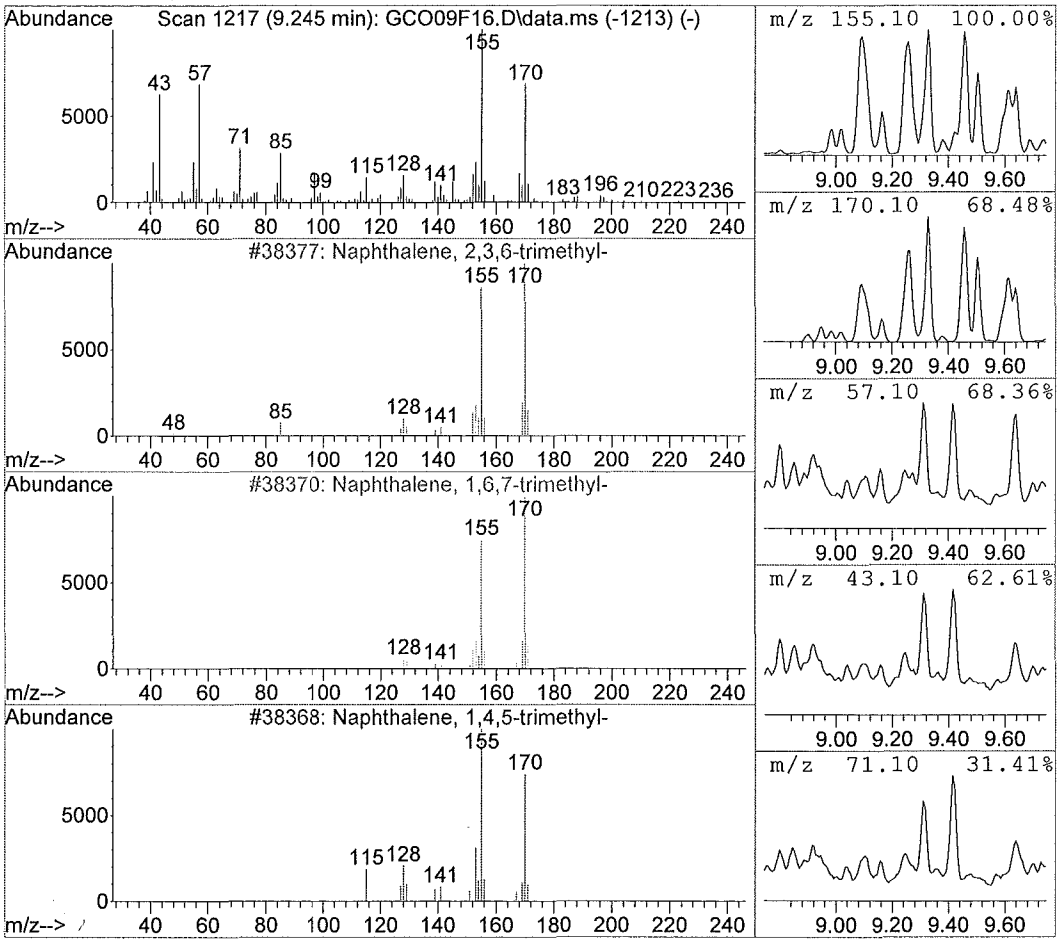
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.25	7.70 ug/ml	1673691	Acenaphthene-d10	4344951

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	38377	000829-26-5	91.00
2	Naphthalene, 1,6,7-trimethyl-	38370	002245-38-7	81.00
3	Naphthalene, 1,4,5-trimethyl-	38368	002131-41-1	81.00
4	Naphthalene, 1-(1-methylethyl)-	38379	006158-45-8	76.00
5	Naphthalene, 1,4,6-trimethyl-	38378	002131-42-2	76.00



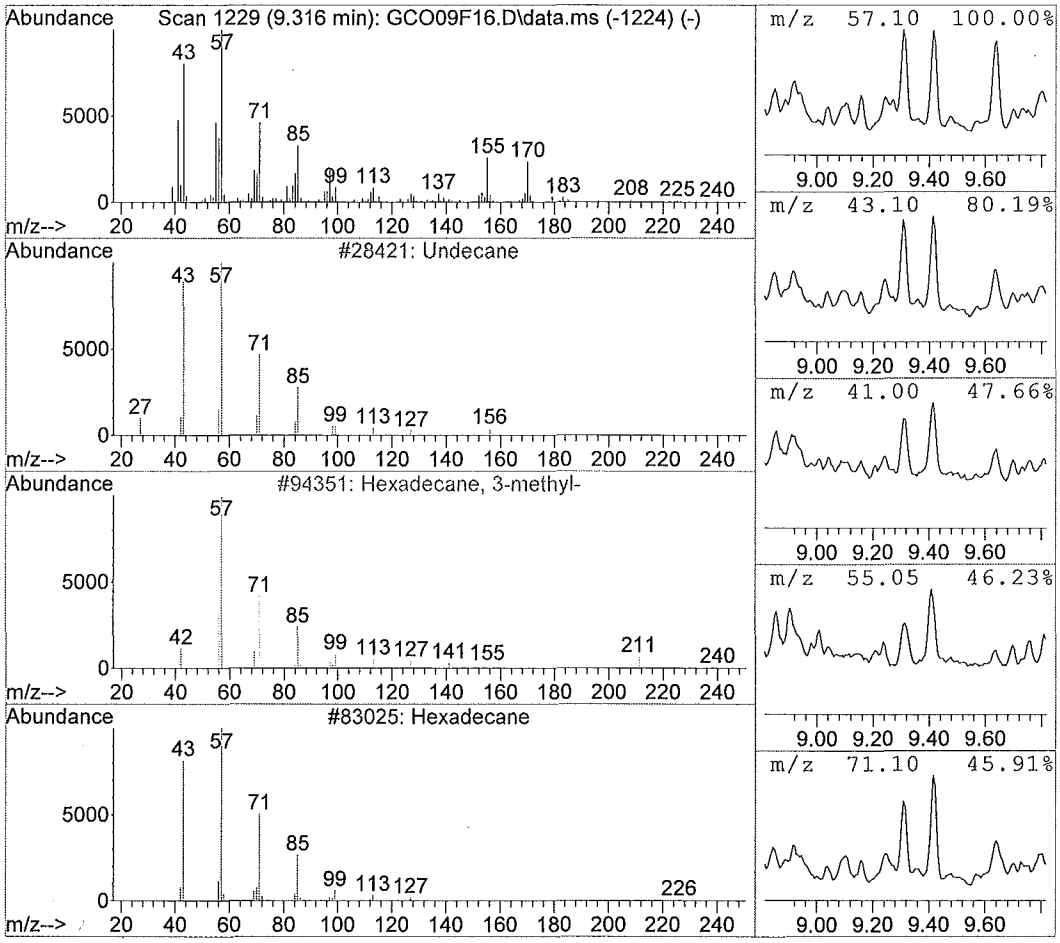
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.32	13.80 ug/ml	2998296	Acenaphthene-d10	4344951

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1 Undecane	5A	28421	001120-21-4	60.00
2 Hexadecane, 3-methyl-		94351	006418-43-5	58.00
3 Hexadecane		83025	000544-76-3	55.00
4 Dodecane		38315	000112-40-3	52.00
5 Decane		19156	000124-18-5	52.00



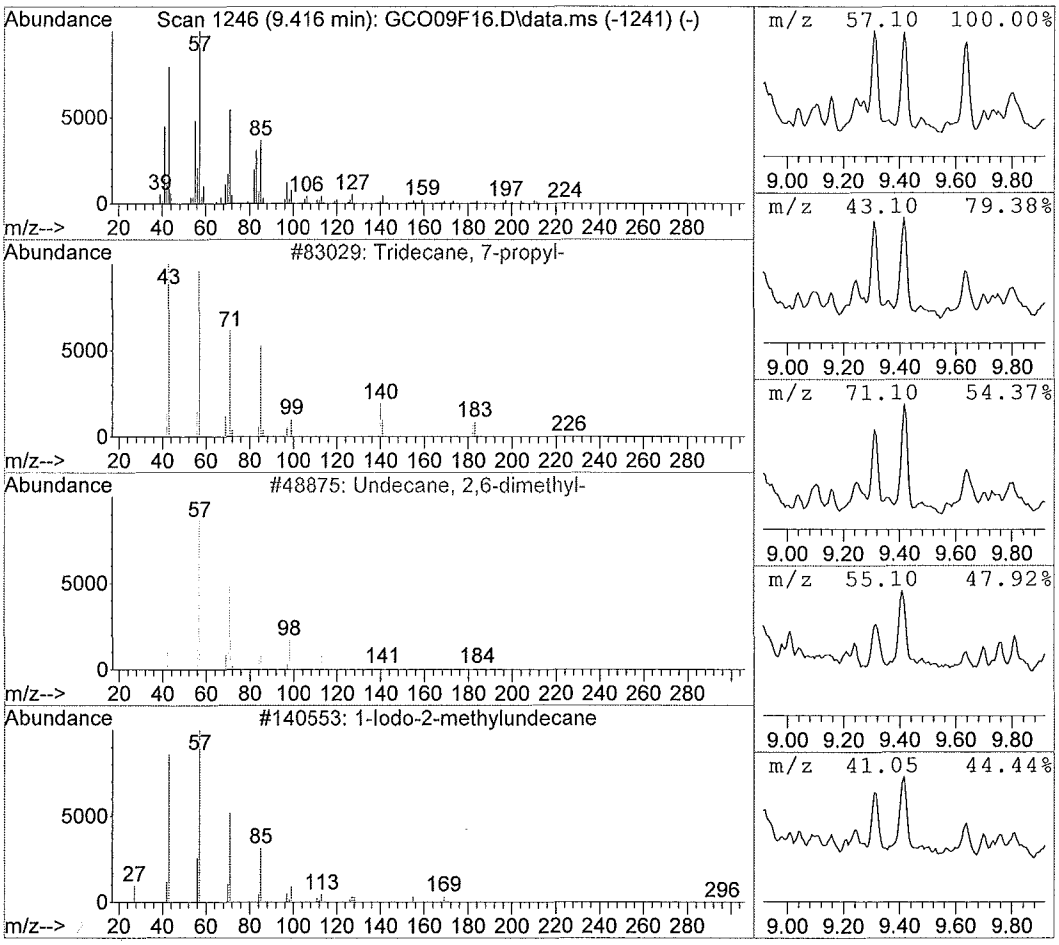
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.42	10.65 ug/ml	2314438	Acenaphthene-d10	4344951

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 7-propyl-	83029	055045-09-5	78.00
2	Undecane, 2,6-dimethyl- BA	48875	017301-23-4	55.00
3	1-Iodo-2-methylundecane	140553	073105-67-6	53.00
4	Nonane, 5-butyl-	48837	017312-63-9	50.00
5	Tetradecane	59881	000629-59-4	47.00



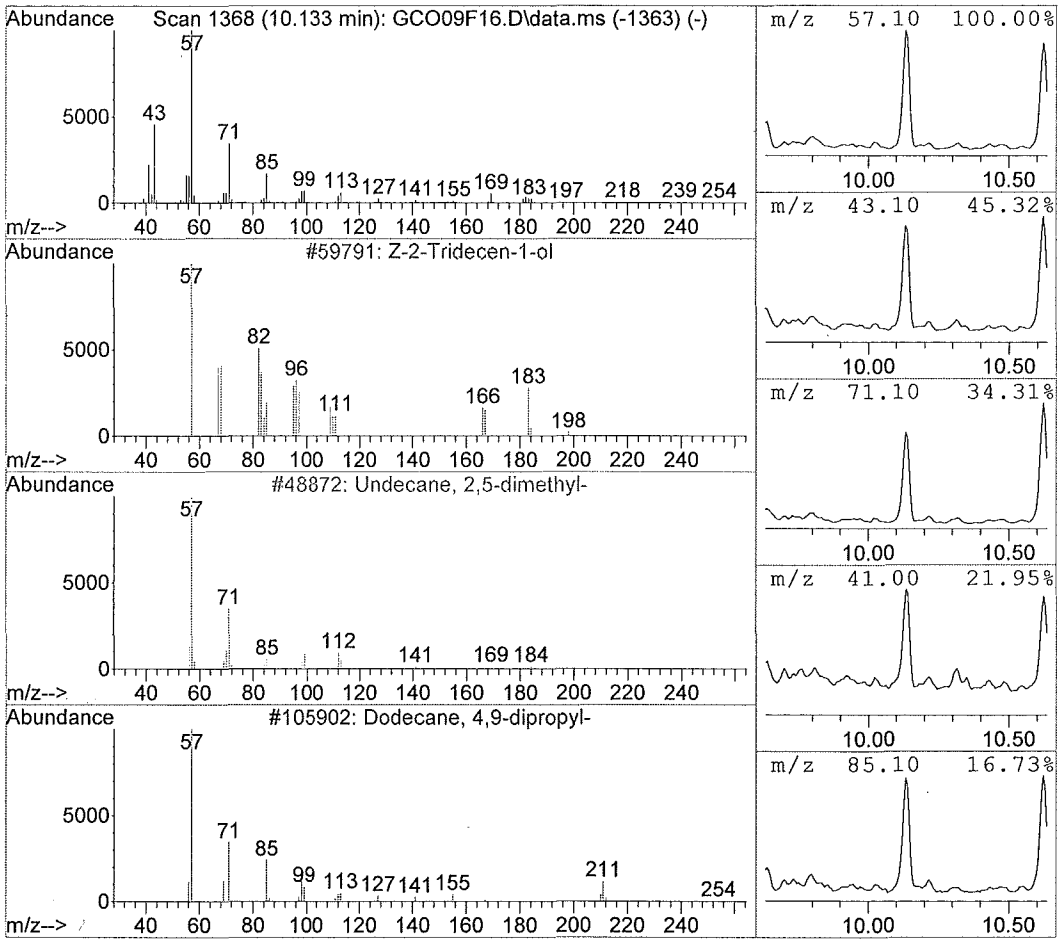
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.13	29.04 ug/ml	6309169	Acenaphthene-d10	4344951

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Z-2-Tridecen-1-ol	59791	1000130-75-8	92.00
2	Undecane, 2,5-dimethyl-	48872	017301-22-3	81.00
3	Dodecane, 4,9-dipropyl-	105902	003054-63-5	80.00
4	Pentadecane, 2,6,10-trimethyl-	105904	003892-00-0	74.00
5	Tridecane	48834	000629-50-5	74.00



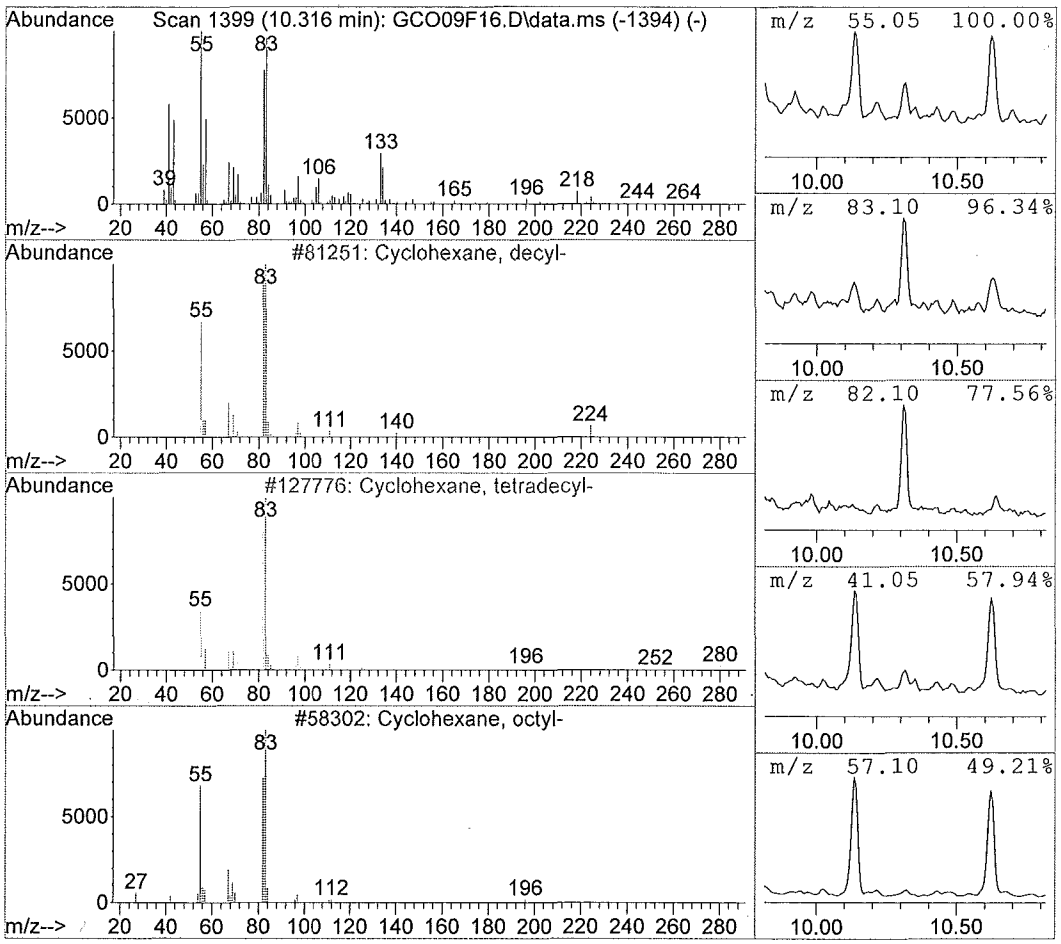
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.32	6.33 ug/ml	1089320	Phenanthrene-d10	3440488

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, decyl- CA	81251	001795-16-0	64.00
2	Cyclohexane, tetradecyl-	127776	001795-18-2	59.00
3	Cyclohexane, octyl-	58302	001795-15-9	58.00
4	Cyclohexane, propyl-	11540	001678-92-8	53.00
5	Cyclohexane, nonadecyl-	184205	022349-03-7	53.00



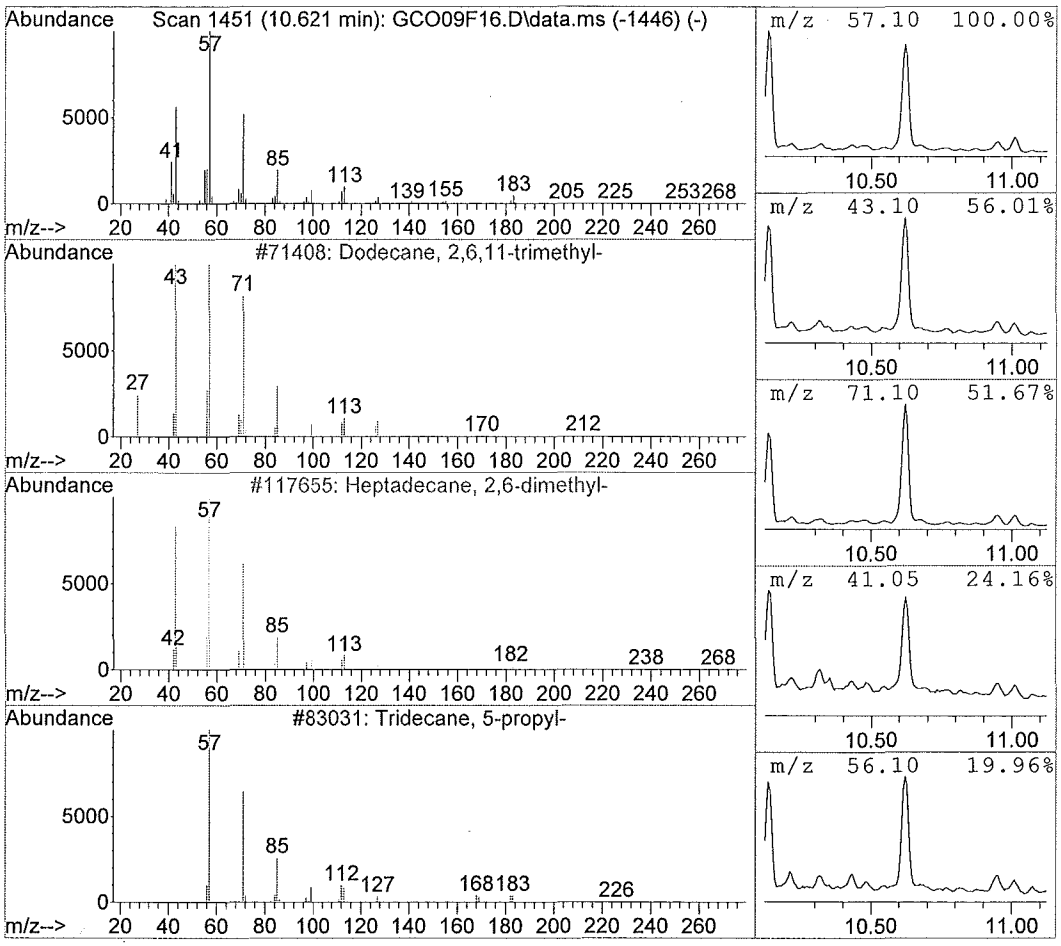
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.62	37.05 ug/ml	6373962	Phenanthrene-d10	3440488

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2,6,11-trimethyl- BA	71408	031295-56-4	91.00
2	Heptadecane, 2,6-dimethyl-	117655	054105-67-8	91.00
3	Tridecane, 5-propyl-	83031	055045-11-9	80.00
4	Undecane, 6-ethyl-	48842	017312-60-6	76.00
5	Undecane, 3,6-dimethyl-	48867	017301-28-9	72.00



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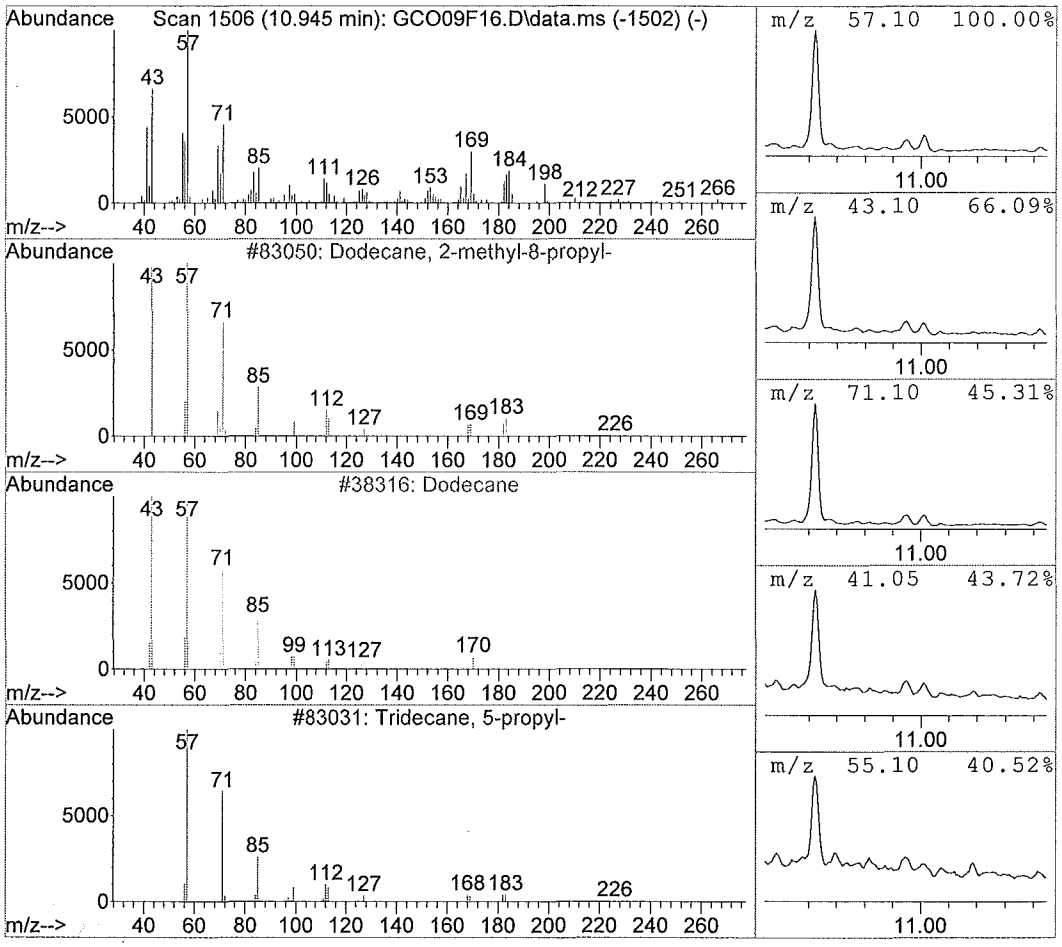
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.94	4.79 ug/ml	823185	Phenanthrene-d10	3440488

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2-methyl-8-propyl- BA	83050	055045-07-3	49.00
2	Dodecane	38316	000112-40-3	46.00
3	Tridecane, 5-propyl-	83031	055045-11-9	43.00
4	Tetradecane, 4,11-dimethyl-	83048	055045-12-0	43.00
5	Tetradecane	59879	000629-59-4	43.00



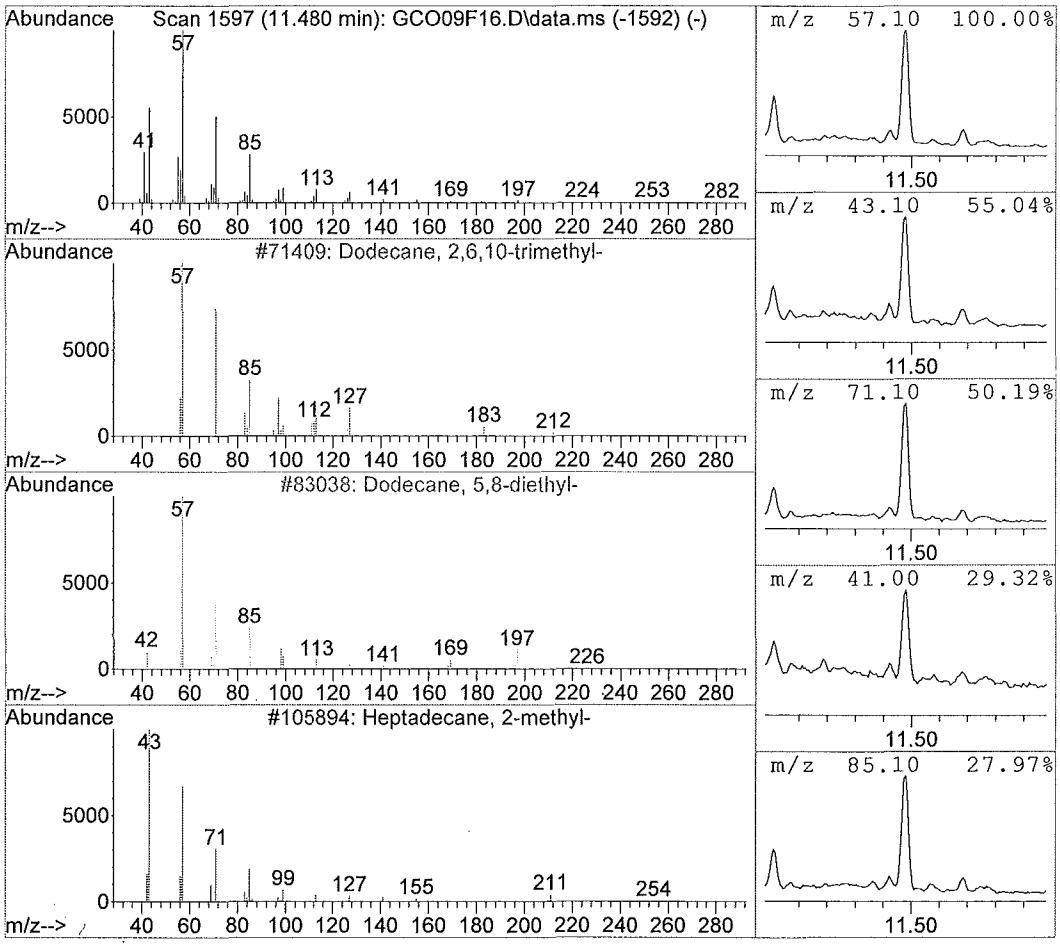
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.48	12.64 ug/ml	2174034	Phenanthrene-d10	3440488

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2,6,10-trimethyl-	71409	003891-98-3	91.00
2	Dodecane, 5,8-diethyl- BA	83038	024251-86-3	87.00
3	Heptadecane, 2-methyl-	105894	001560-89-0	83.00
4	Octadecane, 2-methyl-	117646	001560-88-9	80.00
5	2-Bromo dodecane	100330	013187-99-0	76.00



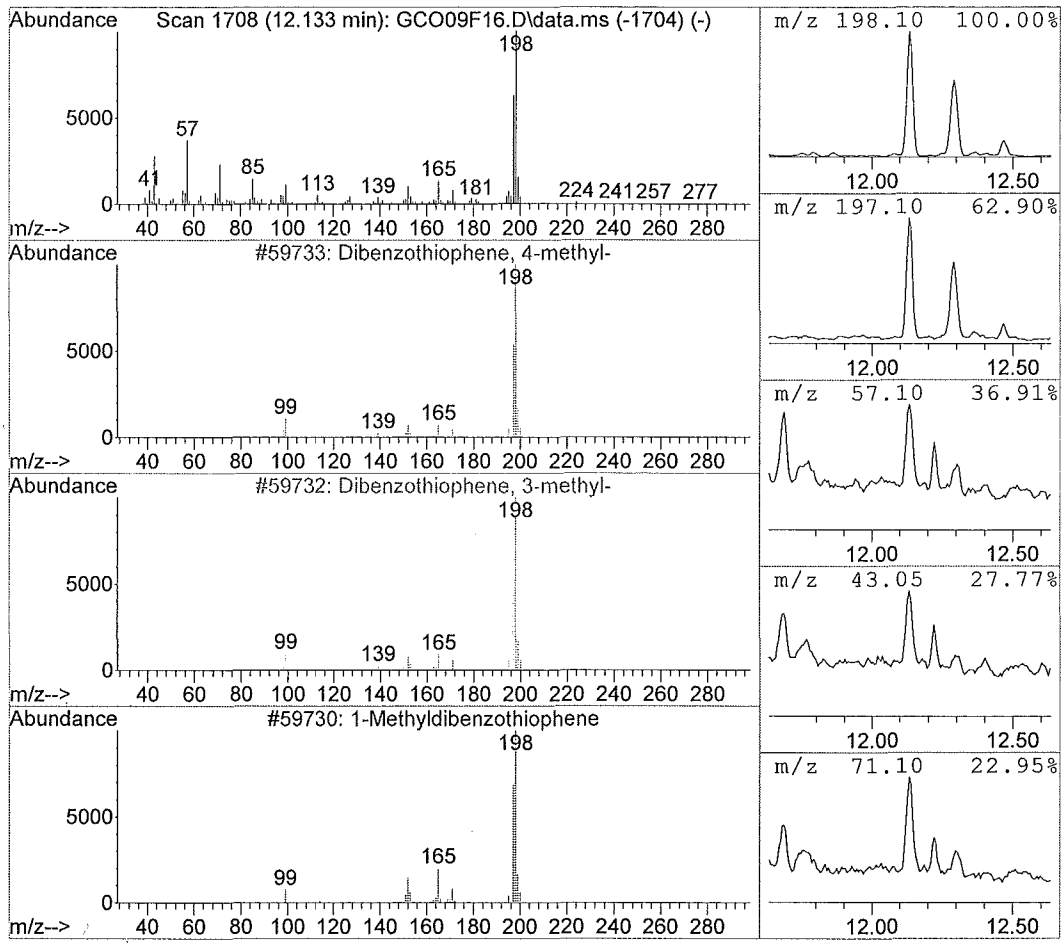
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.13	7.18 ug/ml	1235082	Phenanthrene-d10	3440488

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	59733	007372-88-5	96.00
2	Dibenzothiophene, 3-methyl-	59732	016587-52-3	95.00
3	1-Methyldibenzothiophene	59730	031317-07-4	90.00
4	Benzenamine, 4,4'-methylenebis-	59745	000101-77-9	68.00
5	Benzene, 1-fluoro-4-(2-phenyletheny	59815	017404-69-2	59.00



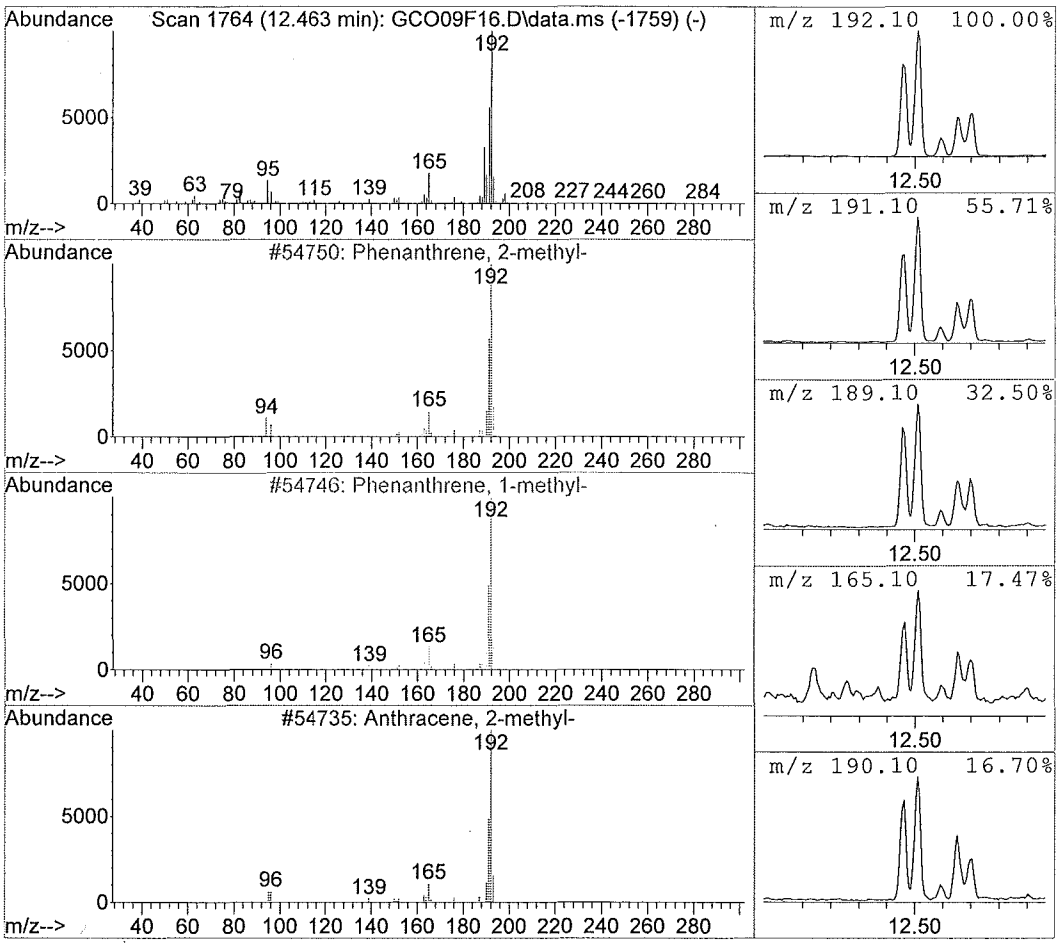
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.46	9.70 ug/ml	1668759	Phenanthrene-d10	3440488

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2-methyl-	54750	002531-84-2	97.00
2	Phenanthrene, 1-methyl-	54746	000832-69-9	96.00
3	Anthracene, 2-methyl-	54735	000613-12-7	96.00
4	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	95.00
5	Anthracene, 9-methyl-	54731	000779-02-2	91.00



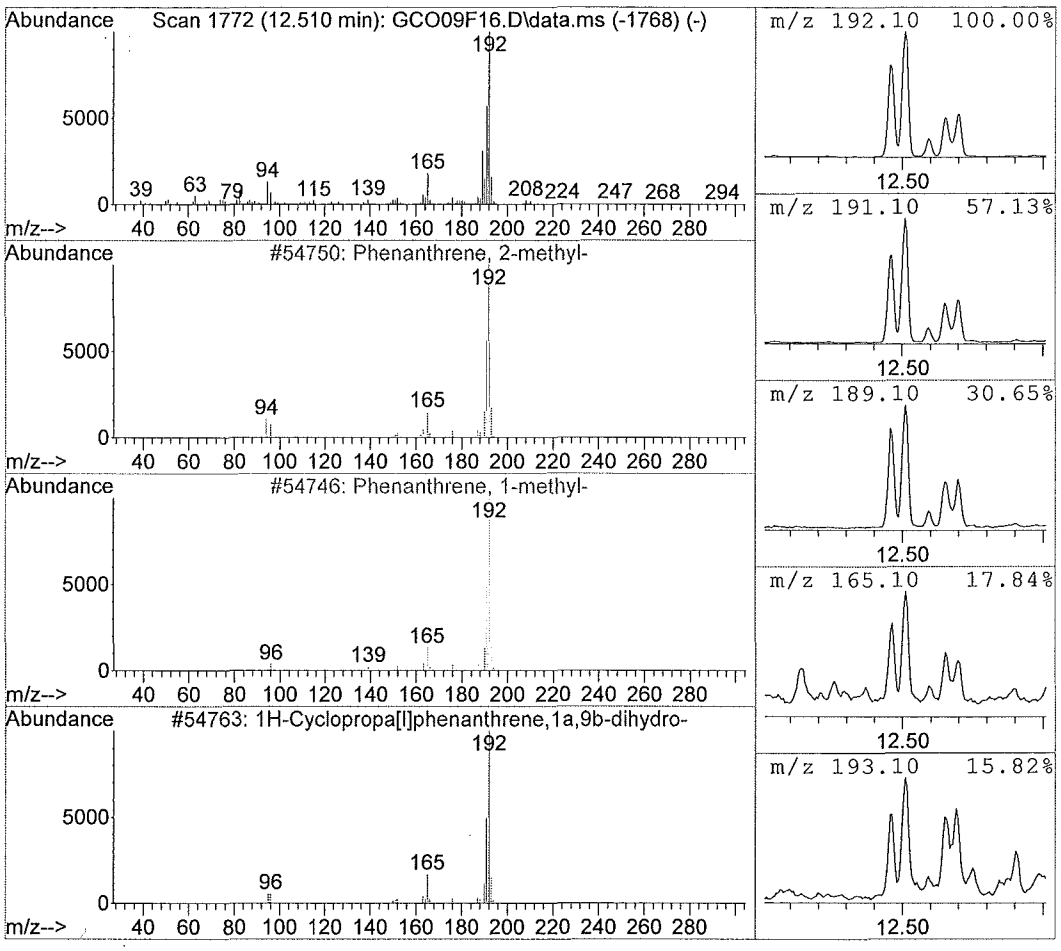
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.51	15.67 ug/ml	2696058	Phenanthrene-d10	3440488

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2-methyl-	54750	002531-84-2	98.00
2	Phenanthrene, 1-methyl-	54746	000832-69-9	97.00
3	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	96.00
4	Anthracene, 2-methyl-	54734	000613-12-7	95.00
5	Anthracene, 1-methyl-	54732	000610-48-0	94.00



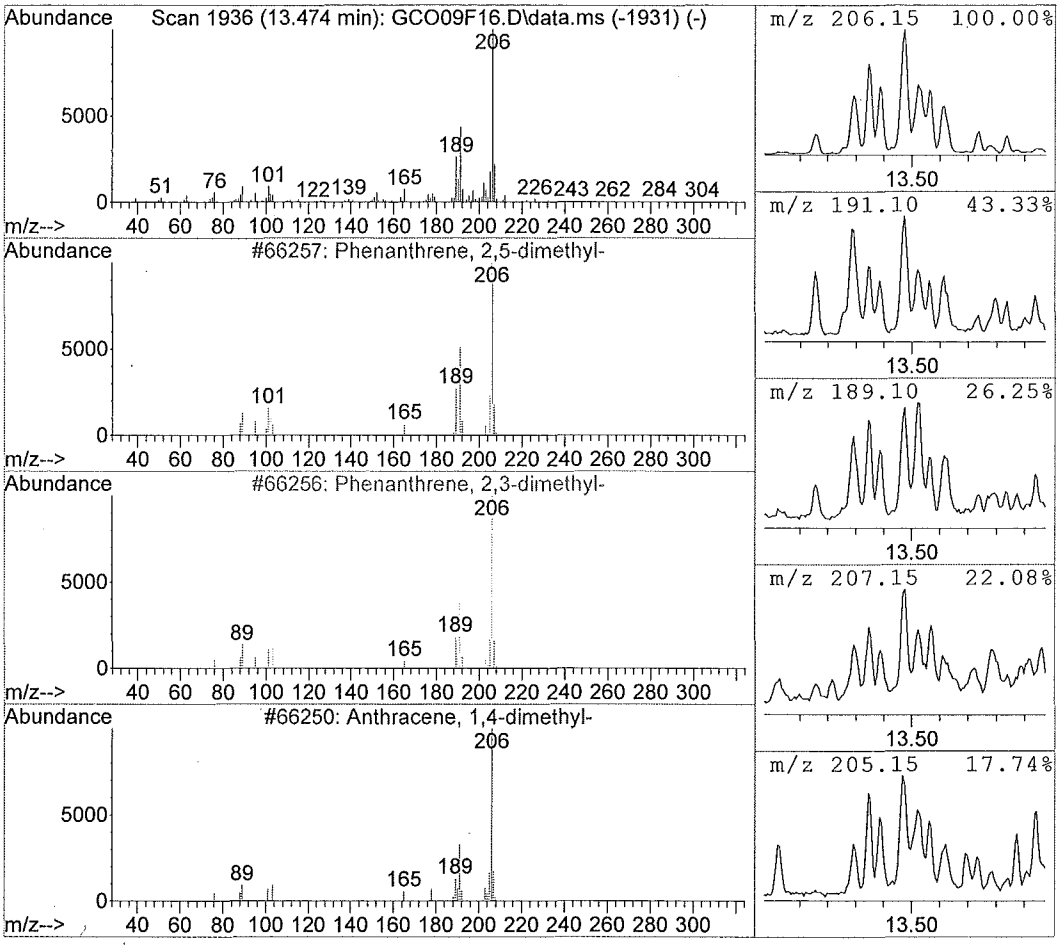
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.47	6.70 ug/ml	1152528	Phenanthrene-d10	3440488

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	66257	003674-66-6	95.00
2	Phenanthrene, 2,3-dimethyl-	66256	003674-65-5	93.00
3	Anthracene, 1,4-dimethyl-	66250	000781-92-0	91.00
4	9,10-Dimethylanthracene	66249	000781-43-1	87.00
5	Phenanthrene, 2,7-dimethyl-	66262	001576-69-8	87.00



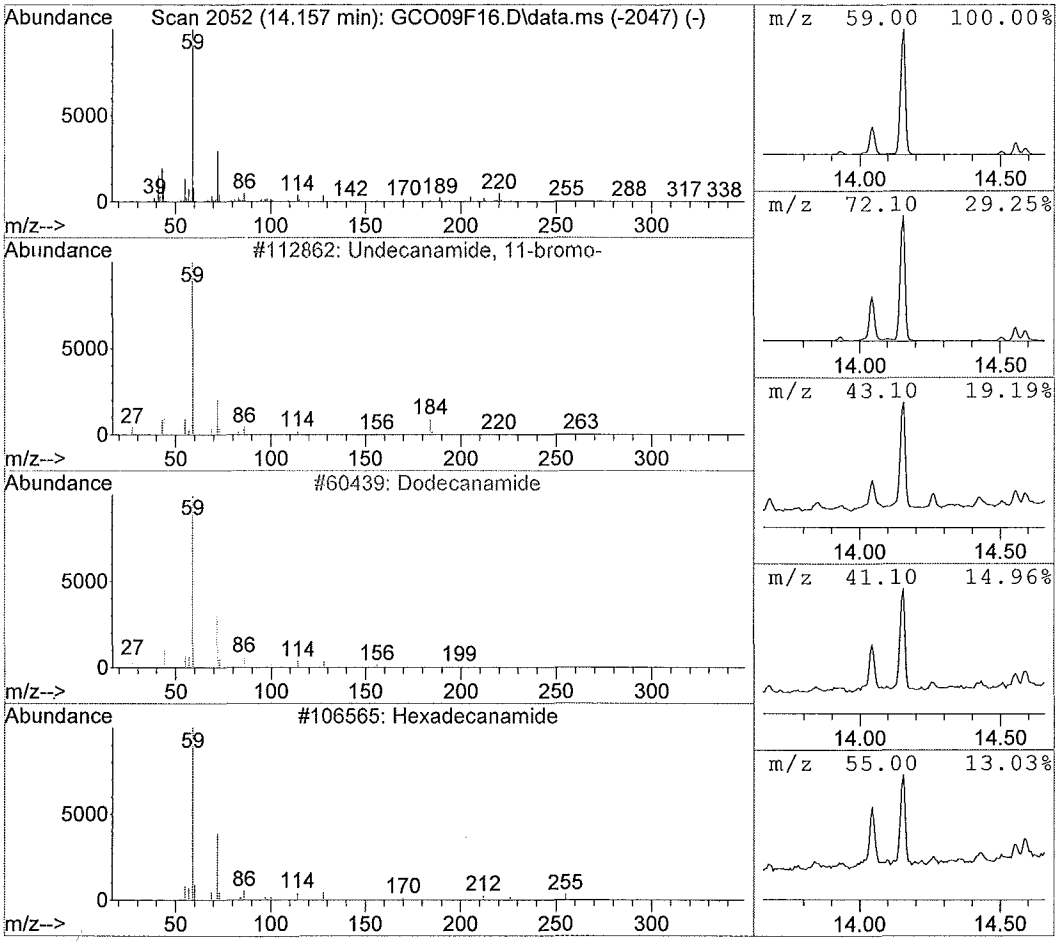
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.16	14.96 ug/ml	3256262	Chrysene-d12	4354199

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecanamide, 11-bromo-	112862	005875-26-3	87.00
2	Dodecanamide	60439	001120-16-7	86.00
3	Hexadecanamide	106565	000629-54-9	83.00
4	Nonanamide	29478	001120-07-6	78.00
5	Decanamide-	38977	002319-29-1	64.00



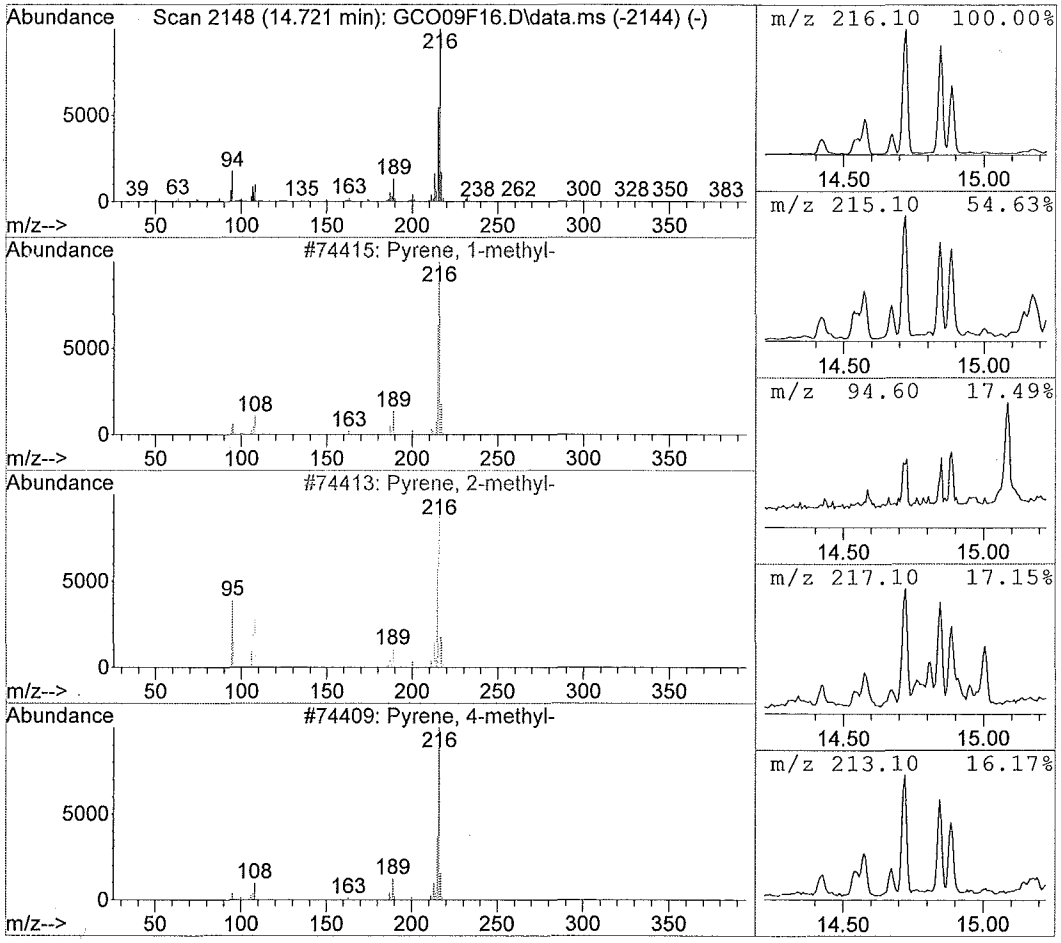
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.72	6.98 ug/ml	1520538	Chrysene-d12	4354199

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrene, 1-methyl-	74415	002381-21-7	97.00
2	Pyrene, 2-methyl-	74413	003442-78-2	97.00
3	Pyrene, 4-methyl-	74409	003353-12-6	96.00
4	Fluoranthene, 2-methyl-	74425	033543-31-6	94.00
5	11H-Benzo[a]fluorene	74419	000238-84-6	90.00



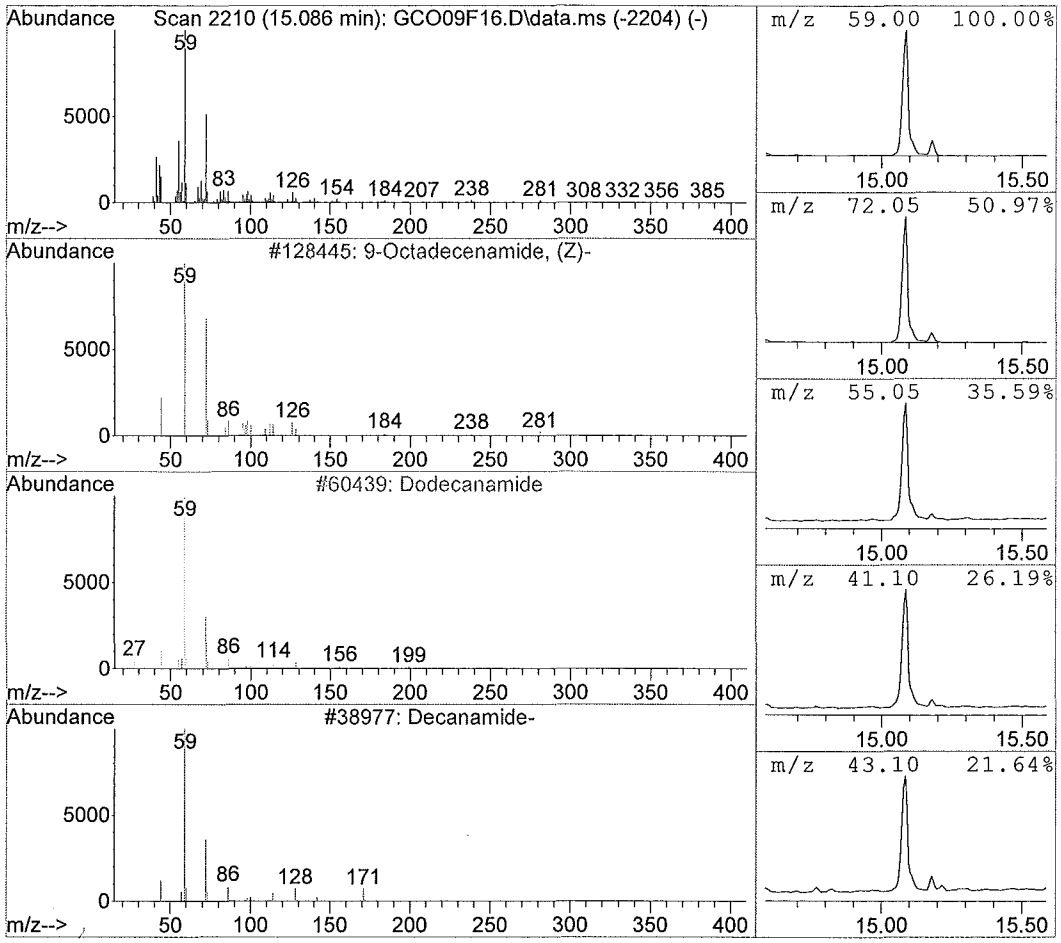
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.09	74.48 ug/ml	16214708	Chrysene-d12	4354199

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Dodecanamide	60439	001120-16-7	59.00
3	Decanamide-	38977	002319-29-1	56.00
4	Hexadecanamide	106565	000629-54-9	56.00
5	Nonanamide	29478	001120-07-6	50.00



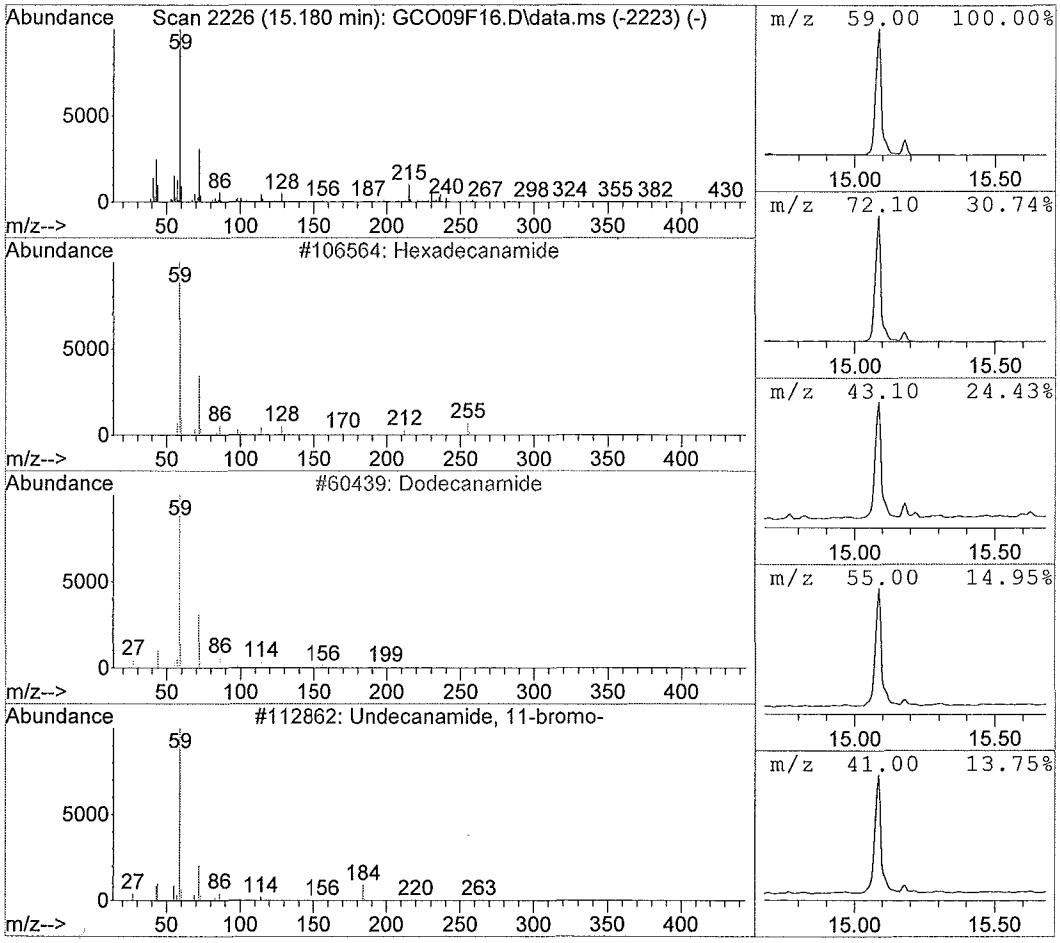
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.18	5.46 ug/ml	1188574	Chrysene-d12	4354199

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	72.00
2	Dodecanamide	60439	001120-16-7	64.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	64.00
4	Tetradecanamide	83609	000638-58-4	64.00
5	Nonanamide	29478	001120-07-6	59.00



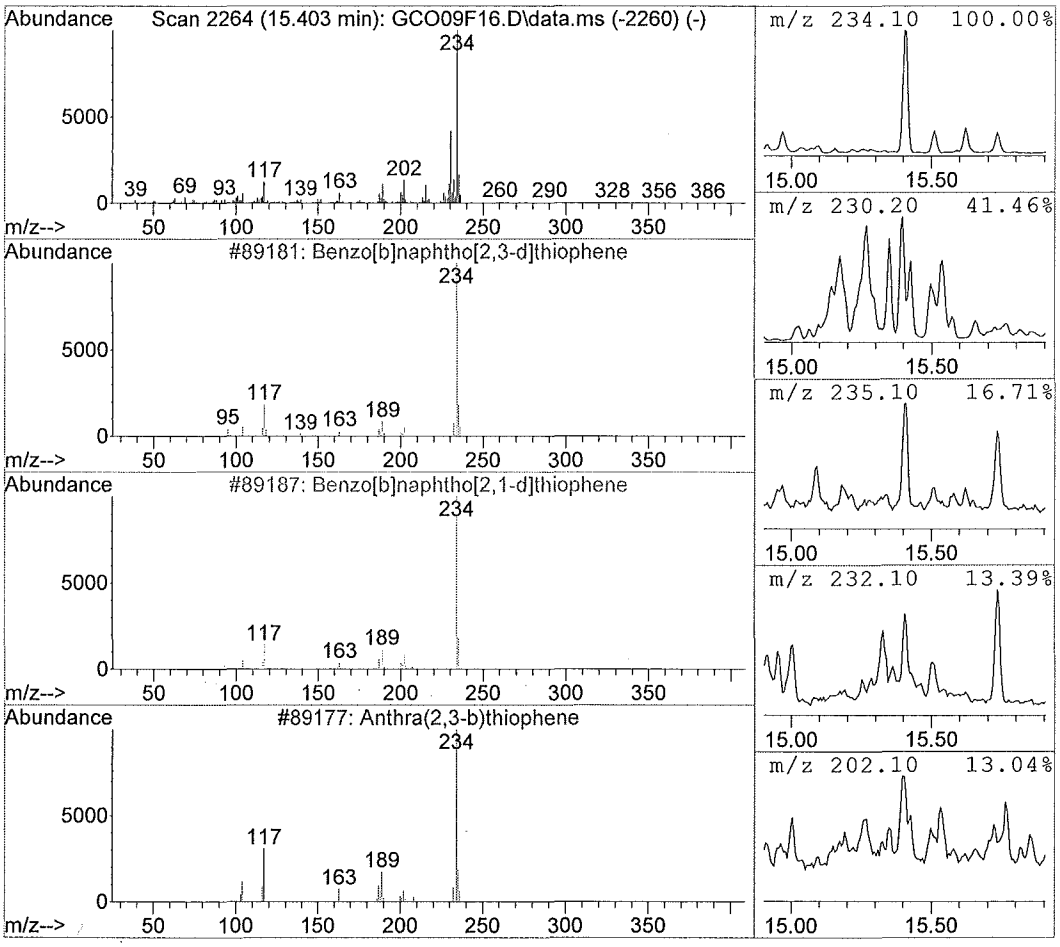
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.40	5.49 ug/ml	1195072	Chrysene-d12	4354199

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	89181	000243-46-9	91.00
2	Benzo[b]naphtho[2,1-d]thiophene	89187	000239-35-0	90.00
3	Anthra(2,3-b)thiophene	89177	022108-55-0	78.00
4	Anthra(1,2-b)thiophene	89178	000227-86-1	78.00
5	Phenanthro(2,1-b)thiophene	89180	000219-25-0	55.00



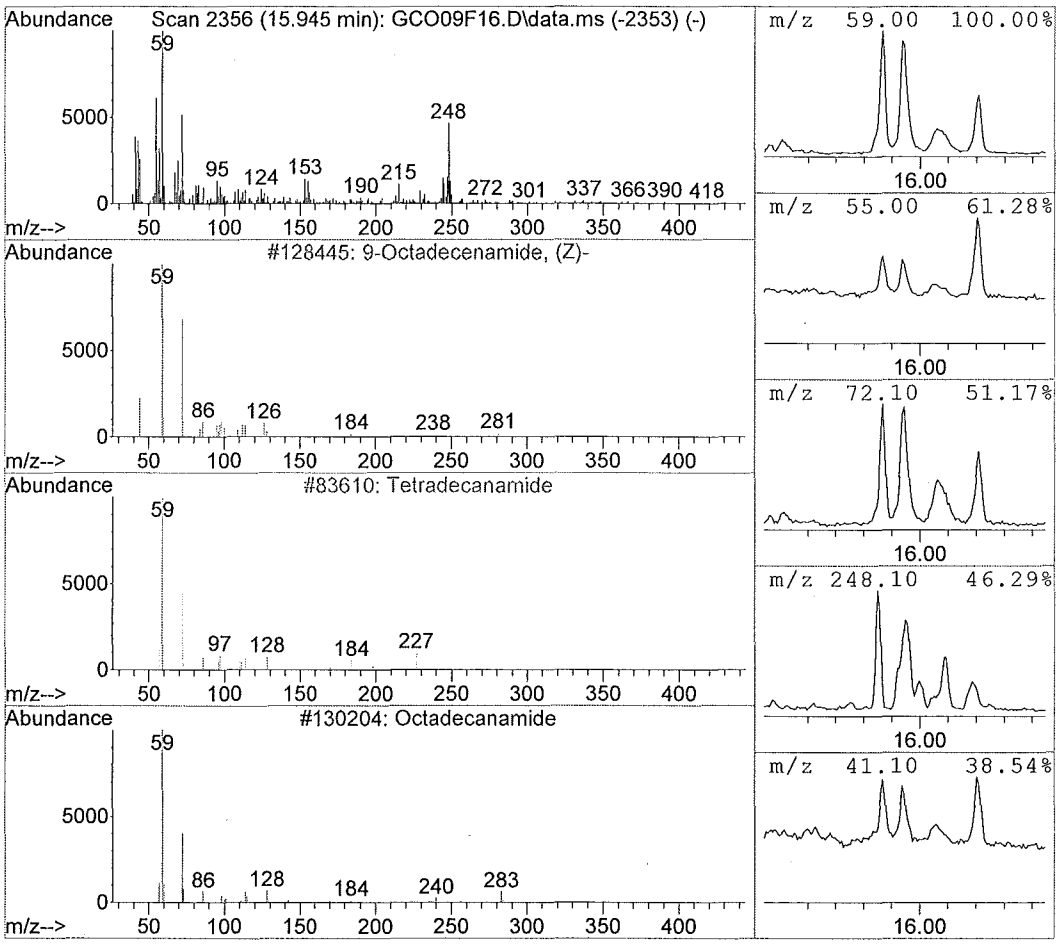
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO09F16.D Vial: 9
Acq On : 07/08/2015 12:35 Operator: TJM
Sample : 1515375016 F9M11 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.94	6.31 ug/ml	1372758	Chrysene-d12	4354199

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	46.00
2	Tetradecanamide	83610	000638-58-4	43.00
3	Octadecanamide	130204	000124-26-5	43.00
4	N-Methyl-N-methoxycarbonylcarbamic	42015	073830-21-4	43.00
5	Decanamide-	38977	002319-29-1	43.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M12

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375017

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GC010F17

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.3 Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.0 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	620	J
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	1100	J
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	3600	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	3600	U
83-32-9	Acenaphthene	1900	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M12

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375017

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GC010F17

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.3 Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	3600	U
100-02-7	4-Nitrophenol	3600	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	3600	U
534-52-1	4,6-Dinitro-2-methylphenol	3600	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	3600	U
85-01-8	Phenanthrene	2200	
120-12-7	Anthracene	160	J
86-74-8	Carbazole	1900	U
84-74-2	Di-n-butylphthalate	1900	U
206-44-0	Fluoranthene	350	J
129-00-0	Pyrene	2000	
85-68-7	Butylbenzylphthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	860	J
218-01-9	Chrysene	1700	J
117-81-7	Bis(2-ethylhexyl)phthalate	1900	U
117-84-0	Di-n-octylphthalate	1900	U
205-99-2	Benzo(b)fluoranthene	610	J
207-08-9	Benzo(k)fluoranthene	1900	U
50-32-8	Benzo(a)pyrene	600	J
193-39-5	Indeno(1,2,3-cd)pyrene	1900	U
53-70-3	Dibenzo(a,h)anthracene	160	J
191-24-2	Benzo(g,h,i)perylene	200	J
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.

F9M12

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375017

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GC010F17

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.3 Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.0 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-	3.49	2400	JB
02		Unknown Benzene, propyl-	4.40	1100	J
03		Unknown 2-Decene, (Z)-	4.48	1800	J
04		Unknown Decyl isobutyl carbonate	4.95	2200	J
05	91-17-8	Naphthalene, decahydro-	5.26	1900	JN
06		Unknown Benzene, 4-ethyl-1,2-dimethyl-	5.39	4600	J
07		Unknown 7-Octenal, 3,7-dimethyl-	5.60	1000	J
08	2958-76-1	Naphthalene, decahydro-2-methyl-	5.70	2300	JN
09		Unknown trans-4a-Methyl-decahydronaphthalene	5.83	1600	J
10		Unknown Benzene, 1,2,3,4-tetramethyl-	5.94	2400	J
11	1000370-34-1	3,4-Dimethylcumene	6.37	1400	JN
12	6434-76-0	6-Tridecene, (E)-	6.53	1200	JN
13	66563-30-2	Bacchotricuneatin c	6.83	4800	JN
14	2809-64-5	Naphthalene, 1,2,3,4-tetrahydro-5-methyl-	6.95	1100	JN
15	24949-42-6	6-Tridecene, 7-methyl-	7.00	1600	JN
16		Unknown 3,3,7,7-Tetramethyl-5-oxa-1,9-diazabicyc	7.08	960	J
17	41446-78-0	4-Tetradecene, (E)-	7.94	2200	JN
18	1000187-78-5	3-(2-Methyl-propenyl)-1H-indene	9.09	1300	JN
19	1000130-75-8	Z-2-Tridecen-1-ol	10.13	7700	JN
20	16587-52-3	Dibenzothiophene, 3-methyl-	12.13	1400	JN
21	2531-84-2	Phenanthrene, 2-methyl-	12.46	1200	JN
22	2531-84-2	Phenanthrene, 2-methyl-	12.50	2300	JN
23	1120-16-7	Dodecanamide	12.77	1600	JN
24	5875-26-3	Undecanamide, 11-bromo-	14.15	5000	JN
25	2381-21-7	Pyrene, 1-methyl-	14.72	950	JN
26	301-02-0	9-Octadecenamide, (Z)-	15.09	42000	JNB
27	5875-26-3	Undecanamide, 11-bromo-	15.17	1800	JN
28	90949-53-4	7-Nonenamide	15.94	1900	JN
29		Unknown Formamide, N-octyl-	16.20	1300	J
30		Unknown 9-Octadecenamide, (Z)-	16.98	3000	J
	E966796[2]	Total Alkanes	N/A	90000	J

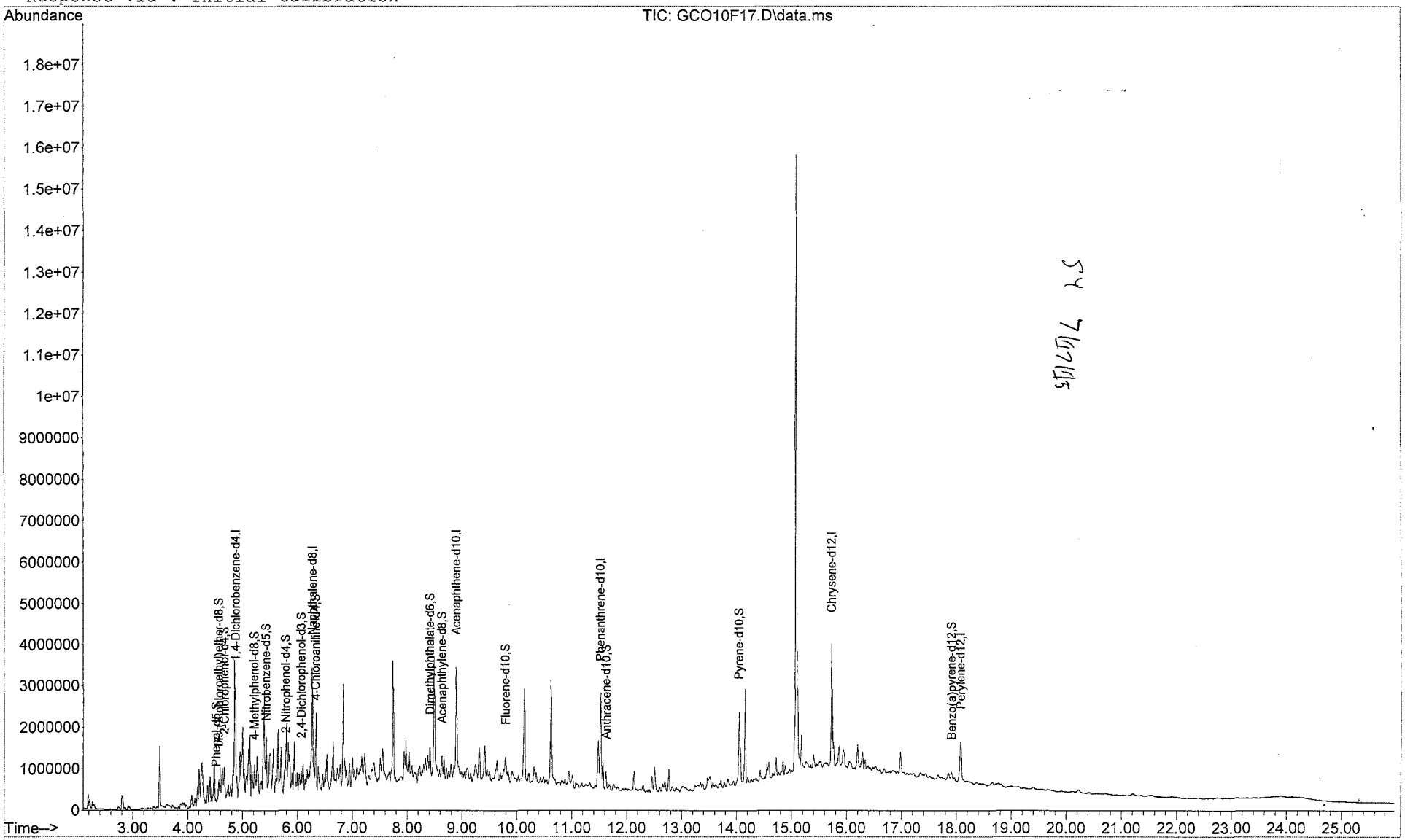
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 08:16:25 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 08:16:25 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	333976	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1263943	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	749529	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1282687	20.00 ug/ml
73) Chrysene-d12	15.73	240	1220704	20.00 ug/ml
81) Perylene-d12	18.07	264	708017	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	28688	0.987ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	111696	4.932ug/mL
7) 2-Chlorophenol-d4	4.66	132	74545	3.038ug/ml
13) 4-Methylphenol-d8	5.20	113	38440	1.977ug/mL
17) Nitrobenzene-d5	5.42	128	41036	3.696ug/ml
21) 2-Nitrophenol-d4	5.77	143	34924	2.976ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	60093	3.288ug/mL
28) 4-Chloroaniline-d4	6.32	131	77144	3.867ug/mL
42) Dimethylphthalate-d6	8.41	166	179827	3.826ug/mL
45) Acenaphthylene-d8	8.63	160	228466	3.577ug/mL
50) 4-Nitrophenol-d4	9.15	143	1728	0.180ug/mL
57) Fluorene-d10	9.79	176	153708	3.829ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	2980	0.327ug/mL
69) Anthracene-d10	11.62	188	252864	3.717ug/mL
75) Pyrene-d10	14.04	212	236224	3.878ug/mL
86) Benzo(a)pyrene-d12	17.91	264	129371	3.813ug/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	6.29	128	108562	1.699ug/ml m	92
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	7.24	142	119473	2.955ug/ml	96
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 : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 08:16:25 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

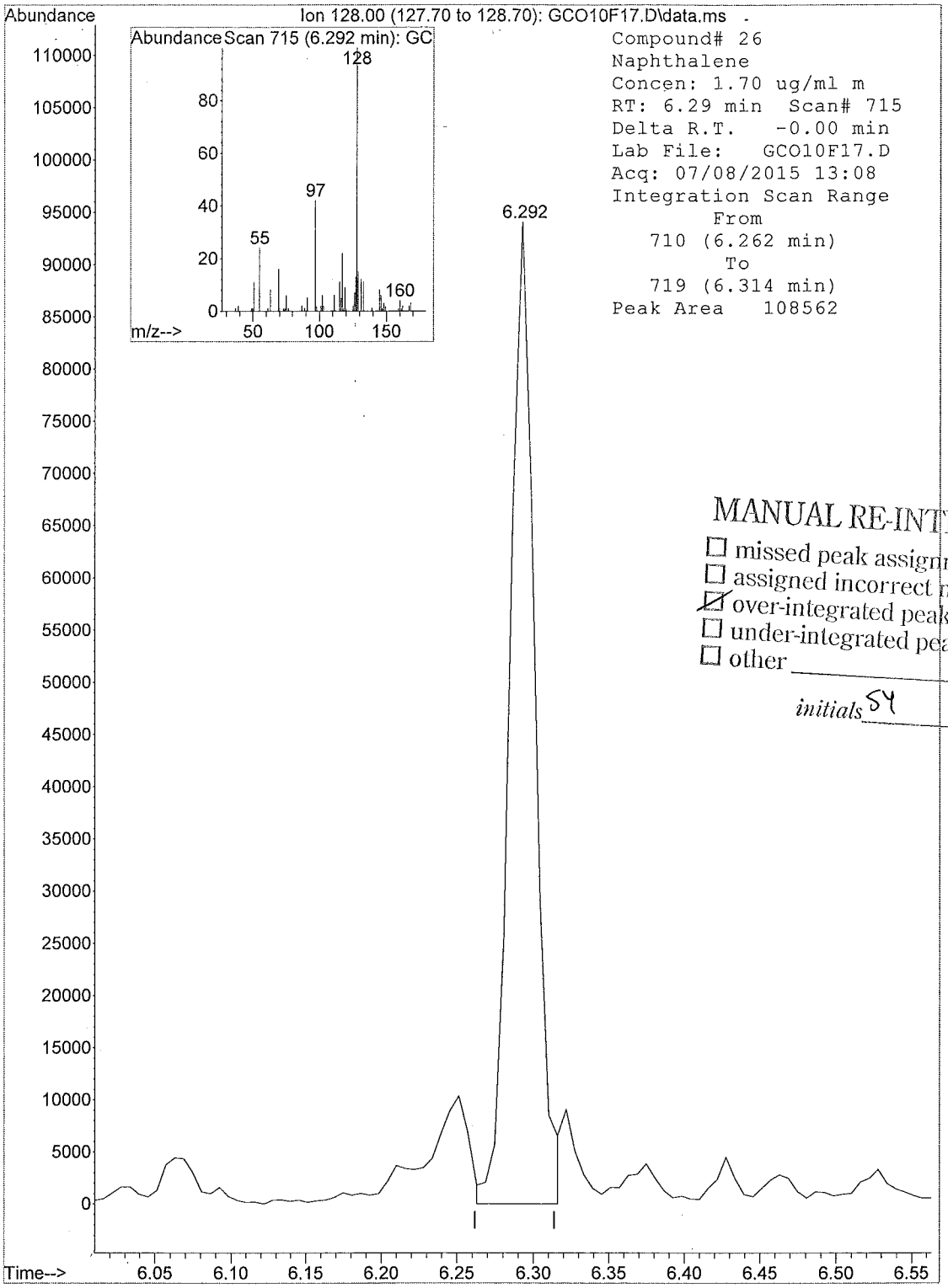
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	0.00	152		Not Detected	
46)	3-Nitroaniline	0.00	138		Not Detected	
47)	Acenaphthene	0.00	153		Not Detected	
48)	2,4-Dinitrophenol	0.00	184		Not Detected	
49)	4-Nitrophenol	0.00	109		Not Detected	
51)	Dibenzofuran	0.00	168		Not Detected	
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	11.56	178	402488	5.883ug/ml	98
68)	Anthracene	11.66	178	31018	0.444ug/ml	80
70)	Carbazole	0.00	167		Not Detected	
71)	Di-n-butylphthalate	0.00	149		Not Detected	
72)	Fluoranthene	13.72	202	71160	0.944ug/ml	98
74)	Pyrene	14.07	202	430313	5.538ug/ml	95
76)	Butylbenzylphthalate	0.00	149		Not Detected	
77)	3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78)	Benzo(a)anthracene	15.72	228	174412	2.355ug/ml	81
79)	Chrysene	15.76	228	312063	4.666ug/ml	91
80)	Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82)	Di-n-octylphthalate	0.00	149		Not Detected	
83)	Benzo(b)fluoranthene	17.34	252	74126	1.672ug/ml m	96
84)	Benzo(k)fluoranthene	0.00	252		Not Detected	
85)	Benzo(a)pyrene	17.96	252	68488	1.641ug/ml	95
87)	Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected	
88)	Dibenzo(a,h)anthracene	20.79	278	15858	0.429ug/ml	87
89)	Benzo(g,h,i)perylene	21.53	276	20291	0.559ug/ml	75

7/17/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00649

M A N U A L I N T E G R A T I O N FOR Naphthalene



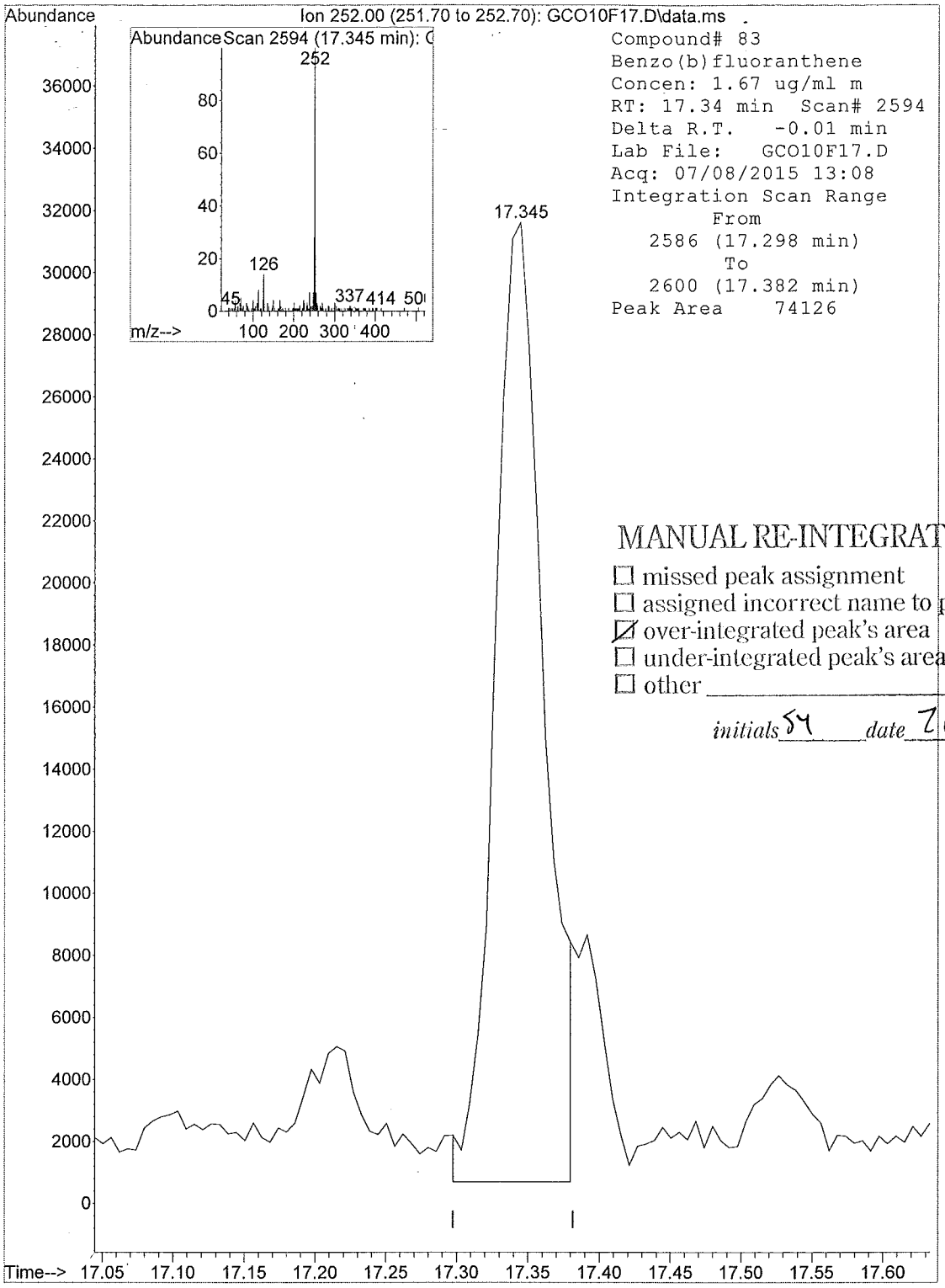
Compound# 26
Naphthalene
Concen: 1.70 ug/ml m
RT: 6.29 min Scan# 715
Delta R.T. -0.00 min
Lab File: GCO10F17.D
Acq: 07/08/2015 13:08
Integration Scan Range
From
710 (6.262 min)
To
719 (6.314 min)
Peak Area 108562

MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/17/15

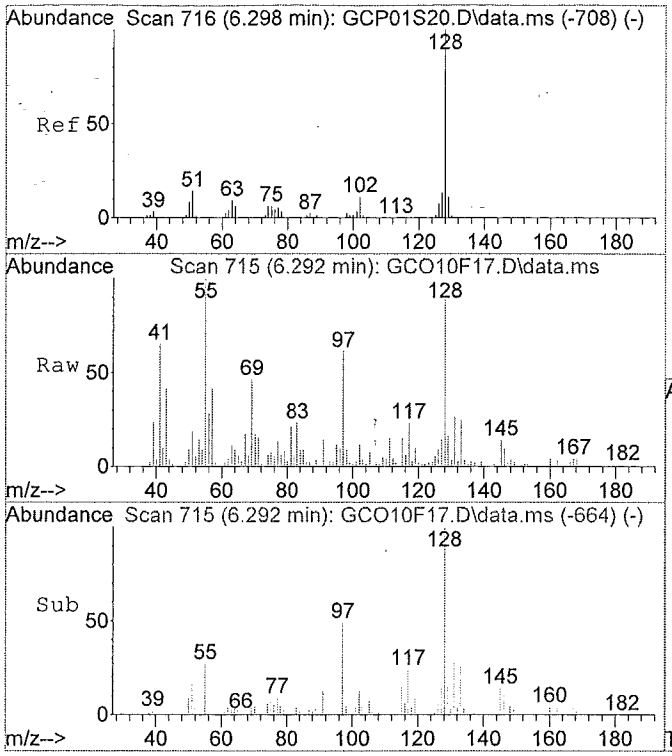
M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene



MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

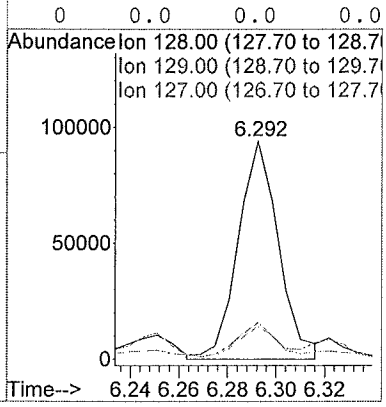
initials SY *date* 7/17/15

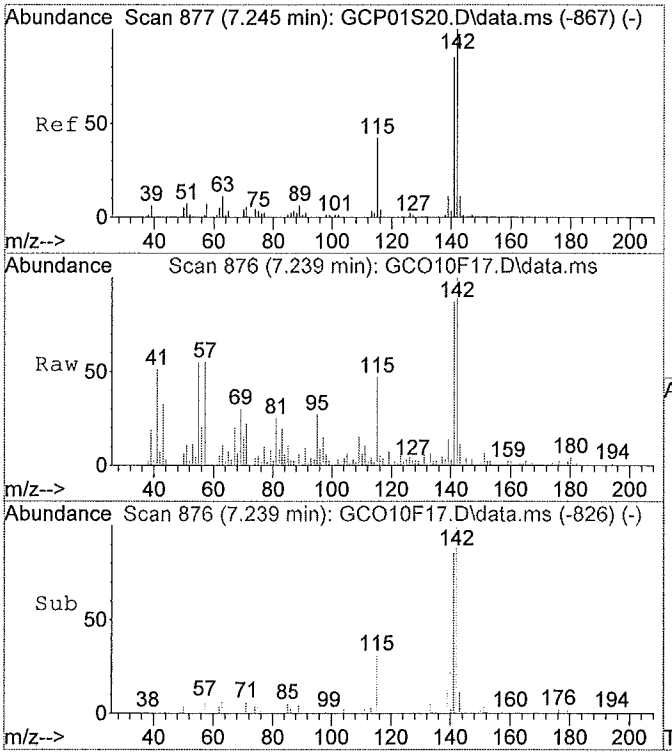


#26
Naphthalene
Concen: 1.70 ug/ml m
RT: 6.29 min Scan# 715
Delta R.T. -0.00 min
Lab File: GCO10F17.D
Acq: 07/08/2015 13:08

Tgt Ion:128 Resp: 108562

Ion	Ratio	Lower	Upper
128	100		
129	16.7	7.8	14.4#
127	12.0	9.3	17.3
0	0.0	0.0	0.0

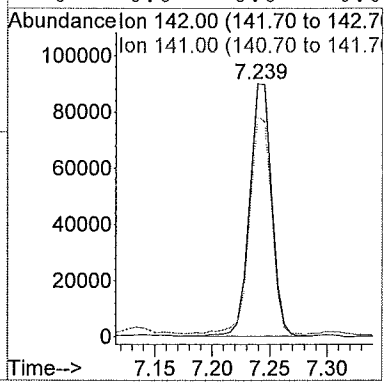


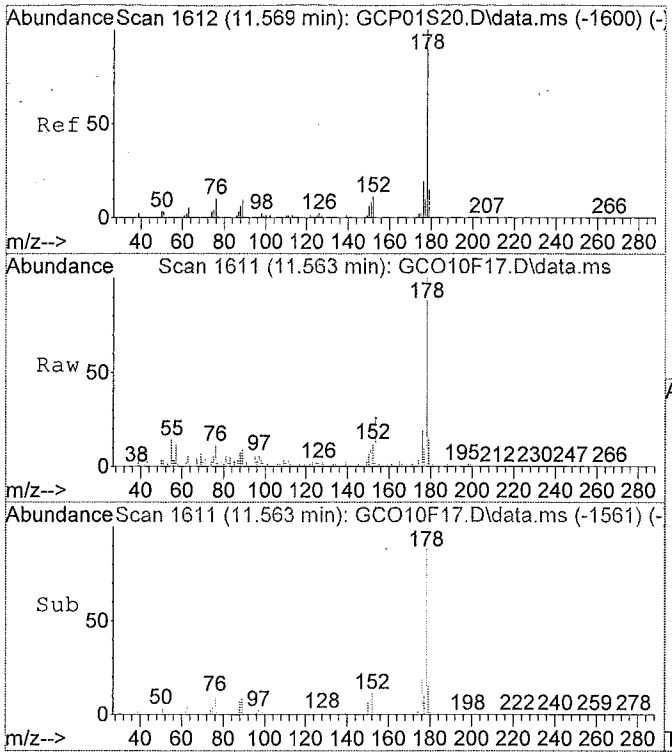


#32
2-Methylnaphthalene
Concen: 2.95 ug/ml
RT: 7.24 min Scan# 876
Delta R.T. -0.01 min
Lab File: GCO10F17.D
Acq: 07/08/2015 13:08

Tgt Ion:142 Resp: 119473

Ion	Ratio	Lower	Upper
142	100		
141	86.1	57.7	107.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

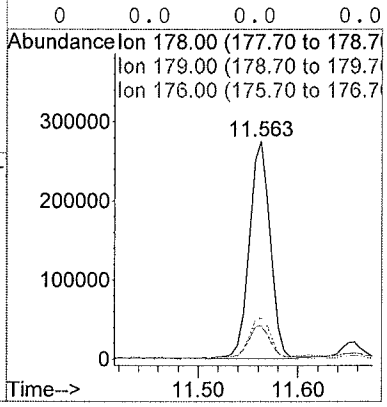


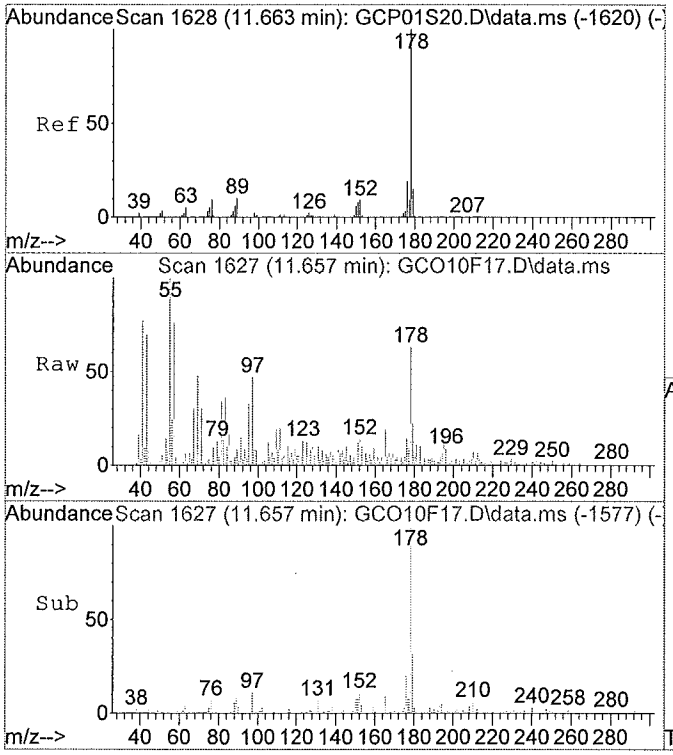


#67
Phenanthrene
Concen: 5.88 ug/ml
RT: 11.56 min Scan# 1611
Delta R.T. -0.01 min
Lab File: GCO10F17.D
Acq: 07/08/2015 13:08

Tgt Ion:178 Resp: 402488

Ion	Ratio	Lower	Upper
178	100		
179	15.1	10.6	19.8
176	20.2	13.2	24.4
0	0.0	0.0	0.0

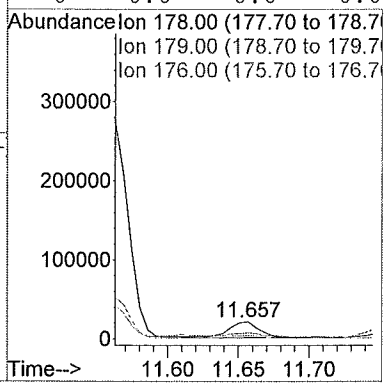


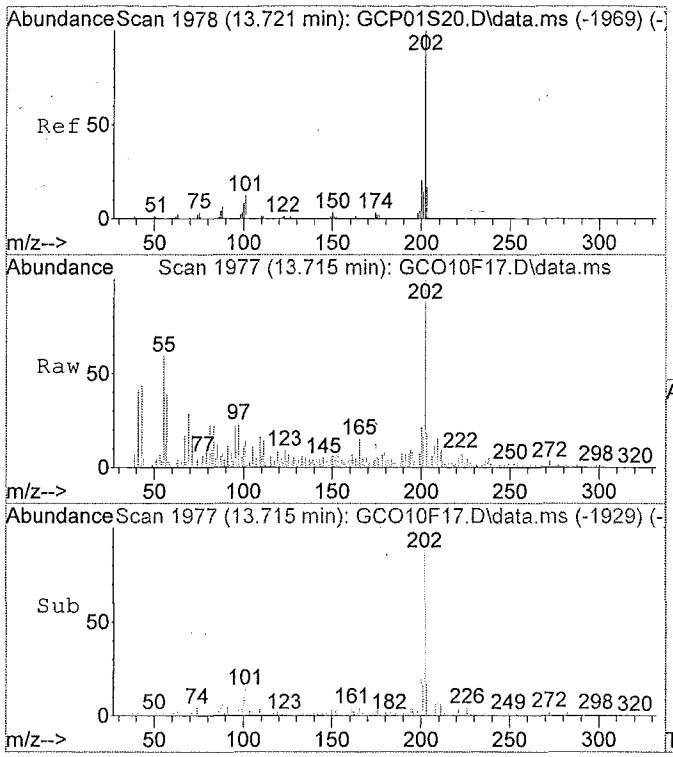


#68
Anthracene
Concen: 0.44 ug/ml
RT: 11.66 min Scan# 1627
Delta R.T. -0.01 min
Lab File: GCO10F17.D
Acq: 07/08/2015 13:08

Tgt Ion:178 Resp: 31018

Ion	Ratio	Lower	Upper
178	100		
179	30.1	10.5	19.5#
176	21.4	12.7	23.5
0	0.0	0.0	0.0

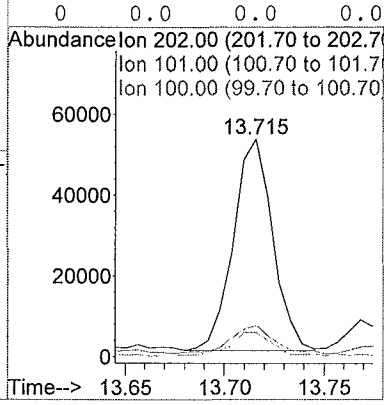


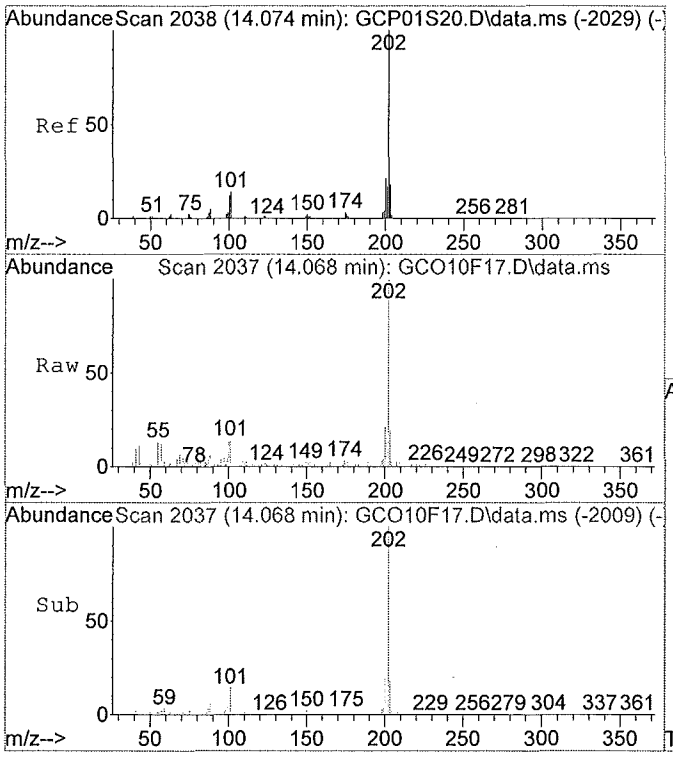


#72
Fluoranthene
Concen: 0.94 ug/ml
RT: 13.72 min Scan# 1977
Delta R.T. -0.01 min
Lab File: GCO10F17.D
Acq: 07/08/2015 13:08

Tgt Ion:202 Resp: 71160

Ion	Ratio	Lower	Upper
202	100		
101	15.2	10.5	19.5
100	12.3	7.4	13.8
0	0.0	0.0	0.0

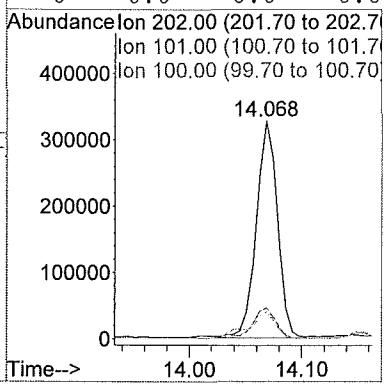


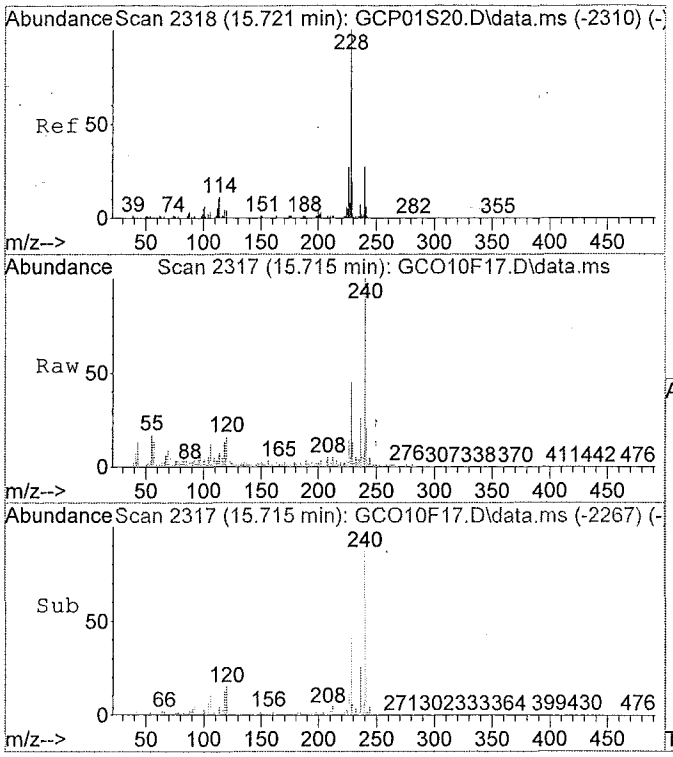


#74
Pyrene
Concen: 5.54 ug/ml
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: GCO10F17.D
Acq: 07/08/2015 13:08

Tgt Ion:202 Resp: 430313

Ion	Ratio	Lower	Upper
202	100		
101	15.0	12.2	22.7
100	16.3	10.1	18.7
0	0.0	0.0	0.0

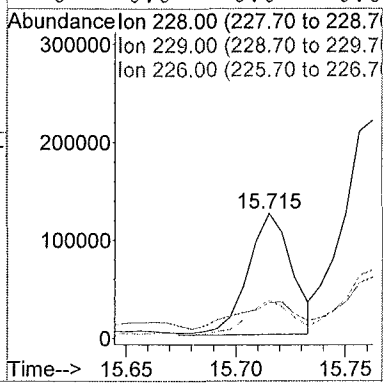


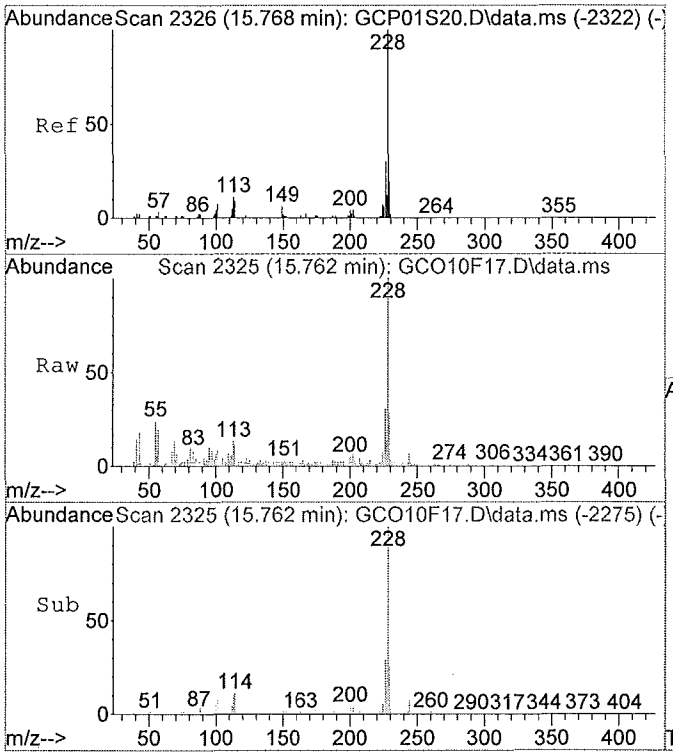


#78
Benzo(a)anthracene
Concen: 2.36 ug/ml
RT: 15.72 min Scan# 2317
Delta R.T. -0.01 min
Lab File: GCO10F17.D
Acq: 07/08/2015 13:08

Tgt Ion:228 Resp: 174412

Ion	Ratio	Lower	Upper
228	100		
229	34.5	13.7	25.5#
226	30.5	18.2	33.8
0	0.0	0.0	0.0

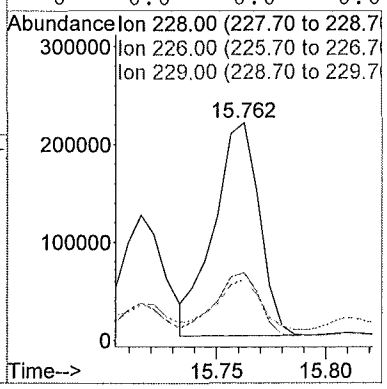


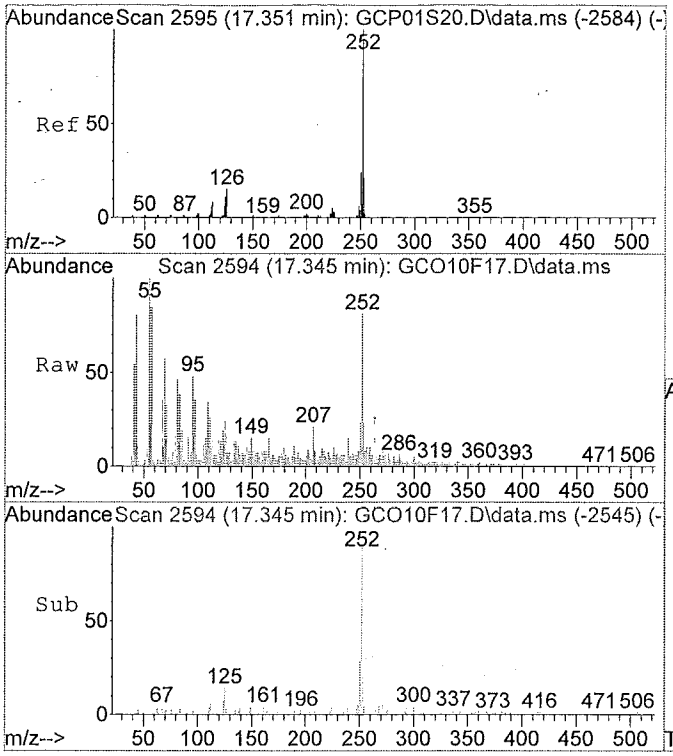


#79
Chrysene
Concen: 4.67 ug/ml
RT: 15.76 min Scan# 2325
Delta R.T. -0.01 min
Lab File: GCO10F17.D
Acq: 07/08/2015 13:08

Tgt Ion:228 Resp: 312063

Ion	Ratio	Lower	Upper
228	100		
226	31.1	20.1	37.3
229	26.8	13.7	25.5#
0	0.0	0.0	0.0

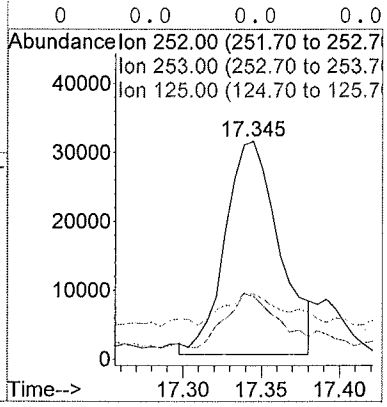


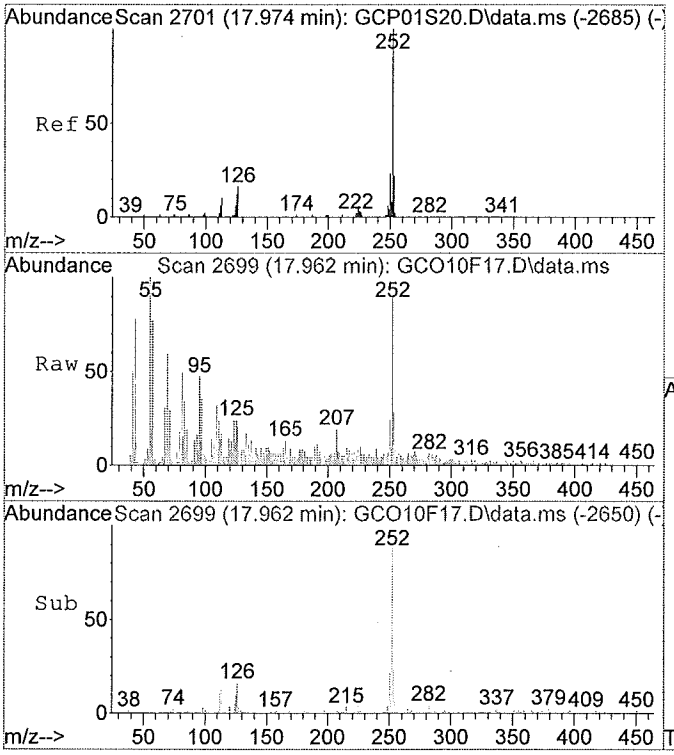


#83
Benzo(b)fluoranthene
Concen: 1.67 ug/ml m
RT: 17.34 min Scan# 2594
Delta R.T. -0.01 min
Lab File: GCO10F17.D
Acq: 07/08/2015 13:08

Tgt Ion:252 Resp: 74126

Ion	Ratio	Lower	Upper
252	100		
253	27.5	15.1	28.1
125	17.1	10.6	19.8
0	0.0	0.0	0.0

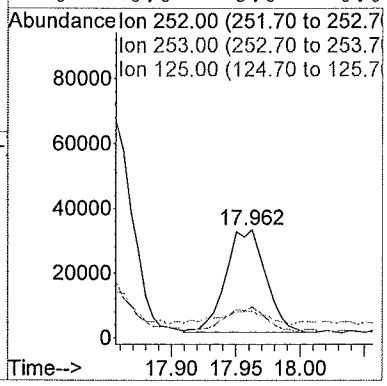


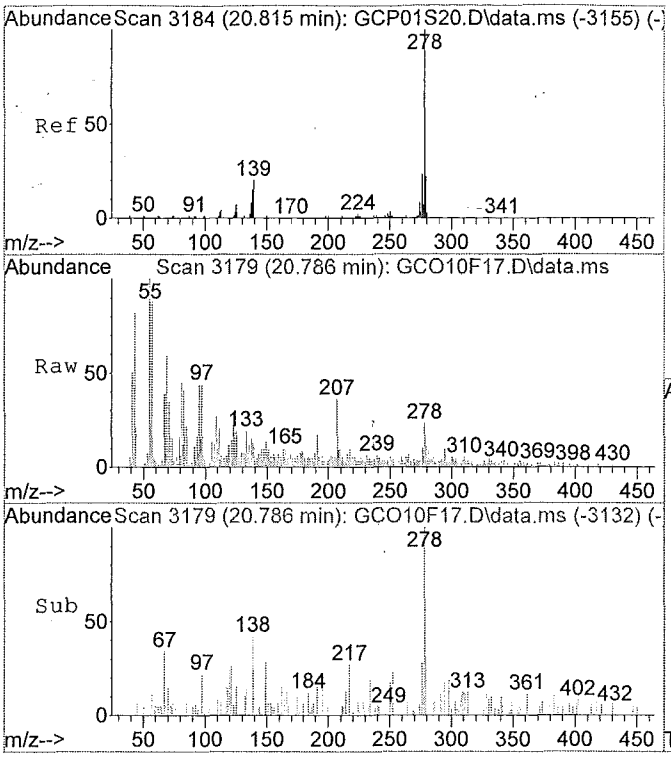


#85
Benzo(a)pyrene
Concen: 1.64 ug/ml
RT: 17.96 min Scan# 2699
Delta R.T. -0.01 min
Lab File: GCO10F17.D
Acq: 07/08/2015 13:08

Tgt Ion:252 Resp: 68488

Ion	Ratio	Lower	Upper
252	100		
253	25.1	15.2	28.2
125	17.5	11.8	21.8
0	0.0	0.0	0.0

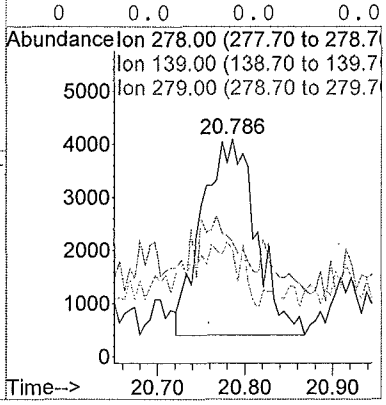


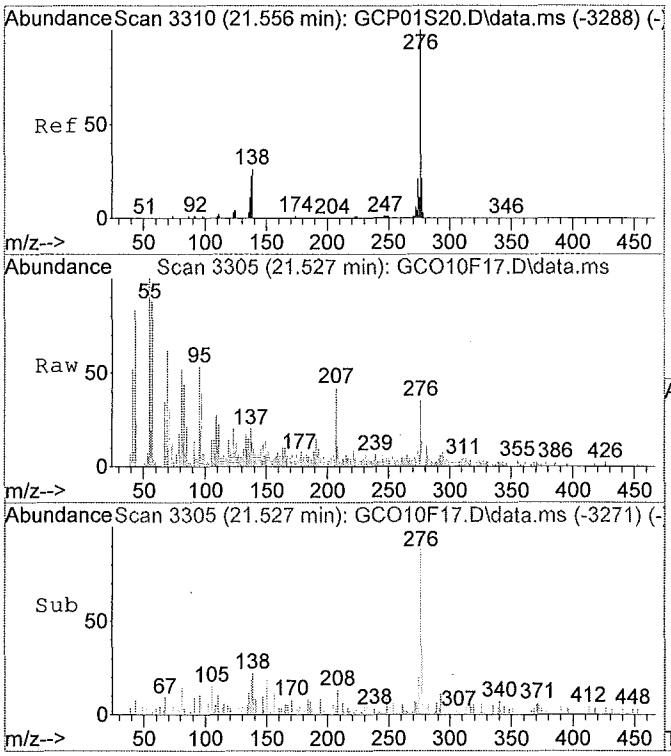


#88
Dibenzo(a,h)anthracene
Concen: 0.43 ug/ml
RT: 20.79 min Scan# 3179
Delta R.T. -0.02 min
Lab File: GCO10F17.D
Acq: 07/08/2015 13:08

Tgt Ion:278 Resp: 15858

Ion	Ratio	Lower	Upper
278	100		
139	30.0	17.3	32.1
279	30.4	16.3	30.3#
0	0.0	0.0	0.0

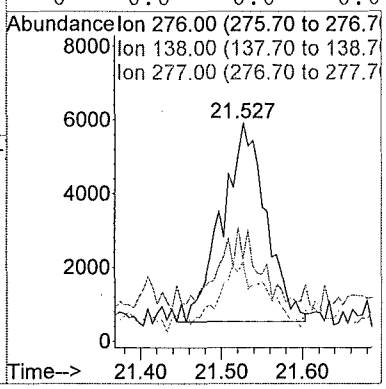




#89
Benzo(g,h,i)perylene
Concen: 0.56 ug/ml
RT: 21.53 min Scan# 3305
Delta R.T. -0.03 min
Lab File: GCO10F17.D
Acq: 07/08/2015 13:08

Tgt Ion:276 Resp: 20291

Ion	Ratio	Lower	Upper
276	100		
138	13.1	24.1	44.7#
277	20.3	16.7	30.9
0	0.0	0.0	0.0



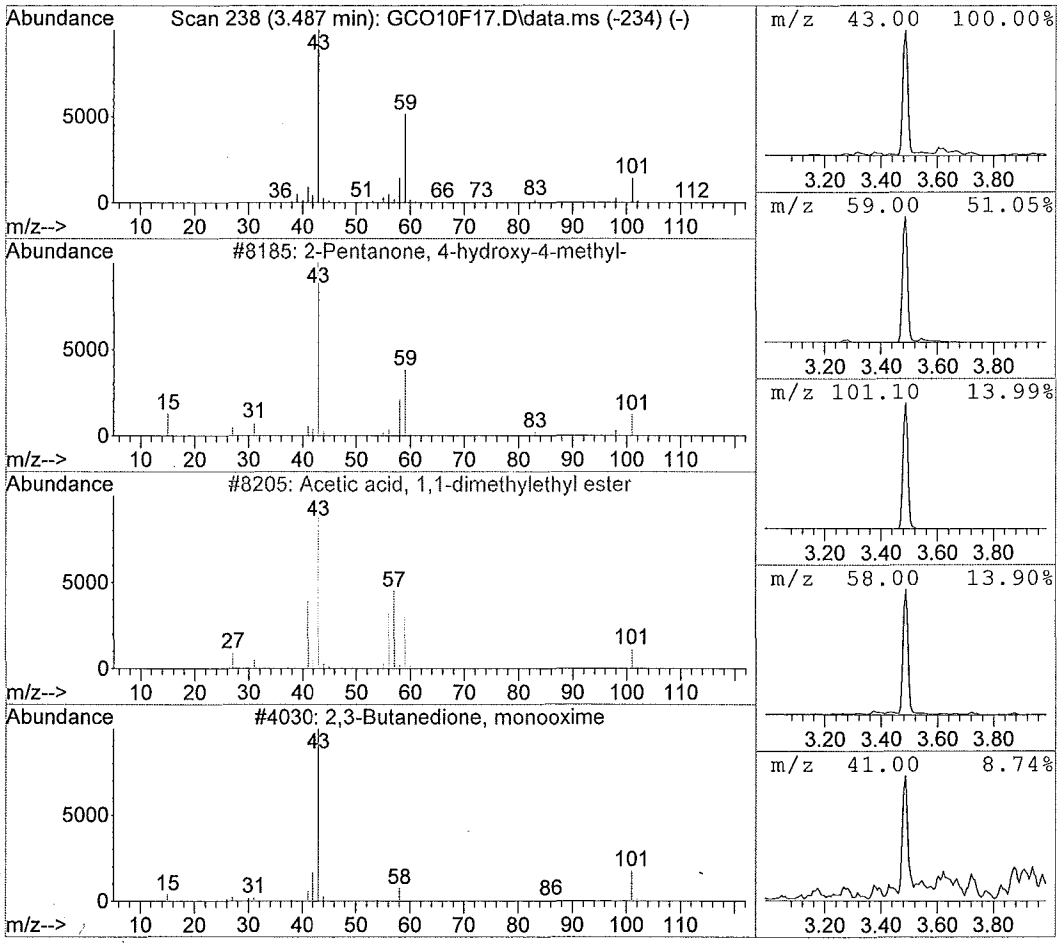
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.49	6.46 ug/ml	1828438	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	64.00
2	Acetic acid, 1,1-dimethylethyl este	8205	000540-88-5	23.00
3	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
4	Propanoic acid, 2-nitro-, methyl es	14600	006118-50-9	9.00
5	2-Hexanol, 2-methyl-	8346	000625-23-0	9.00



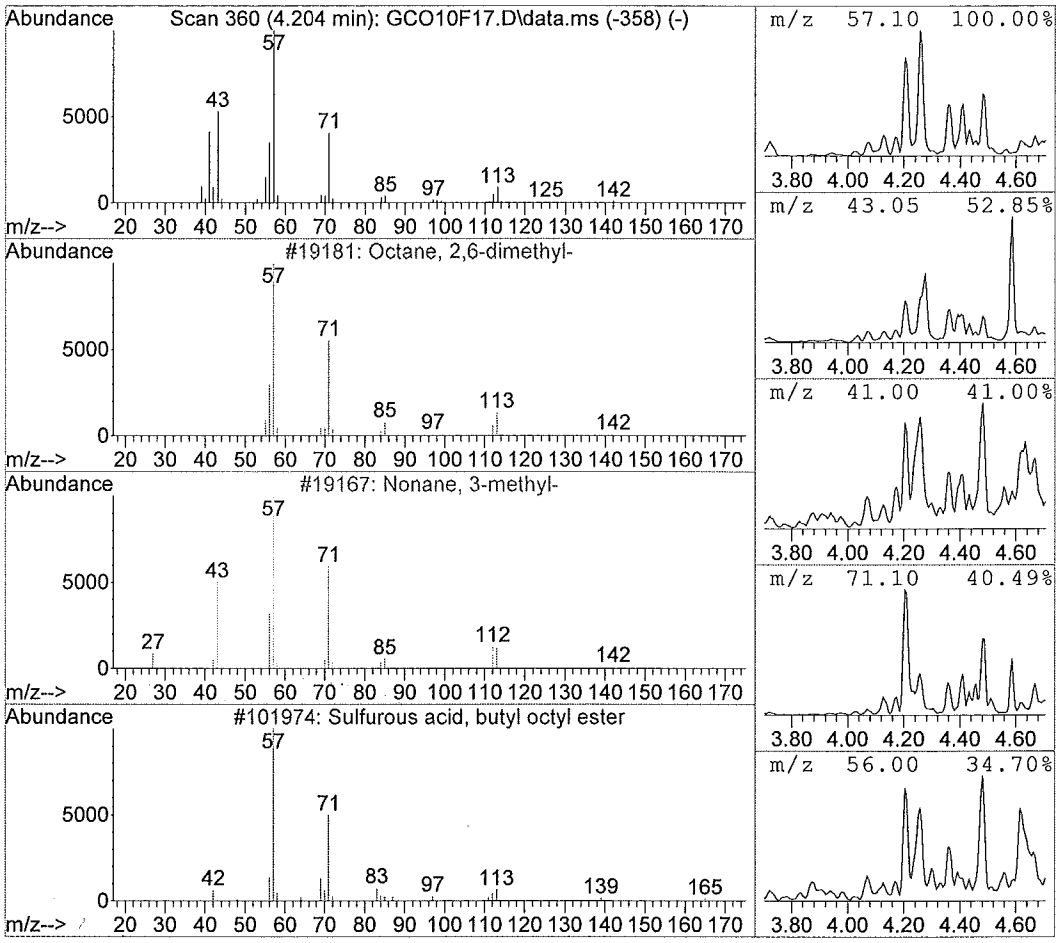
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.20	3.02 ug/ml	854535	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 2,6-dimethyl- BA	19181	002051-30-1	91.00
2	Nonane, 3-methyl-	19167	005911-04-6	72.00
3	Sulfurous acid, butyl octyl ester	101974	1000309-17-5	64.00
4	Sulfurous acid, 2-ethylhexyl isobut	101978	1000309-18-7	59.00
5	Decane, 2,6,7-trimethyl-	48892	062108-25-2	59.00



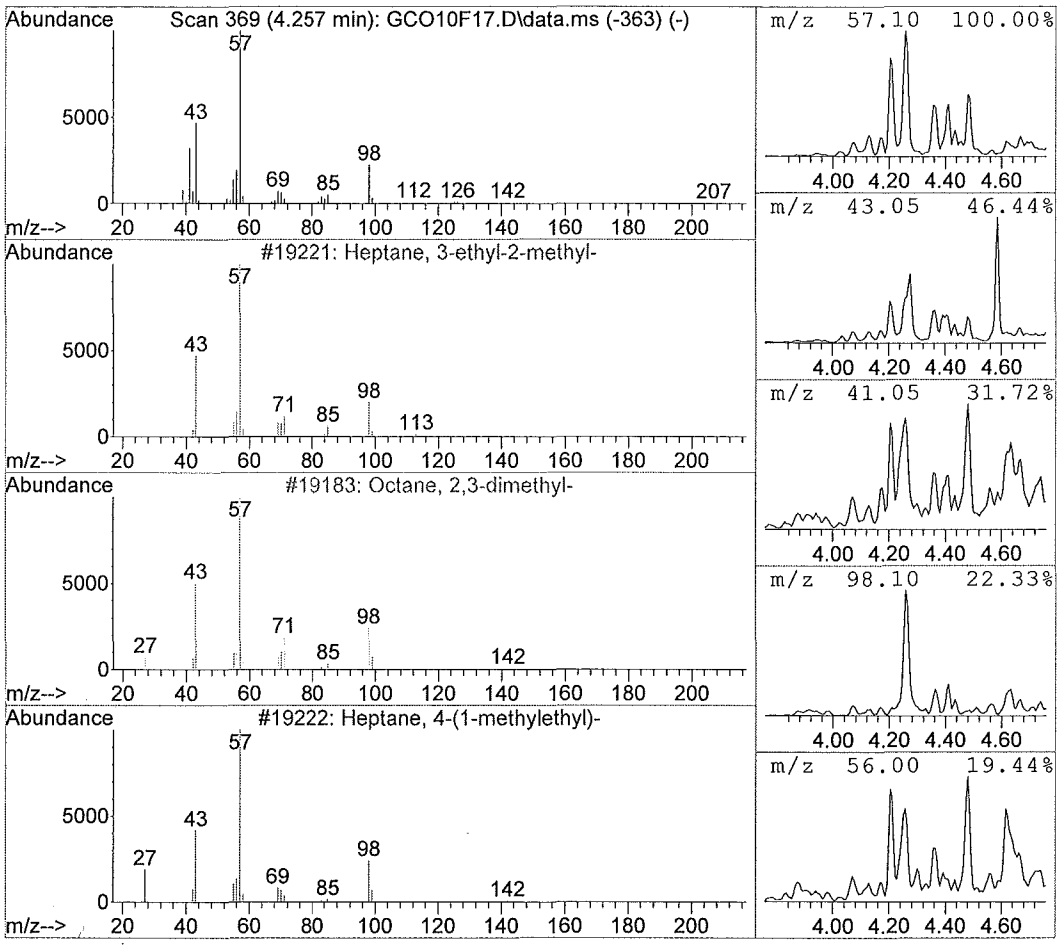
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.26	6.68 ug/ml	1891790	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 3-ethyl-2-methyl- BA	19221	014676-29-0	64.00
2	Octane, 2,3-dimethyl-	19183	007146-60-3	59.00
3	Heptane, 4-(1-methylethyl)-	19222	052896-87-4	58.00
4	Octane, 3-methyl-	12678	002216-33-3	53.00
5	Undecane, 6-methyl-	38334	017302-33-9	53.00



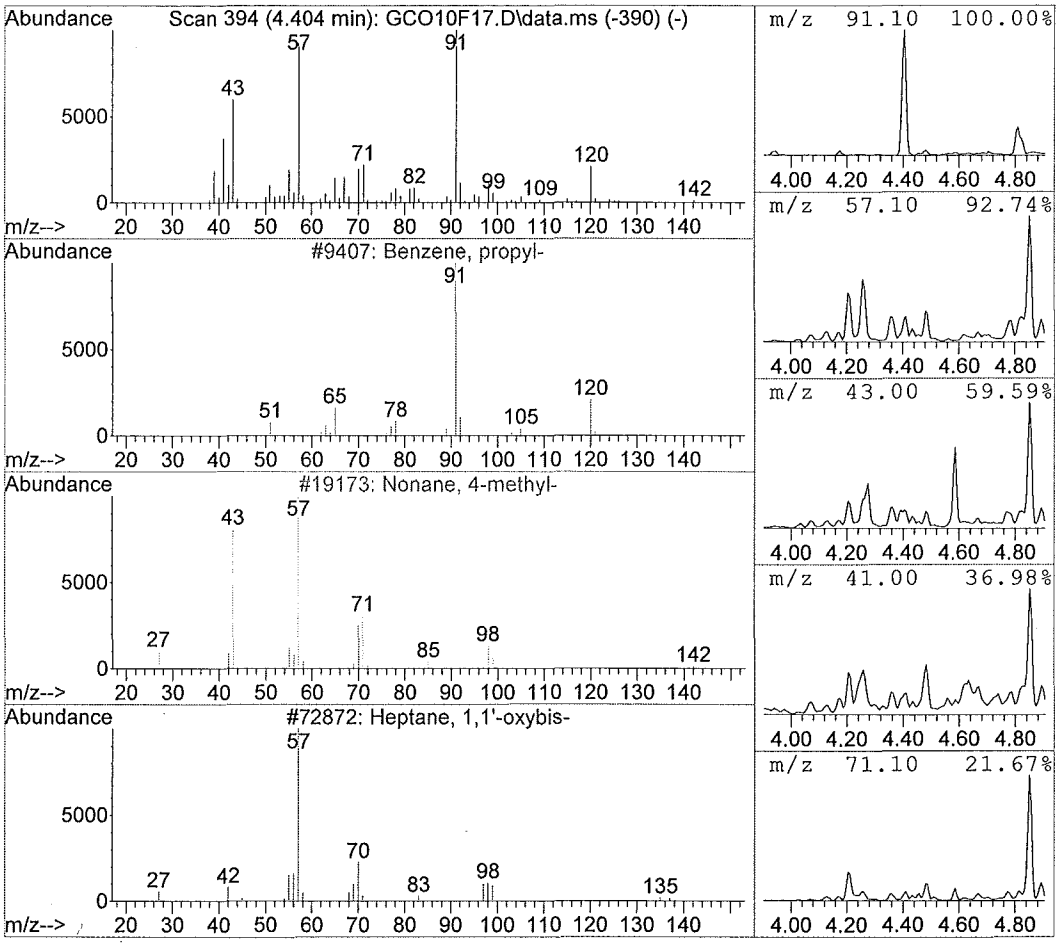
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.40	2.94 ug/ml	832659	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, propyl-	9407	000103-65-1	74.00
2	Nonane, 4-methyl-	19173	017301-94-9	50.00
3	Heptane, 1,1'-oxybis-	72872	000629-64-1	27.00
4	Heptane, 2,3,4-trimethyl-	19208	052896-95-4	27.00
5	N-Benzyl-2-phenethylamine	70357	003647-71-0	22.00



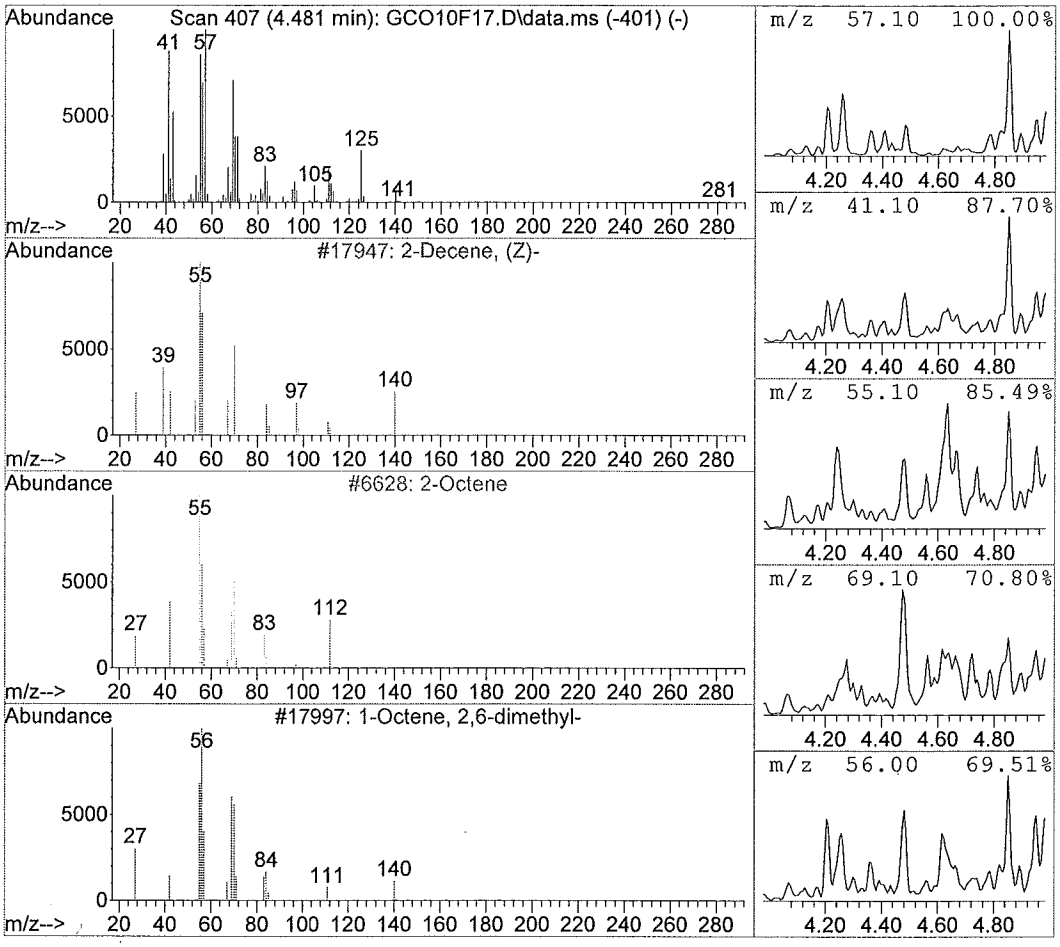
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.48	5.04 ug/ml	1427837	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Decene, (Z)-	17947	020348-51-0	43.00
2	2-Octene	6628	000111-67-1	38.00
3	1-Octene, 2,6-dimethyl-	17997	006874-29-9	38.00
4	Cyclopropane, 1,2-dimethyl-3-pentyl	18054	062238-05-5	38.00
5	4-Octene, (E)-	6651	014850-23-8	30.00



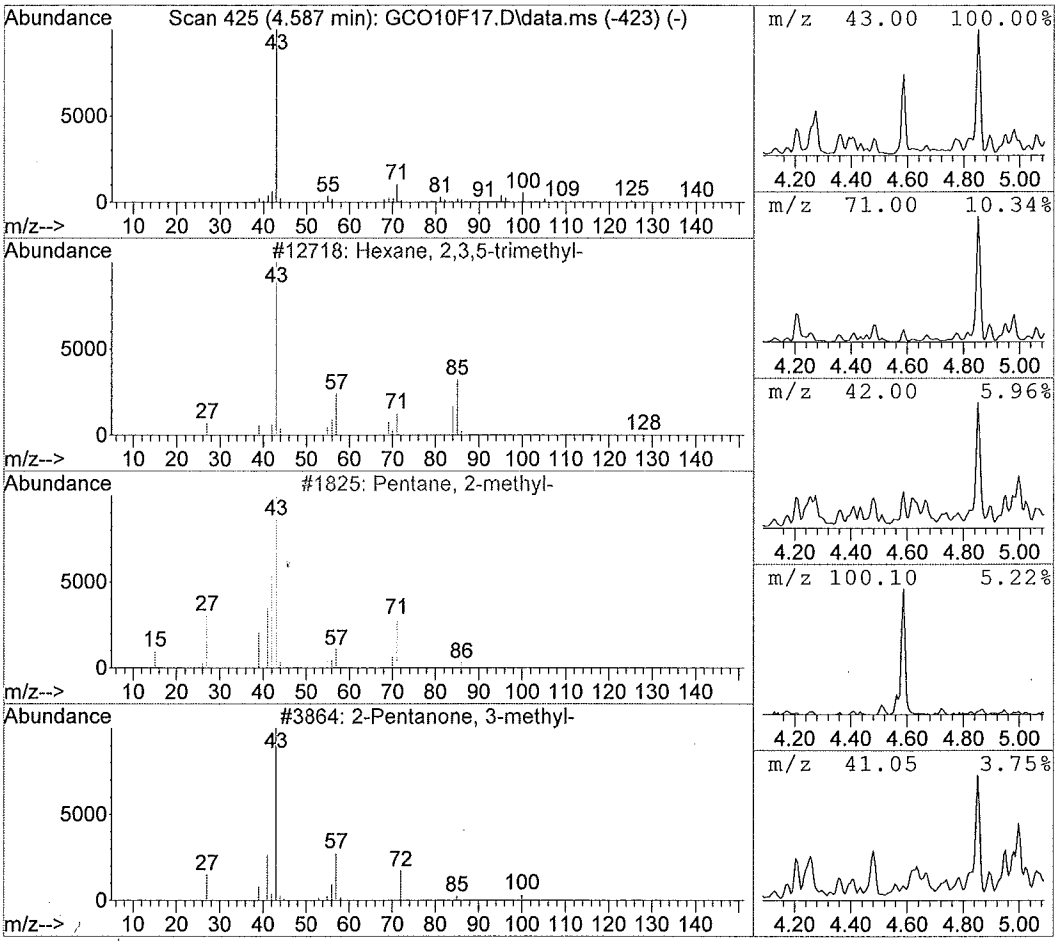
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.59	2.46 ug/ml	696311	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl- BA	12718	001069-53-0	17.00
2	Pentane, 2-methyl-	1825	000107-83-5	9.00
3	2-Pentanone, 3-methyl-	3864	000565-61-7	9.00
4	Heptane, 2,4-dimethyl-	12695	002213-23-2	9.00
5	Heptane, 2,3-dimethyl-	12694	003074-71-3	9.00



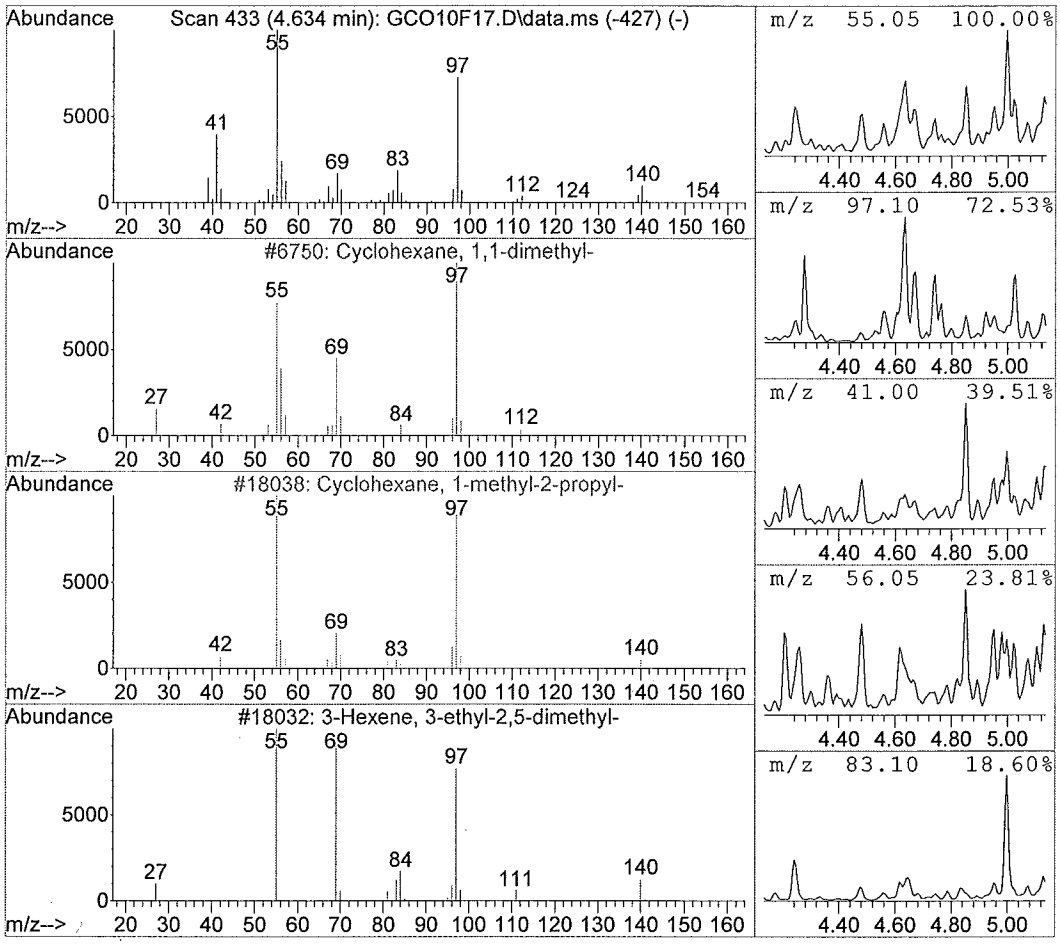
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.63	5.62 ug/ml	1590719	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl- CA	6750	000590-66-9	70.00
2	Cyclohexane, 1-methyl-2-propyl-	18038	004291-79-6	59.00
3	3-Hexene, 3-ethyl-2,5-dimethyl-	18032	062338-08-3	58.00
4	Cyclohexane, 1-methyl-4-(1-methylet	18075	006069-98-3	58.00
5	1-Methyl-4-(1-methylethyl)-cyclohex	18058	000099-82-1	52.00



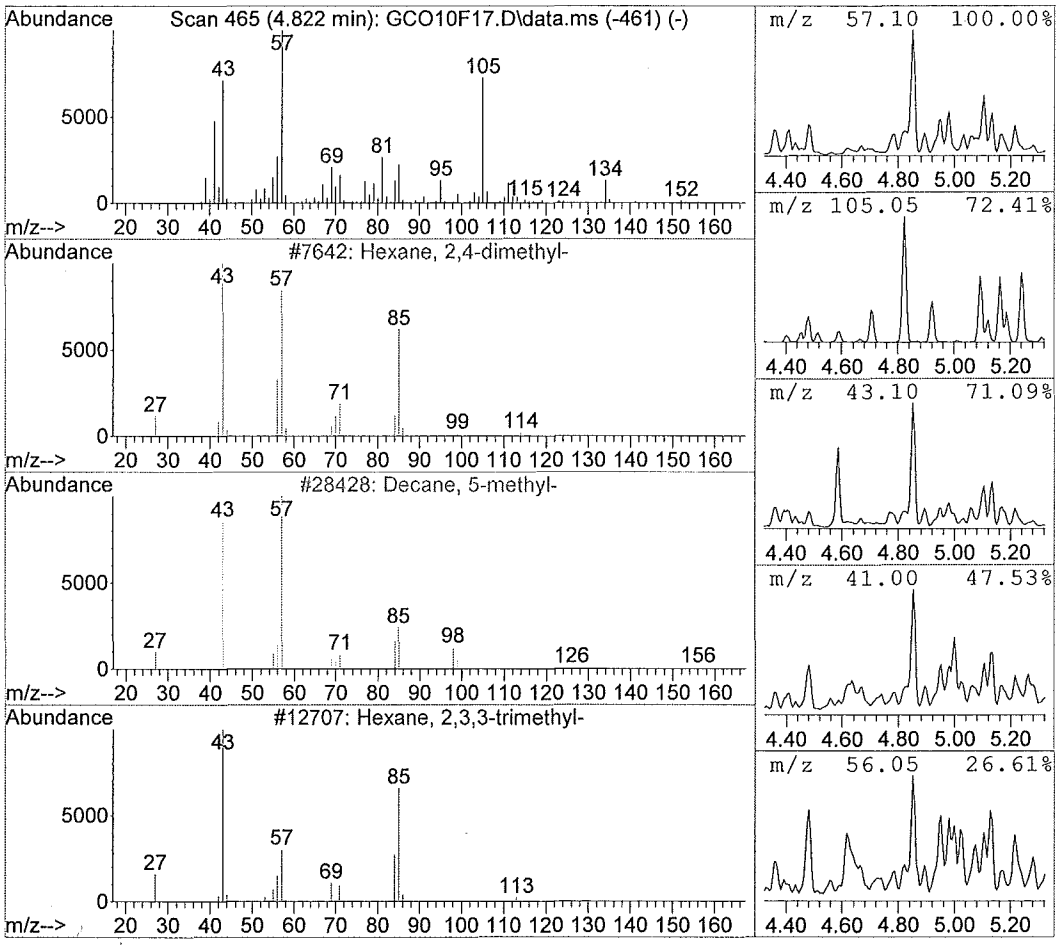
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.82	3.17 ug/ml	896109	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,4-dimethyl- BA	7642	000589-43-5	46.00
2	Decane, 5-methyl-	28428	013151-35-4	43.00
3	Hexane, 2,3,3-trimethyl-	12707	016747-28-7	38.00
4	1-Hexanol, 3,5,5-trimethyl-	21162	003452-97-9	27.00
5	Benzeneacetaldehyde, .alpha.-methyl	15358	000093-53-8	25.00



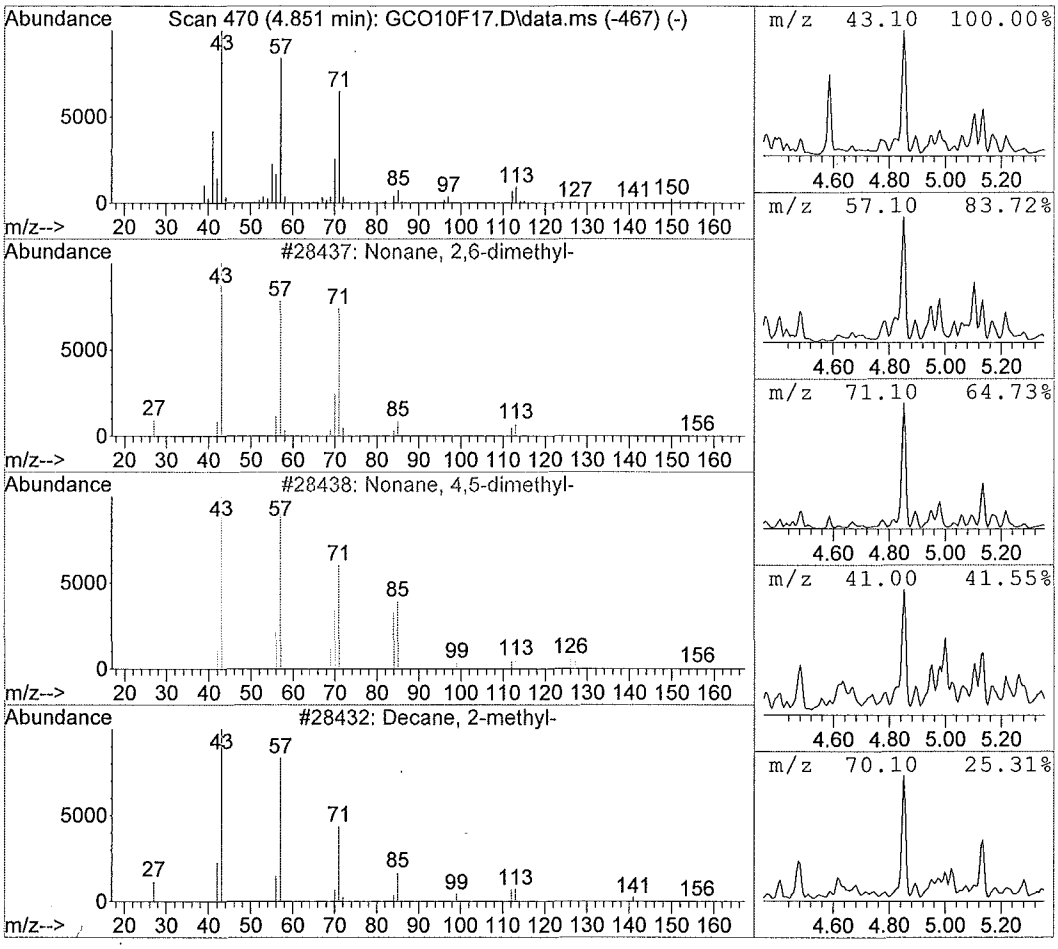
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.85	20.00 ug/ml	5661123	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonane, 2,6-dimethyl-	28437	017302-28-2	90.00
2	Nonane, 4,5-dimethyl- BA	28438	017302-23-7	80.00
3	Decane, 2-methyl-	28432	006975-98-0	72.00
4	Tridecane, 4-methyl-	59884	026730-12-1	64.00
5	Octane, 2,3,6-trimethyl-	28447	062016-33-5	64.00



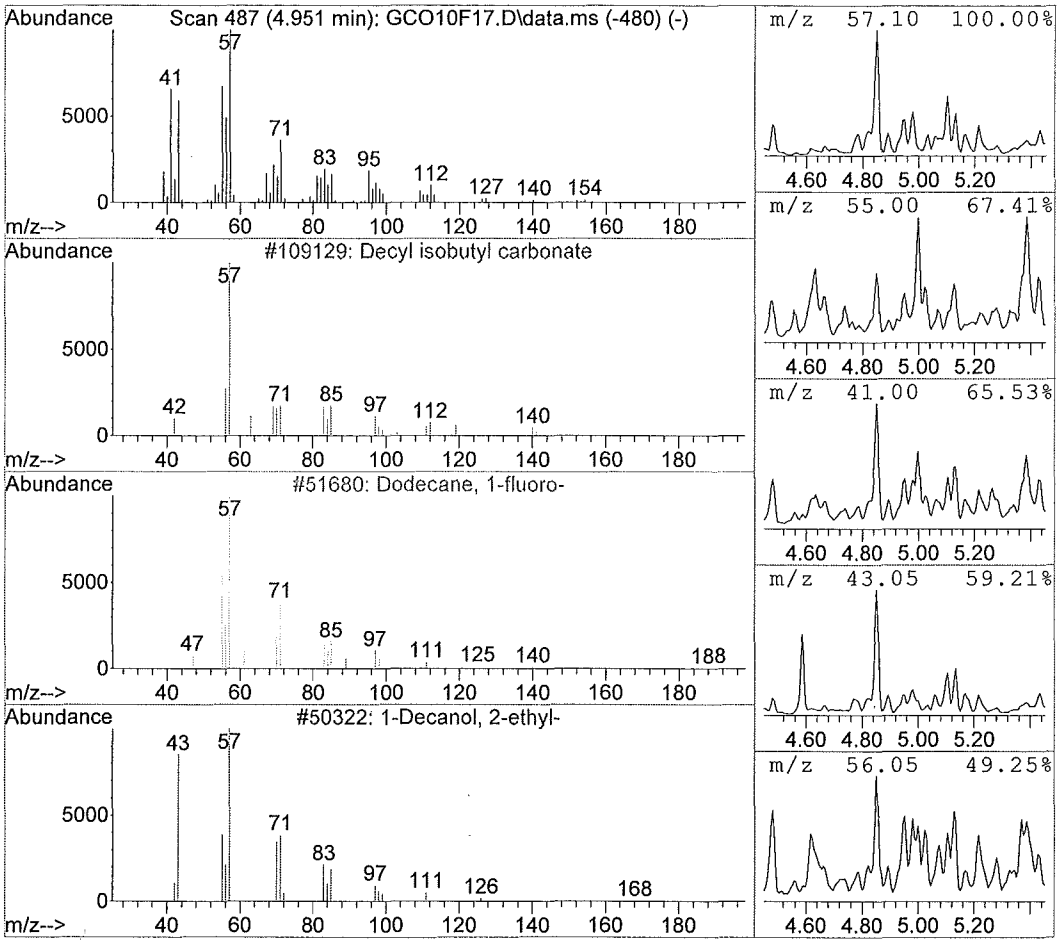
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.95	5.93 ug/ml	1679401	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decyl isobutyl carbonate	109129	959226-07-4	53.00
2	Dodecane, 1-fluoro-	51680	000334-68-9	50.00
3	1-Decanol, 2-ethyl-	50322	021078-65-9	50.00
4	1-Octene	6625	000111-66-0	49.00
5	Oxalic acid, isobutyl nonyl ester	120800	1000309-37-4	38.00



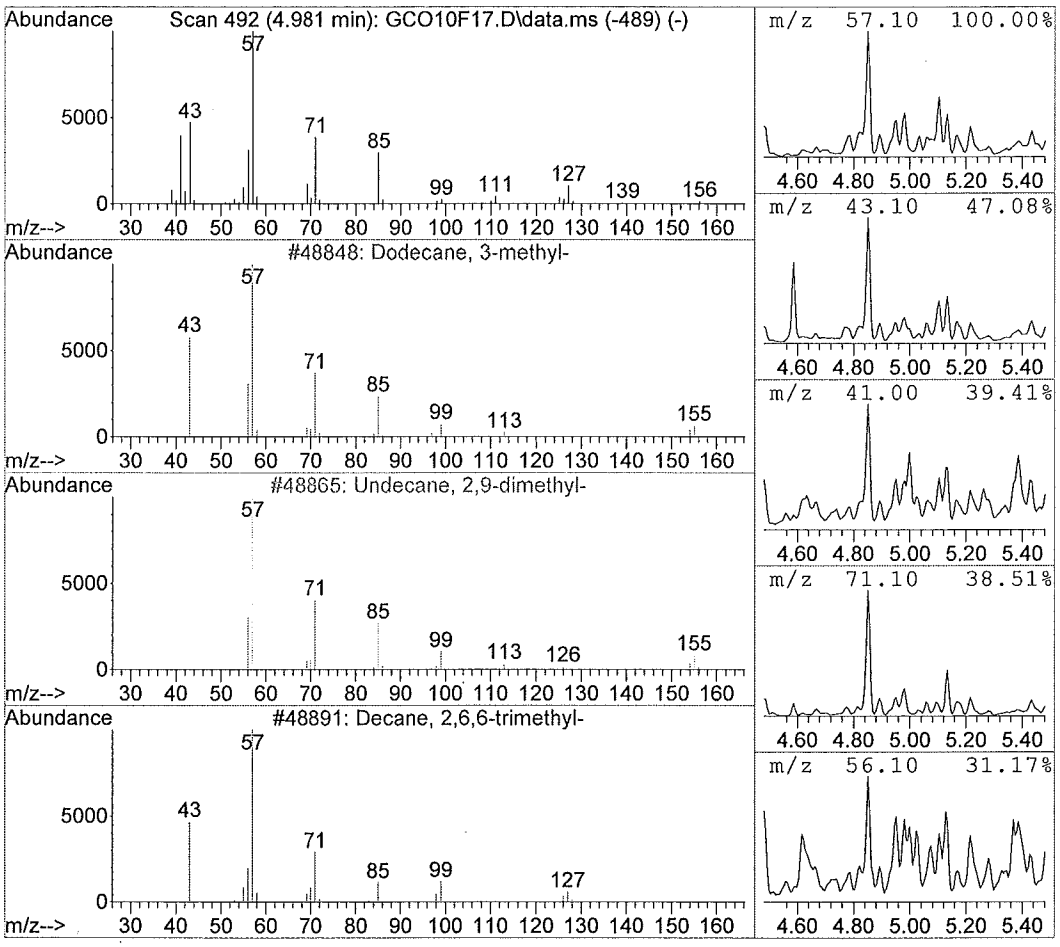
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.98	3.76 ug/ml	1062985	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 3-methyl- BA	48848	017312-57-1	64.00
2	Undecane, 2,9-dimethyl-	48865	017301-26-7	64.00
3	Decane, 2,6,6-trimethyl-	48891	062108-24-1	64.00
4	Decane, 3-methyl-	28429	013151-34-3	59.00
5	Oxalic acid, isobutyl nonyl ester	120800	1000309-37-4	56.00



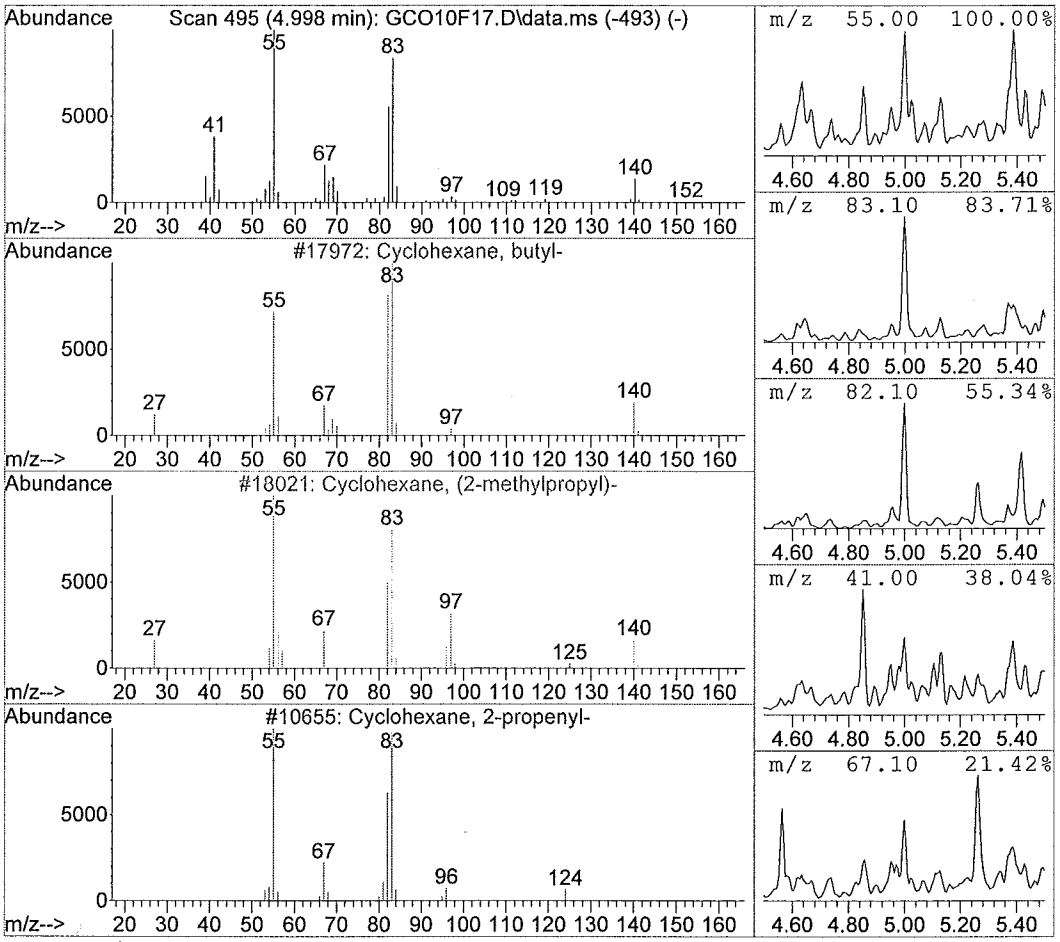
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.00	5.96 ug/ml	1685661	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, butyl- CA	17972	001678-93-9	91.00
2	Cyclohexane, (2-methylpropyl)-	18021	001678-98-4	87.00
3	Cyclohexane, 2-propenyl-	10655	002114-42-3	72.00
4	Cyclohexane, (1-methylethyl)-	11583	000696-29-7	72.00
5	Cyclohexane, octyl-	58301	001795-15-9	59.00



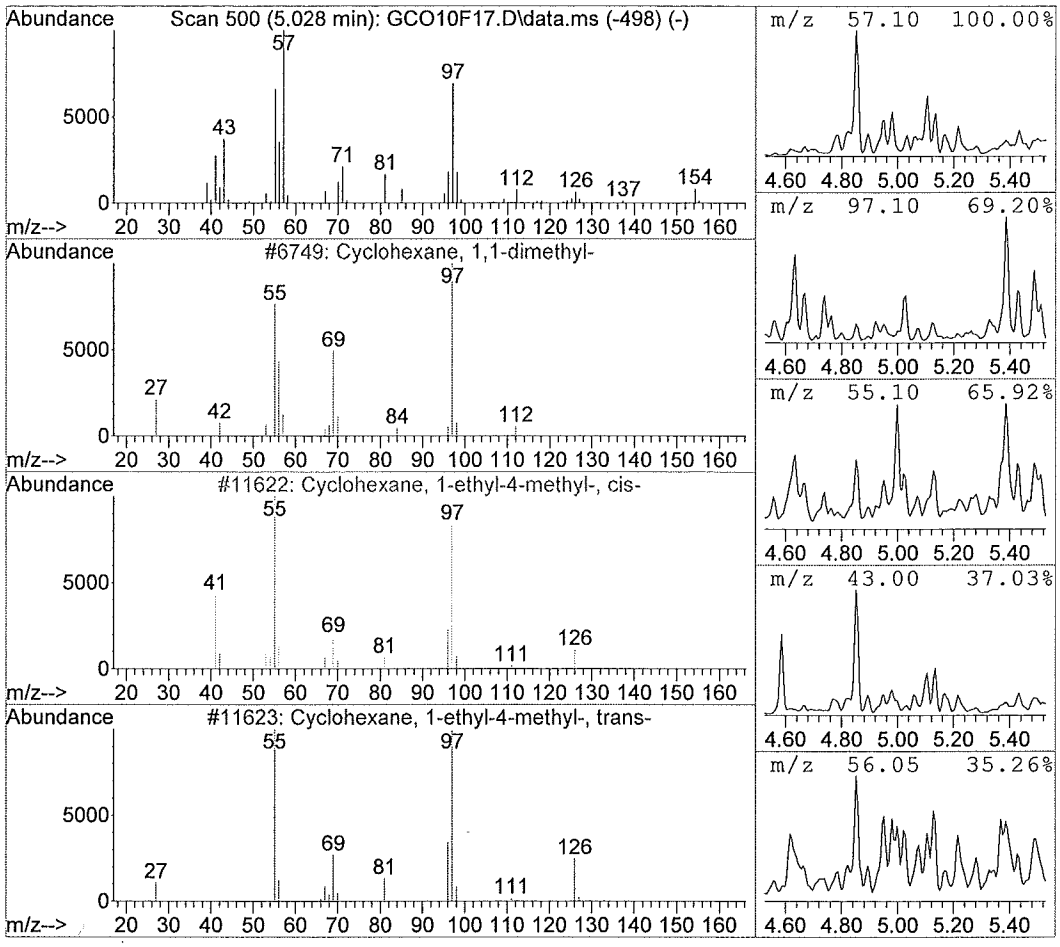
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.03	2.26 ug/ml	640960	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl- CA	6749	000590-66-9	46.00
2	Cyclohexane, 1-ethyl-4-methyl-, cis	11622	004926-78-7	38.00
3	Cyclohexane, 1-ethyl-4-methyl-, tra	11623	006236-88-0	38.00
4	1-Ethyl-3-methylcyclohexane (c,t)	11612	003728-55-0	38.00
5	Cyclohexane, 1-ethyl-2-methyl-	11603	003728-54-9	38.00



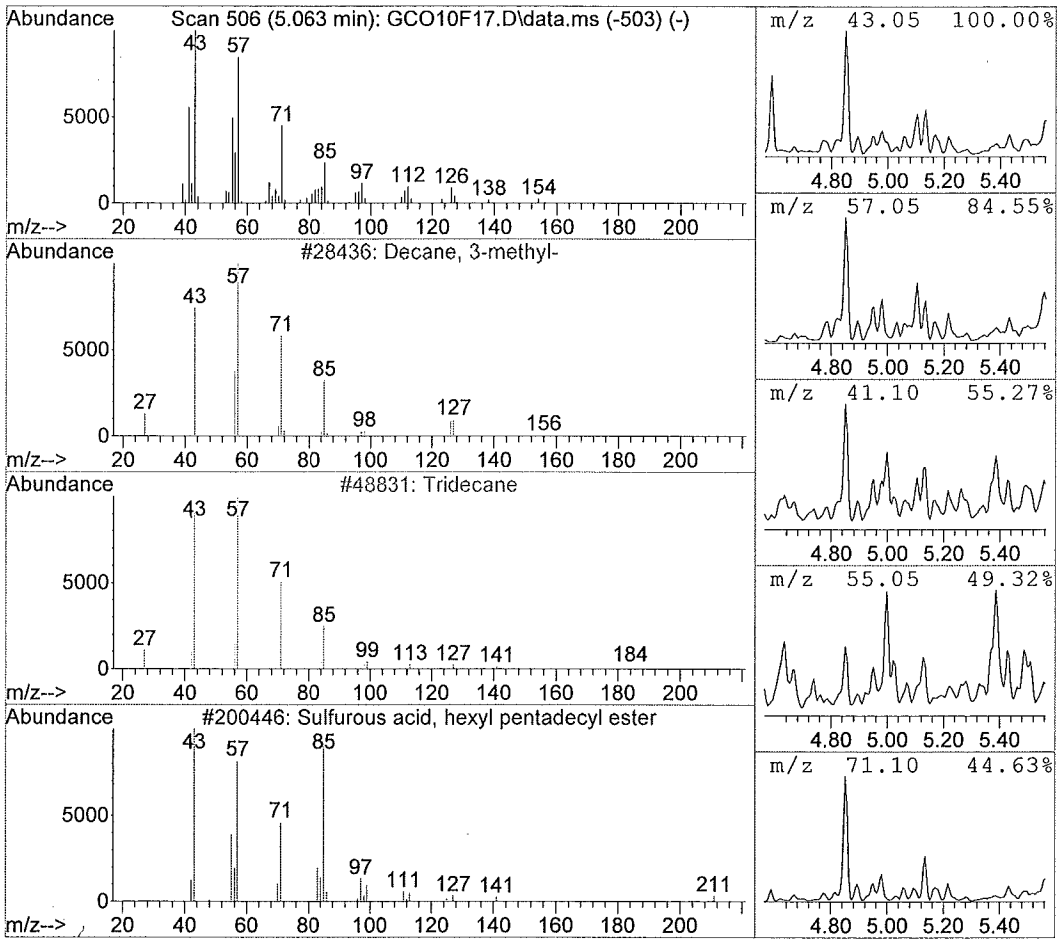
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.06	2.51 ug/ml	711506	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 3-methyl-	28436	013151-34-3	68.00
2	Tridecane BA	48831	000629-50-5	53.00
3	Sulfurous acid, hexyl pentadecyl es	200446	1000309-13-7	47.00
4	Oxalic acid, isohexyl neopentyl est	97086	1000309-73-0	43.00
5	Hexane, 2,4-dimethyl-	7633	000589-43-5	43.00



: 00671

Library Search Compound Report

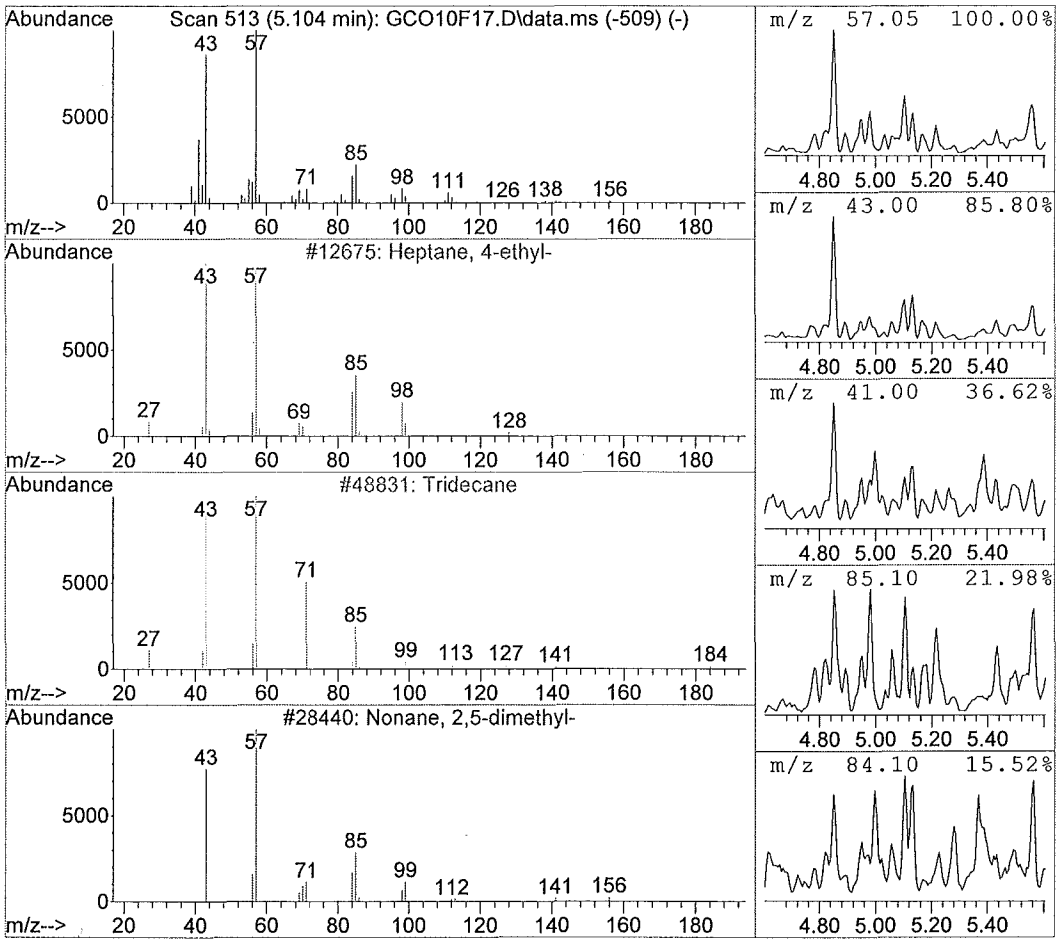
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.10	4.94 ug/ml	1398461	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 4-ethyl-	12675	002216-32-2	72.00
2	Tridecane	48831	000629-50-5	64.00
3	Nonane, 2,5-dimethyl-	28440	017302-27-1	59.00
4	Undecane, 5,7-dimethyl-	48859	017312-83-3	53.00
5	Decane, 5-methyl-	28435	013151-35-4	53.00

BA



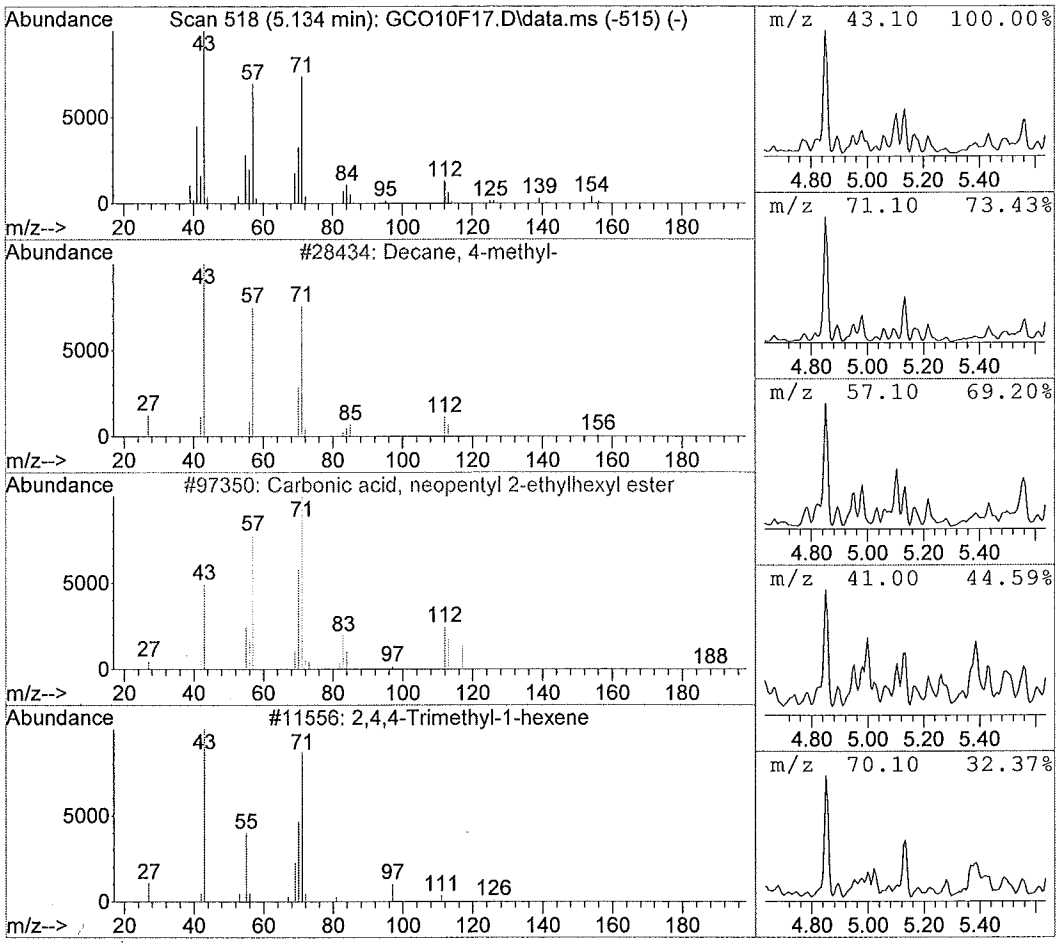
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.13	5.48 ug/ml	1551663	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 4-methyl- BA	28434	002847-72-5	76.00
2	Carbonic acid, neopentyl 2-ethylhex	97350	1000357-85-7	72.00
3	2,4,4-Trimethyl-1-hexene	11556	051174-12-0	53.00
4	Tridecane, 7-methyl-	59891	026730-14-3	53.00
5	Octane, 3-ethyl-	19160	005881-17-4	53.00



: 00673

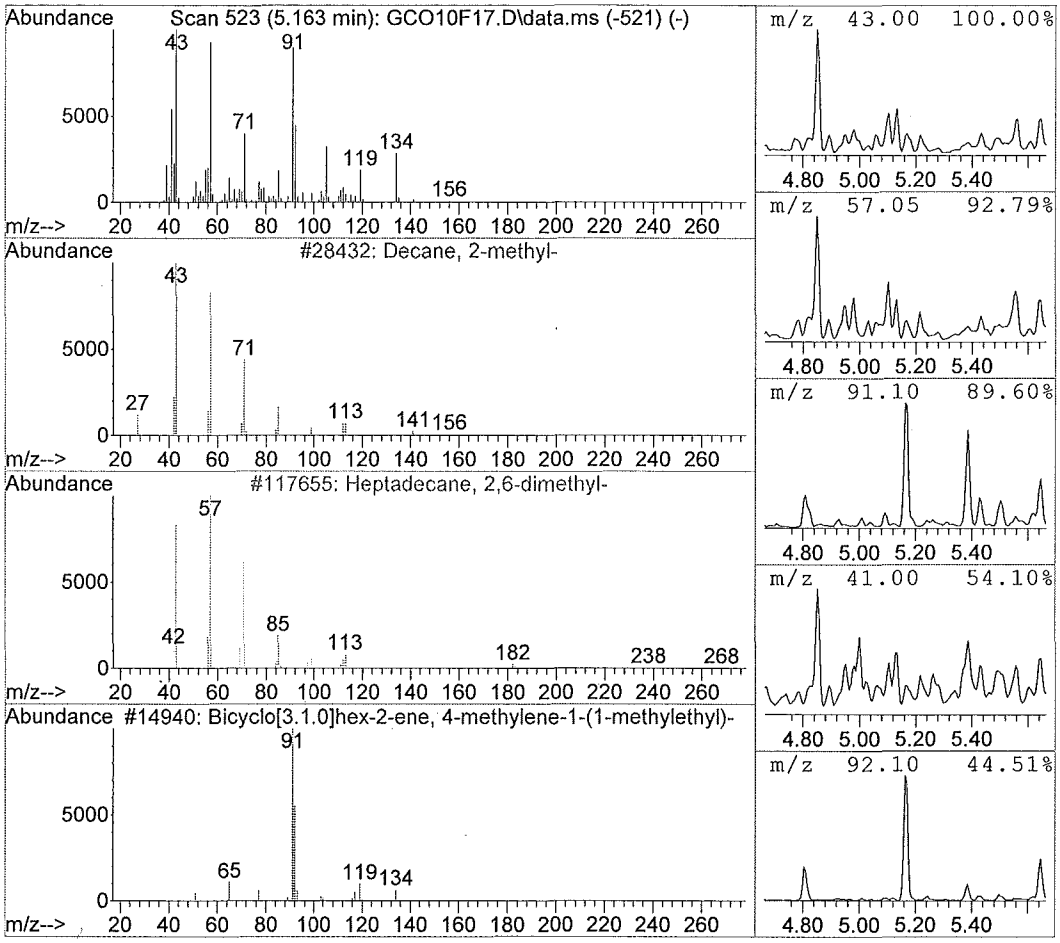
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.16	4.09 ug/ml	1158924	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 2-methyl- BA	28432	006975-98-0	38.00
2	Heptadecane, 2,6-dimethyl-	117655	054105-67-8	35.00
3	Bicyclo[3.1.0]hex-2-ene, 4-methylen	14940	036262-09-6	30.00
4	Benzene, (2-methylpropyl)-	14850	000538-93-2	30.00
5	Benzene, butyl-	14824	000104-51-8	25.00



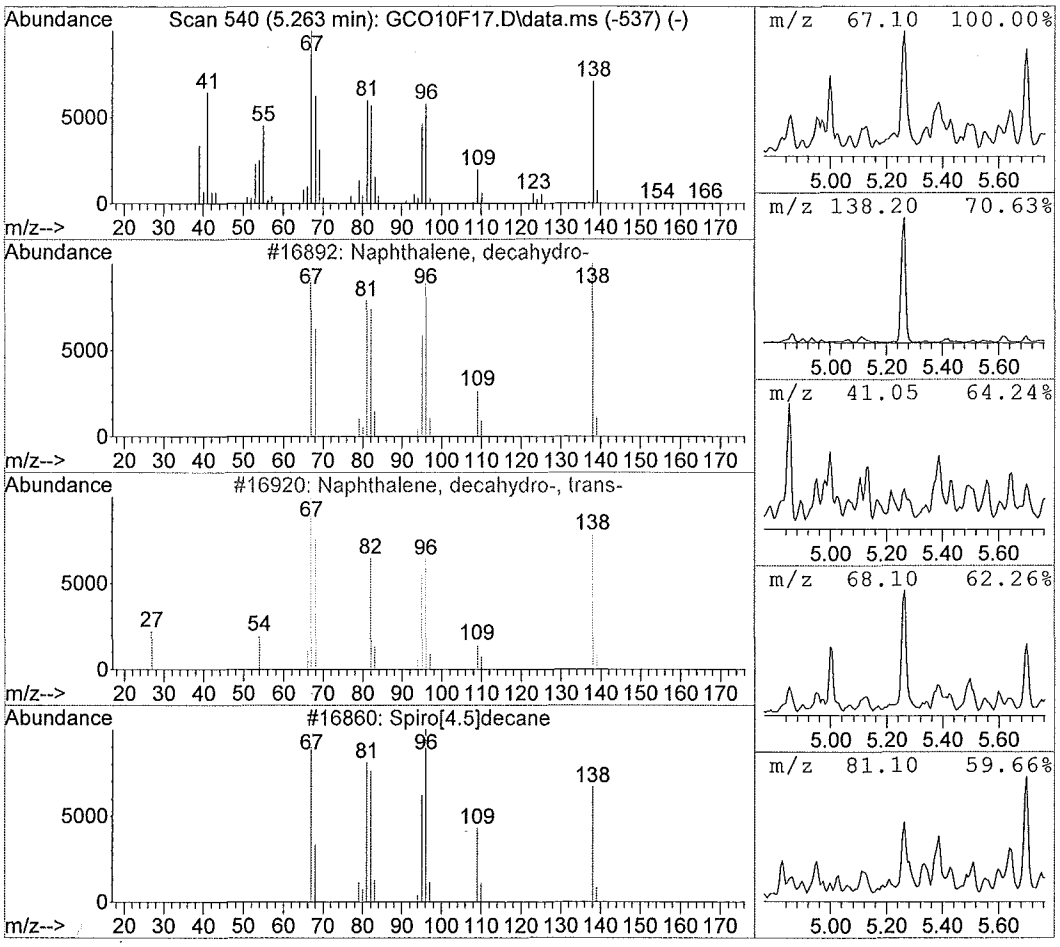
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.26	5.22 ug/ml	1477315	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, decahydro-	16892	000091-17-8	93.00
2	Naphthalene, decahydro-, trans-	16920	000493-02-7	91.00
3	Spiro[4.5]decane	16860	000176-63-6	89.00
4	Naphthalene, decahydro-, cis-	16914	000493-01-6	87.00
5	4,5-Nonadiene	10620	000821-74-9	70.00



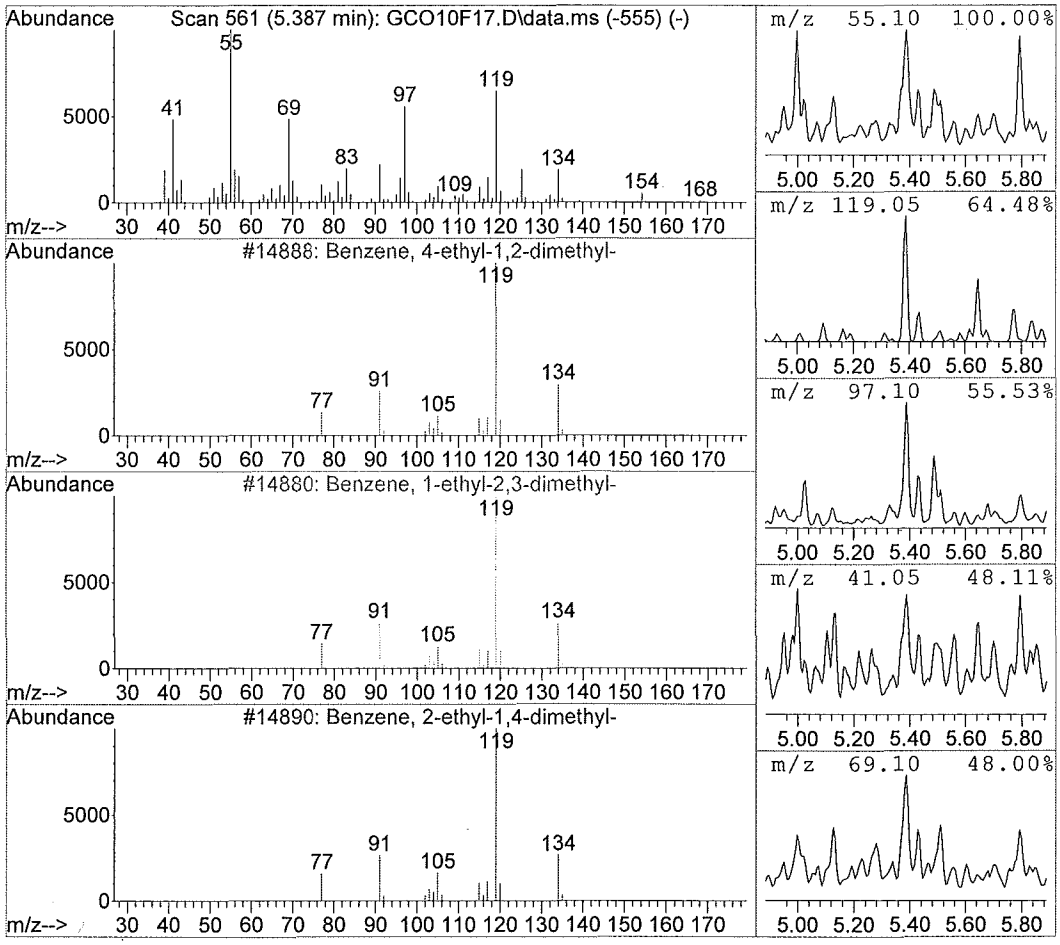
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.39	12.59 ug/ml	3564789	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	14888	000934-80-5	68.00
2	Benzene, 1-ethyl-2,3-dimethyl-	14880	000933-98-2	64.00
3	Benzene, 2-ethyl-1,4-dimethyl-	14890	001758-88-9	60.00
4	Benzene, 2-ethyl-1,3-dimethyl-	14879	002870-04-4	60.00
5	Benzene, 1-ethyl-2,4-dimethyl-	14881	000874-41-9	35.00



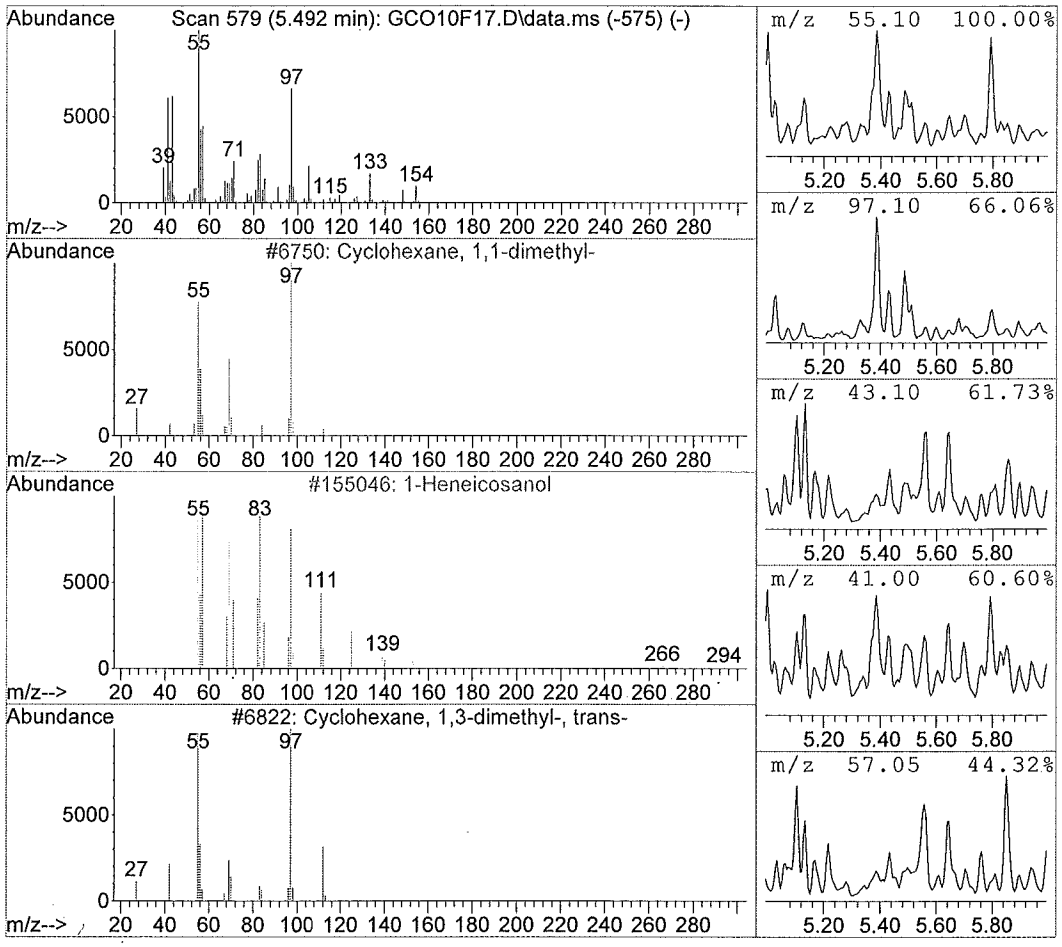
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.49	6.72 ug/ml	1903265	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl- CA	6750	000590-66-9	50.00
2	1-Heneicosanol	155046	015594-90-8	38.00
3	Cyclohexane, 1,3-dimethyl-, trans-	6822	002207-03-6	38.00
4	Cyclohexane, 1,4-dimethyl-	6741	000589-90-2	35.00
5	Fenproporex	51641	015686-61-0	27.00



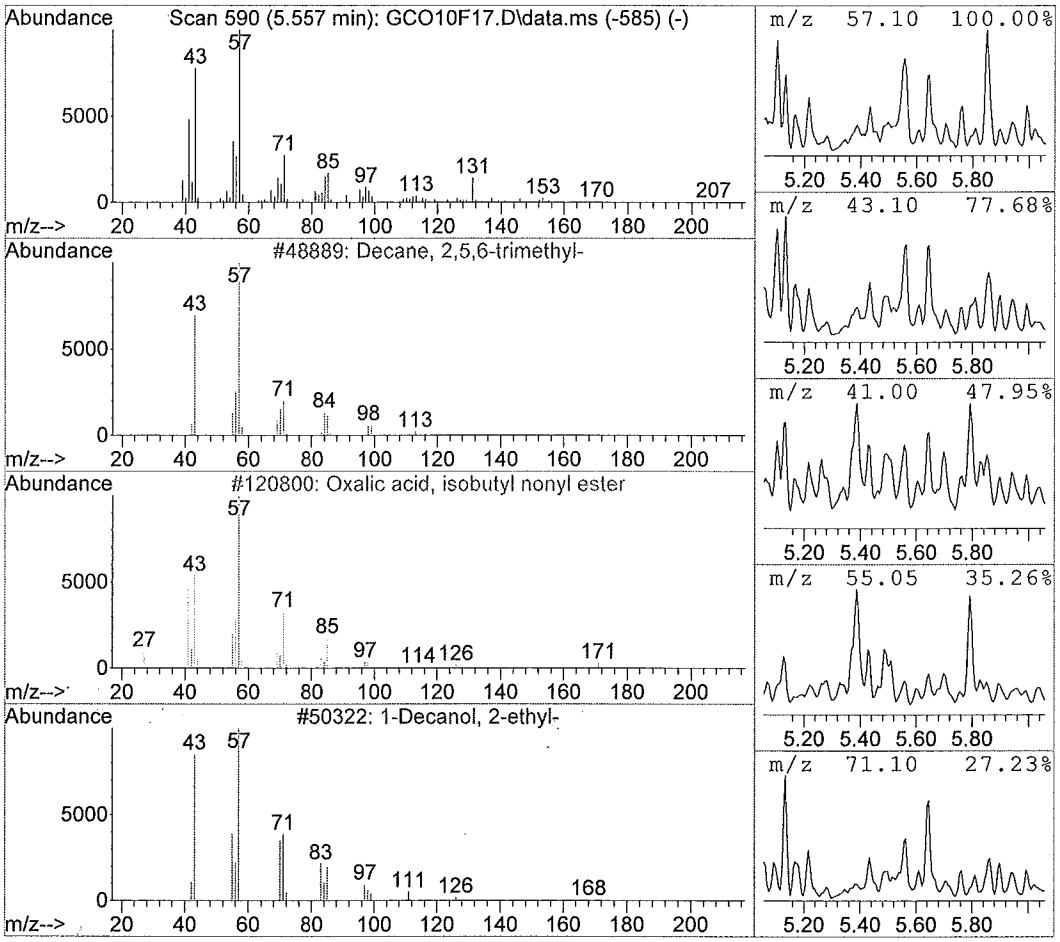
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.56	5.42 ug/ml	1534110	1,4-Dichlorobenzene-d4	5661123

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 2,5,6-trimethyl- BA	48889	062108-23-0	64.00
2	Oxalic acid, isobutyl nonyl ester	120800	1000309-37-4	58.00
3	1-Decanol, 2-ethyl-	50322	021078-65-9	58.00
4	Sulfurous acid, butyl decyl ester	125656	1000309-17-7	47.00
5	Undecane, 5-methyl-	38332	001632-70-8	46.00



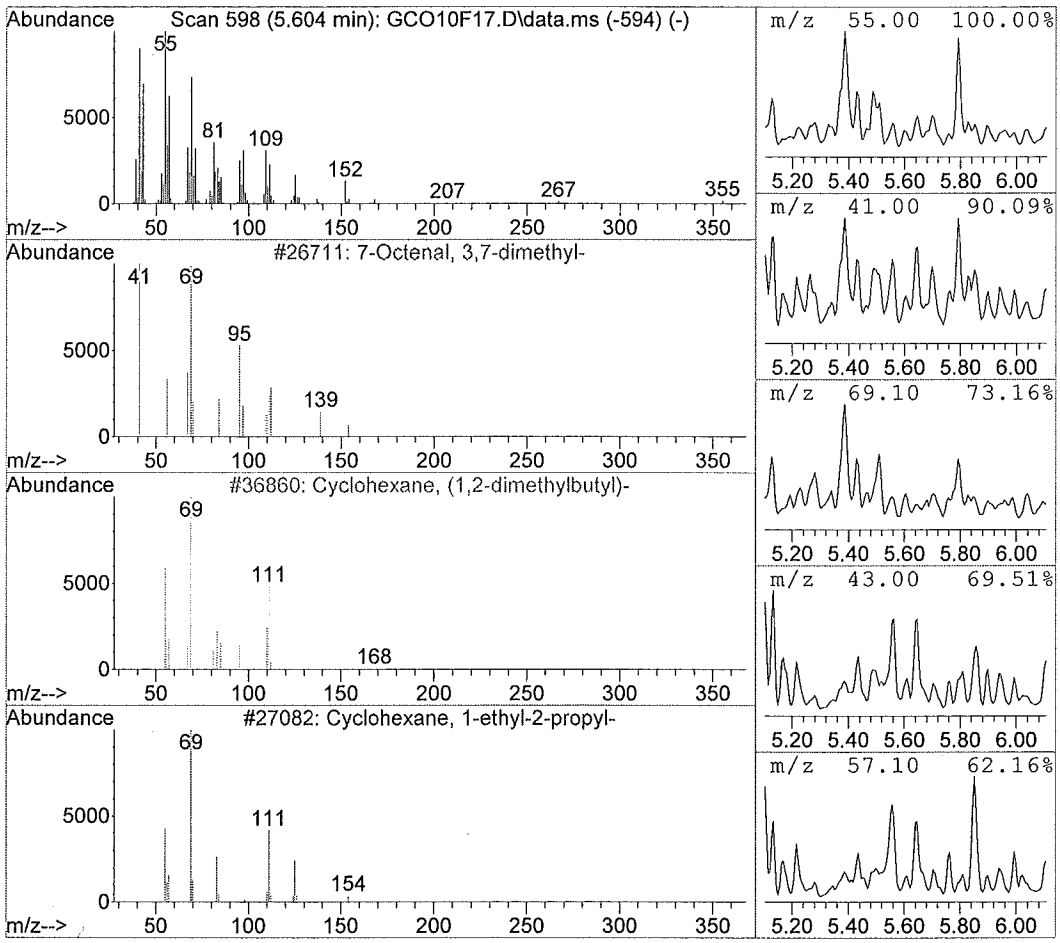
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.60	2.77 ug/ml	647841	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Octenal, 3,7-dimethyl-	26711	000141-26-4	47.00
2	Cyclohexane, (1,2-dimethylbutyl)-	36860	061142-37-8	46.00
3	Cyclohexane, 1-ethyl-2-propyl-	27082	062238-33-9	43.00
4	Citronellal	26636	000106-23-0	43.00
5	Cyclopropane, 1,1-dimethyl-2-(2-met	10729	069147-03-1	38.00



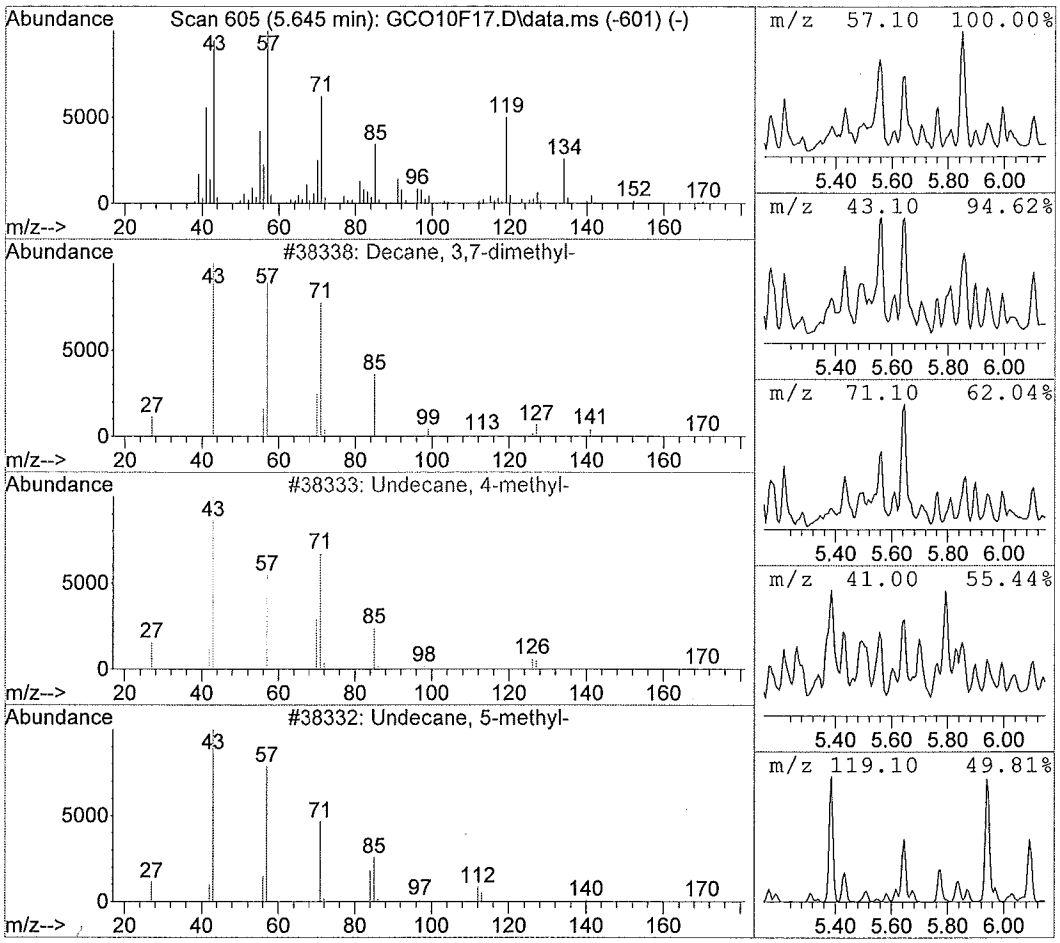
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.65	6.66 ug/ml	1557379	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Decane, 3,7-dimethyl-	38338	017312-54-8	49.00
2	Undecane, 4-methyl- BA	38333	002980-69-0	38.00
3	Undecane, 5-methyl-	38332	001632-70-8	38.00
4	Eicosane, 10-methyl-	141431	054833-23-7	38.00
5	Decane, 2,4-dimethyl-	38339	002801-84-5	38.00



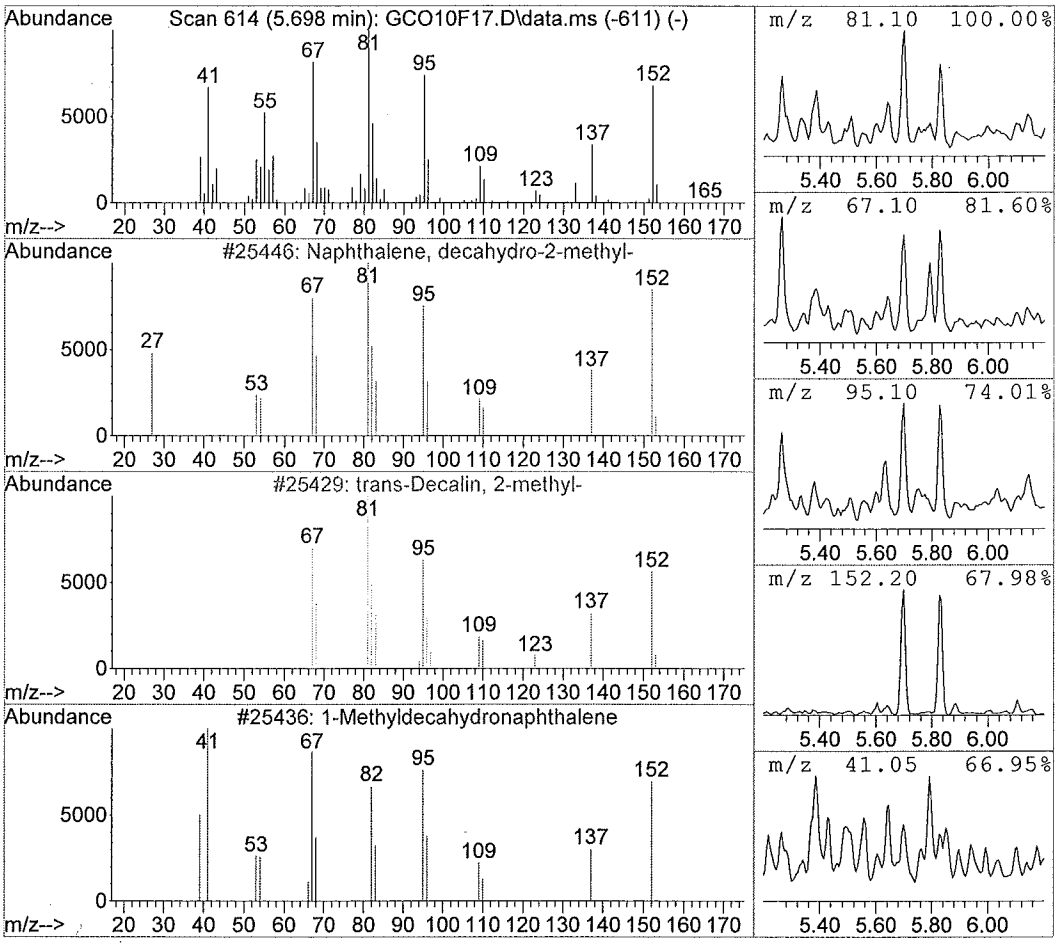
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.70	6.40 ug/ml	1497766	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	25446	002958-76-1	95.00
2	trans-Decalin, 2-methyl-	25429	1000152-47-3	95.00
3	1-Methyldecahydronaphthalene	25436	002958-75-0	89.00
4	Bicyclo[4.1.0]heptane, 3-methyl-	6015	041977-47-3	86.00
5	6-Dodecyne	35138	006975-99-1	72.00



Library Search Compound Report

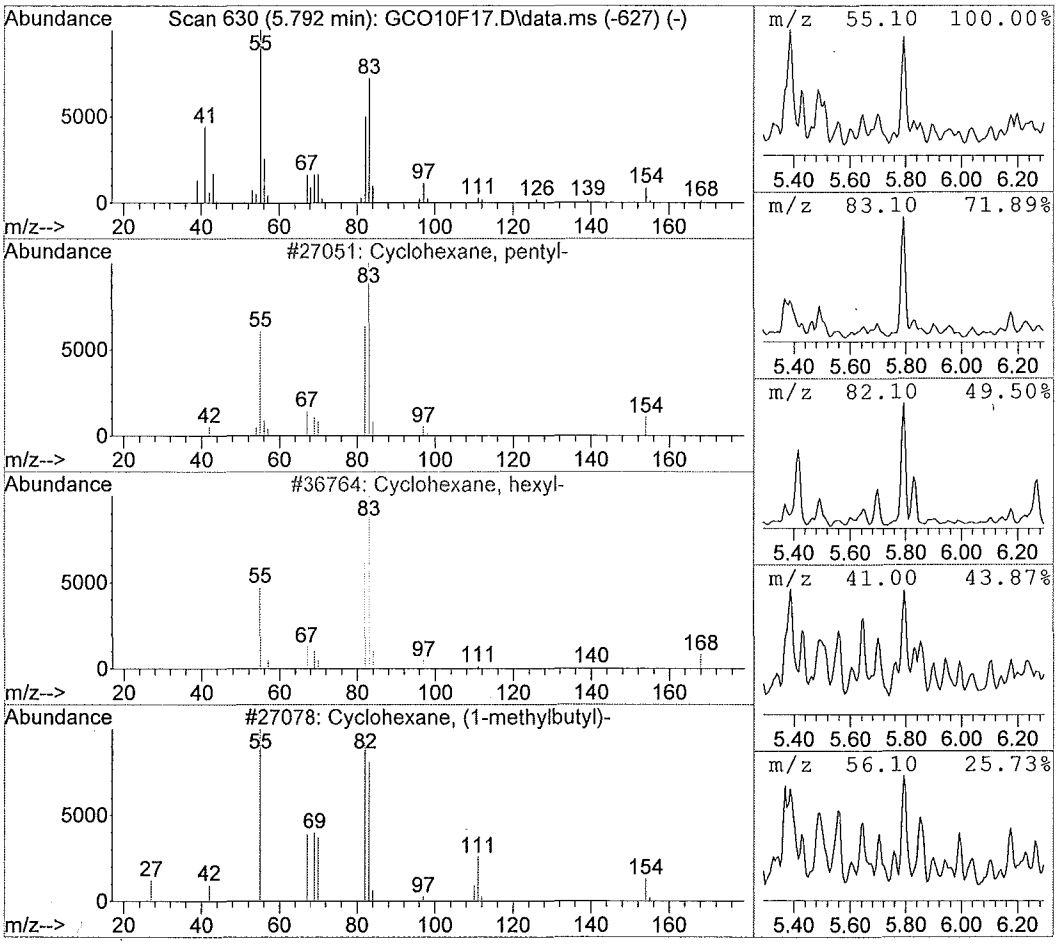
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.79	7.13 ug/ml	1668024	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, pentyl-	27051	004292-92-6	72.00
2	Cyclohexane, hexyl-	36764	004292-75-5	59.00
3	Cyclohexane, (1-methylbutyl)-	27078	061208-94-4	49.00
4	Cyclopentane, 1-ethyl-1-methyl-	6797	016747-50-5	47.00
5	3-Ethyl-3-hexene	6654	016789-51-8	47.00

CA



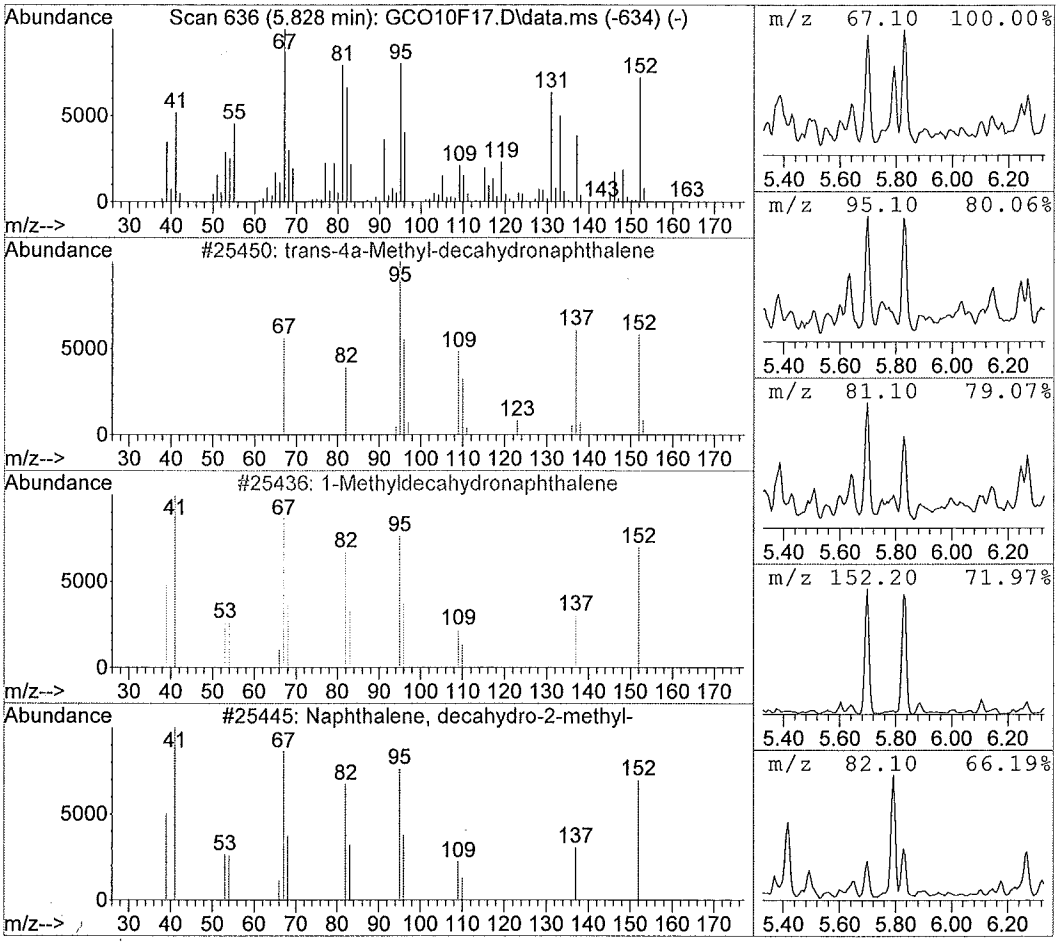
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.83	4.46 ug/ml	1043376	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	trans-4a-Methyl-decahydronaphthalen	25450	002547-27-5	78.00
2	1-Methyldecahydronaphthalene	25436	002958-75-0	70.00
3	Naphthalene, decahydro-2-methyl-	25445	002958-76-1	70.00
4	trans-Decalin, 2-methyl-	25429	1000152-47-3	53.00
5	Spiro[5.5]undecane	25411	000180-43-8	46.00



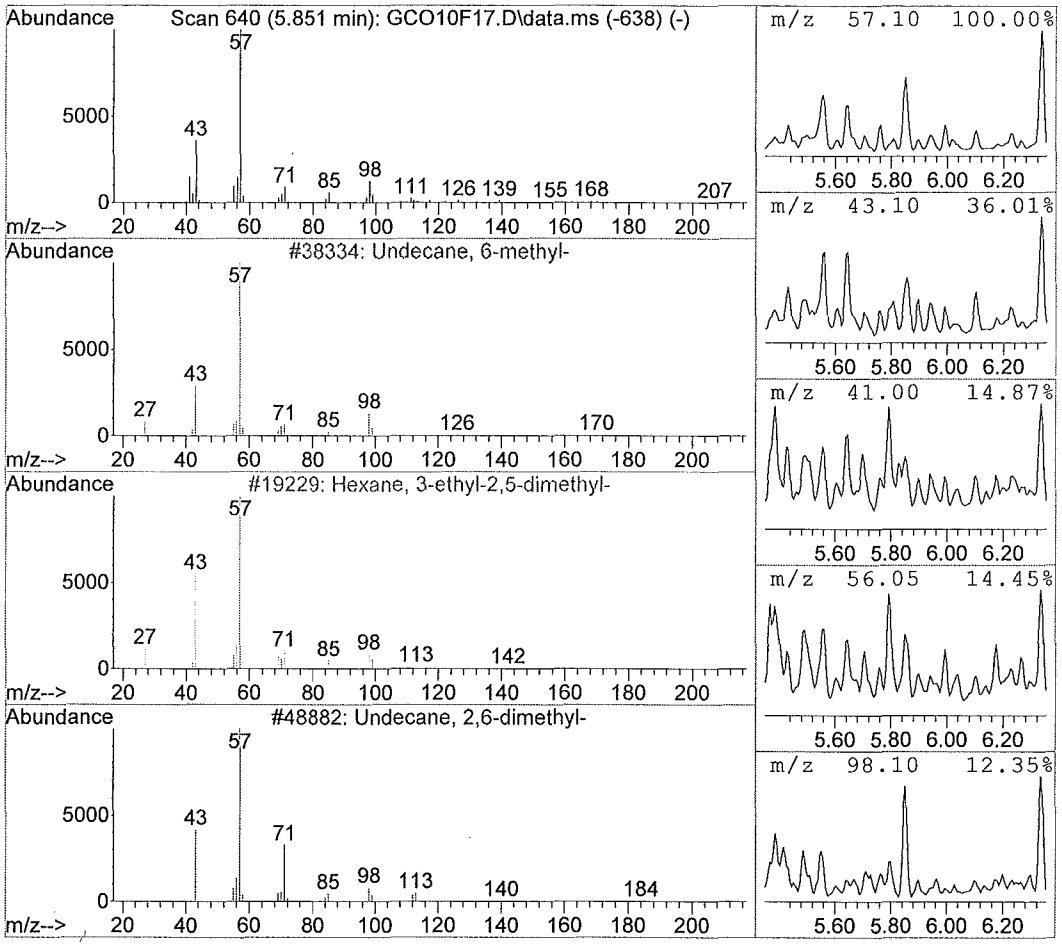
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.85	4.28 ug/ml	1000560	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 6-methyl-	38334	017302-33-9	74.00
2	Hexane, 3-ethyl-2,5-dimethyl- BA	19229	052897-04-8	50.00
3	Undecane, 2,6-dimethyl-	48882	017301-23-4	50.00
4	Nonane, 2,2,4,4,6,8,8-heptamethyl-	83055	004390-04-9	50.00
5	Octane, 3-methyl-	12677	002216-33-3	47.00



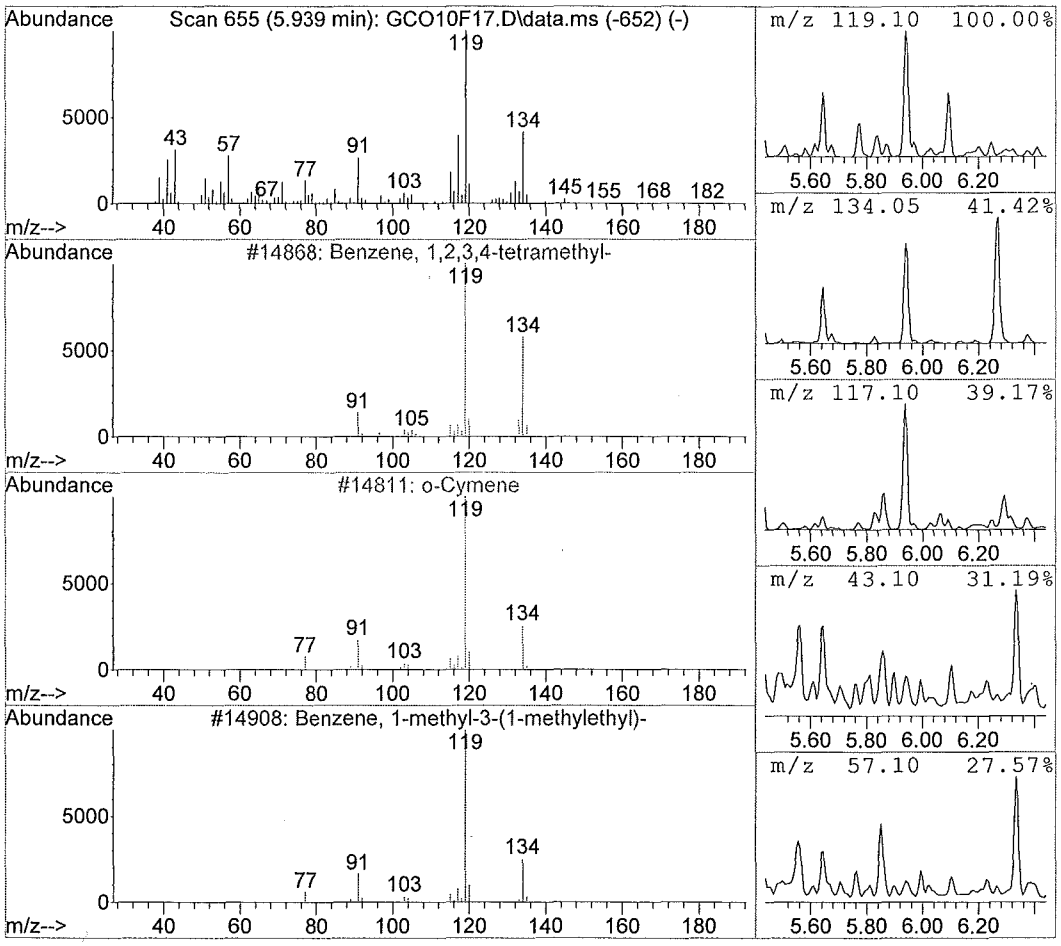
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.94	6.43 ug/ml	1504405	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, 1,2,3,4-tetramethyl-	14868	000488-23-3	76.00
2	o-Cymene	14811	000527-84-4	70.00
3	Benzene, 1-methyl-3-(1-methylethyl)	14908	000535-77-3	70.00
4	Benzene, 1,2,4,5-tetramethyl-	14872	000095-93-2	70.00
5	1,3-Cyclopentadiene, 1,2,3,4-tetram	14939	076089-59-3	70.00



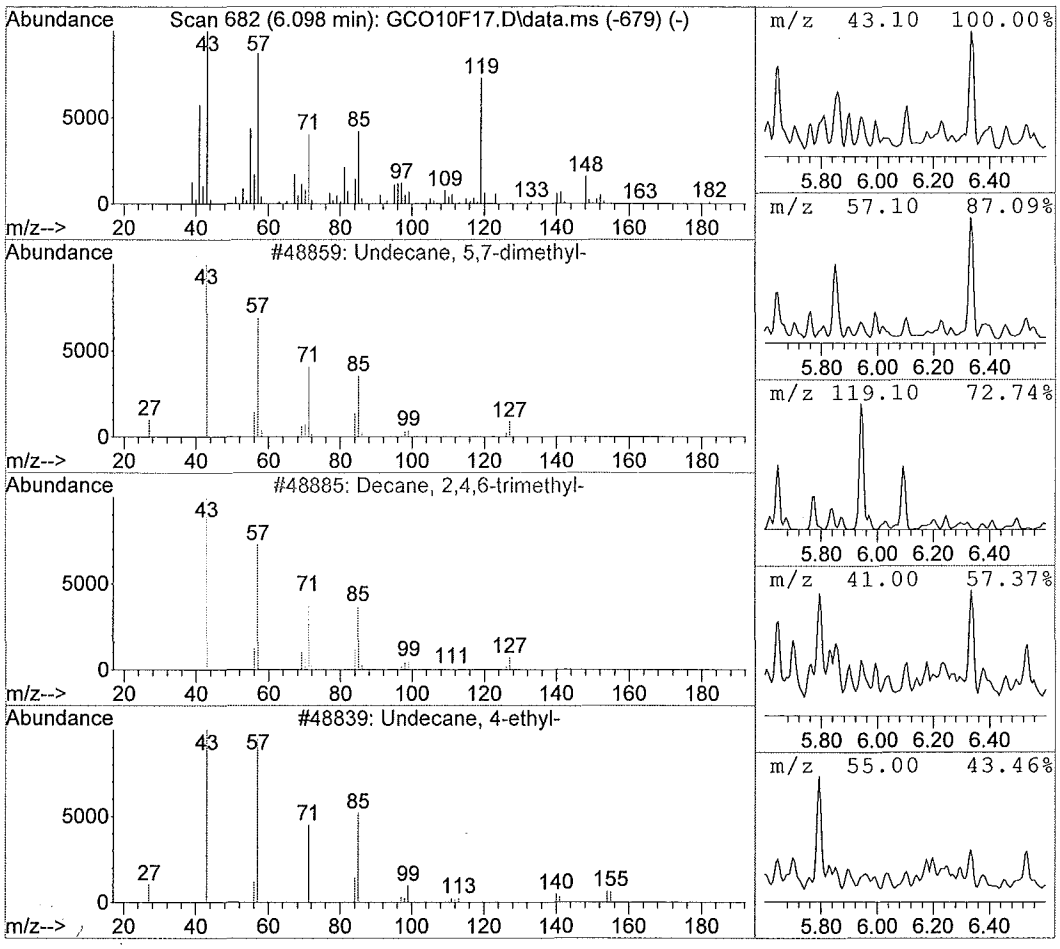
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.10	3.48 ug/ml	813727	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 5,7-dimethyl-	48859	017312-83-3	46.00
2	Decane, 2,4,6-trimethyl- BA	48885	062108-27-4	46.00
3	Undecane, 4-ethyl-	48839	017312-59-3	43.00
4	Decane, 2,4-dimethyl-	38339	002801-84-5	43.00
5	Undecane, 3,7-dimethyl-	48858	017301-29-0	43.00



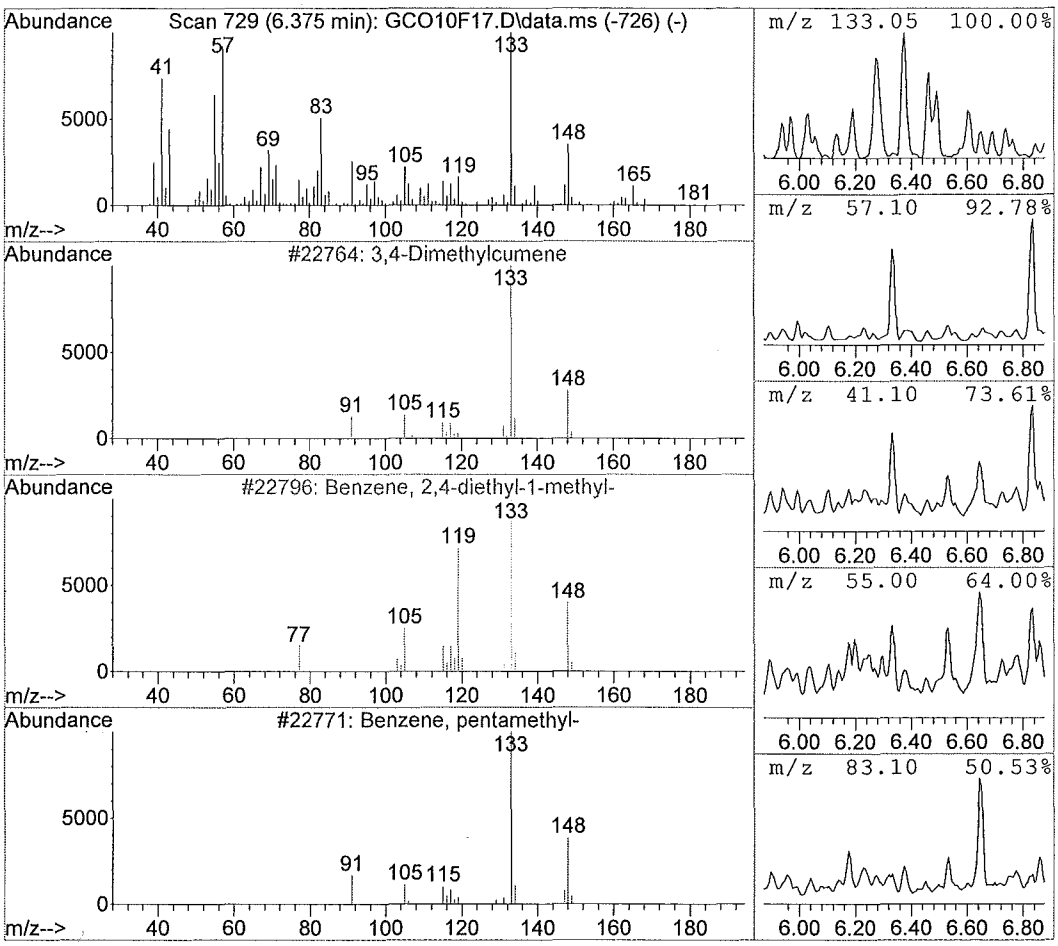
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.37	3.94 ug/ml	921860	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3,4-Dimethylcumene	22764	1000370-34-1	90.00
2	Benzene, 2,4-diethyl-1-methyl-	22796	001758-85-6	70.00
3	Benzene, pentamethyl-	22771	000700-12-9	60.00
4	Benzene, 1,3-dimethyl-5-(1-methylet	22830	004706-90-5	60.00
5	Benzene, 1,4-diethyl-2-methyl-	22797	013632-94-5	55.00



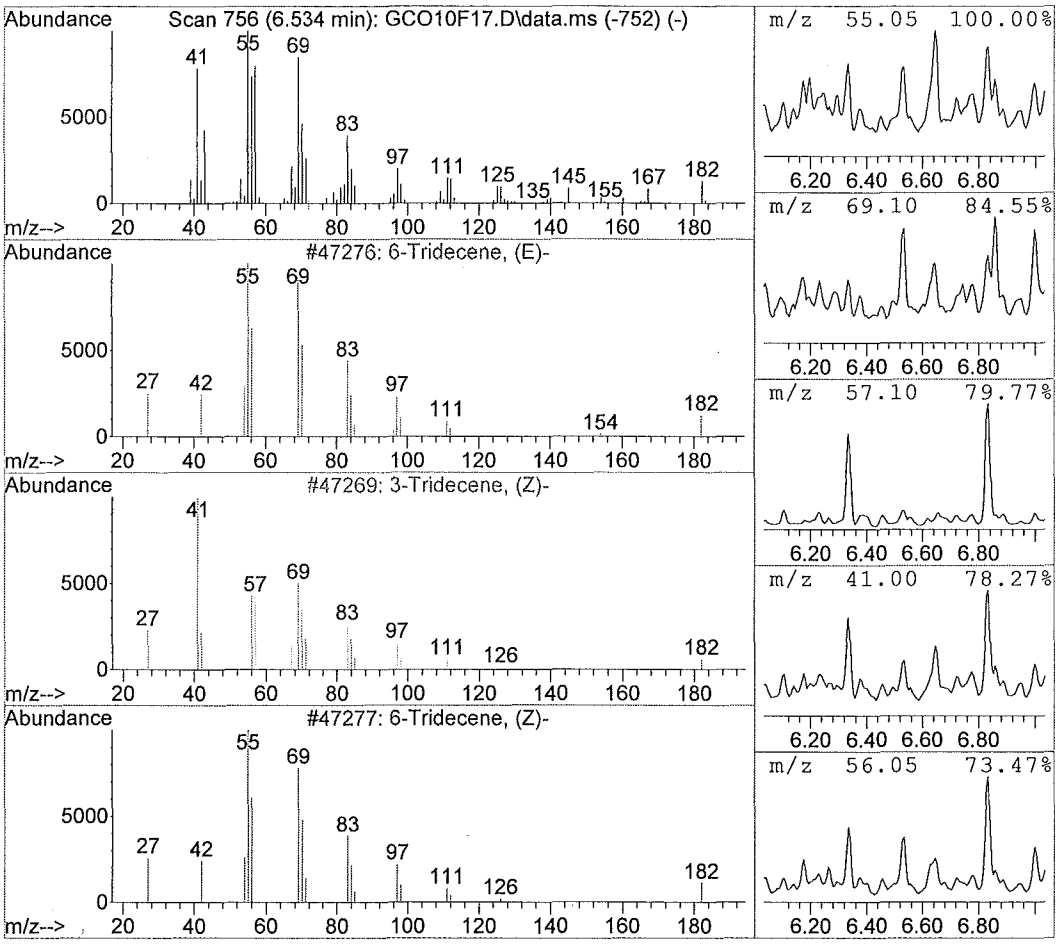
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.53	3.28 ug/ml	766500	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	6-Tridecene, (E)-	47276	006434-76-0	93.00
2	3-Tridecene, (Z)-	47269	041446-53-1	93.00
3	6-Tridecene, (Z)-	47277	006508-77-6	93.00
4	5-Tridecene, (E)-	47273	023051-84-5	90.00
5	3-Tridecene, (E)-	47272	041446-57-5	90.00



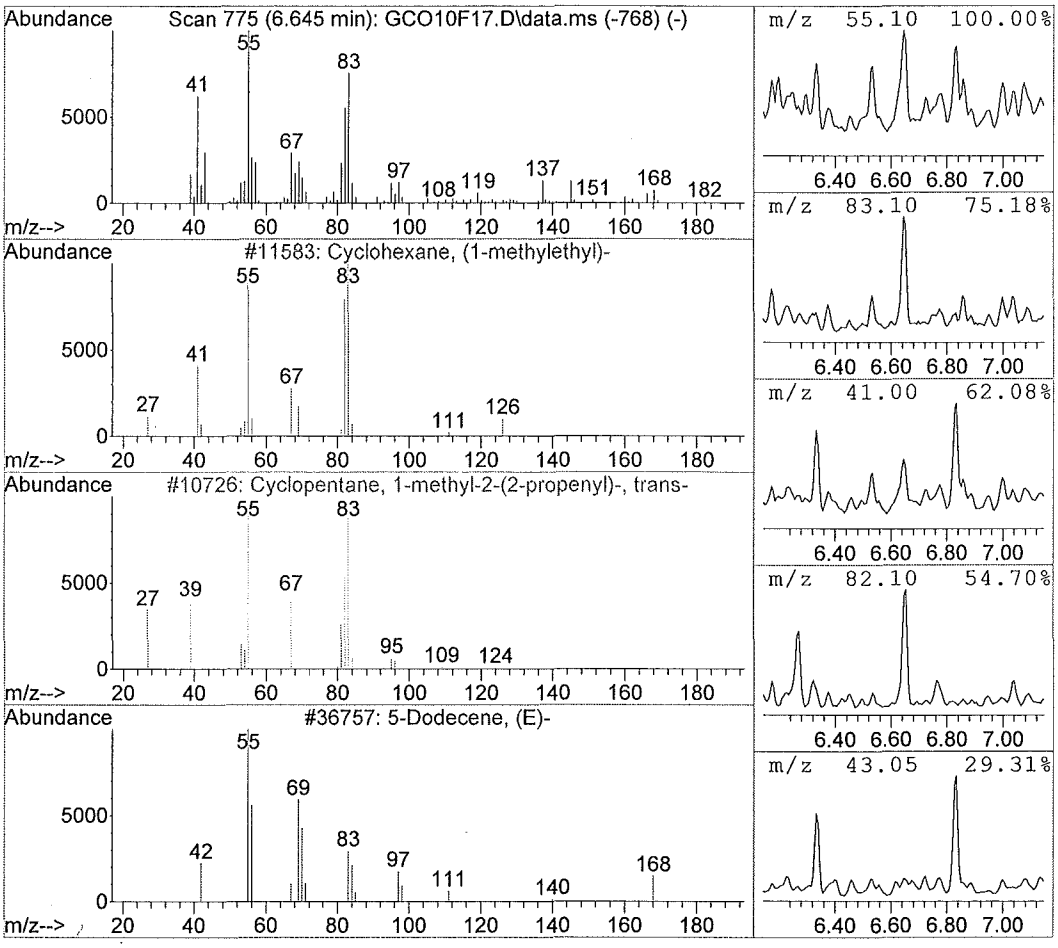
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.65	7.49 ug/ml	1751952	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, (1-methylethyl)- CA	11583	000696-29-7	59.00
2	Cyclopentane, 1-methyl-2-(2-propeny	10726	050746-53-7	58.00
3	5-Dodecene, (E)-	36757	007206-16-8	25.00
4	4-Dodecene, (E)-	36752	007206-15-7	25.00
5	5-Dodecene, (Z)-	36754	007206-28-2	25.00



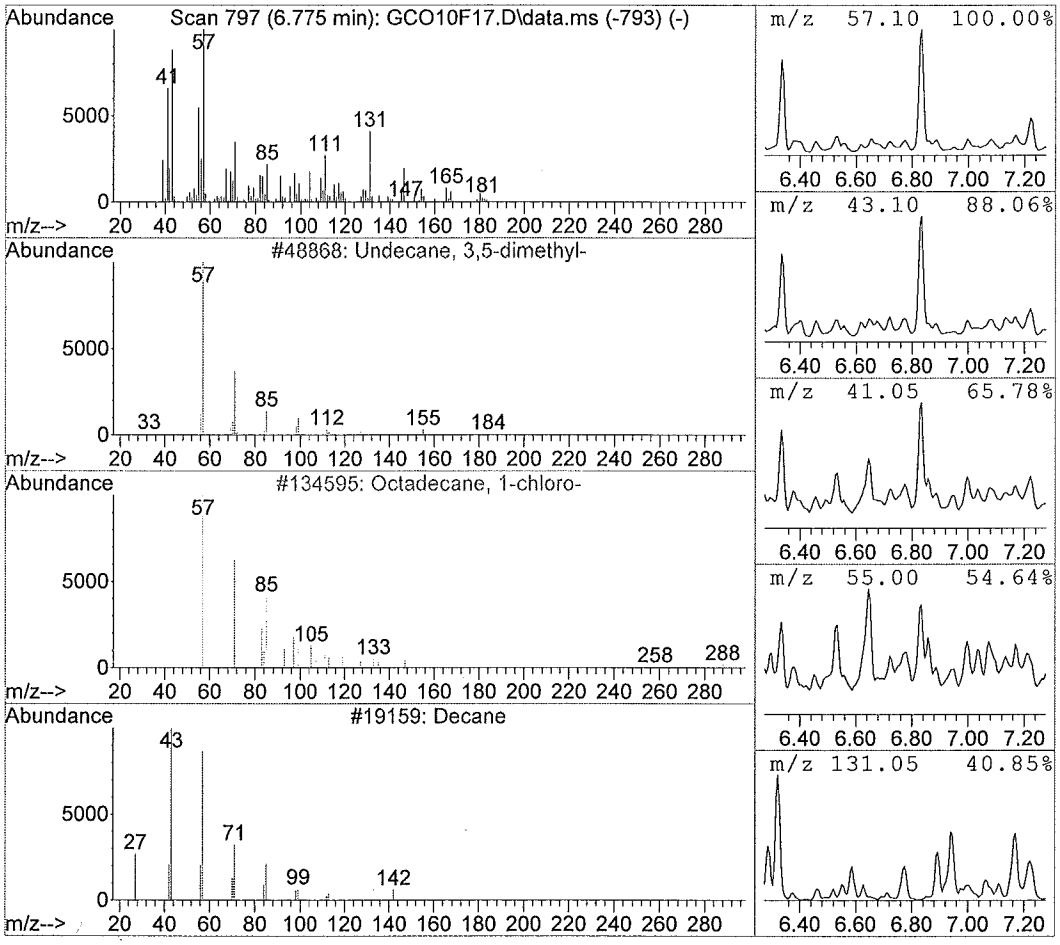
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.77	3.55 ug/ml	831038	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 3,5-dimethyl- BA	48868	017312-81-1	25.00
2	Octadecane, 1-chloro-	134595	003386-33-2	22.00
3	Decane	19159	000124-18-5	18.00
4	Sulfurous acid, pentadecyl 2-propyl	172312	1000309-12-6	14.00
5	Sulfurous acid, 2-propyl tridecyl e	149373	1000309-12-4	14.00



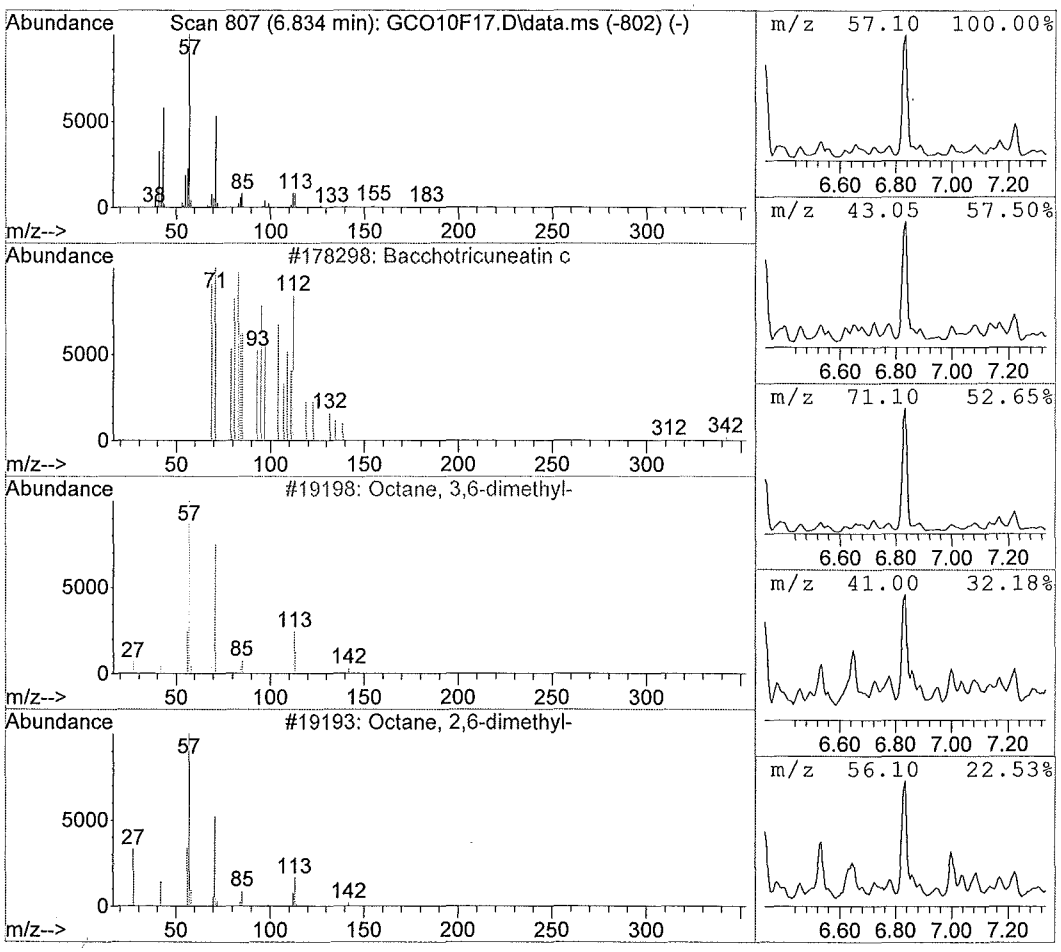
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.83	13.12 ug/ml	3070084	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bacchotricuneatin c	178298	066563-30-2	87.00
2	Octane, 3,6-dimethyl-	19198	015869-94-0	72.00
3	Octane, 2,6-dimethyl-	19193	002051-30-1	72.00
4	Nonane, 3-methyl-	19171	005911-04-6	72.00
5	Sulfurous acid, 2-ethylhexyl tridec	200451	1000309-19-6	59.00



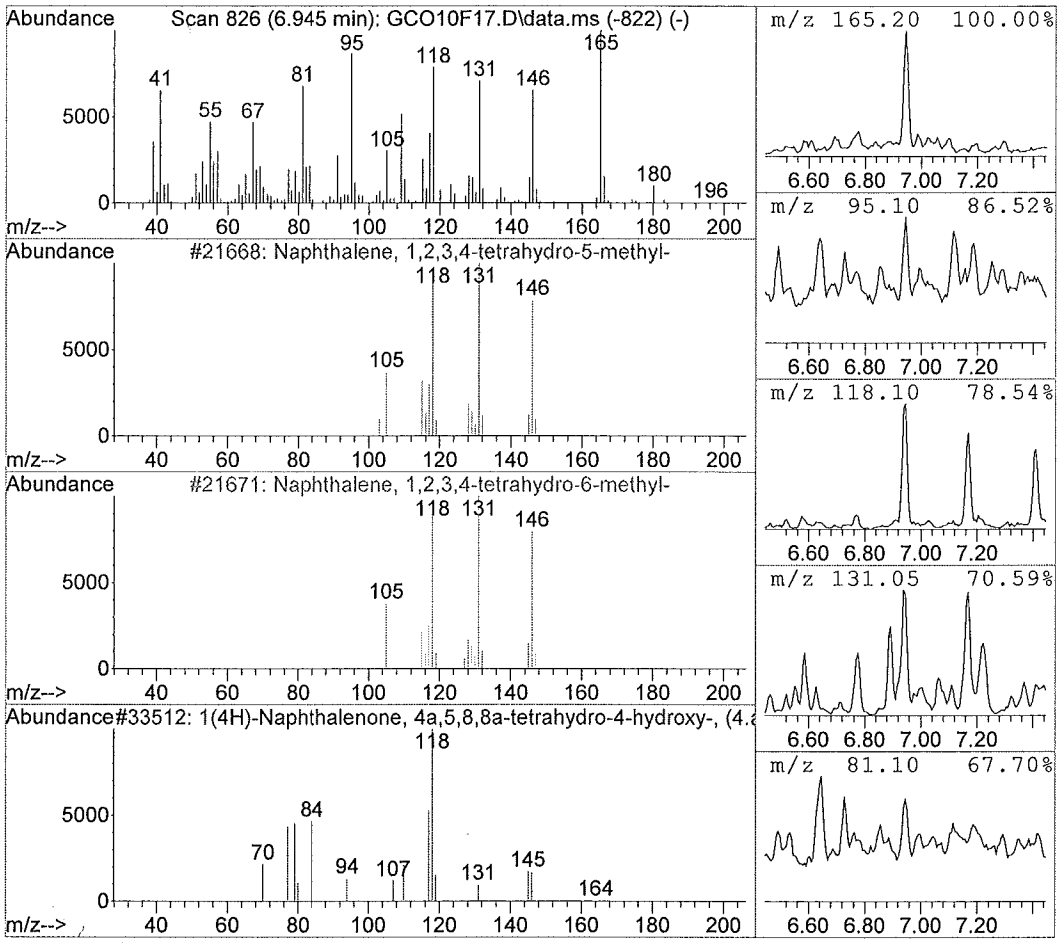
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.95	3.01 ug/ml	703672	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-5-m	21668	002809-64-5	92.00
2	Naphthalene, 1,2,3,4-tetrahydro-6-m	21671	001680-51-9	92.00
3	1(4H)-Naphthalenone, 4a,5,8,8a-tetr	33512	074069-53-7	25.00
4	2,3,4,5,6,7-Hexahydro-1H-cyclopenta	21685	1000189-31-0	25.00
5	3-Methoxy-6-methyl-6H-pyrazolo[4,3-	34458	037526-57-1	22.00



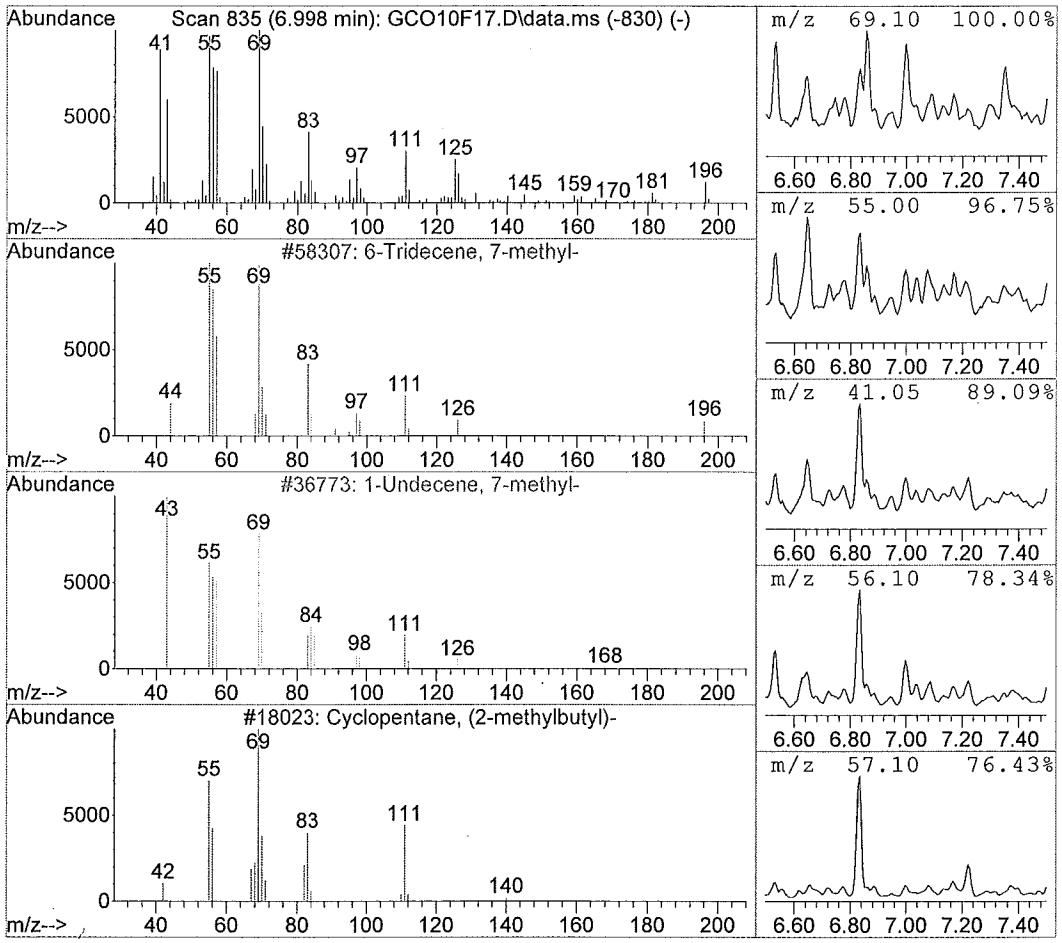
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.00	4.46 ug/ml	1043127	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	6-Tridecene, 7-methyl-	58307	024949-42-6	90.00
2	1-Undecene, 7-methyl-	36773	074630-42-5	64.00
3	Cyclopentane, (2-methylbutyl)-	18023	053366-38-4	53.00
4	1-Undecene, 8-methyl-	36770	074630-40-3	53.00
5	Cyclopropane, 1,2-dimethyl-1-pentyl	18055	062238-04-4	52.00



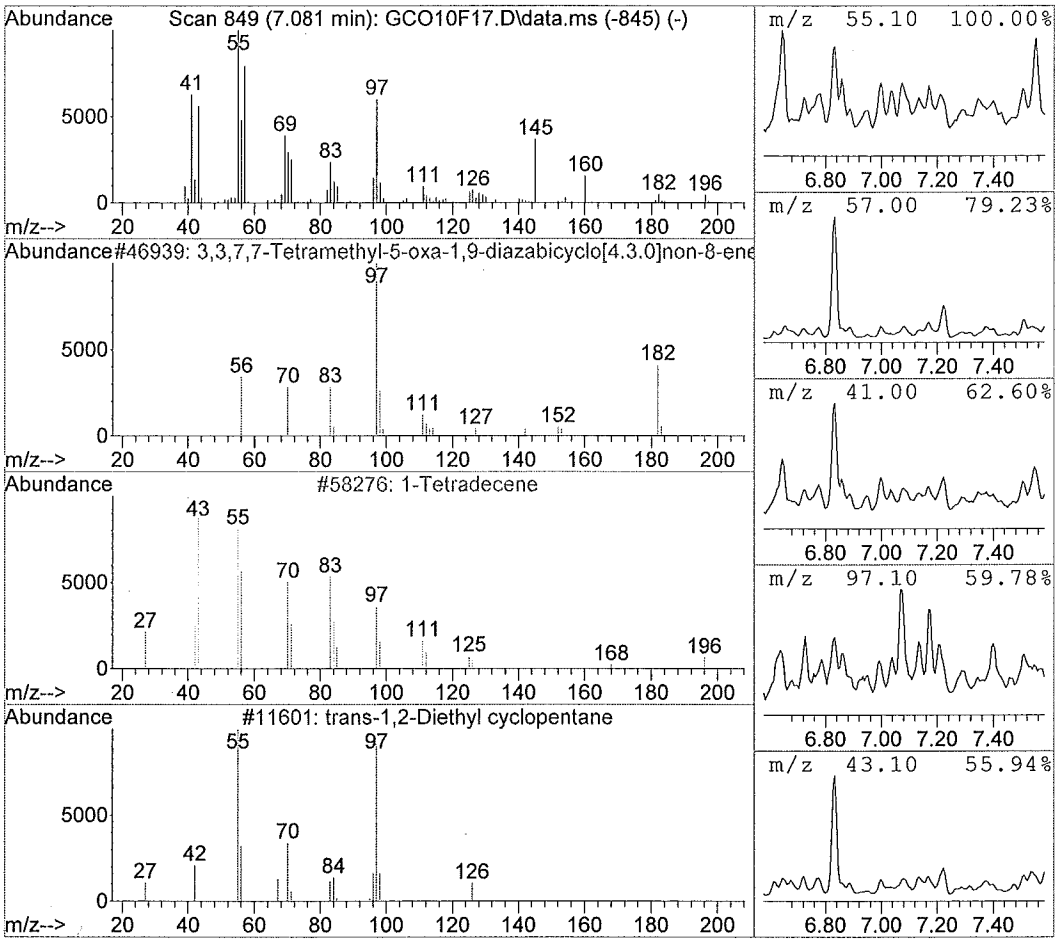
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.08	2.62 ug/ml	612793	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3,3,7,7-Tetramethyl-5-oxa-1,9-diaza	46939	090832-25-0	49.00
2	1-Tetradecene	58276	001120-36-1	46.00
3	trans-1,2-Diethyl cyclopentane	11601	000932-40-1	46.00
4	3-Tetradecene, (Z)-	58282	041446-67-7	46.00
5	5-Tetradecene, (E)-	58292	041446-66-6	42.00



Library Search Compound Report

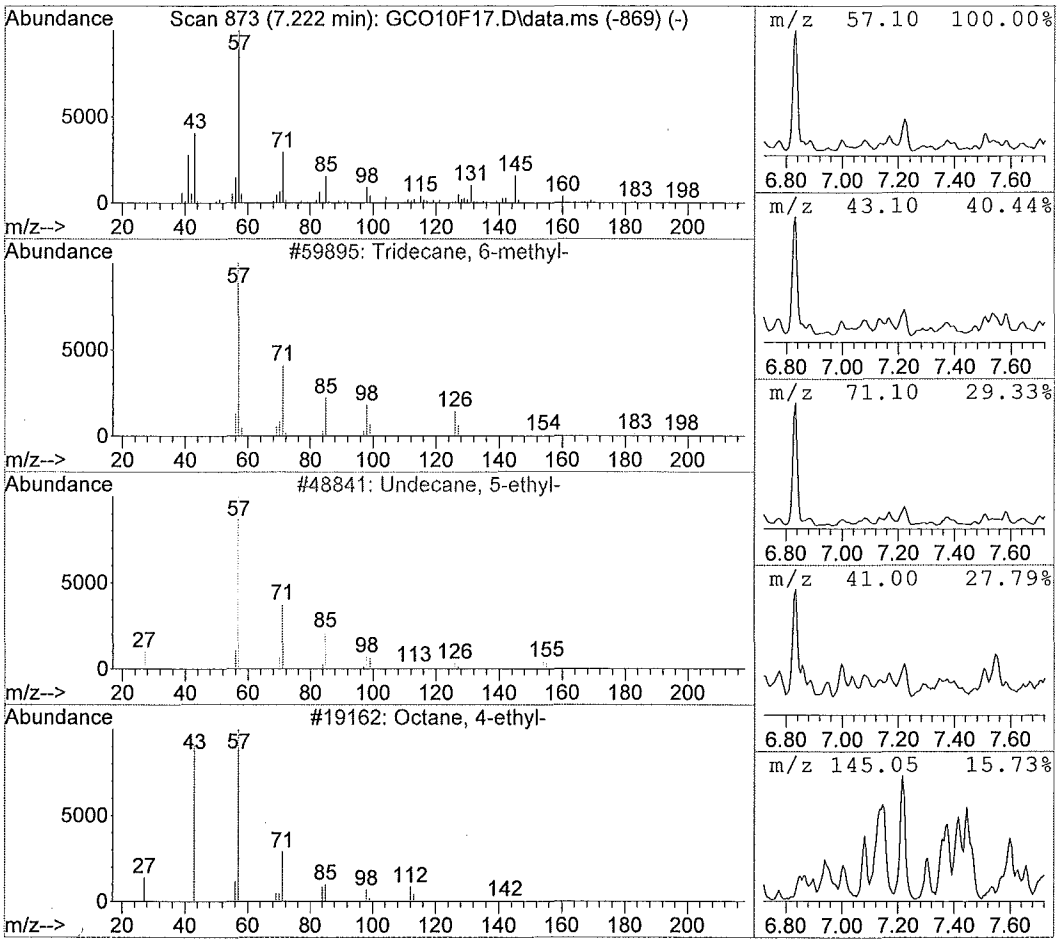
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.22	6.41 ug/ml	1499392	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 6-methyl-	59895	013287-21-3	60.00
2	Undecane, 5-ethyl-	48841	017453-94-0	53.00
3	Octane, 4-ethyl-	19162	015869-86-0	50.00
4	Pentadecane, 6-methyl-	83039	010105-38-1	50.00
5	Undecane, 2,6-dimethyl-	48882	017301-23-4	50.00

BA



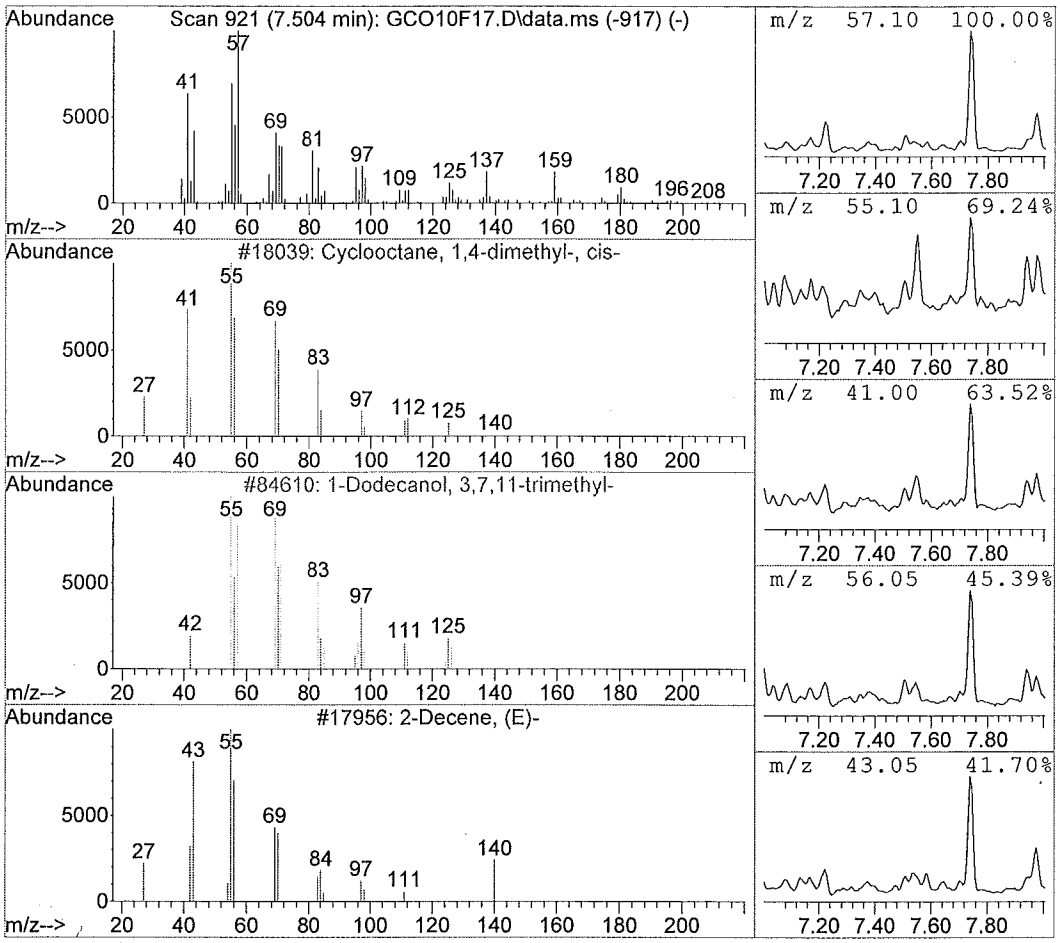
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.50	3.18 ug/ml	744794	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclooctane, 1,4-dimethyl-, cis- CA	18039	013151-99-0	55.00
2	1-Dodecanol, 3,7,11-trimethyl-	84610	006750-34-1	52.00
3	2-Decene, (E)-	17956	020063-97-2	38.00
4	Heptane, 3,5-dimethyl-	12685	000926-82-9	38.00
5	1-Hexene, 3,5-dimethyl-	6706	007423-69-0	27.00



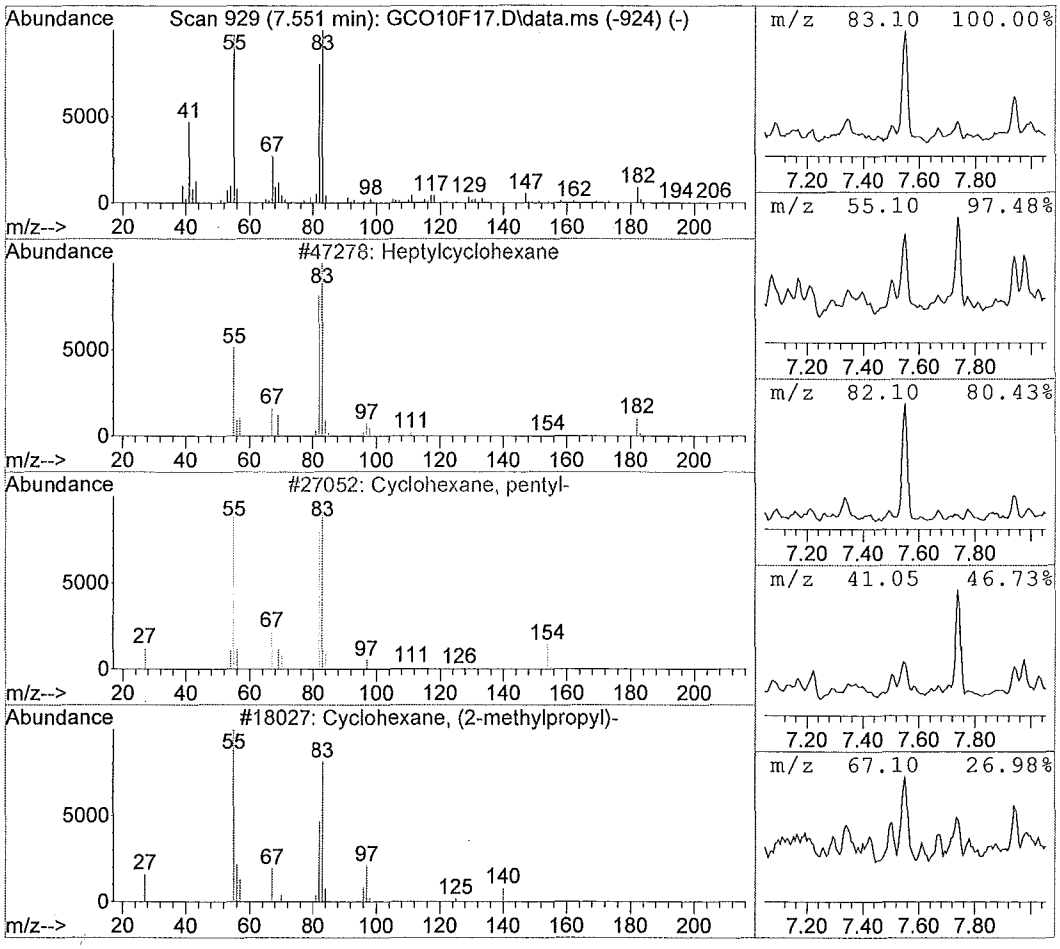
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.55	4.55 ug/ml	1063232	Naphthalene-d8	4678545

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptylcyclohexane CA	47278	005617-41-4	78.00
2	Cyclohexane, pentyl-	27052	004292-92-6	72.00
3	Cyclohexane, (2-methylpropyl)-	18027	001678-98-4	56.00
4	Cyclohexane, (1-methylethyl)-	11595	000696-29-7	50.00
5	n-Heptadecylcyclohexane	163026	019781-73-8	50.00



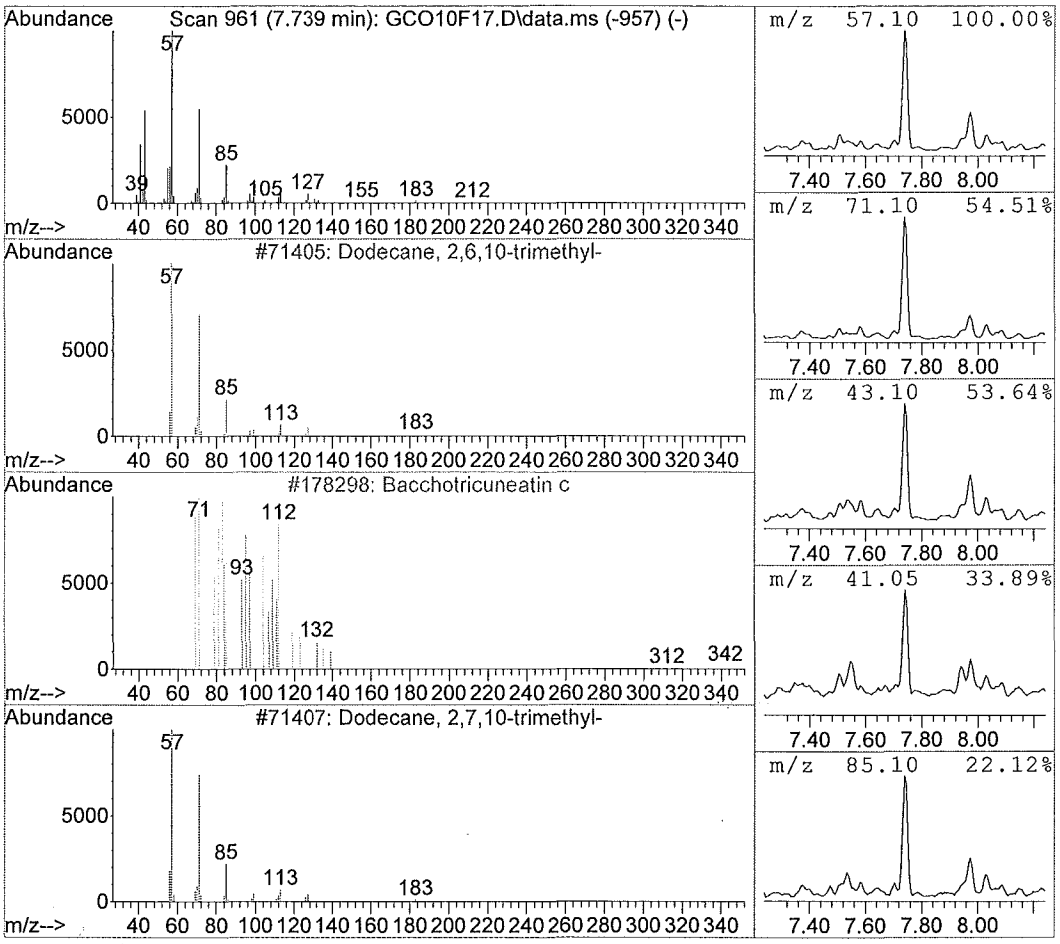
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.74	19.34 ug/ml	3480750	Acenaphthene-d10	3599794

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2,6,10-trimethyl-	71405	003891-98-3	80.00
2	Bacchotricuneatin c BA	178298	066563-30-2	72.00
3	Dodecane, 2,7,10-trimethyl-	71407	074645-98-0	64.00
4	Nonane, 3,7-dimethyl-	28441	017302-32-8	59.00
5	Dodecane, 2,6,11-trimethyl-	71408	031295-56-4	58.00



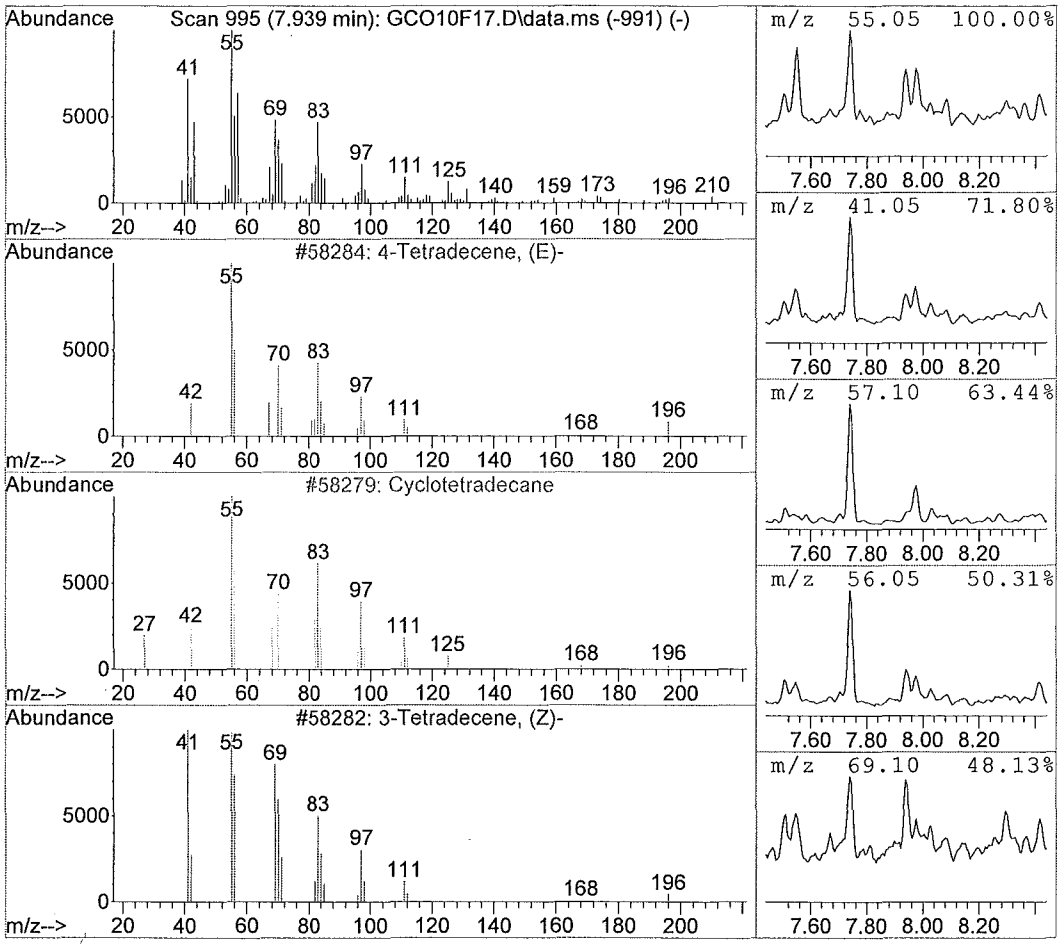
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.94	5.92 ug/ml	1066422	Acenaphthene-d10	3599794

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Tetradecene, (E)-	58284	041446-78-0	94.00
2	Cyclotetradecane	58279	000295-17-0	93.00
3	3-Tetradecene, (Z)-	58282	041446-67-7	90.00
4	1-Hexadecanol	95987	036653-82-4	90.00
5	Cyclododecane	36737	000294-62-2	89.00



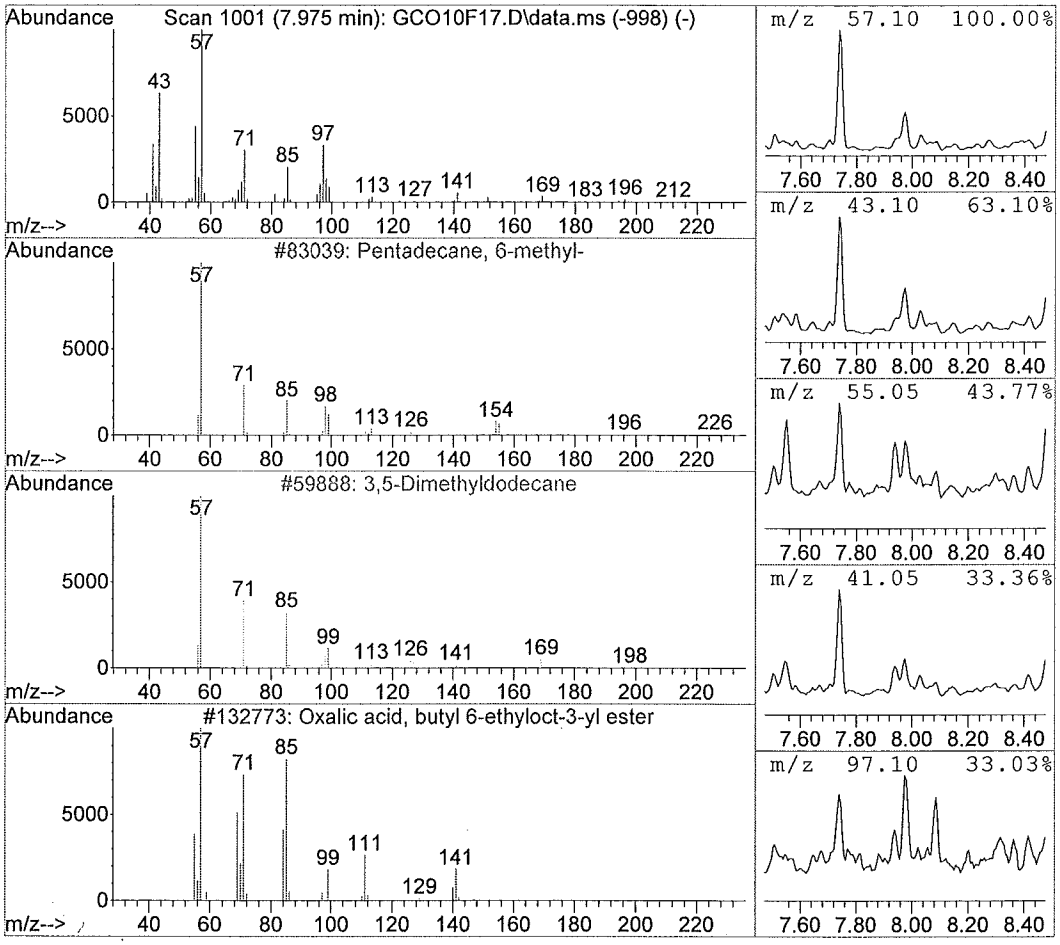
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.97	7.17 ug/ml	1290797	Acenaphthene-d10	3599794

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane, 6-methyl-	83039	010105-38-1	50.00
2	3,5-Dimethyldodecane BA	59888	107770-99-0	46.00
3	Oxalic acid, butyl 6-ethyloct-3-yl	132773	1000309-34-2	43.00
4	Undecane, 3-methyl-	38327	001002-43-3	38.00
5	Decane, 2,3,8-trimethyl-	48895	062238-14-6	35.00



Library Search Compound Report

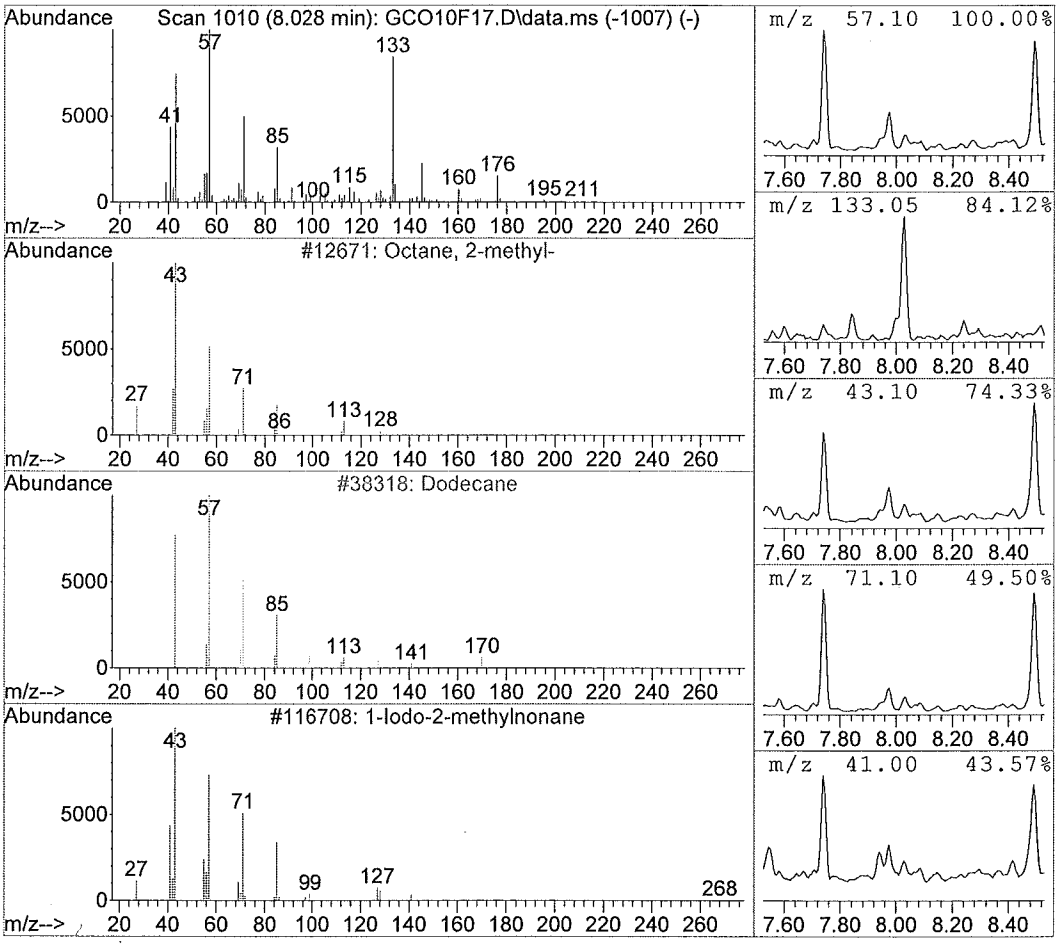
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.03	3.85 ug/ml	692974	Acenaphthene-d10	3599794

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 2-methyl-	12671	003221-61-2	27.00
2	Dodecane	38318	000112-40-3	25.00
3	1-Iodo-2-methylnonane	116708	1000101-47-9	25.00
4	Sulfurous acid, 2-ethylhexyl isohex	125661	1000309-19-0	22.00
5	Hexadecane, 7,9-dimethyl-	105903	021164-95-4	22.00

BA



00791

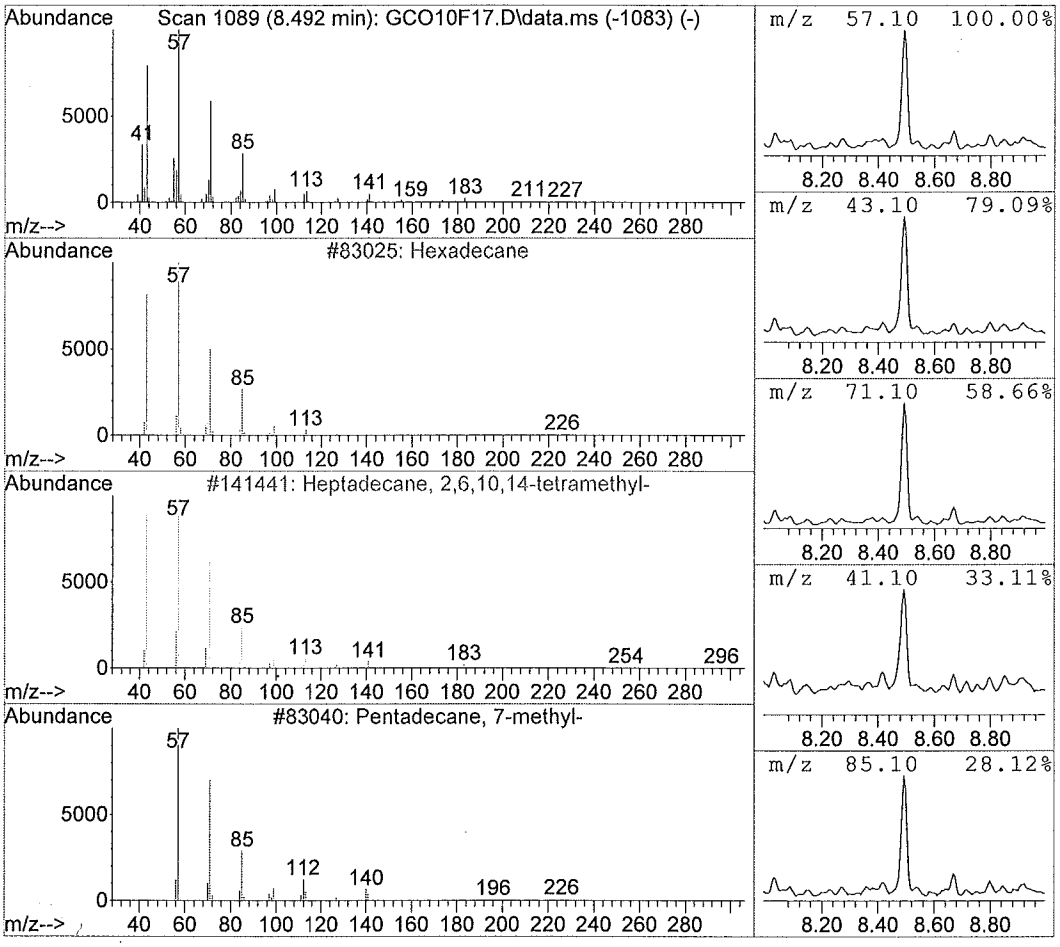
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.49	22.28 ug/ml	4009859	Acenaphthene-d10	3599794

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane SA	83025	000544-76-3	93.00
2	Heptadecane, 2,6,10,14-tetramethyl-	141441	018344-37-1	91.00
3	Pentadecane, 7-methyl-	83040	006165-40-8	90.00
4	Undecane, 4,6-dimethyl-	48869	017312-82-2	87.00
5	Decane, 2,3,5-trimethyl-	48894	062238-11-3	86.00



Library Search Compound Report

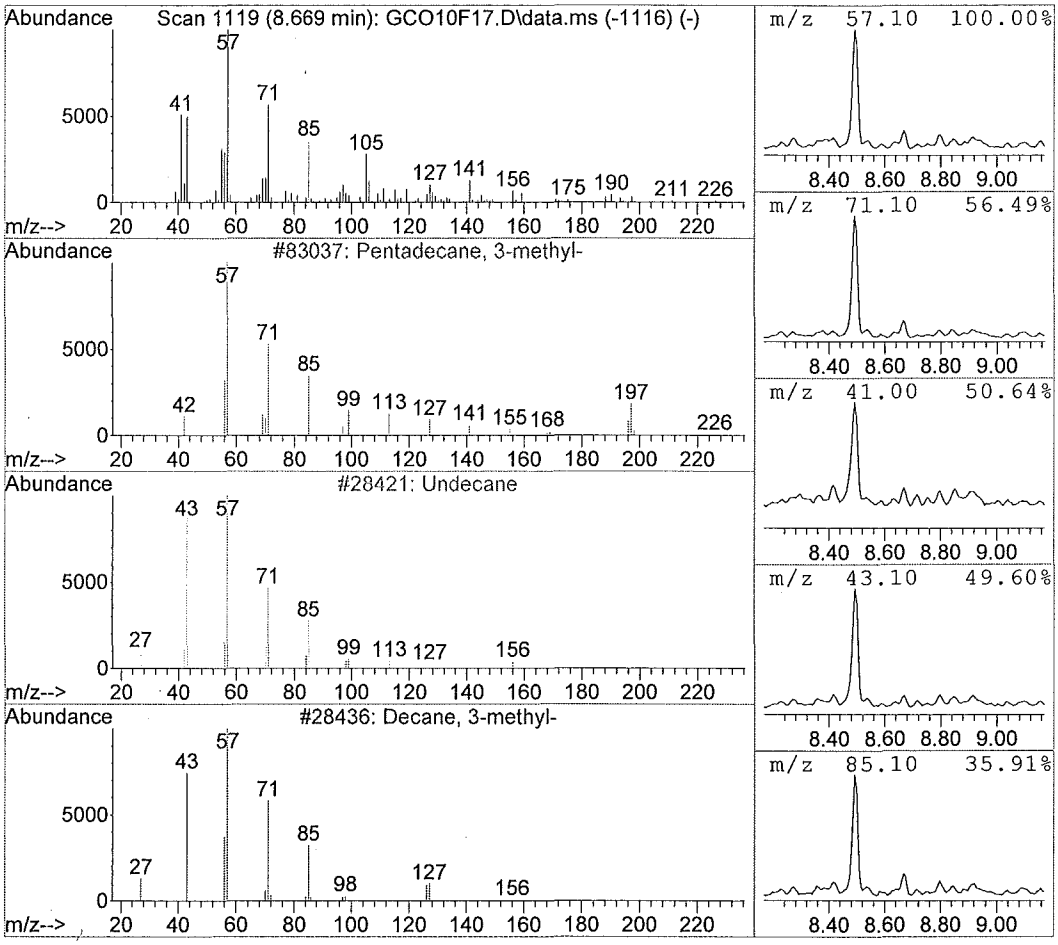
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.67	3.33 ug/ml	598705	Acenaphthene-d10	3599794

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane, 3-methyl-	83037	002882-96-4	62.00
2	Undecane	28421	001120-21-4	49.00
3	Decane, 3-methyl-	28436	013151-34-3	47.00
4	Dodecane, 3-methyl-	48848	017312-57-1	47.00
5	Octane, 2,4,6-trimethyl-	28445	062016-37-9	43.00

BA



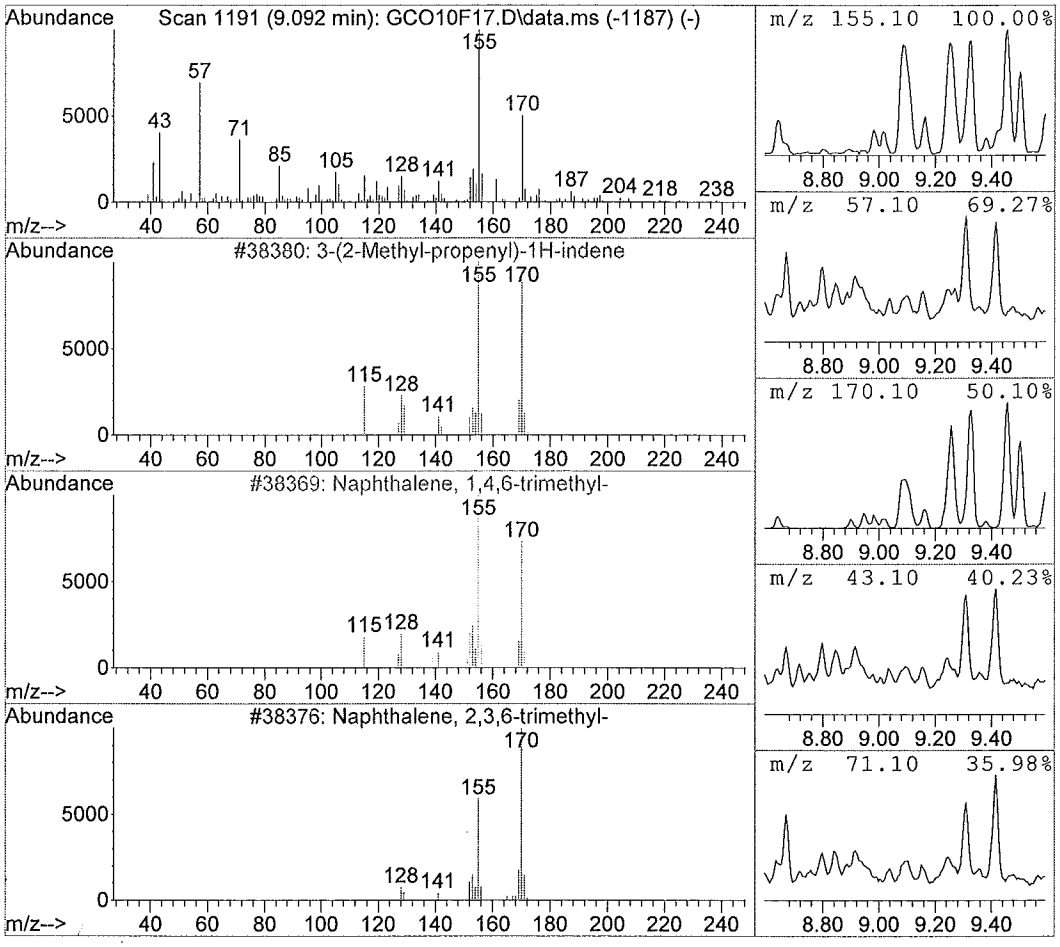
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.09	3.56 ug/ml	641461	Acenaphthene-d10	3599794

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-(2-Methyl-propenyl)-1H-indene	38380	1000187-78-5	87.00
2	Naphthalene, 1,4,6-trimethyl-	38369	002131-42-2	83.00
3	Naphthalene, 2,3,6-trimethyl-	38376	000829-26-5	83.00
4	Naphthalene, 2-(1-methylethyl)-	38382	002027-17-0	81.00
5	Naphthalene, 1,6,7-trimethyl-	38370	002245-38-7	74.00



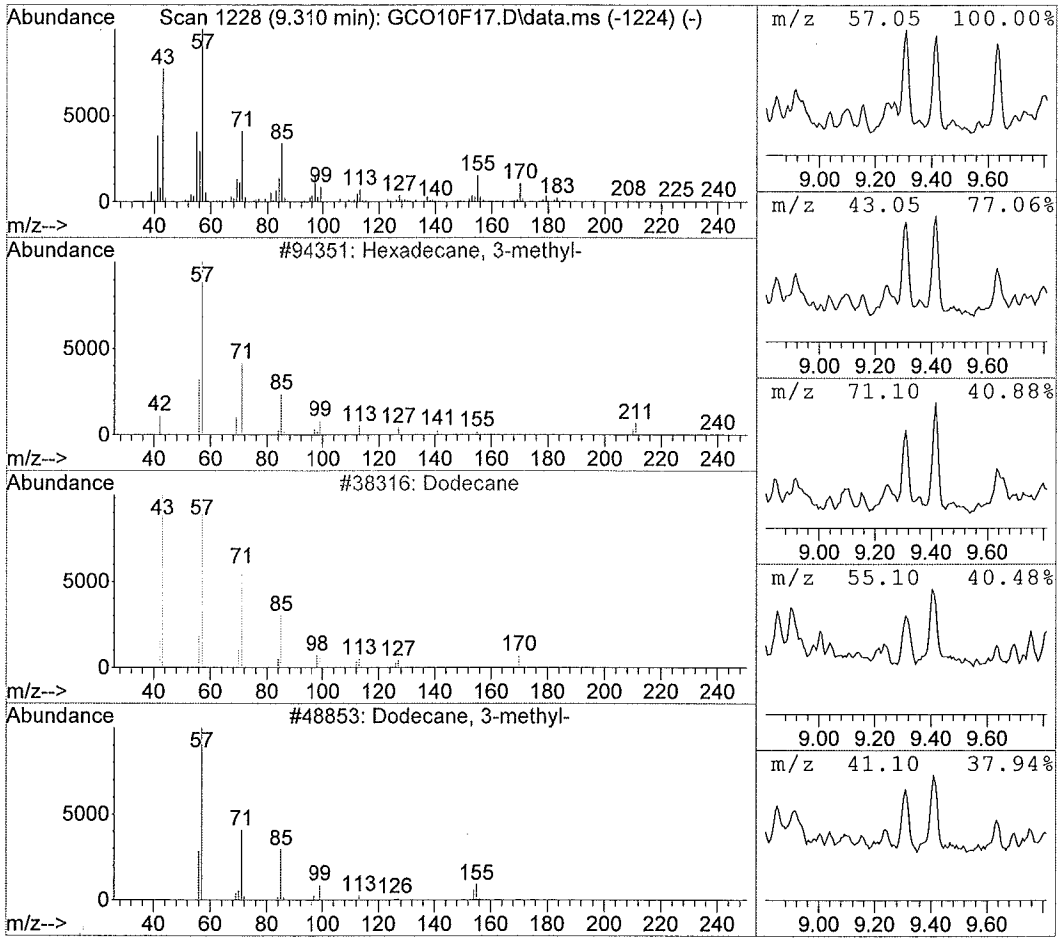
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.31	7.97 ug/ml	1434434	Acenaphthene-d10	3599794

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane, 3-methyl- BA	94351	006418-43-5	70.00
2	Dodecane	38316	000112-40-3	68.00
3	Dodecane, 3-methyl-	48853	017312-57-1	64.00
4	Tetradecane, 2,6,10-trimethyl-	94356	014905-56-7	64.00
5	Undecane	28421	001120-21-4	62.00



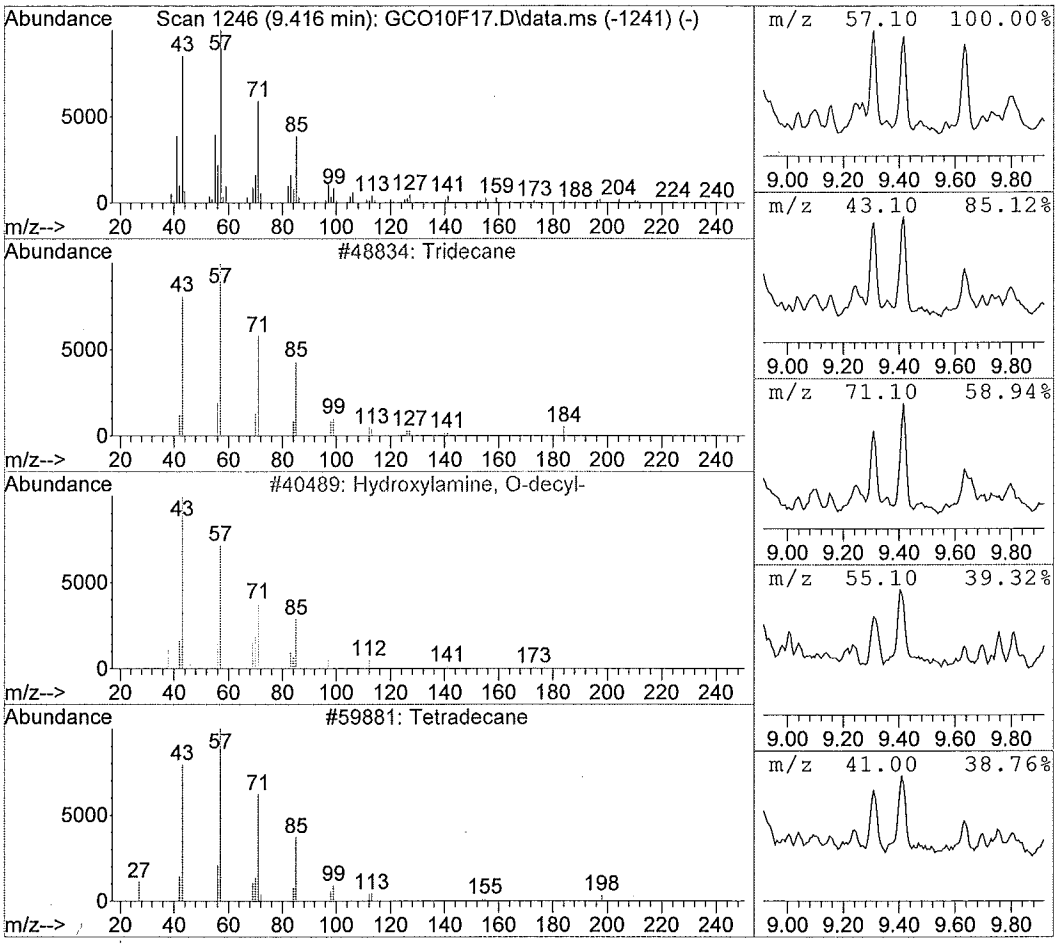
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.42	6.11 ug/ml	1100326	Acenaphthene-d10	3599794

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane	48834	000629-50-5	81.00
2	Hydroxylamine, O-decyl-	40489	029812-79-1	80.00
3	Tetradecane	59881	000629-59-4	76.00
4	Eicosane	129492	000112-95-8	72.00
5	Heptacosane, 1-chloro-	217413	062016-79-9	72.00



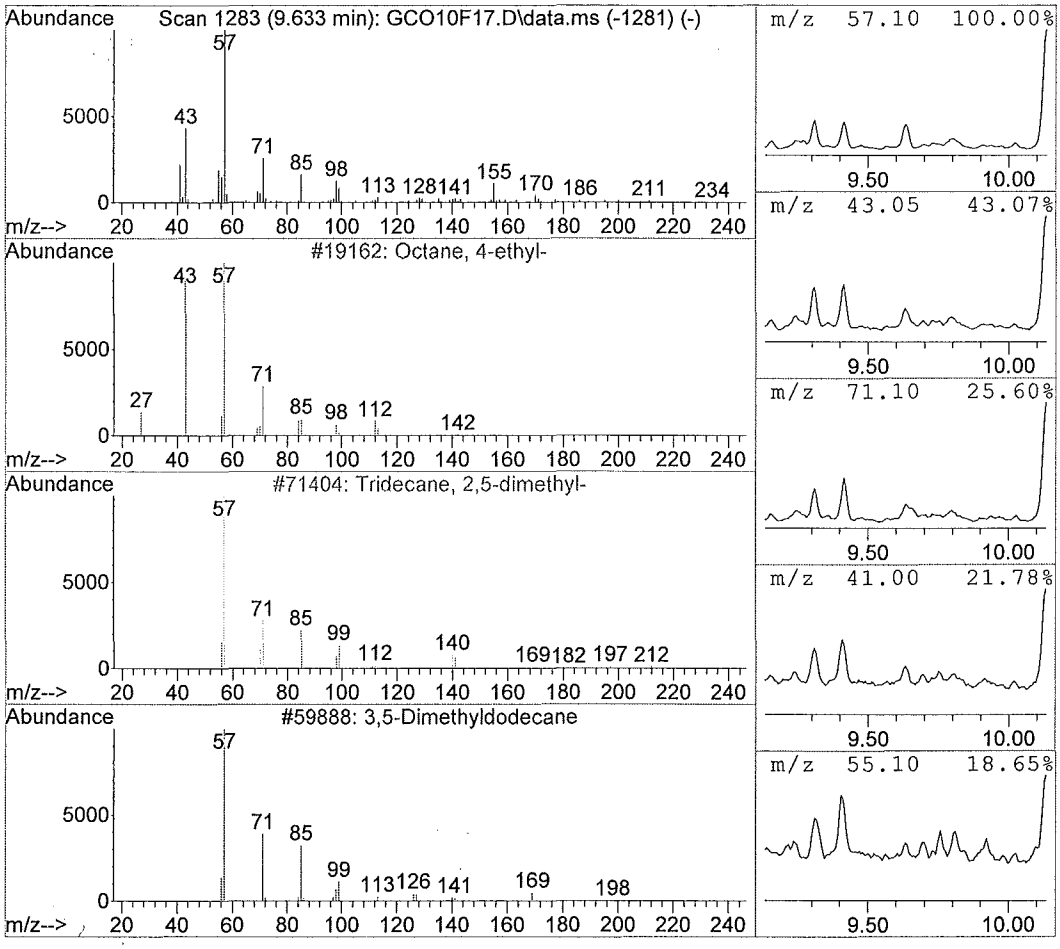
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.63	3.55 ug/ml	638146	Acenaphthene-d10	3599794

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octane, 4-ethyl- BA	19162	015869-86-0	59.00
2	Tridecane, 2,5-dimethyl-	71404	056292-66-1	53.00
3	3,5-Dimethyldodecane	59888	107770-99-0	53.00
4	Pentadecane, 6-methyl-	83039	010105-38-1	53.00
5	Decane, 2,5,9-trimethyl-	48890	062108-22-9	50.00



: 00787

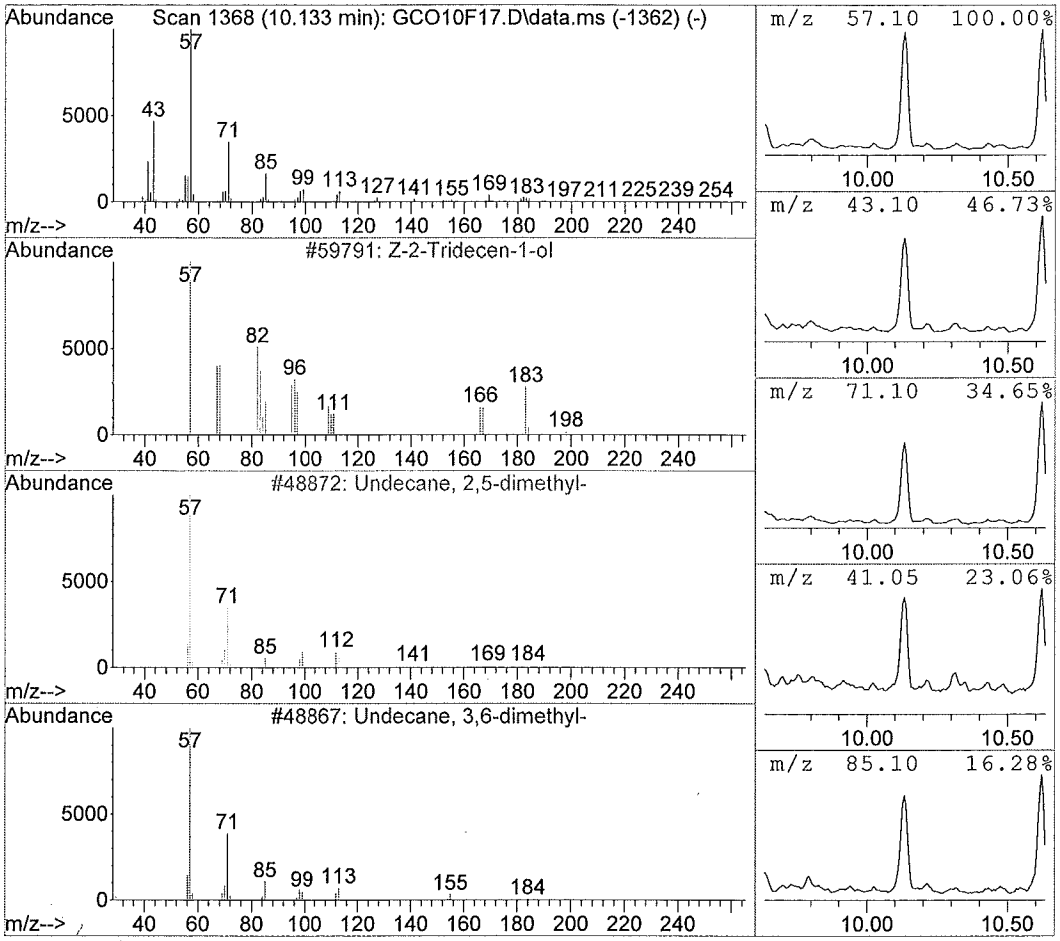
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.13	21.01 ug/ml	3780692	Acenaphthene-d10	3599794

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Z-2-Tridecen-1-ol	59791	1000130-75-8	92.00
2	Undecane, 2,5-dimethyl-	48872	017301-22-3	81.00
3	Undecane, 3,6-dimethyl-	48867	017301-28-9	78.00
4	Pentadecane, 2,6,10-trimethyl-	105904	003892-00-0	72.00
5	Undecane, 2,6-dimethyl-	48882	017301-23-4	72.00



Library Search Compound Report

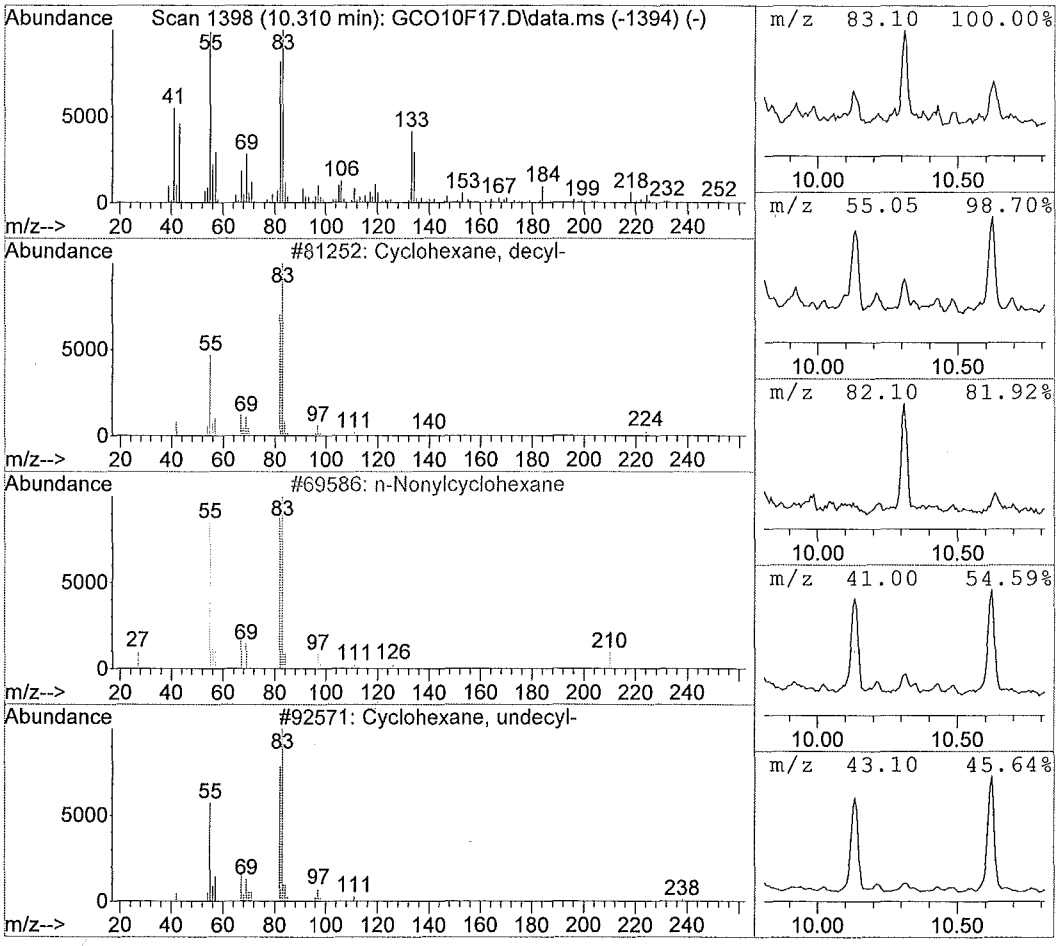
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.31	3.33 ug/ml	551246	Phenanthrene-d10	3310665

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, decyl-	81252	001795-16-0	64.00
2	n-Nonylcyclohexane	69586	002883-02-5	50.00
3	Cyclohexane, undecyl-	92571	054105-66-7	50.00
4	Cyclohexane, tetradecyl-	127776	001795-18-2	50.00
5	Cyclohexane, octyl-	58302	001795-15-9	49.00

CA



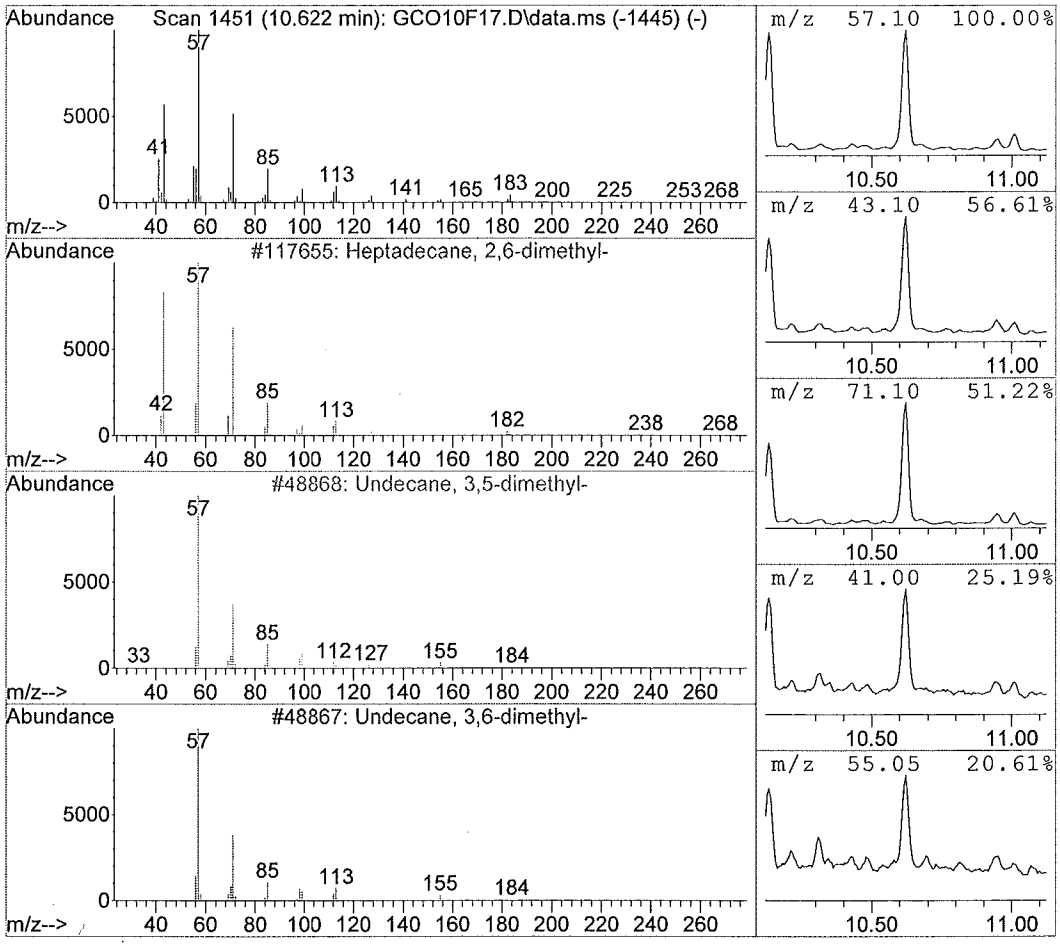
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.62	22.96 ug/ml	3800815	Phenanthrene-d10	3310665

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane, 2,6-dimethyl-	117655	054105-67-8	94.00
2	Undecane, 3,5-dimethyl- BA	48868	017312-81-1	72.00
3	Undecane, 3,6-dimethyl-	48867	017301-28-9	72.00
4	Octadecane, 2,6-dimethyl-	129505	075163-97-2	64.00
5	Dodecane, 4-methyl-	48850	006117-97-1	53.00



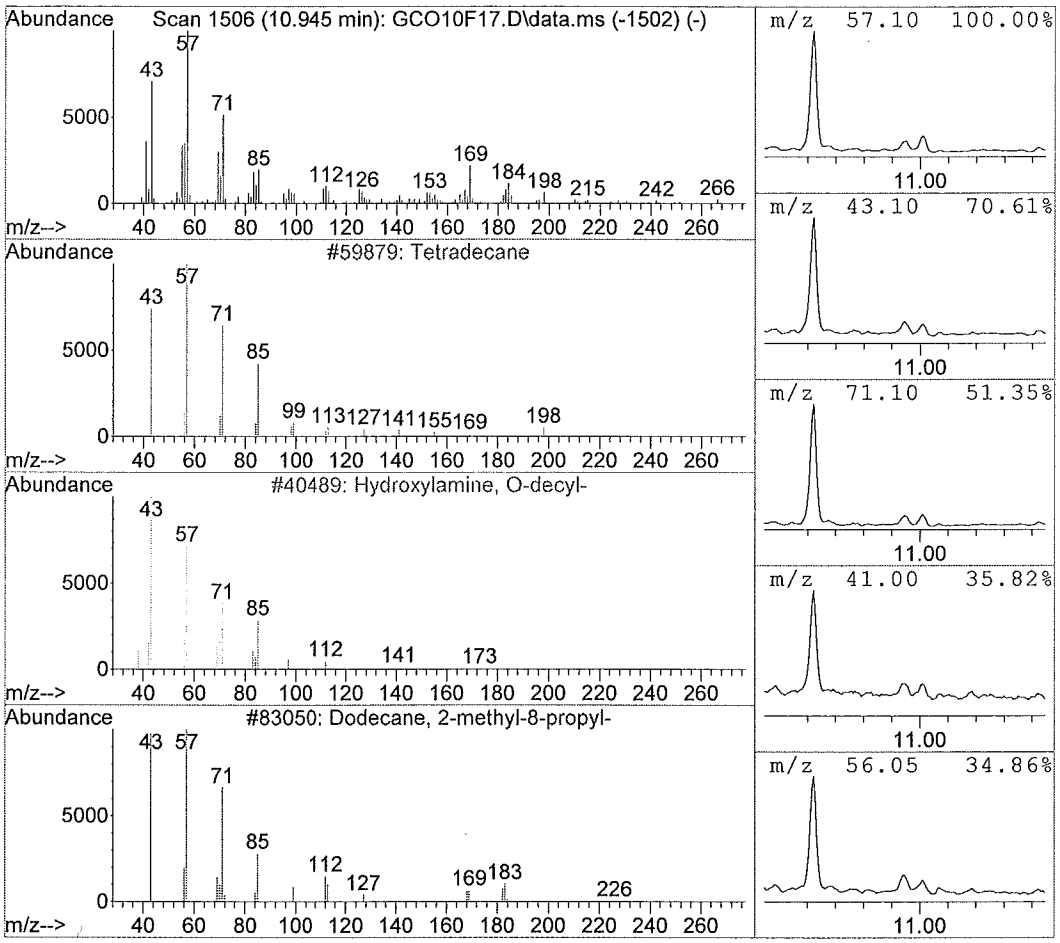
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.95	3.00 ug/ml	496359	Phenanthrene-d10	3310665

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecane SA	59879	000629-59-4	55.00
2	Hydroxylamine, O-decyl-	40489	029812-79-1	53.00
3	Dodecane, 2-methyl-8-propyl-	83050	055045-07-3	49.00
4	Nonane, 3-methyl-	19171	005911-04-6	49.00
5	1-Octanol, 2-butyl-	50324	003913-02-8	46.00



Library Search Compound Report

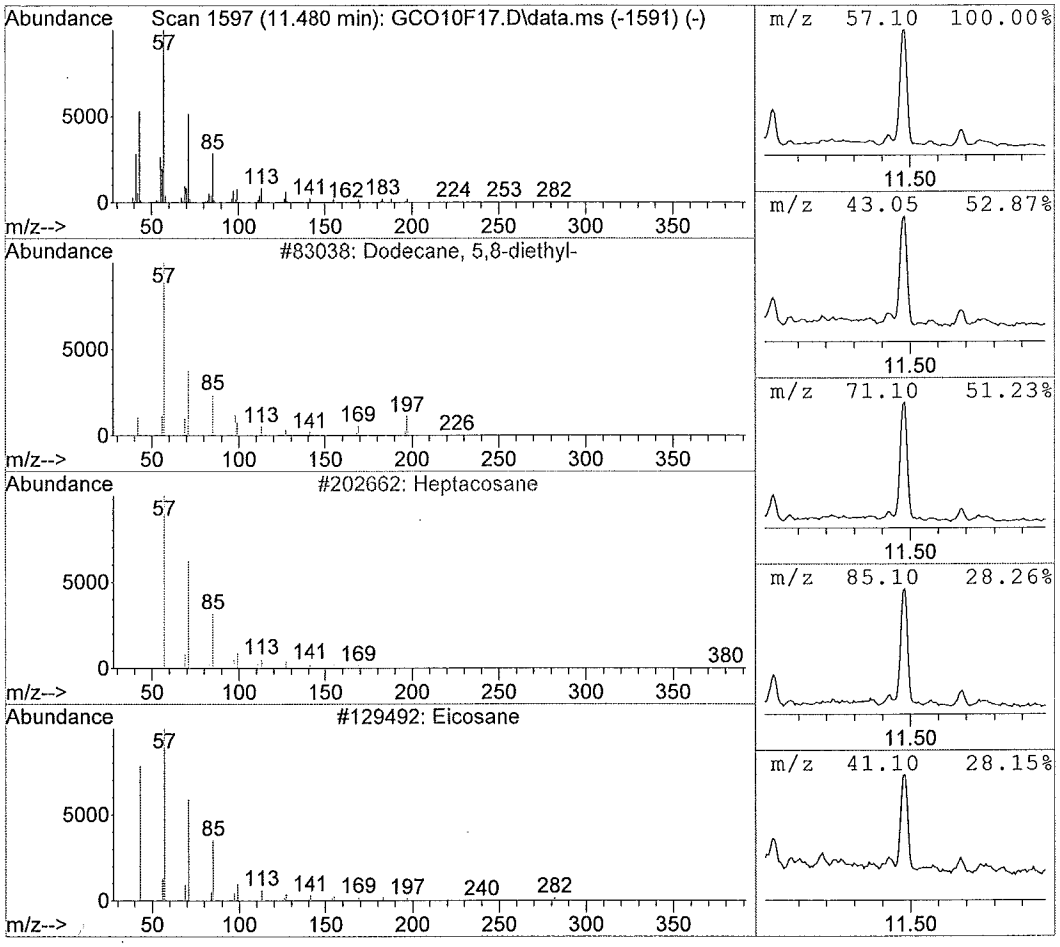
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.48	11.45 ug/ml	1895447	Phenanthrene-d10	3310665

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 5,8-diethyl-	83038	024251-86-3	87.00
2	Heptacosane	202662	000593-49-7	74.00
3	Eicosane	129492	000112-95-8	64.00
4	Tridecane, 6-methyl-	59895	013287-21-3	64.00
5	Dodecane, 2,6,11-trimethyl-	71411	031295-56-4	59.00

BA



00712

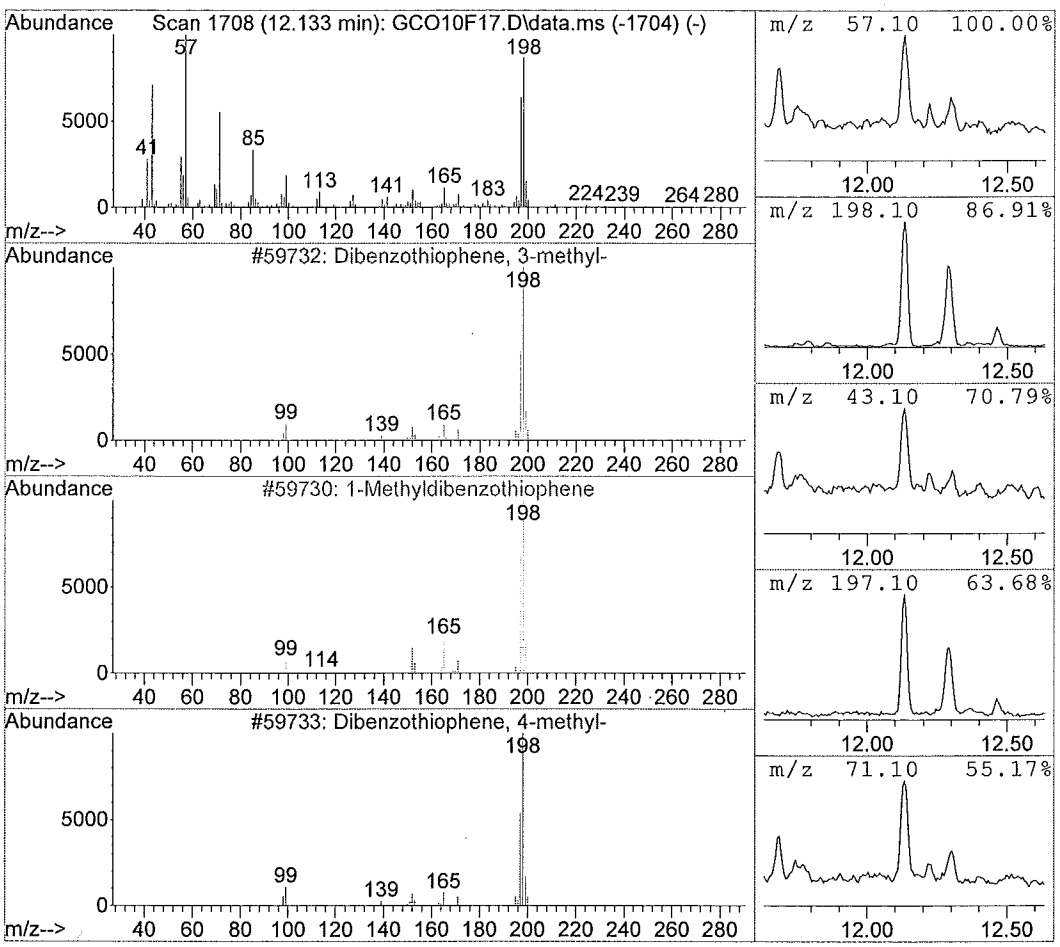
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.13	3.96 ug/ml	655223	Phenanthrene-d10	3310665

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dibenzothiophene, 3-methyl-	59732	016587-52-3	91.00
2	1-Methyldibenzothiophene	59730	031317-07-4	86.00
3	Dibenzothiophene, 4-methyl-	59733	007372-88-5	78.00
4	Benzenamine, 4,4'-methylenebis-	59745	000101-77-9	53.00
5	Tridecane	48832	000629-50-5	38.00



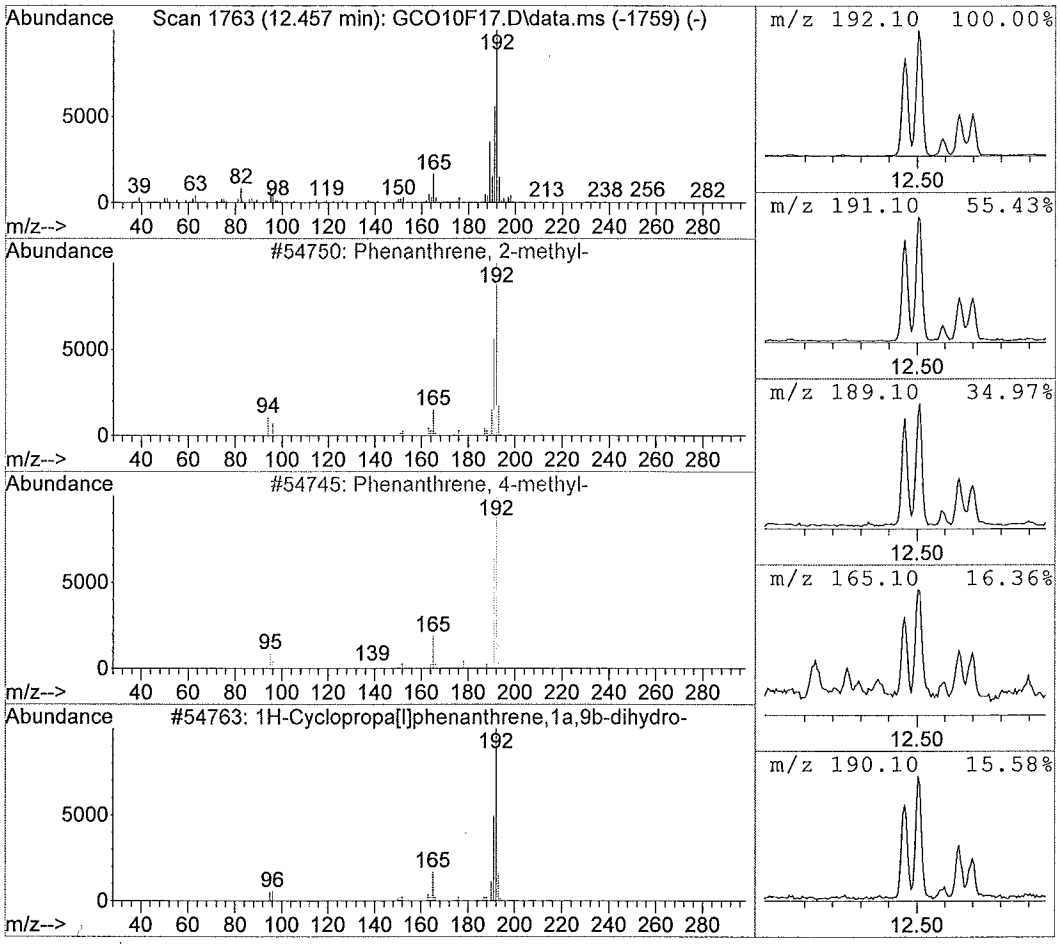
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.46	3.26 ug/ml	539360	Phenanthrene-d10	3310665

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2-methyl-	54750	002531-84-2	97.00
2	Phenanthrene, 4-methyl-	54745	000832-64-4	95.00
3	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	95.00
4	Phenanthrene, 1-methyl-	54752	000832-69-9	94.00
5	Anthracene, 1-methyl-	54732	000610-48-0	93.00



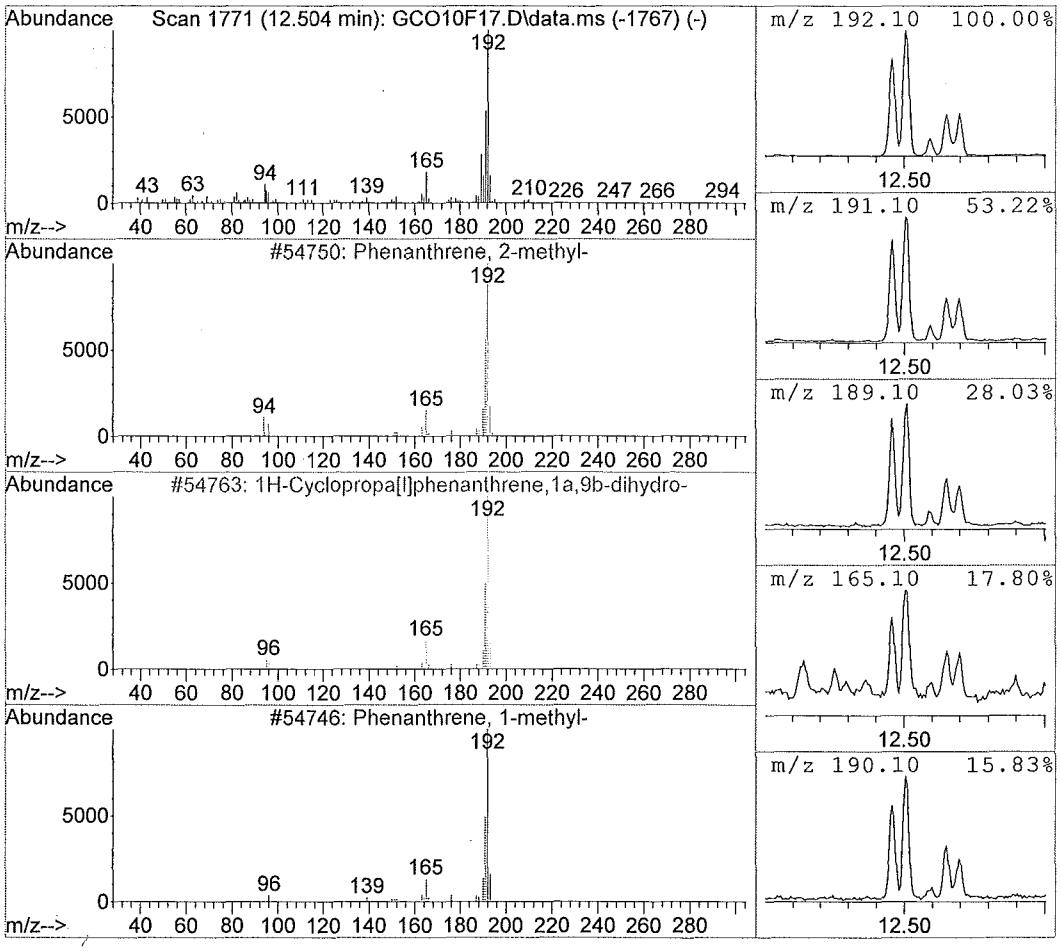
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.50	6.39 ug/ml	1058327	Phenanthrene-d10	3310665

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Phenanthrene, 2-methyl-	54750	002531-84-2	97.00
2	1H-Cyclopropa[l]phenanthrene,1a,9b-	54763	000949-41-7	96.00
3	Phenanthrene, 1-methyl-	54746	000832-69-9	96.00
4	Anthracene, 2-methyl-	54735	000613-12-7	96.00
5	Phenanthrene, 3-methyl-	54747	000832-71-3	90.00



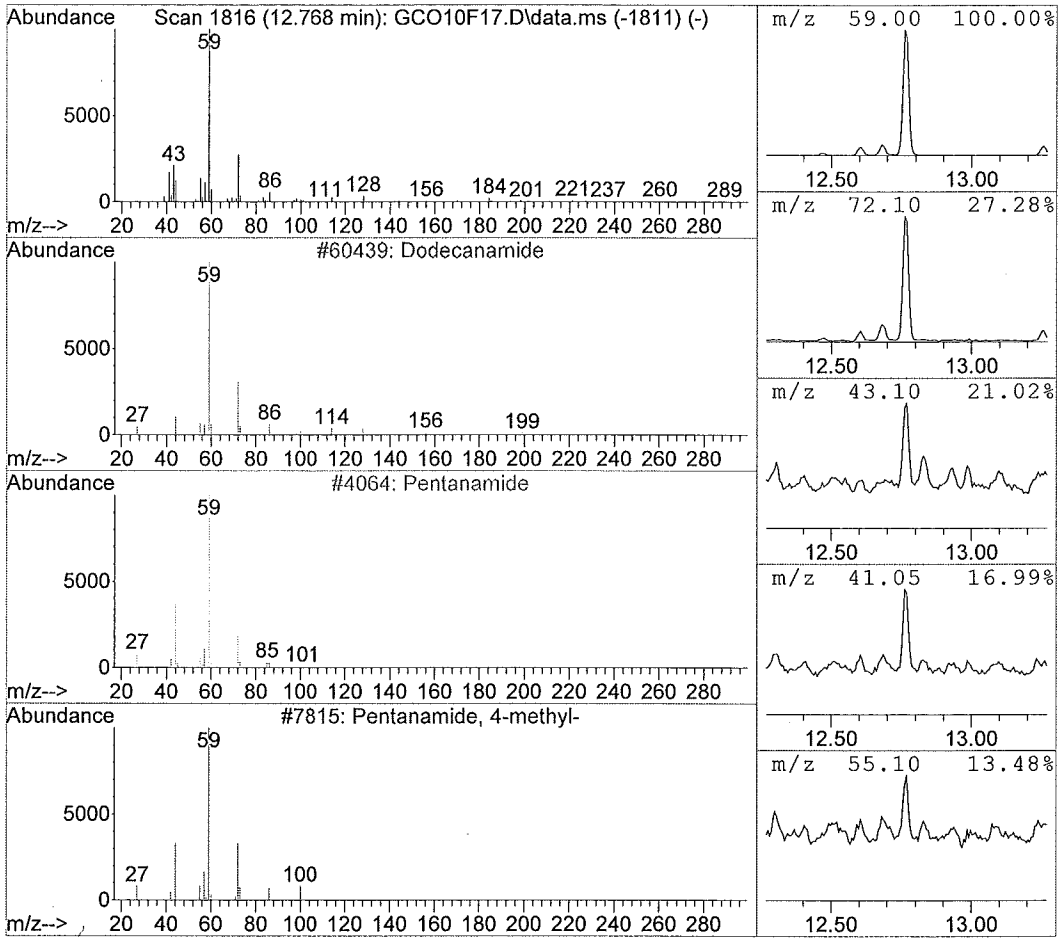
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.77	4.28 ug/ml	707973	Phenanthrene-d10	3310665

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	91.00
2	Pentanamide	4064	000626-97-1	80.00
3	Pentanamide, 4-methyl-	7815	001119-29-5	78.00
4	Nonanamide	29478	001120-07-6	78.00
5	Tetradecanamide	83609	000638-58-4	78.00



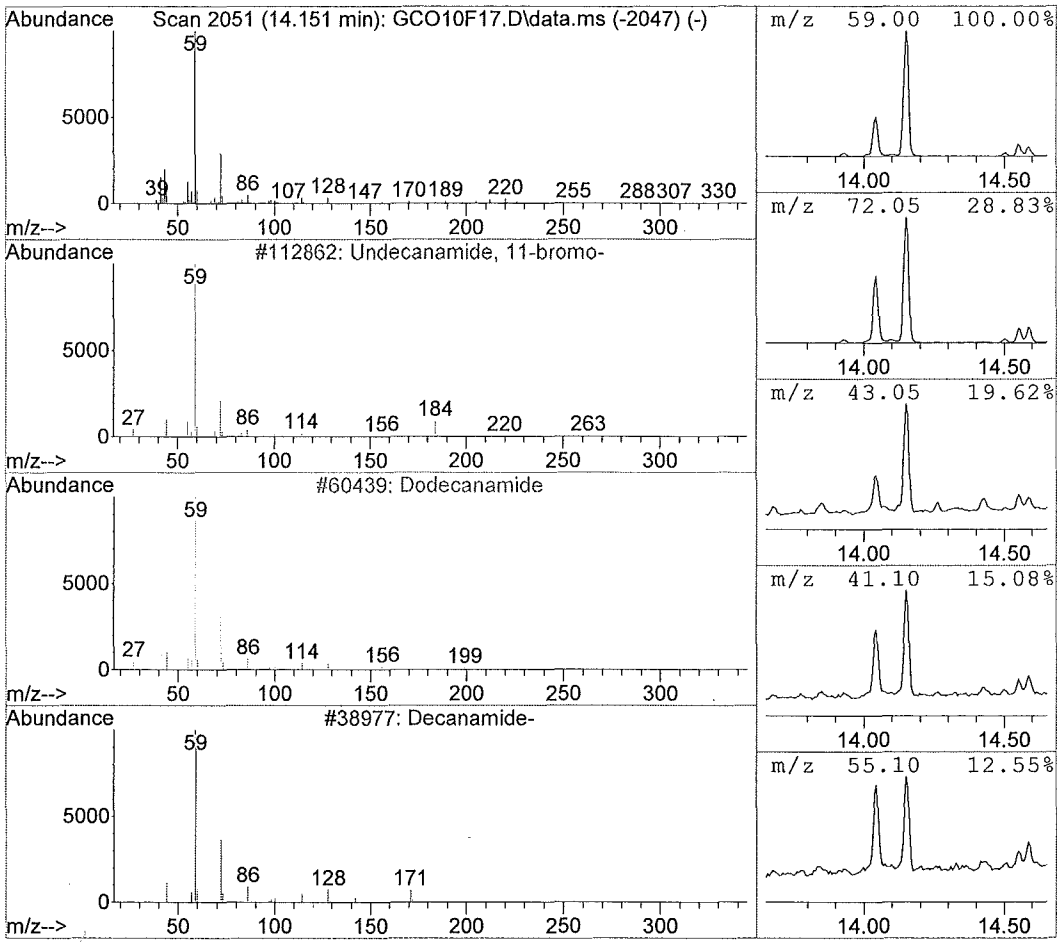
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	13.67 ug/ml	2716570	Chrysene-d12	3975166

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecanamide, 11-bromo-	112862	005875-26-3	91.00
2	Dodecanamide	60439	001120-16-7	90.00
3	Decanamide-	38977	002319-29-1	64.00
4	Pentanamide	4064	000626-97-1	59.00
5	Nonanamide	29478	001120-07-6	56.00



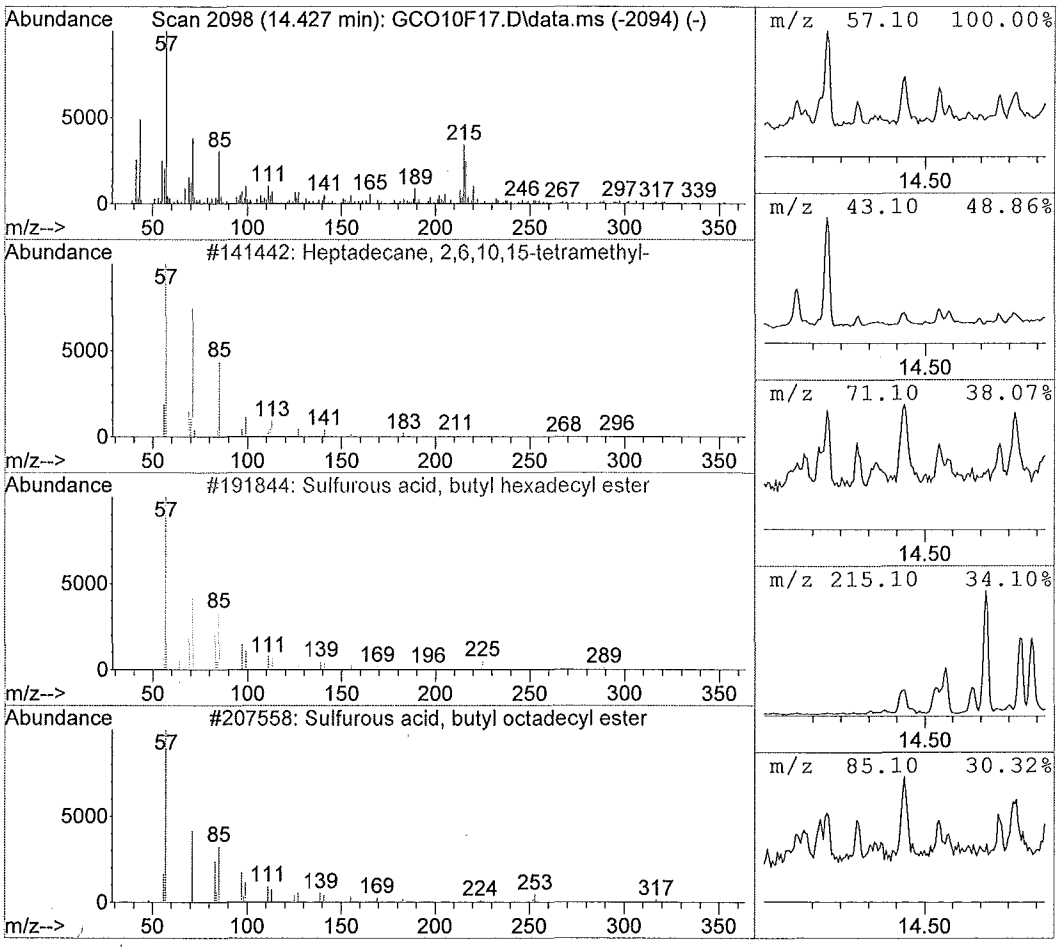
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.43	2.33 ug/ml	462255	Chrysene-d12	3975166

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane, 2,6,10,15-tetramethyl-	141442	054833-48-6	50.00
2	Sulfurous acid, butyl hexadecyl est Ba	191844	1000309-18-3	49.00
3	Sulfurous acid, butyl octadecyl est	207558	1000309-18-5	47.00
4	Decane, 3,8-dimethyl-	38349	017312-55-9	46.00
5	Undecane, 3,9-dimethyl-	48874	017301-31-4	43.00



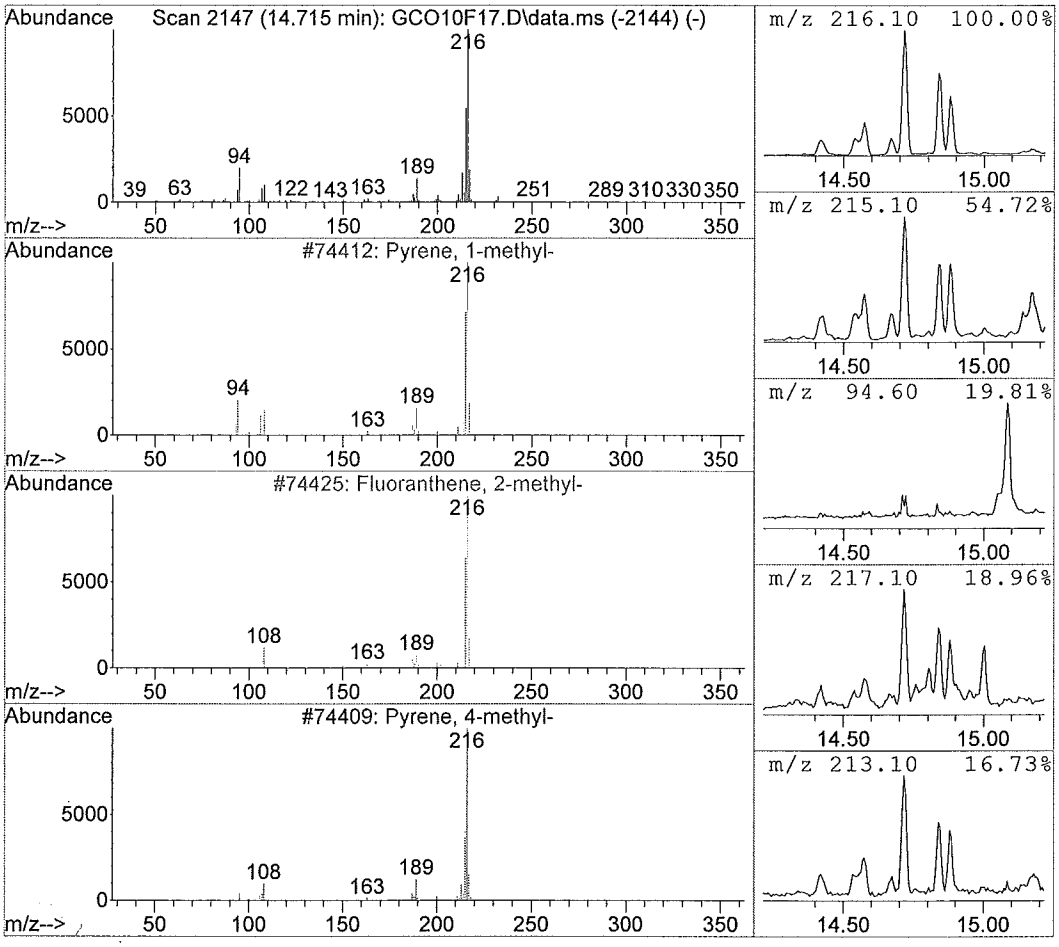
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.72	2.59 ug/ml	514578	Chrysene-d12	3975166

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrene, 1-methyl-	74412	002381-21-7	97.00
2	Fluoranthene, 2-methyl-	74425	033543-31-6	96.00
3	Pyrene, 4-methyl-	74409	003353-12-6	94.00
4	Pyrene, 2-methyl-	74413	003442-78-2	93.00
5	11H-Benzo[a]fluorene	74419	000238-84-6	93.00



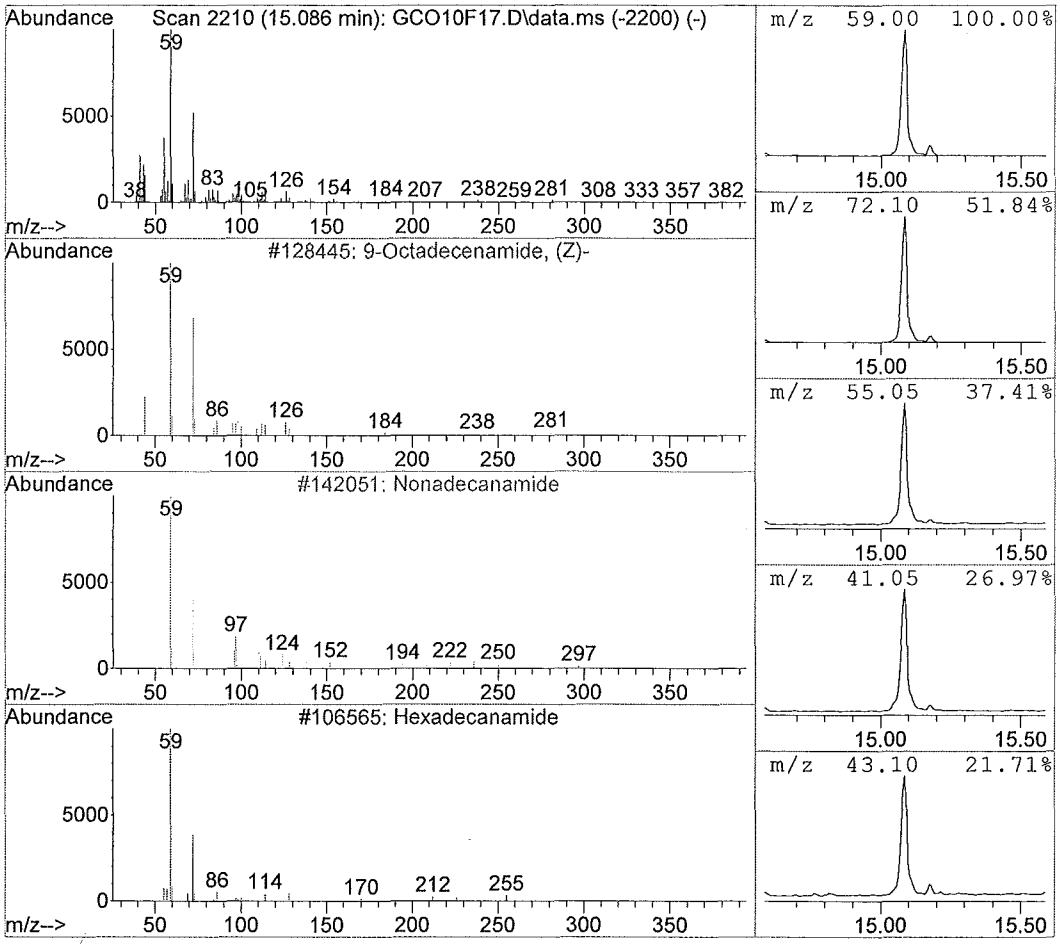
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.09	115.40 ug/ml	22936874	Chrysene-d12	3975166

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Nonadecanamide	142051	058185-32-3	72.00
3	Hexadecanamide	106565	000629-54-9	56.00
4	Nonanamide	29478	001120-07-6	50.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	50.00



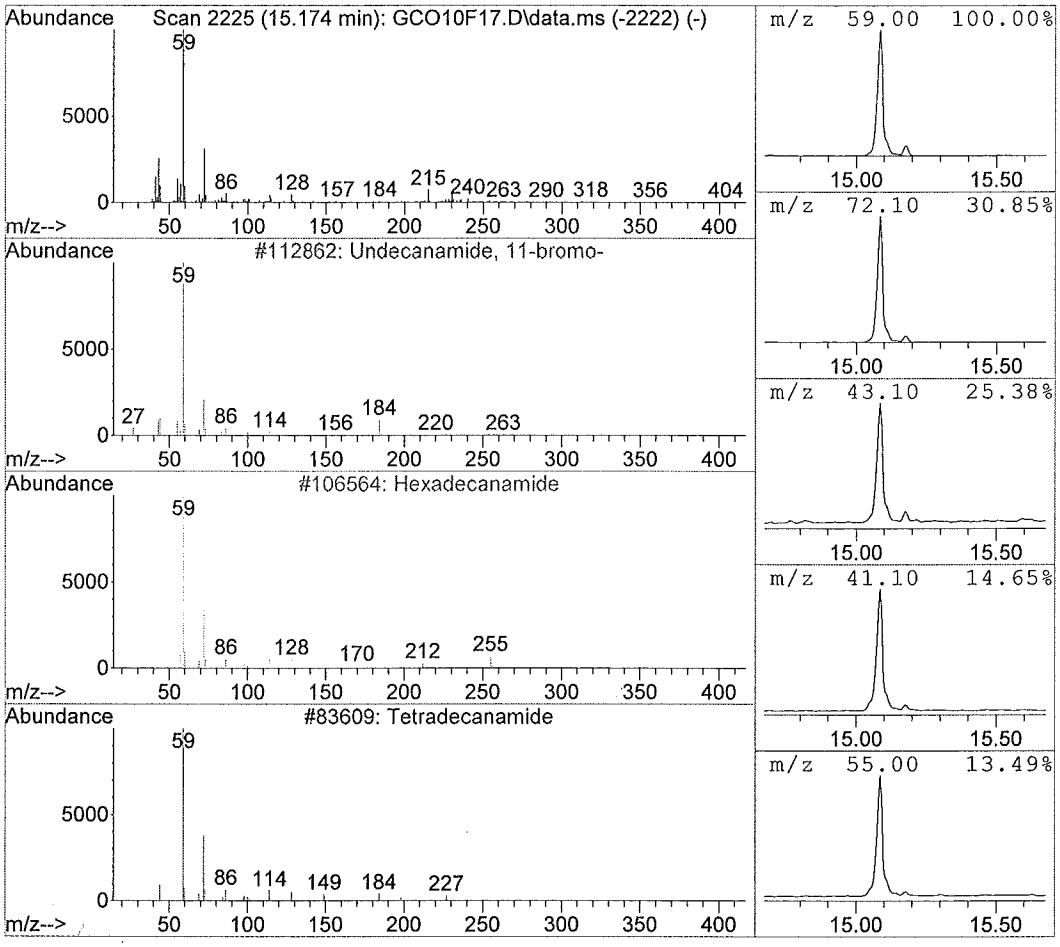
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	4.85 ug/ml	963853	Chrysene-d12	3975166

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecanamide, 11-bromo-	112862	005875-26-3	87.00
2	Hexadecanamide	106564	000629-54-9	83.00
3	Tetradecanamide	83609	000638-58-4	80.00
4	Dodecanamide	60439	001120-16-7	72.00
5	Nonadecanamide	142051	058185-32-3	64.00



: 00721

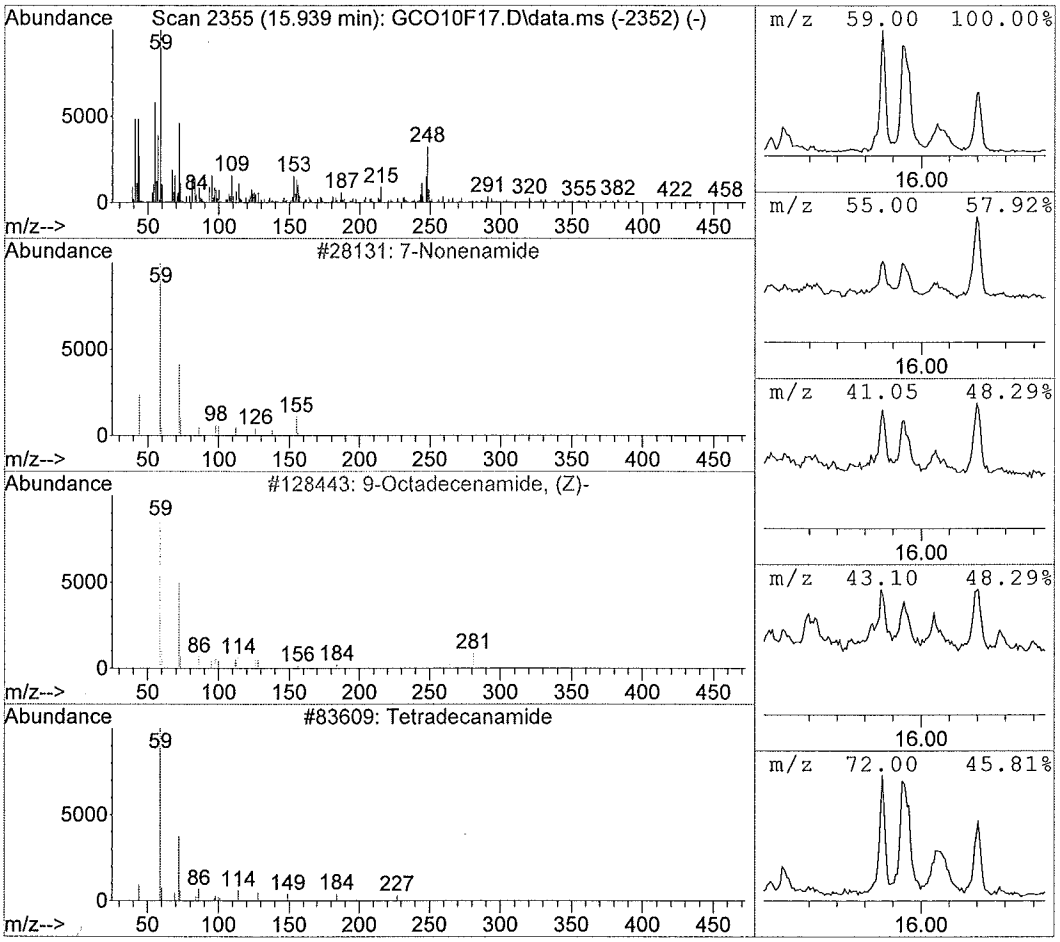
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.94	5.24 ug/ml	1042401	Chrysene-d12	3975166

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	92.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	58.00
3	Tetradecanamide	83609	000638-58-4	50.00
4	Hexadecanamide	106565	000629-54-9	50.00
5	Octadecanamide	130205	000124-26-5	47.00



: 00722

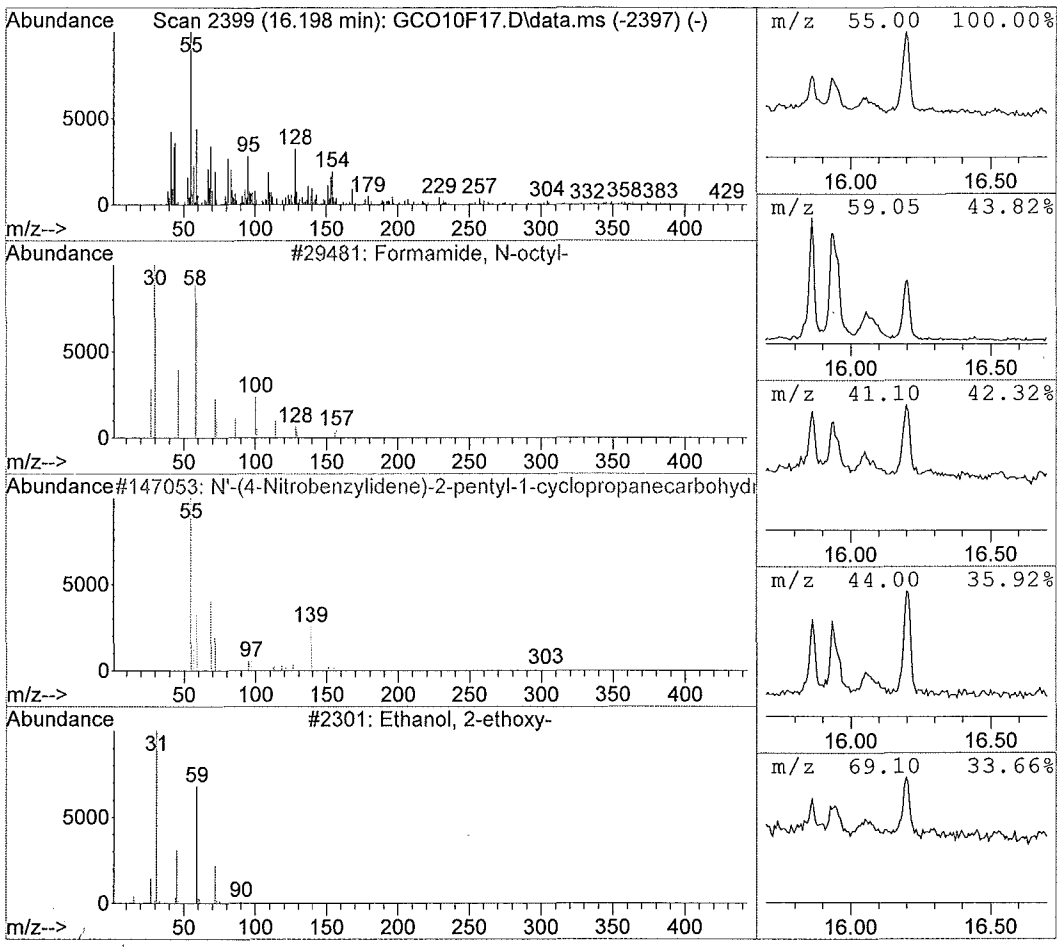
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	3.60 ug/ml	716151	Chrysene-d12	3975166

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Formamide, N-octyl-	29481	006282-06-0	10.00
2	N'-(4-Nitrobenzylidene)-2-pentyl-1-	147053	339027-09-7	10.00
3	Ethanol, 2-ethoxy-	2301	000110-80-5	9.00
4	2-Pentenoic acid, 2,3-dimethyl-	12264	122630-51-7	9.00
5	6,7-Dioxabicyclo[3.2.2]nonane	12239	000283-35-2	9.00



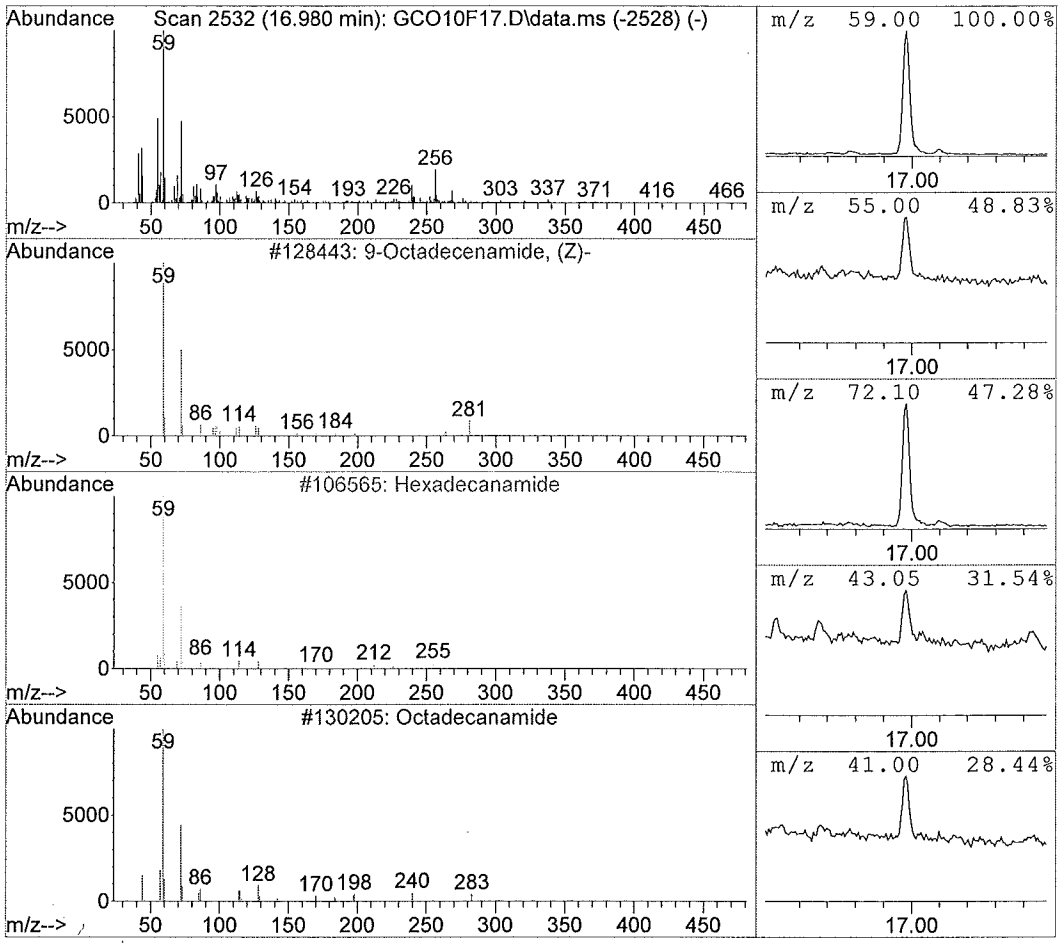
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO10F17.D Vial: 10
Acq On : 07/08/2015 13:08 Operator: TJM
Sample : 1515375017 F9M12 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.98	8.13 ug/ml	797470	Perylene-d12	1962256

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	58.00
2	Hexadecanamide	106565	000629-54-9	53.00
3	Octadecanamide	130205	000124-26-5	53.00
4	Tetradecanamide	83608	000638-58-4	53.00
5	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	52.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M13

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375018

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GC011F18

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.7 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	180	J
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	370	J
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	3900	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	3900	U
83-32-9	Acenaphthene	2000	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M13

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375018

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GC011F18

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	3900	U
100-02-7	4-Nitrophenol	3900	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	3900	U
534-52-1	4,6-Dinitro-2-methylphenol	3900	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	3900	U
85-01-8	Phenanthrene	850	J
120-12-7	Anthracene	2000	U
86-74-8	Carbazole	2000	U
84-74-2	Di-n-butylphthalate	2000	U
206-44-0	Fluoranthene	410	J
129-00-0	Pyrene	940	J
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)anthracene	520	J
218-01-9	Chrysene	830	J
117-81-7	Bis(2-ethylhexyl)phthalate	200	J
117-84-0	Di-n-octylphthalate	2000	U
205-99-2	Benzo(b)fluoranthene	860	J
207-08-9	Benzo(k)fluoranthene	220	J
50-32-8	Benzo(a)pyrene	480	J
193-39-5	Indeno(1,2,3-cd)pyrene	220	J
53-70-3	Dibenzo(a,h)anthracene	2000	U
191-24-2	Benzo(g,h,i)perylene	170	J
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.

F9M13

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375018

Sample wt/vol: 30.2 (g/mL) g Lab File ID: GC011F18

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 10.0

CONCENTRATION UNITS:(ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown Methacrylamide	2.81	830	J
02		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.49	2400	JB
03		Unknown Butane, 1-isocyanato-	5.48	800	J
04	1120-16-7	Dodecanamide	12.76	1800	JN
05	1120-16-7	Dodecanamide	14.15	5800	JN
06	301-02-0	9-Octadecenamide, (Z)-	15.09	39000	JNB
07	638-58-4	Tetradecanamide	15.17	1900	JN
08		Unknown Tetradecanamide	15.86	1700	J
09		Unknown Tetradecanamide	15.94	2200	J
10		Unknown N'-(4-Nitrobenzylidene)-2-pentyl-1-cyclc	16.20	2800	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		

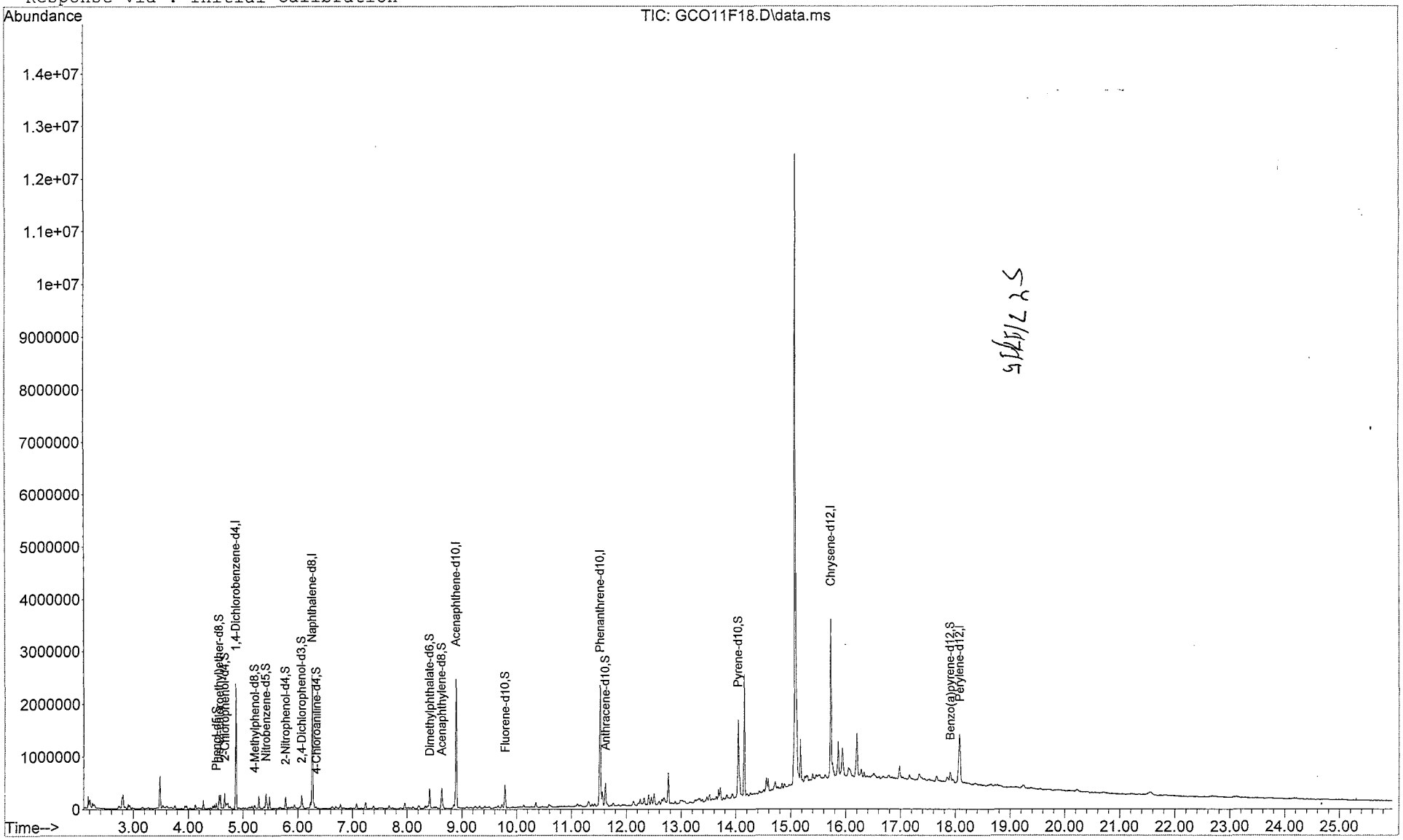
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO11F18.D Vial: 11
Acq On : 07/08/2015 13:42 Operator: TJM
Sample : 1515375018 F9M13 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 08:16:53 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



GCO11F18.D GSOM01D6.M Fri Jul 17 08:42:57 2015

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO11F18.D Vial: 11
Acq On : 07/08/2015 13:42 Operator: TJM
Sample : 1515375018 F9M13 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 08:16:53 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	319000	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1227248	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	748091	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1283462	20.00 ug/ml
73) Chrysene-d12	15.73	240	1190999	20.00 ug/ml
81) Perylene-d12	18.07	264	649225	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	30076	1.083ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	55918	2.585ug/mL
7) 2-Chlorophenol-d4	4.66	132	69014	2.944ug/ml
13) 4-Methylphenol-d8	5.21	113	16610	0.895ug/mL
17) Nitrobenzene-d5	5.42	128	31680	2.938ug/ml
21) 2-Nitrophenol-d4	5.77	143	32300	2.834ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	57090	3.217ug/mL
28) 4-Chloroaniline-d4	6.33	131	9044	0.467ug/mL
42) Dimethylphthalate-d6	8.41	166	182302	3.886ug/mL
45) Acenaphthylene-d8	8.63	160	228889	3.590ug/mL
50) 4-Nitrophenol-d4	9.11	143	360	0.038ug/mL
57) Fluorene-d10	9.79	176	154964	3.868ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	2711	0.298ug/mL
69) Anthracene-d10	11.62	188	258592	3.799ug/mL
75) Pyrene-d10	14.04	212	239001	4.021ug/mL
86) Benzo(a)pyrene-d12	17.90	264	116308	3.739ug/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	6.29	128	29180	0.470ug/ml	95
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	7.24	142	37271	0.949ug/ml	93
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)

: 00729

Quantitation Report

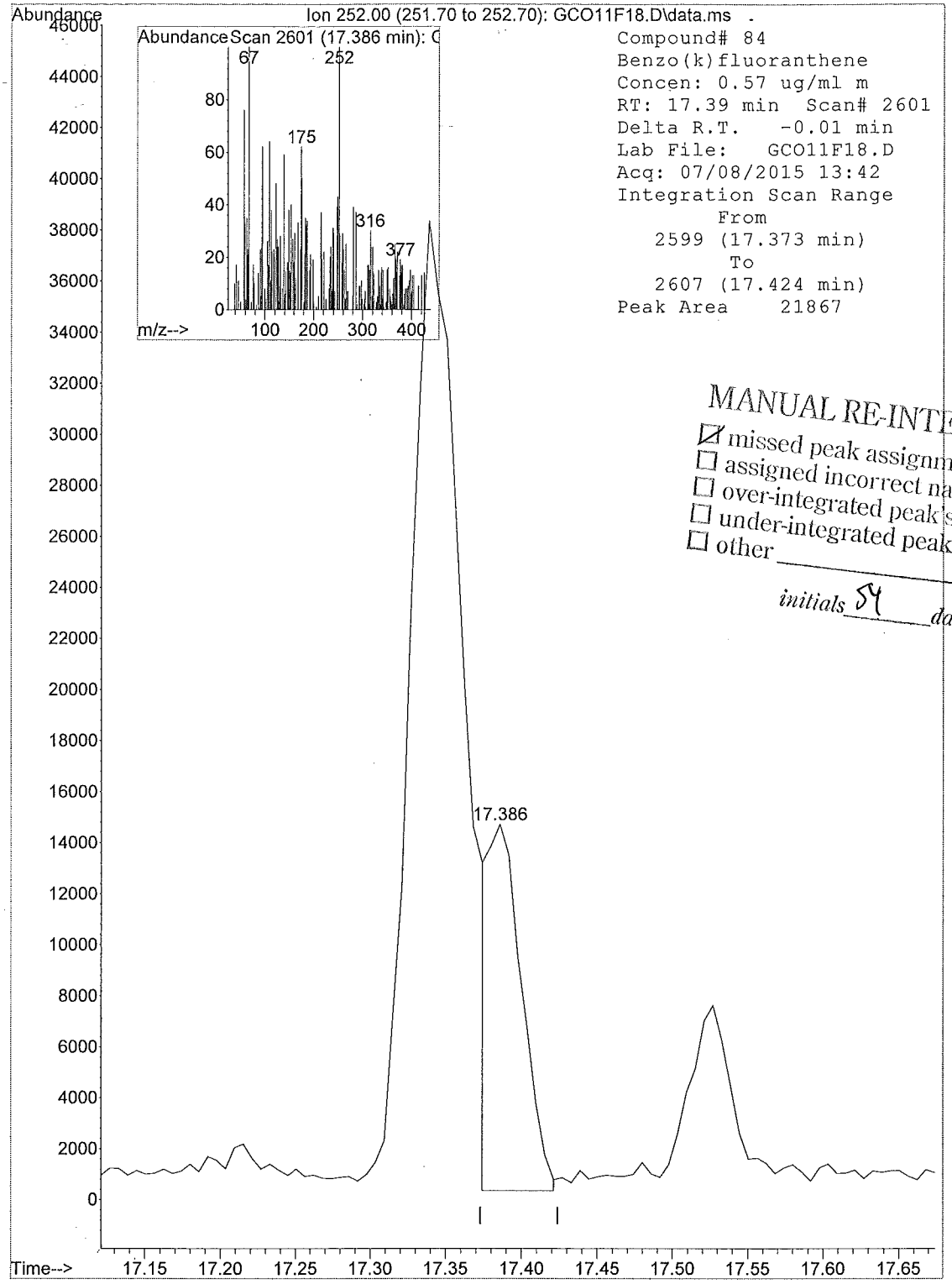
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GC011F18.D Vial: 11
Acq On : 07/08/2015 13:42 Operator: TJM
Sample : 1515375018 F9M13 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 08:16:53 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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	11.56	178	148716	2.172ug/ml	96
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	13.71	202	77853	1.032ug/ml	99
74) Pyrene	14.07	202	181155	2.389ug/ml	93
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	15.72	228	95444	1.321ug/ml	80
79) Chrysene	15.76	228	138740	2.126ug/ml	92
80) Bis-(2-ethylhexyl)phthalat	15.78	149	30433	0.517ug/ml	92
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	17.34	252	88950	2.187ug/ml	85
84) Benzo(k)fluoranthene	17.39	252	21867	0.569ug/ml m SY	85
85) Benzo(a)pyrene	17.96	252	47019	1.229ug/ml 7/14/15	94
87) Indeno(1,2,3-c,d)pyrene	20.72	276	18912	0.559ug/ml	69
88) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
89) Benzo(g,h,i)perylene	21.51	276	14810	0.445ug/ml	73

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

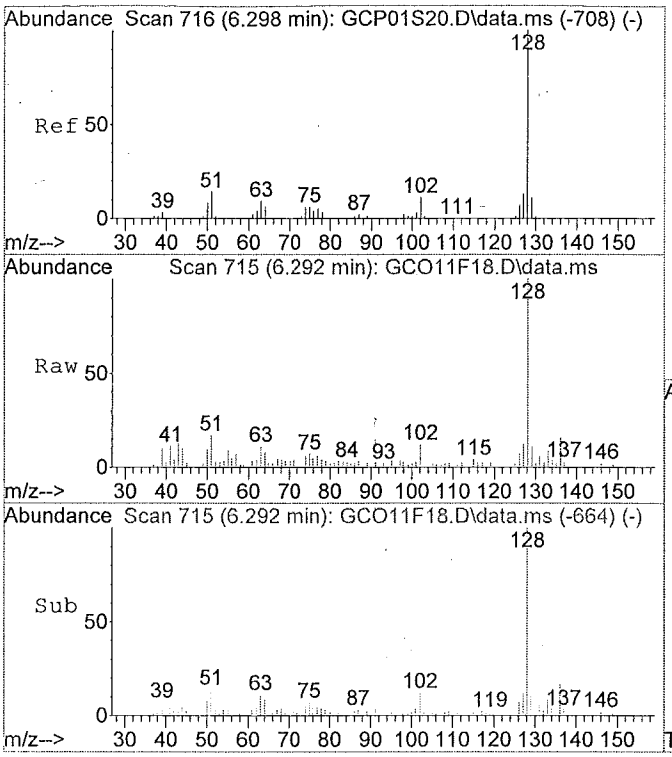
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATIO

☒ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

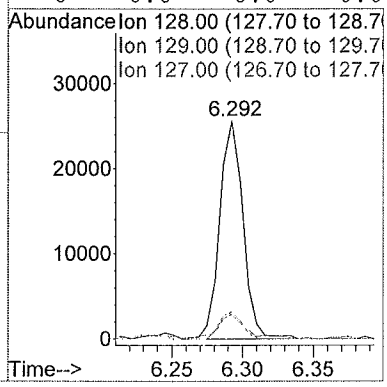
initials SY date 7/17/15

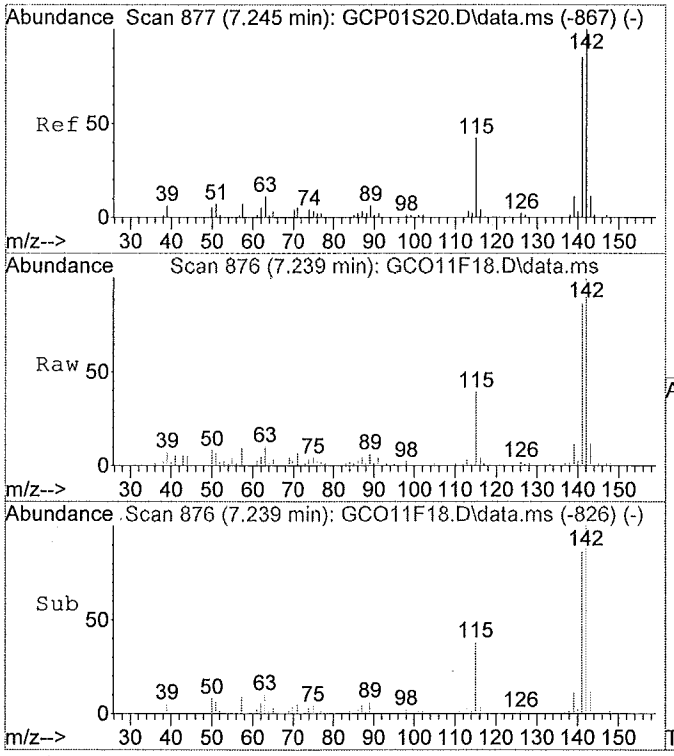


#26
Naphthalene
Concen: 0.47 ug/ml
RT: 6.29 min Scan# 715
Delta R.T. -0.00 min
Lab File: GCO11F18.D
Acq: 07/08/2015 13:42

Tgt Ion:128 Resp: 29180

Ion	Ratio	Lower	Upper
128	100		
129	13.8	7.8	14.4
127	12.2	9.3	17.3
0	0.0	0.0	0.0

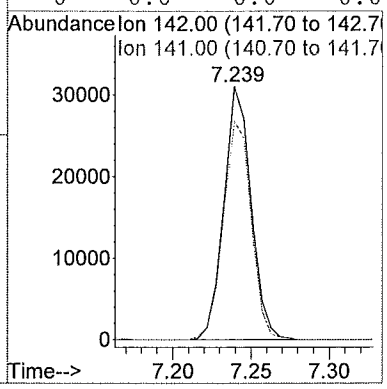


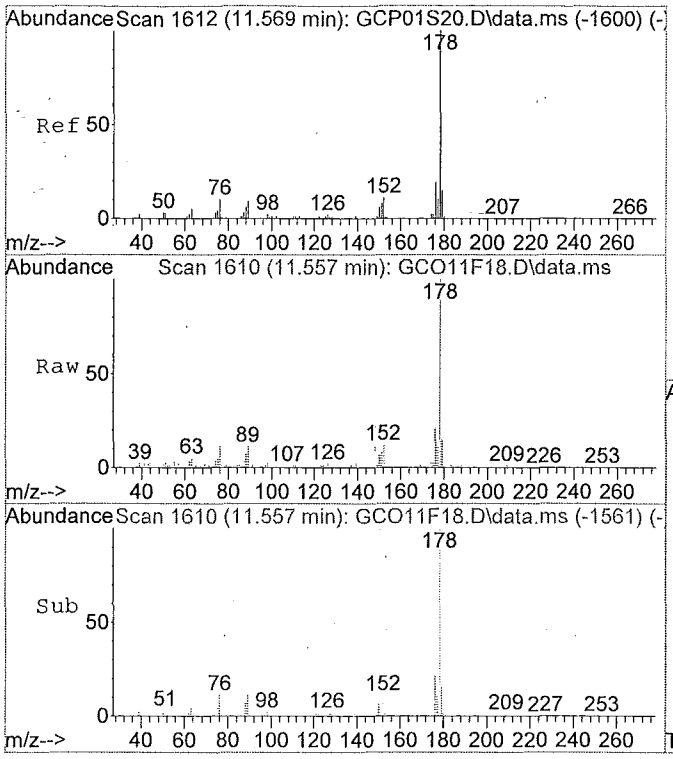


#32
2-Methylnaphthalene
Concen: 0.95 ug/ml
RT: 7.24 min Scan# 876
Delta R.T. -0.01 min
Lab File: GCO11F18.D
Acq: 07/08/2015 13:42

Tgt Ion:142 Resp: 37271

Ion	Ratio	Lower	Upper
142	100		
141	88.9	57.7	107.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

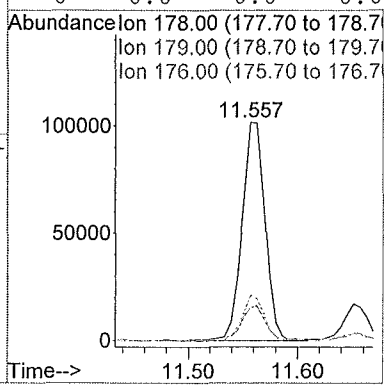


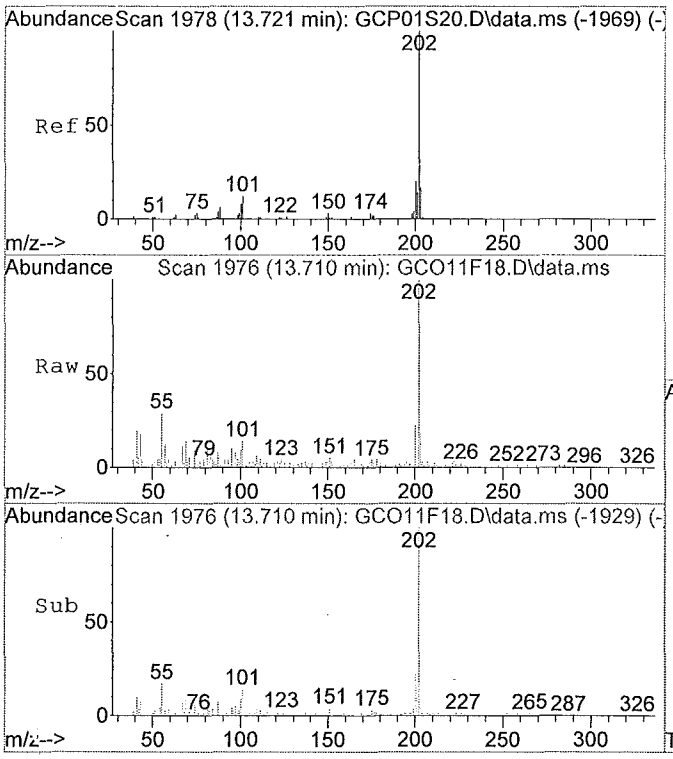


#67
Phenanthrene
Concen: 2.17 ug/ml
RT: 11.56 min Scan# 1610
Delta R.T. -0.01 min
Lab File: GCO11F18.D
Acq: 07/08/2015 13:42

Tgt Ion:178 Resp: 148716

Ion	Ratio	Lower	Upper
178	100		
179	17.4	10.6	19.8
176	20.2	13.2	24.4
0	0.0	0.0	0.0

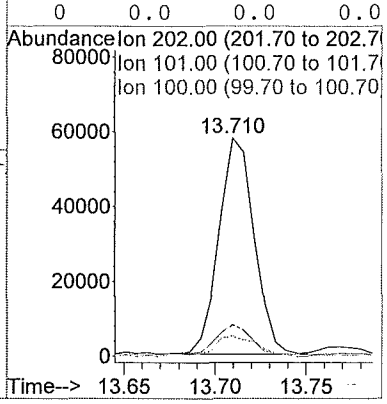


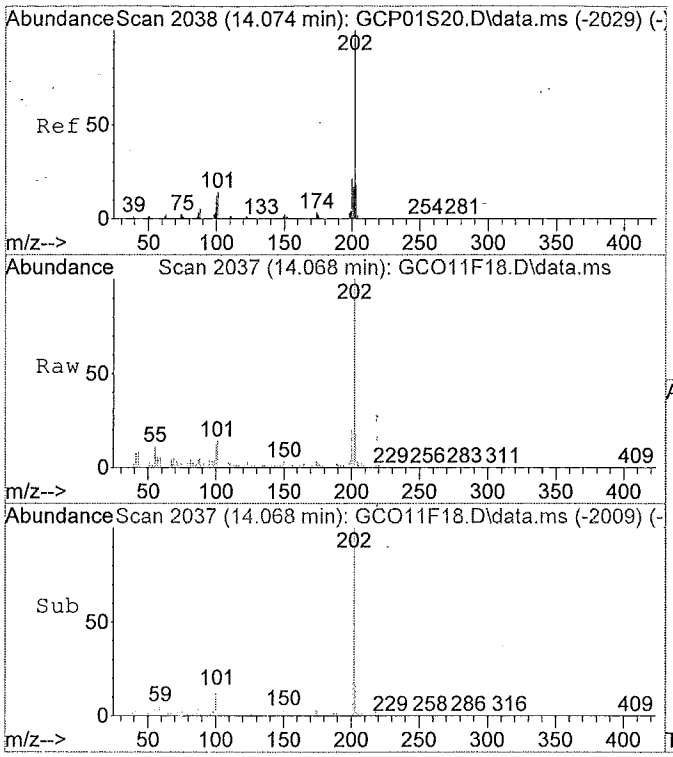


#72
Fluoranthene
Concen: 1.03 ug/ml
RT: 13.71 min Scan# 1976
Delta R.T. -0.01 min
Lab File: GCO11F18.D
Acq: 07/08/2015 13:42

Tgt Ion:202 Resp: 77853

Ion	Ratio	Lower	Upper
202	100		
101	14.7	10.5	19.5
100	11.0	7.4	13.8
0	0.0	0.0	0.0

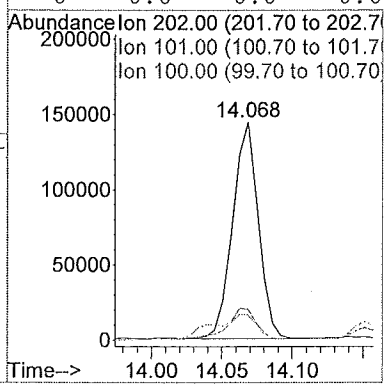


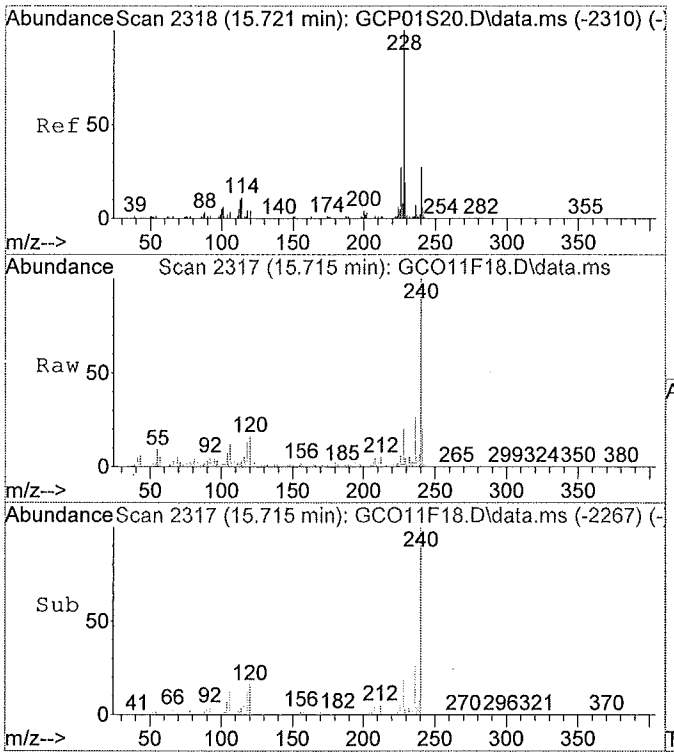


#74
Pyrene
Concen: 2.39 ug/ml
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: GCO11F18.D
Acq: 07/08/2015 13:42

Tgt Ion:202 Resp: 181155

Ion	Ratio	Lower	Upper
202	100		
101	16.6	12.2	22.7
100	19.9	10.1	18.7#
0	0.0	0.0	0.0

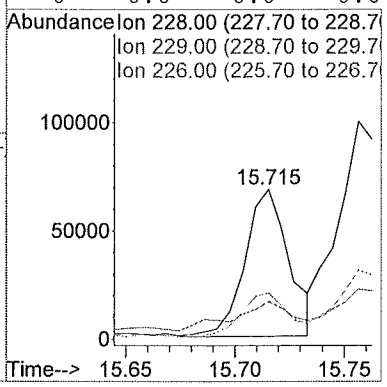


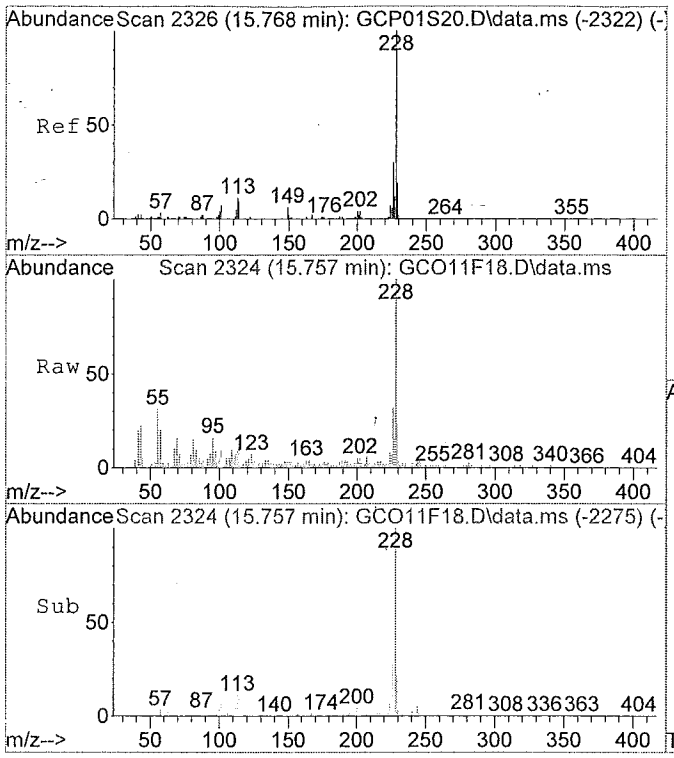


#78
Benzo(a)anthracene
Concen: 1.32 ug/ml
RT: 15.72 min Scan# 2317
Delta R.T. -0.01 min
Lab File: GCO11F18.D
Acq: 07/08/2015 13:42

Tgt Ion:228 Resp: 95444

Ion	Ratio	Lower	Upper
228	100		
229	32.8	13.7	25.5#
226	32.6	18.2	33.8
0	0.0	0.0	0.0

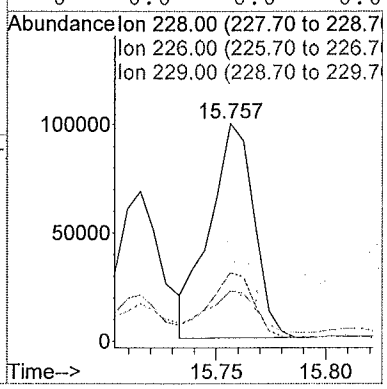


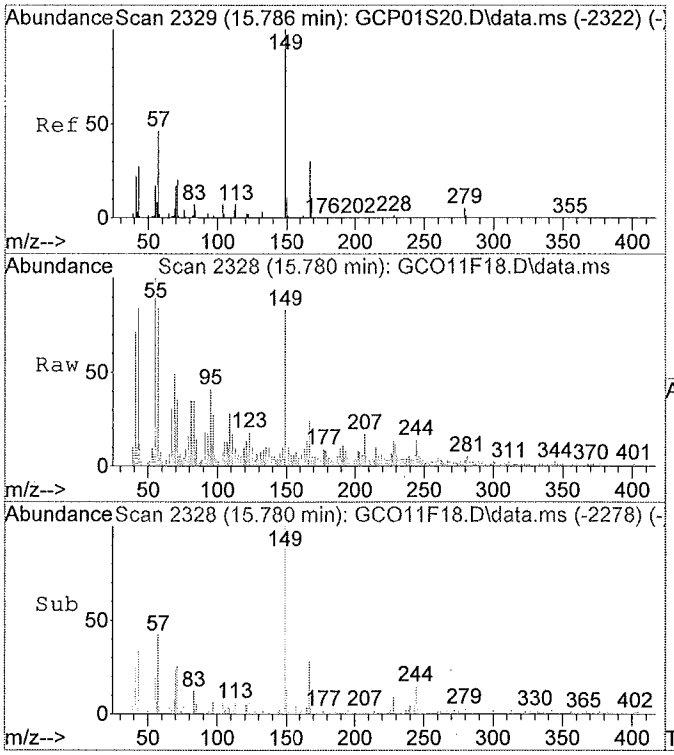


#79
Chrysene
Concen: 2.13 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCO11F18.D
Acq: 07/08/2015 13:42

Tgt Ion:228 Resp: 138740

Ion	Ratio	Lower	Upper
228	100		
226	31.1	20.1	37.3
229	26.0	13.7	25.5#
0	0.0	0.0	0.0

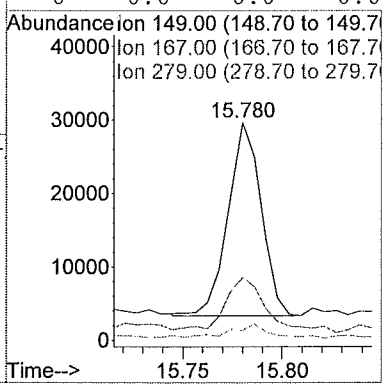


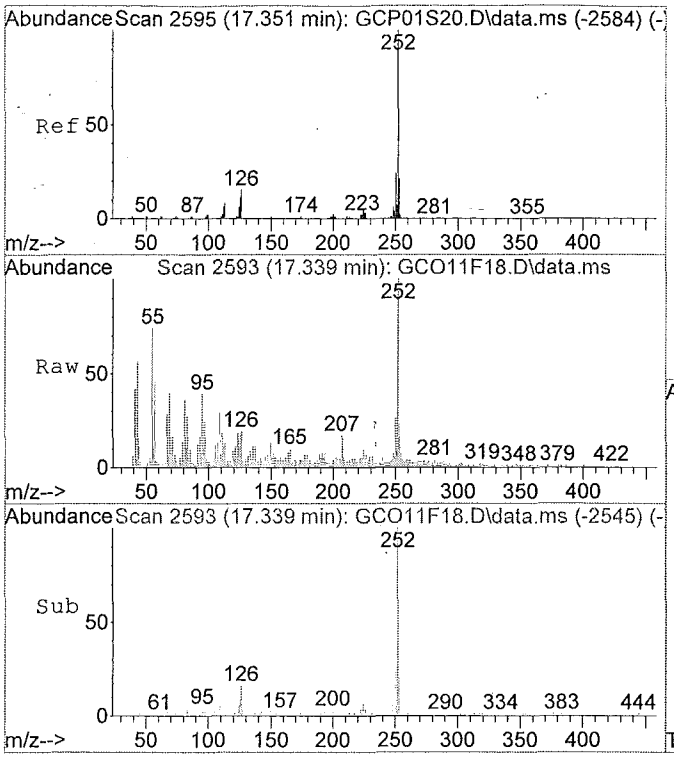


#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.52 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.01 min
Lab File: GCO11F18.D
Acq: 07/08/2015 13:42

Tgt Ion:149 Resp: 30433

Ion	Ratio	Lower	Upper
149	100		
167	36.1	22.0	40.8
279	9.0	5.0	9.2
0	0.0	0.0	0.0

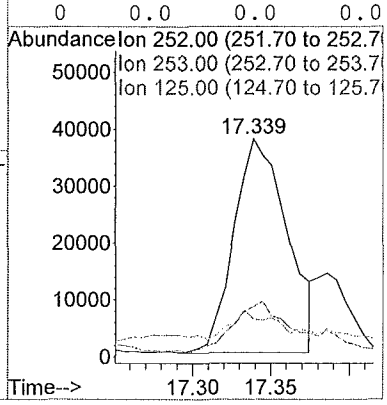


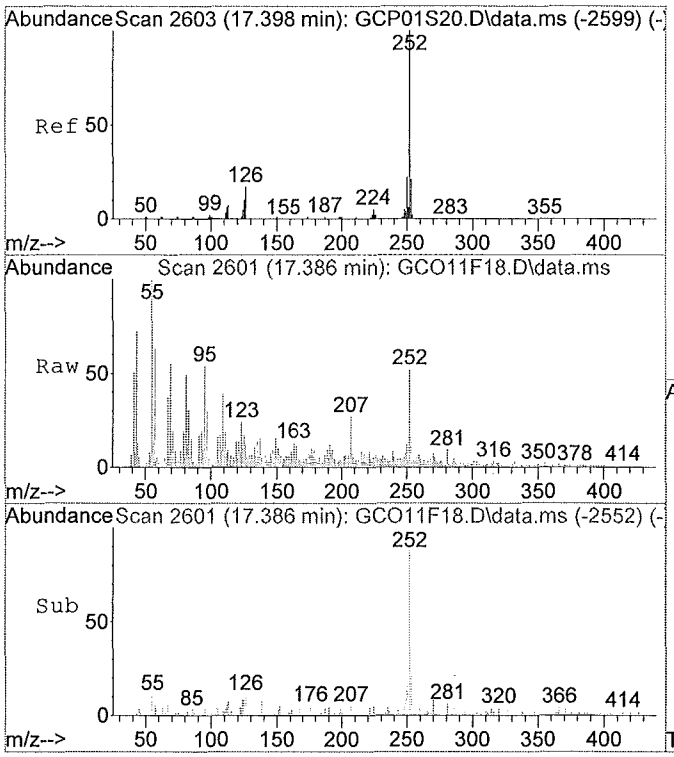


#83
Benzo(b)fluoranthene
Concen: 2.19 ug/ml
RT: 17.34 min Scan# 2593
Delta R.T. -0.01 min
Lab File: GCO11F18.D
Acq: 07/08/2015 13:42

Tgt Ion:252 Resp: 88950

Ion	Ratio	Lower	Upper
252	100		
253	31.1	15.1	28.1#
125	11.6	10.6	19.8
0	0.0	0.0	0.0

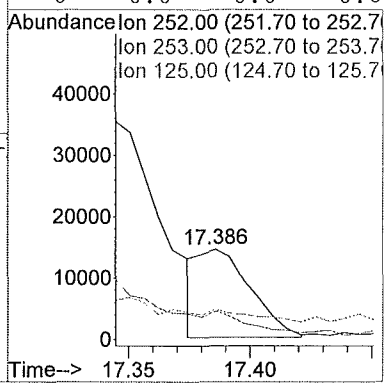


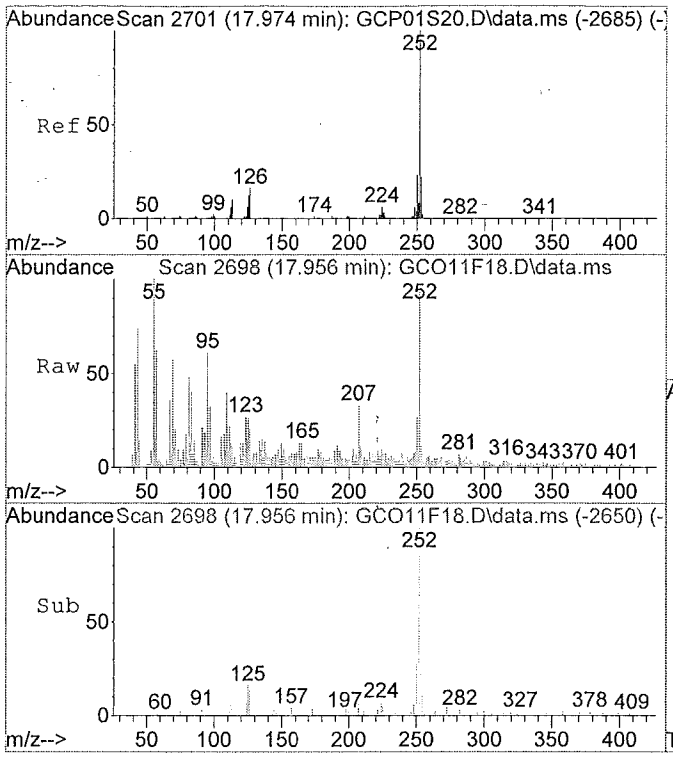


#84
Benzo(k)fluoranthene
Concen: 0.57 ug/ml m
RT: 17.39 min Scan# 2601
Delta R.T. -0.01 min
Lab File: GCO11F18.D
Acq: 07/08/2015 13:42

Tgt Ion:252 Resp: 21867

Ion	Ratio	Lower	Upper
252	100		
253	126.5	15.1	28.1#
125	47.2	10.7	19.9#
0	0.0	0.0	0.0

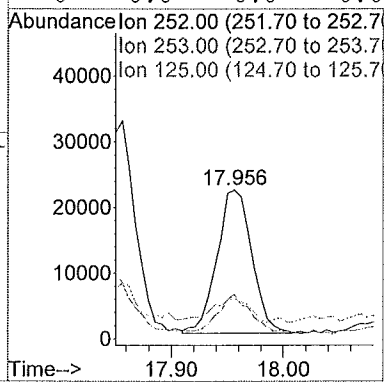


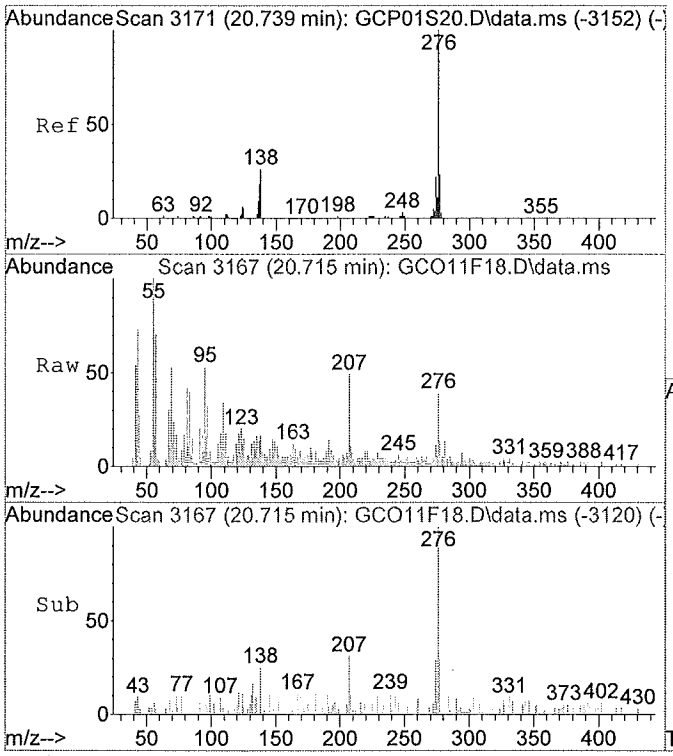


#85
Benzo(a)pyrene
Concen: 1.23 ug/ml
RT: 17.96 min Scan# 2698
Delta R.T. -0.02 min
Lab File: GCO11F18.D
Acq: 07/08/2015 13:42

Tgt Ion:252 Resp: 47019

Ion	Ratio	Lower	Upper
252	100		
253	25.1	15.2	28.2
125	18.7	11.8	21.8
0	0.0	0.0	0.0

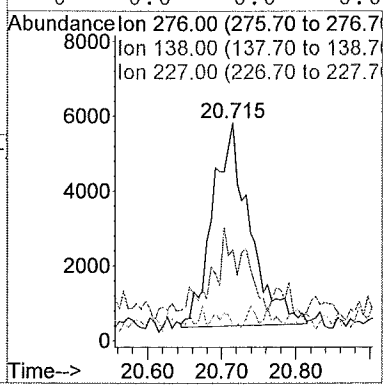


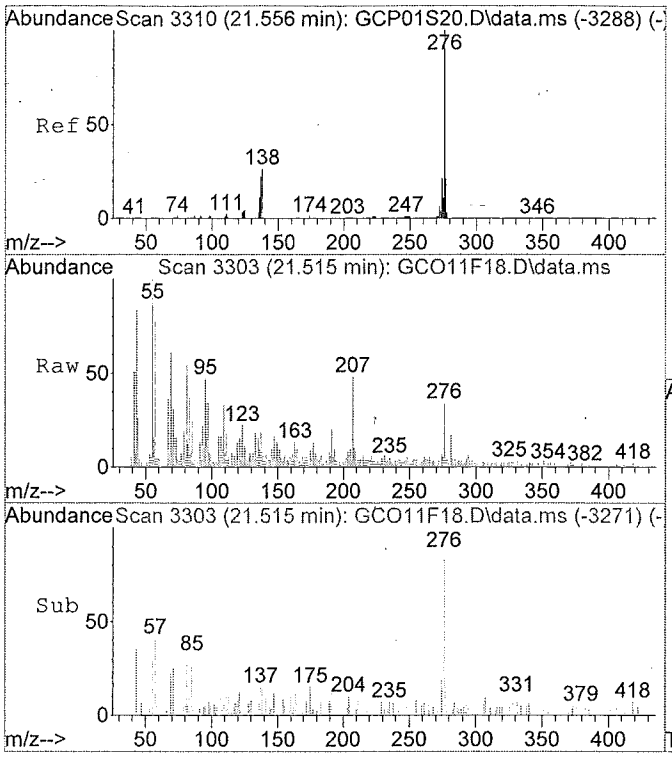


#87
Indeno(1,2,3-c,d)pyrene
Concen: 0.56 ug/ml
RT: 20.72 min Scan# 3167
Delta R.T. -0.02 min
Lab File: GCO11F18.D
Acq: 07/08/2015 13:42

Tgt Ion:276 Resp: 18912

Ion	Ratio	Lower	Upper
276	100		
138	14.4	22.3	41.5#
227	0.4	0.1	0.1#
0	0.0	0.0	0.0

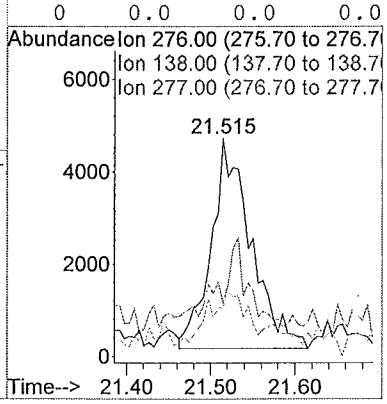




#89
Benzo(g,h,i)perylene
Concen: 0.44 ug/ml
RT: 21.51 min Scan# 3303
Delta R.T. -0.04 min
Lab File: GCO11F18.D
Acq: 07/08/2015 13:42

Tgt Ion:276 Resp: 14810

Ion	Ratio	Lower	Upper
276	100		
138	15.1	24.1	44.7#
277	15.2	16.7	30.9#
0	0.0	0.0	0.0



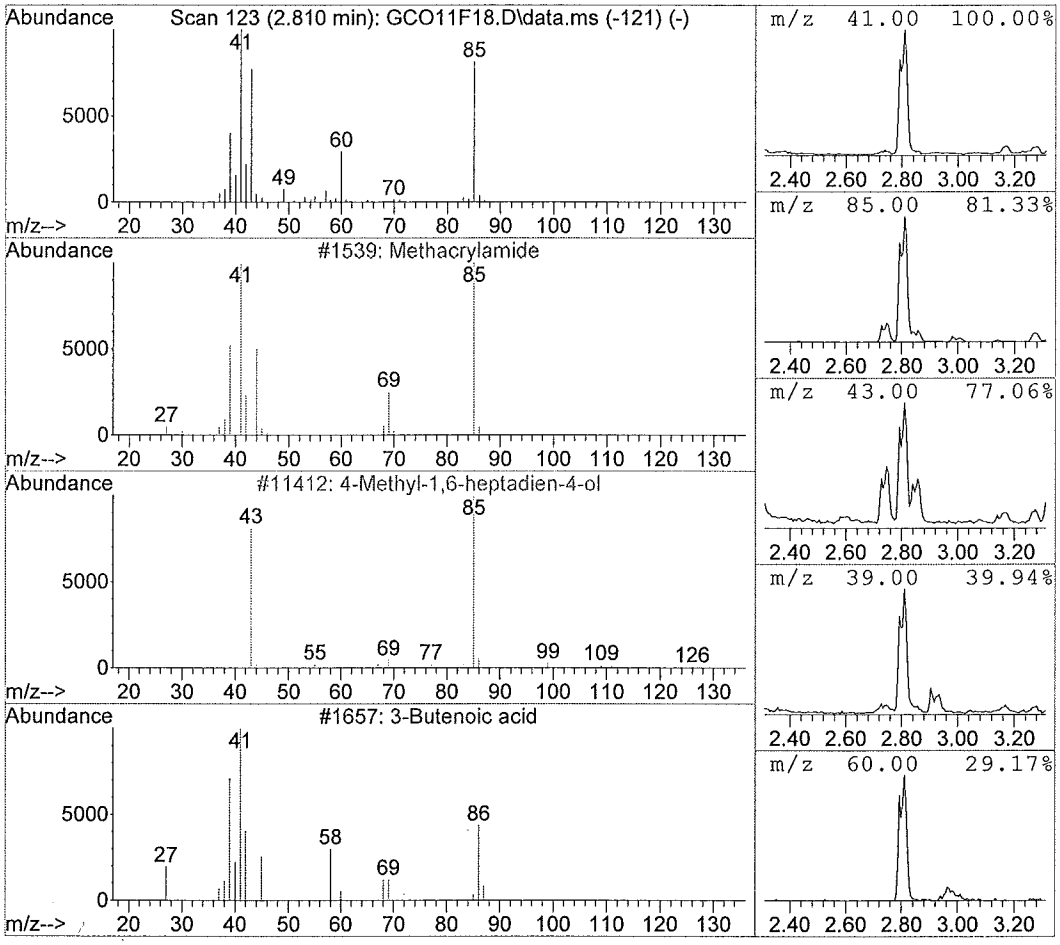
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO11F18.D Vial: 11
Acq On : 07/08/2015 13:42 Operator: TJM
Sample : 1515375018 F9M13 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.81	2.11 ug/ml	244503	1,4-Dichlorobenzene-d4	2318007

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methacrylamide	1539	000079-39-0	52.00
2	4-Methyl-1,6-heptadien-4-ol	11412	025201-40-5	28.00
3	3-Butenoic acid	1657	000625-38-7	12.00
4	Dimethylketene	527	000598-26-5	10.00
5	Furan, 2,3-dihydro-	541	001191-99-7	10.00



: 00739

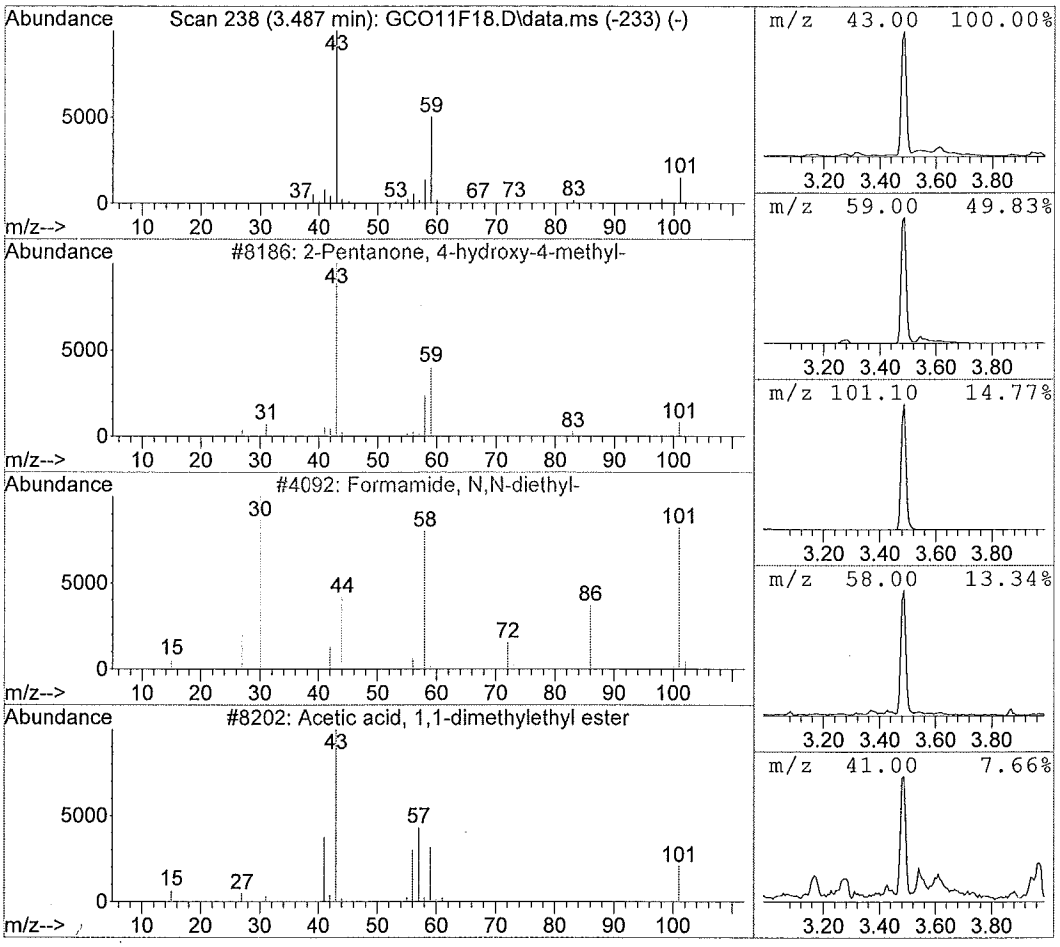
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO11F18.D Vial: 11
Acq On : 07/08/2015 13:42 Operator: TJM
Sample : 1515375018 F9M13 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.49	6.24 ug/ml	722660	1,4-Dichlorobenzene-d4	2318007

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	Formamide, N,N-diethyl-	4092	000617-84-5	9.00
3	Acetic acid, 1,1-dimethylethyl este	8202	000540-88-5	9.00
4	1-Propen-2-ol, acetate	3686	000108-22-5	9.00
5	5-Oxohexanenitrile	6108	010412-98-3	9.00



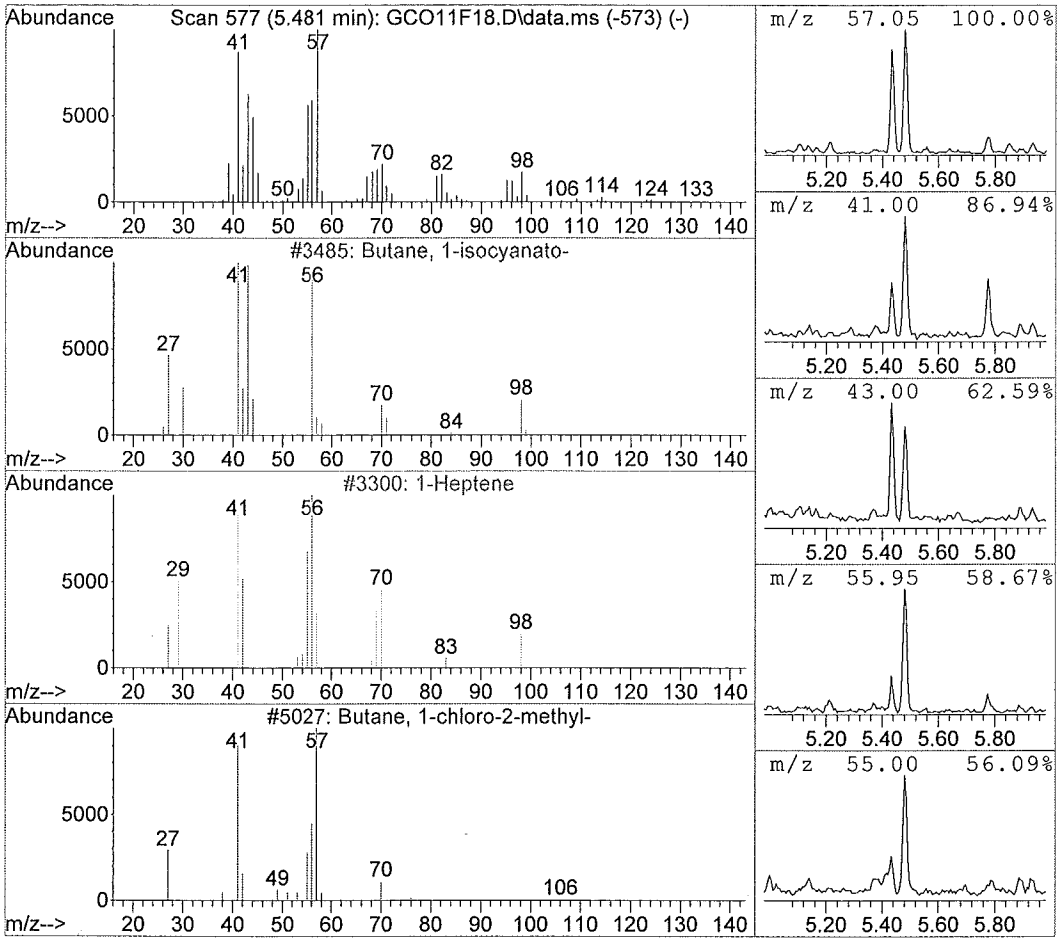
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO11F18.D Vial: 11
Acq On : 07/08/2015 13:42 Operator: TJM
Sample : 1515375018 F9M13 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.48	2.05 ug/ml	237260	1,4-Dichlorobenzene-d4	2318007

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butane, 1-isocyanato-	3485	000111-36-4	49.00
2	1-Heptene	3300	000592-76-7	43.00
3	Butane, 1-chloro-2-methyl-	5027	000616-13-7	43.00
4	(Z)-3-Heptene	3307	007642-10-6	38.00
5	2-Hepten-1-ol, (E)-	7473	033467-76-4	38.00



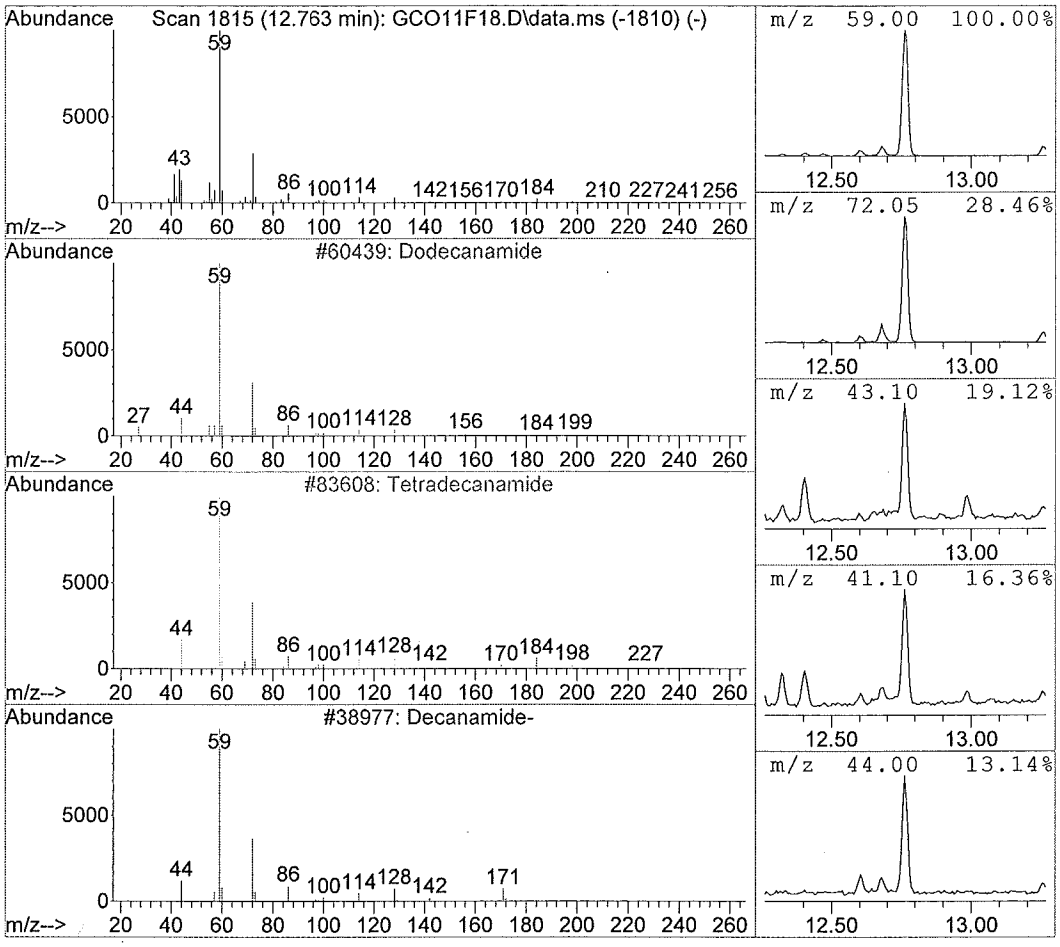
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO11F18.D Vial: 11
Acq On : 07/08/2015 13:42 Operator: TJM
Sample : 1515375018 F9M13 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.76	4.50 ug/ml	795755	Phenanthrene-d10	3539146

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Tetradecanamide	83608	000638-58-4	86.00
3	Decanamide-	38977	002319-29-1	74.00
4	Nonanamide	29478	001120-07-6	72.00
5	Hexadecanamide	106565	000629-54-9	72.00



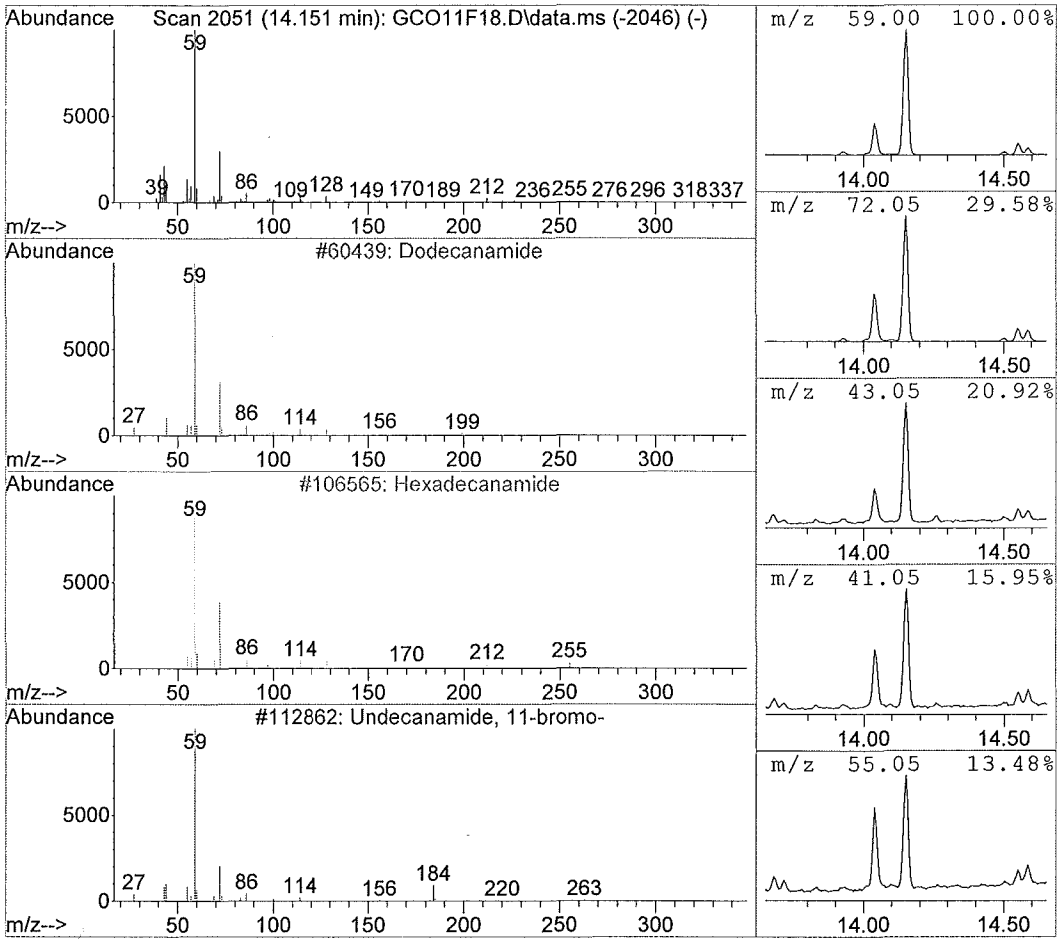
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO11F18.D Vial: 11
Acq On : 07/08/2015 13:42 Operator: TJM
Sample : 1515375018 F9M13 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	14.86 ug/ml	2678446	Chrysene-d12	3604979

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Hexadecanamide	106565	000629-54-9	87.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	87.00
4	Nonanamide	29478	001120-07-6	83.00
5	Tetradecanamide	83609	000638-58-4	78.00



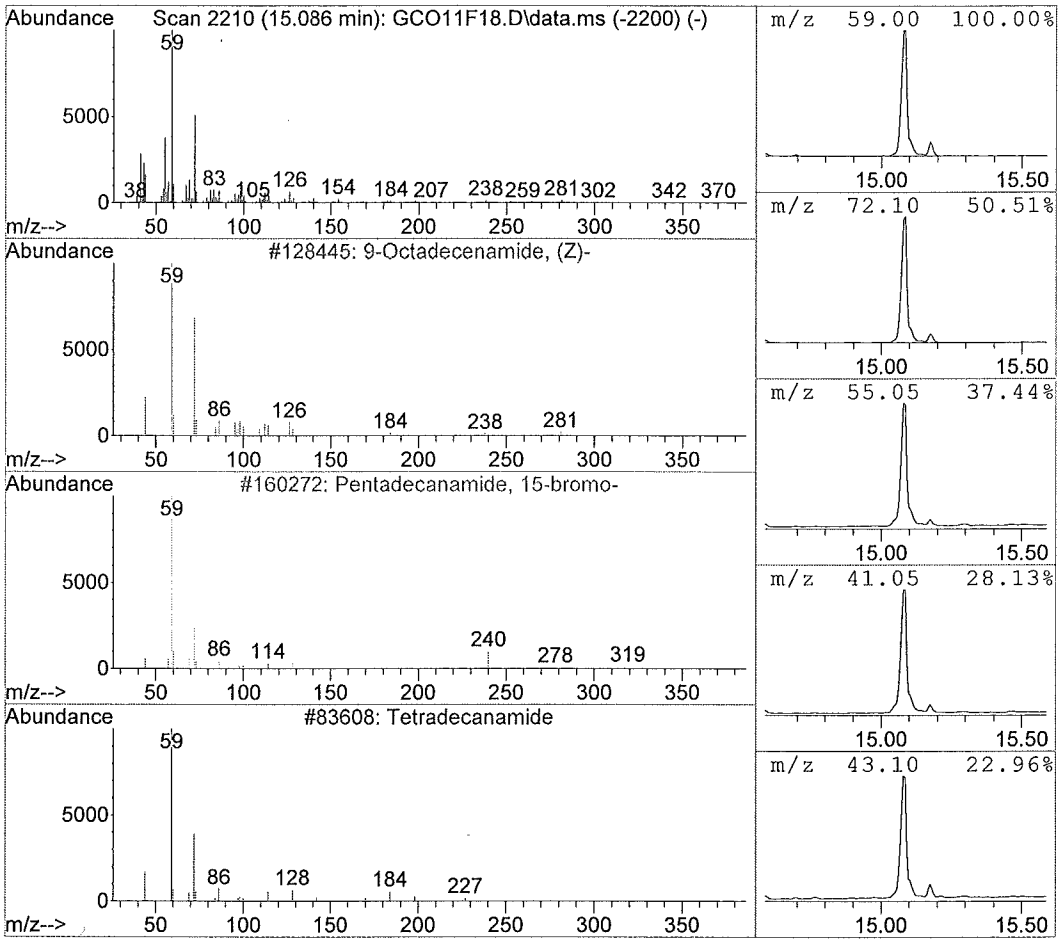
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO11F18.D Vial: 11
Acq On : 07/08/2015 13:42 Operator: TJM
Sample : 1515375018 F9M13 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.09	100.49 ug/ml	18113414	Chrysene-d12	3604979

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	80.00
3	Tetradecanamide	83608	000638-58-4	56.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	53.00
5	Dodecanamide	60440	001120-16-7	42.00



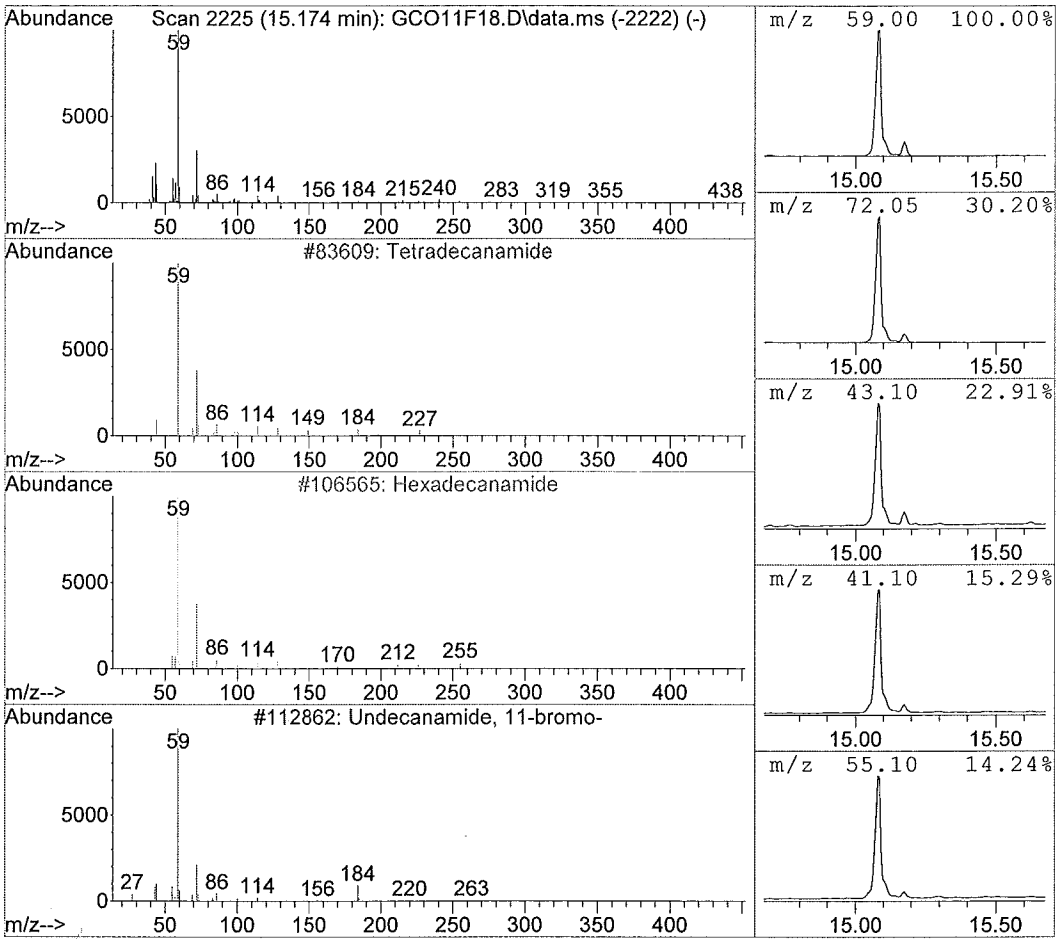
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO11F18.D Vial: 11
Acq On : 07/08/2015 13:42 Operator: TJM
Sample : 1515375018 F9M13 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	4.83 ug/ml	870793	Chrysene-d12	3604979

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83609	000638-58-4	86.00
2	Hexadecanamide	106565	000629-54-9	80.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
4	Nonanamide	29478	001120-07-6	78.00
5	Dodecanamide	60439	001120-16-7	74.00



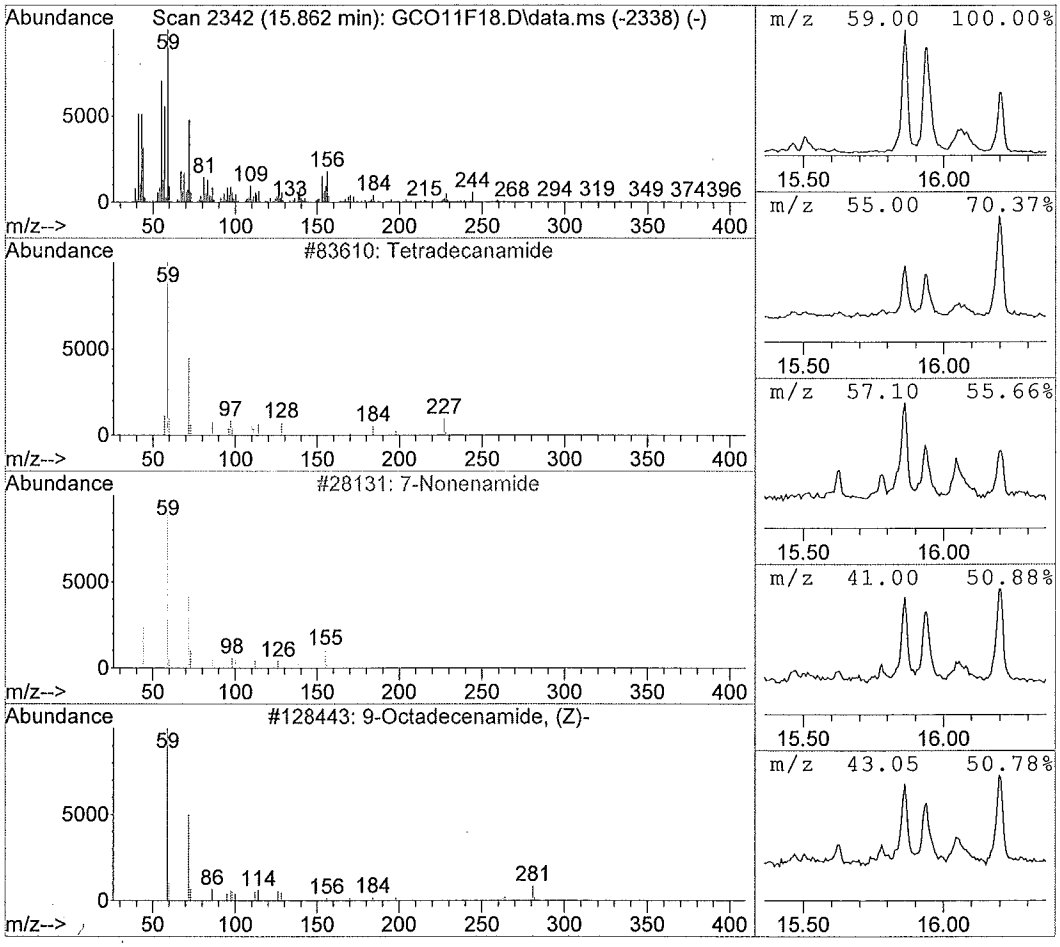
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO11F18.D Vial: 11
Acq On : 07/08/2015 13:42 Operator: TJM
Sample : 1515375018 F9M13 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.86	4.39 ug/ml	791509	Chrysene-d12	3604979

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	70.00
2	7-Nonenamide	28131	090949-53-4	62.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	58.00
4	Decanamide-	38977	002319-29-1	53.00
5	Hexanamide	7791	000628-02-4	43.00



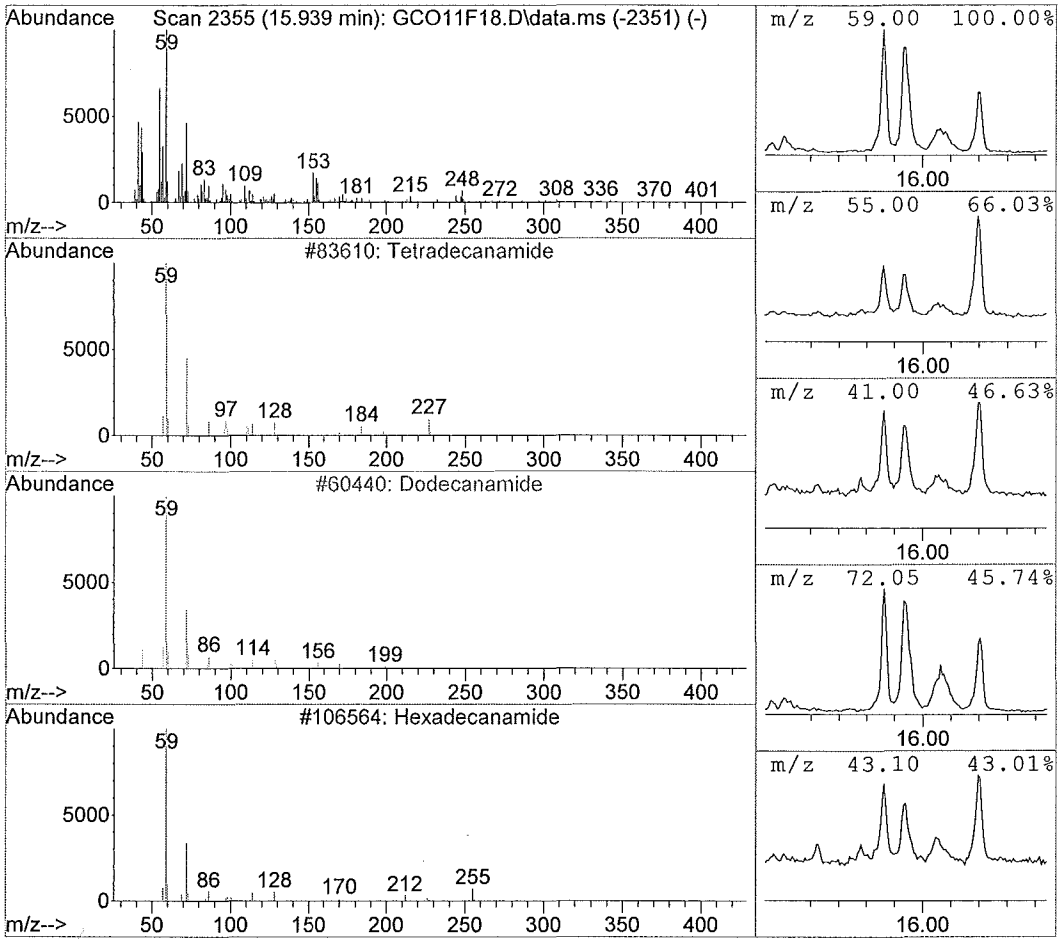
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO11F18.D Vial: 11
Acq On : 07/08/2015 13:42 Operator: TJM
Sample : 1515375018 F9M13 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.94	5.54 ug/ml	998377	Chrysene-d12	3604979

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83610	000638-58-4	70.00
2	Dodecanamide	60440	001120-16-7	60.00
3	Hexadecanamide	106564	000629-54-9	53.00
4	Octadecanamide	130204	000124-26-5	53.00
5	7-Nonenamide	28131	090949-53-4	53.00



: 00747

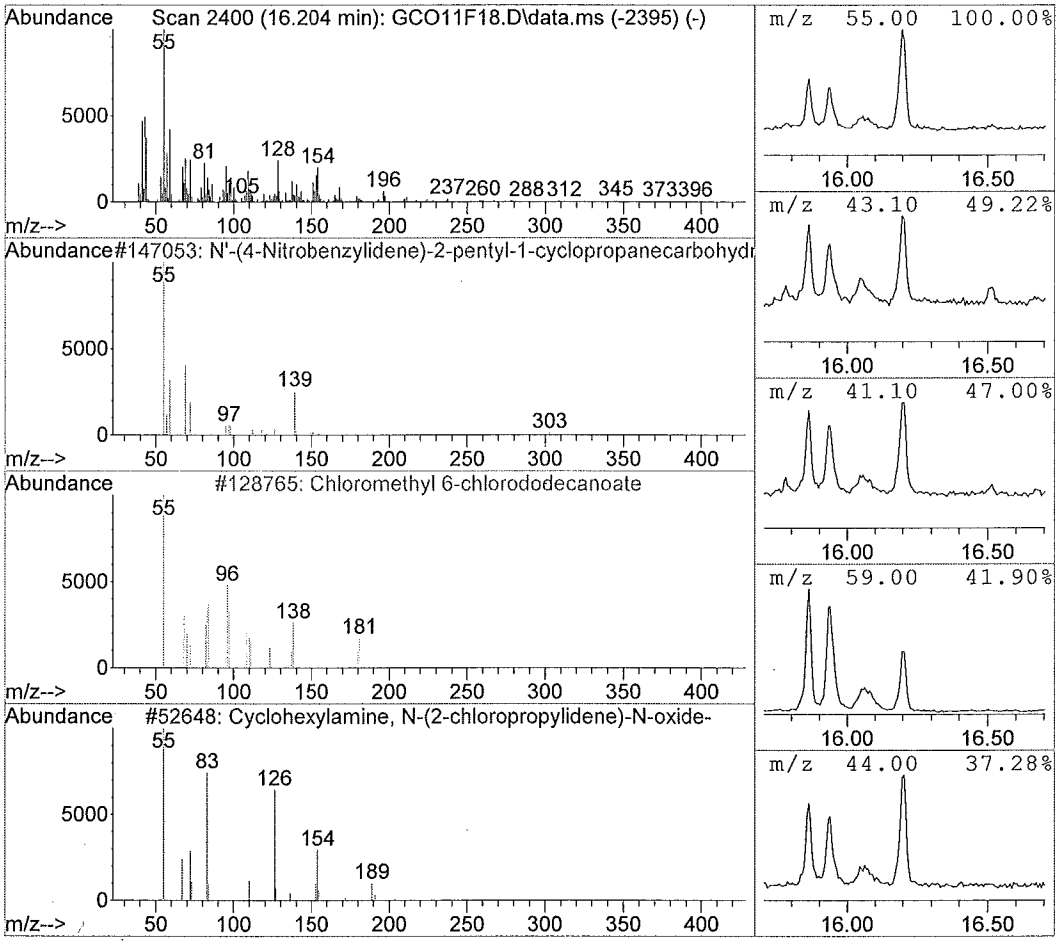
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO11F18.D Vial: 11
Acq On : 07/08/2015 13:42 Operator: TJM
Sample : 1515375018 F9M13 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	7.13 ug/ml	1284870	Chrysene-d12	3604979

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	N'-(4-Nitrobenzylidene)-2-pentyl-1-	147053	339027-09-7	16.00
2	Chloromethyl 6-chlorododecanoate	128765	080419-02-9	9.00
3	Cyclohexylamine, N-(2-chloropropyli	52648	037898-42-3	9.00
4	Acetic acid, hydroxy-, methyl ester	2272	000096-35-5	9.00
5	1-Propanol, 3-bromo-	17048	000627-18-9	9.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: F9M14

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375019
Sample wt/vol: 30.0 (g/mL) g Lab File ID: GC012F19
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: 13. Decanted: (Y/N) N Date Received: 06/02/2015
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015
GPC Cleanup: (Y/N) Y pH: 7.8 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	3800	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	3800	U
83-32-9	Acenaphthene	1900	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M14

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375019

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GC012F19

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.8 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	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	3800	U
534-52-1	4,6-Dinitro-2-methylphenol	3800	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	3800	U
85-01-8	Phenanthrene	180	J
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	180	J
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	200	J
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.

F9M14

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: _____ SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375019

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GC012F19

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.8 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-	3.49	2600	JB
02		Unknown Nonanal	5.48	810	J
03	626-97-1	Pentanamide	10.35	1300	JN
04	1120-16-7	Dodecanamide	12.76	2100	JN
05	1120-16-7	Dodecanamide	14.15	6700	JN
06	301-02-0	9-Octadecenamide, (Z)-	15.08	38000	JNB
07	629-54-9	Hexadecanamide	15.17	2100	JNB
08		Unknown 7-Nonenamide	15.86	2300	J
09		Unknown Benzeneethanamine, 2-fluoro-.beta.,3,4-t	15.93	2600	J
10		Unknown 2-(3-Hydroxybutyl)cyclooctanone	16.20	4100	J
11		Unknown Octadecanamide	16.98	1200	J
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		

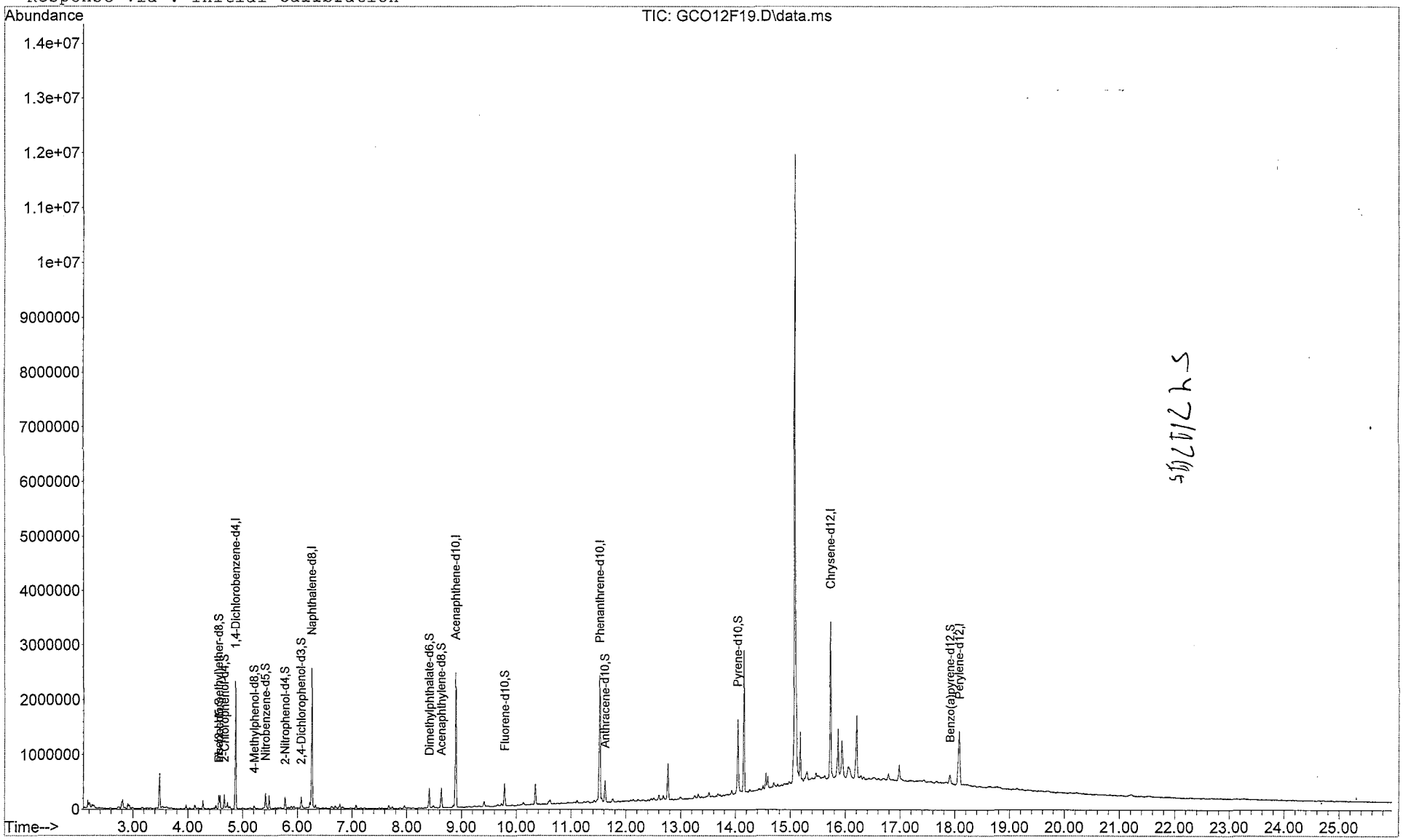
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO12F19.D Vial: 12
Acq On : 07/08/2015 14:14 Operator: TJM
Sample : 1515375019 F9M14 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 08 14:40:58 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO12F19.D Vial: 12
Acq On : 07/08/2015 14:14 Operator: TJM
Sample : 1515375019 F9M14 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 08 14:40:58 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	327836	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1221709	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	747077	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1265871	20.00 ug/ml
73) Chrysene-d12	15.73	240	1203804	20.00 ug/ml
81) Perylene-d12	18.07	264	695906	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.56	99	69422	2.433ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	55012	2.474ug/mL
7) 2-Chlorophenol-d4	4.66	132	66395	2.756ug/ml
13) 4-Methylphenol-d8	5.20	113	14179	0.743ug/mL
17) Nitrobenzene-d5	5.42	128	31945	2.976ug/ml
21) 2-Nitrophenol-d4	5.77	143	31451	2.772ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	50118	2.837ug/mL
28) 4-Chloroaniline-d4	6.33	131	5410	0.281ug/mL
42) Dimethylphthalate-d6	8.41	166	175389	3.744ug/mL
45) Acenaphthylene-d8	8.63	160	217859	3.422ug/mL
50) 4-Nitrophenol-d4	9.12	143	201	0.021ug/mL
57) Fluorene-d10	9.79	176	147454	3.686ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	2503	0.279ug/mL
69) Anthracene-d10	11.62	188	233505	3.478ug/mL
75) Pyrene-d10	14.04	212	223691	3.723ug/mL
86) Benzo(a)pyrene-d12	17.90	264	112715	3.380ug/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

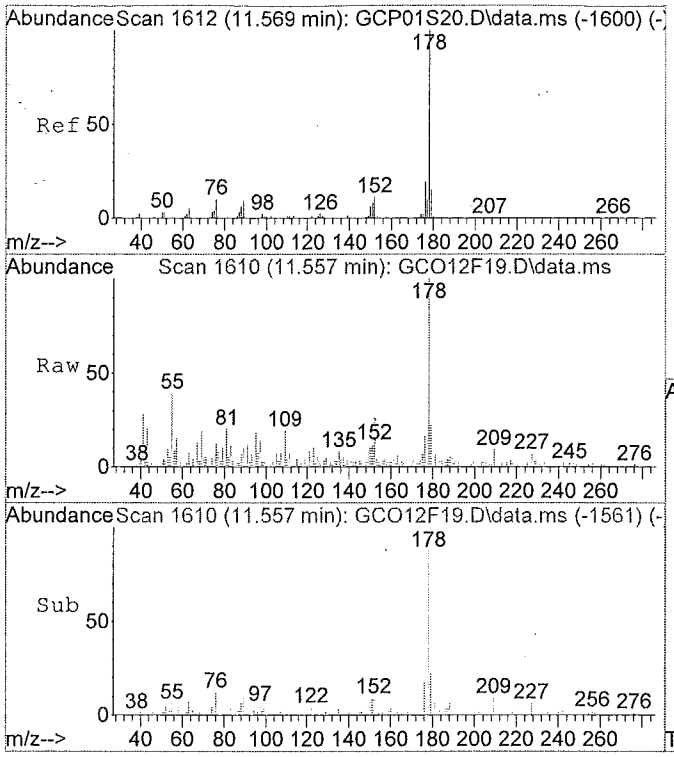
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO12F19.D Vial: 12
Acq On : 07/08/2015 14:14 Operator: TJM
Sample : 1515375019 F9M14 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 08 14:40:58 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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	11.56	178	32200	0.477ug/ml	96
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	14.07	202	36944	0.482ug/ml	47
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	15.76	228	34622	0.525ug/ml	94
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)

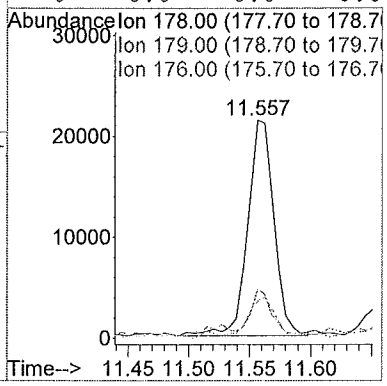
: 00754

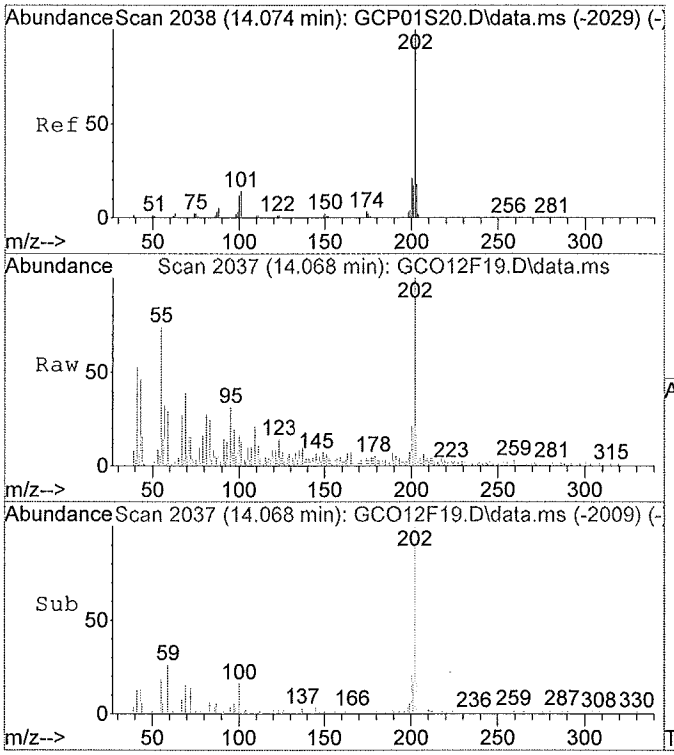


#67
Phenanthrene
Concen: 0.48 ug/ml
RT: 11.56 min Scan# 1610
Delta R.T. -0.01 min
Lab File: GCO12F19.D
Acq: 07/08/2015 14:14

Tgt Ion:178 Resp: 32200

Ion	Ratio	Lower	Upper
178	100		
179	16.7	10.6	19.8
176	17.2	13.2	24.4
0	0.0	0.0	0.0

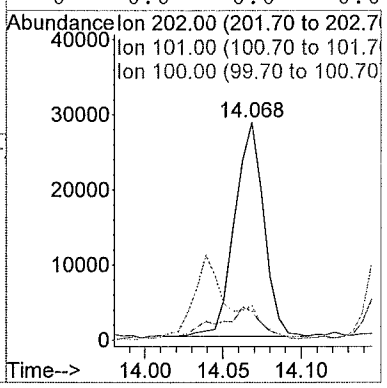


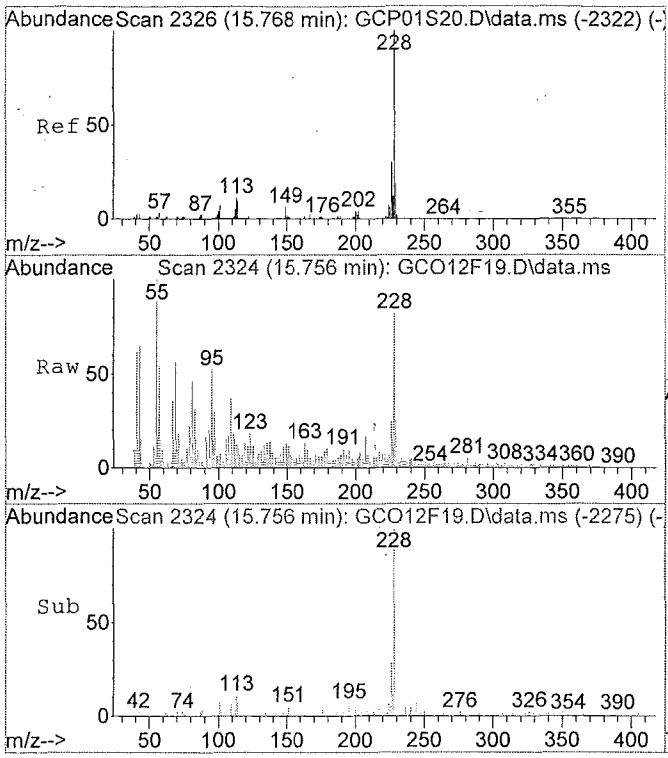


#74
Pyrene
Concen: 0.48 ug/ml
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: GCO12F19.D
Acq: 07/08/2015 14:14

Tgt Ion:202 Resp: 36944

Ion	Ratio	Lower	Upper
202	100		
101	23.6	12.2	22.7#
100	55.3	10.1	18.7#
0	0.0	0.0	0.0

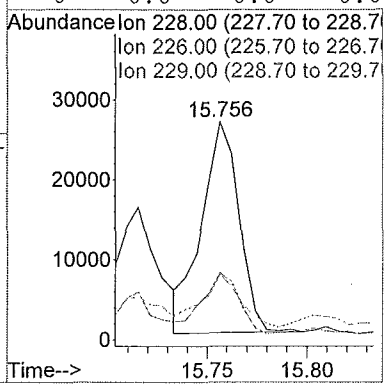




#79
Chrysene
Concen: 0.52 ug/ml
RT: 15.76 min Scan# 2324
Delta R.T. -0.01 min
Lab File: GCO12F19.D
Acq: 07/08/2015 14:14

Tgt Ion:228 Resp: 34622

Ion	Ratio	Lower	Upper
228	100		
226	28.2	20.1	37.3
229	25.6	13.7	25.5#
0	0.0	0.0	0.0



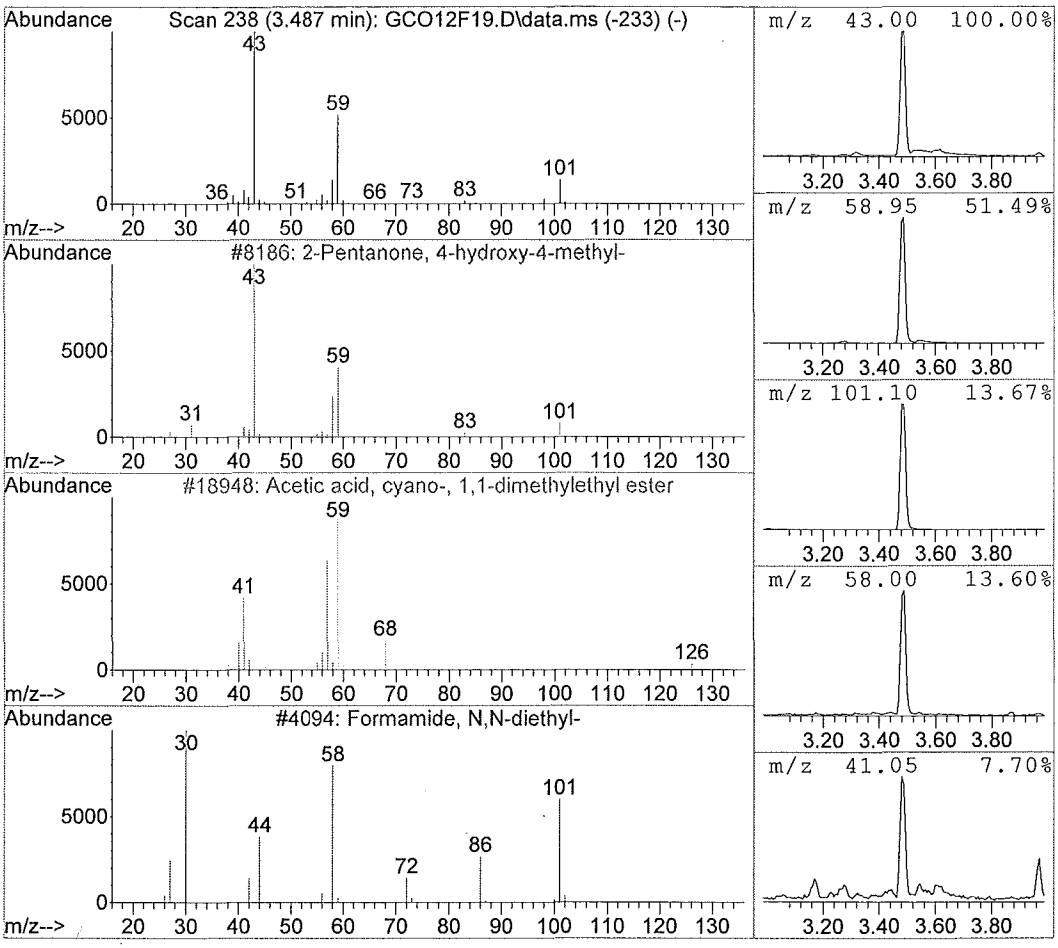
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO12F19.D Vial: 12
Acq On : 07/08/2015 14:14 Operator: TJM
Sample : 1515375019 F9M14 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.49	6.75 ug/ml	789169	1,4-Dichlorobenzene-d4	2339166

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
3	Formamide, N,N-diethyl-	4094	000617-84-5	9.00
4	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
5	Propane, 2-methyl-2-(1-methylethoxy	8404	017348-59-3	9.00



00757

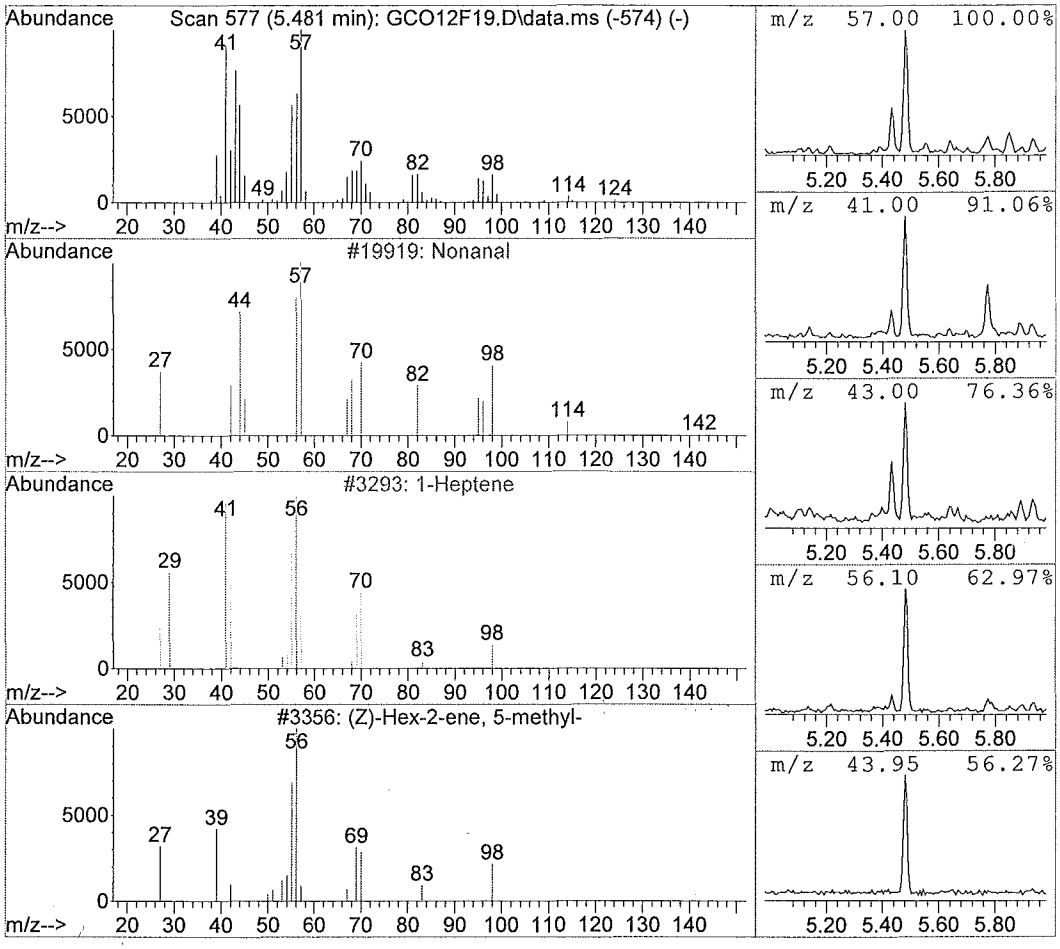
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO12F19.D Vial: 12
Acq On : 07/08/2015 14:14 Operator: TJM
Sample : 1515375019 F9M14 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.48	2.11 ug/ml	246991	1,4-Dichlorobenzene-d4	2339166

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonanal	19919	000124-19-6	47.00
2	1-Heptene	3293	000592-76-7	46.00
3	(Z)-Hex-2-ene, 5-methyl-	3356	013151-17-2	46.00
4	Cyanic acid, butyl ester	3489	001768-24-7	43.00
5	2-Hepten-1-ol, (E)-	7473	033467-76-4	38.00



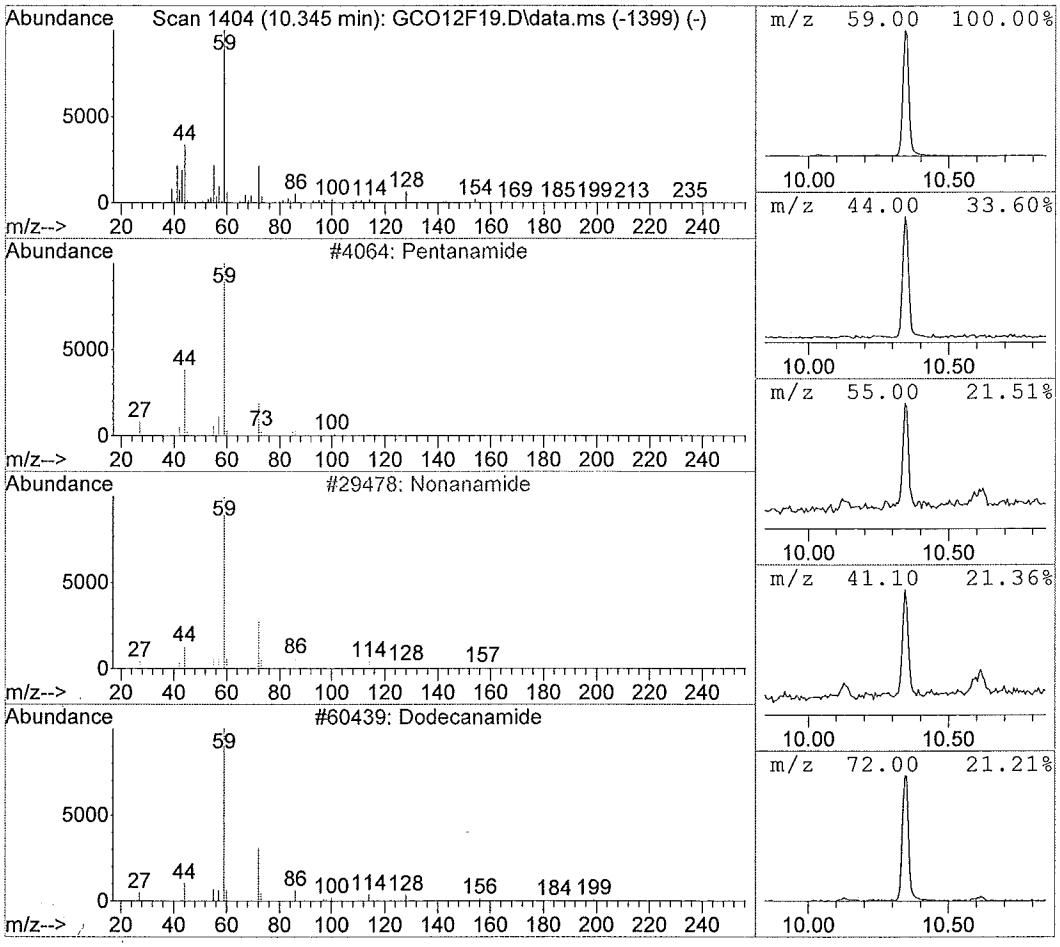
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO12F19.D Vial: 12
Acq On : 07/08/2015 14:14 Operator: TJM
Sample : 1515375019 F9M14 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.35	3.29 ug/ml	539730	Phenanthrene-d10	3281838

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentanamide	4064	000626-97-1	86.00
2	Nonanamide	29478	001120-07-6	74.00
3	Dodecanamide	60439	001120-16-7	72.00
4	Hexanamide	7791	000628-02-4	72.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	64.00



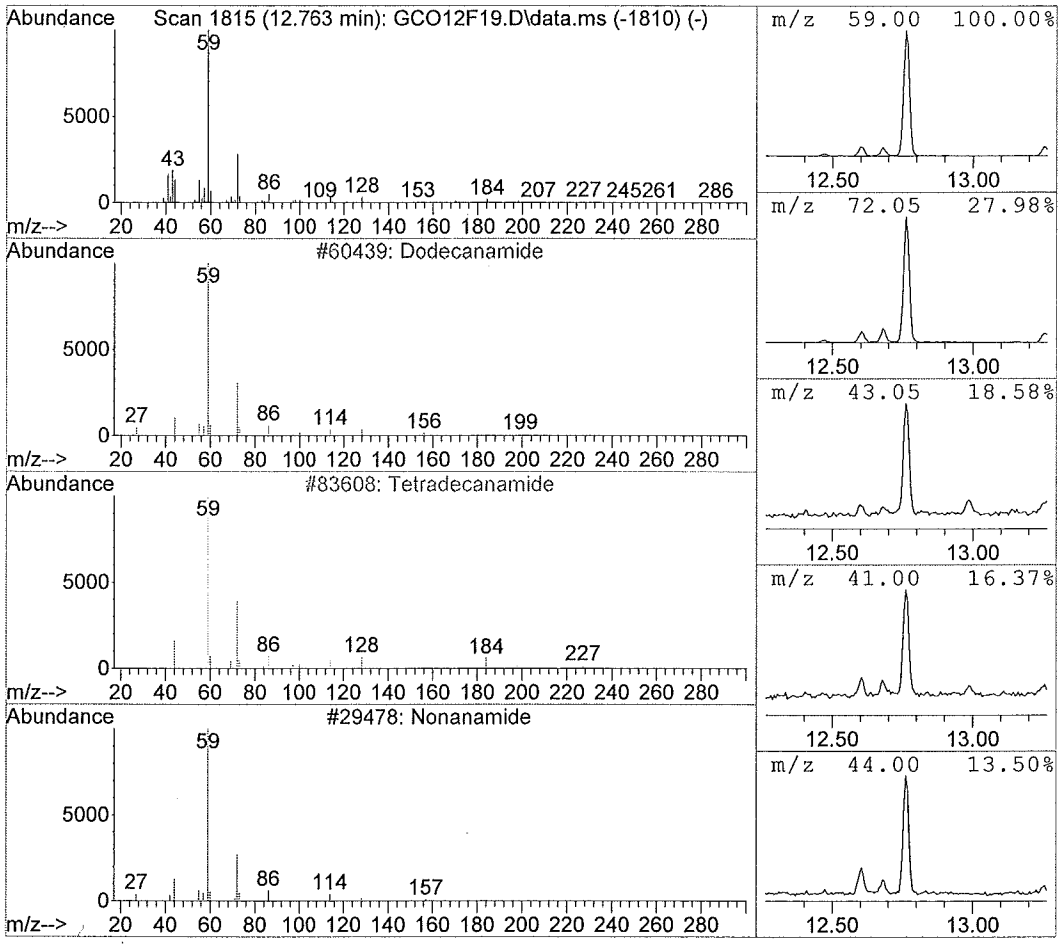
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO12F19.D Vial: 12
Acq On : 07/08/2015 14:14 Operator: TJM
Sample : 1515375019 F9M14 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.76	5.61 ug/ml	921124	Phenanthrene-d10	3281838

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	91.00
2	Tetradecanamide	83608	000638-58-4	86.00
3	Nonanamide	29478	001120-07-6	83.00
4	Decanamide-	38977	002319-29-1	74.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	72.00



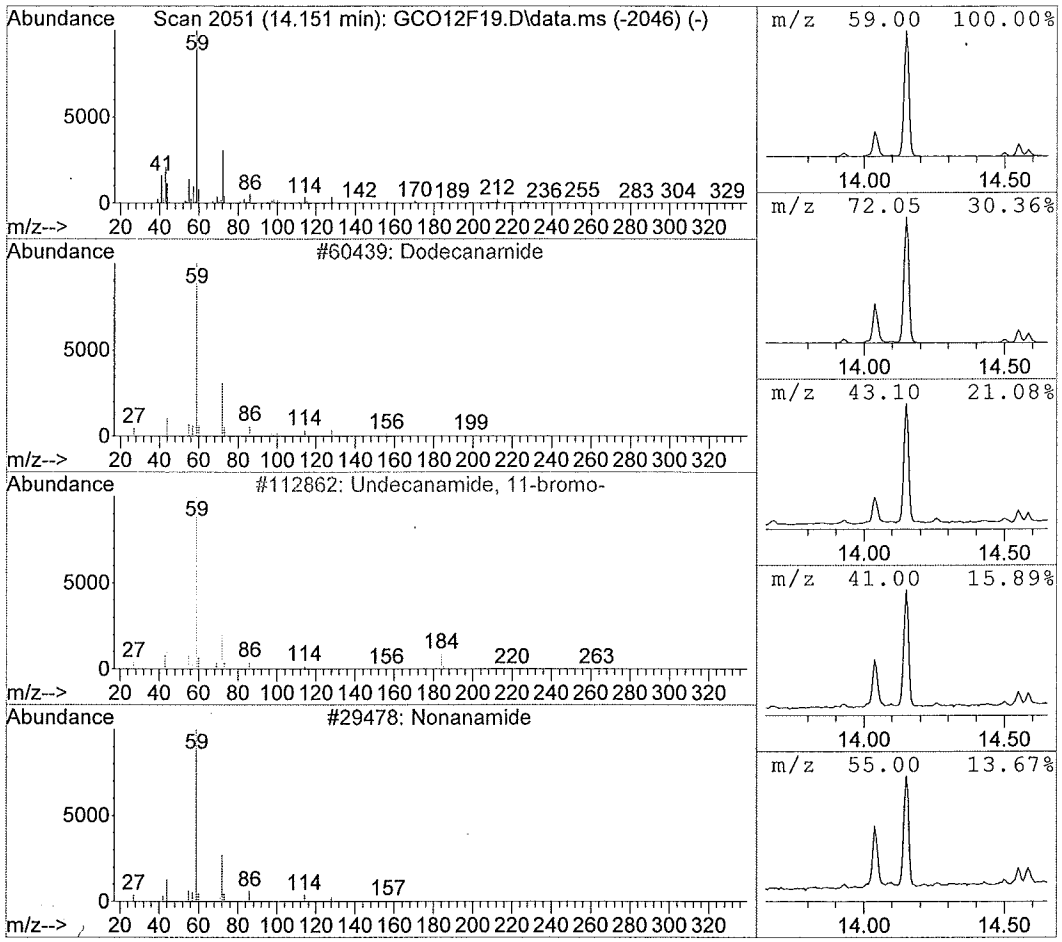
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO12F19.D Vial: 12
Acq On : 07/08/2015 14:14 Operator: TJM
Sample : 1515375019 F9M14 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	17.59 ug/ml	2986803	Chrysene-d12	3395846

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	87.00
3	Nonanamide	29478	001120-07-6	78.00
4	Tetradecanamide	83609	000638-58-4	78.00
5	Decanamide-	38977	002319-29-1	64.00



00761

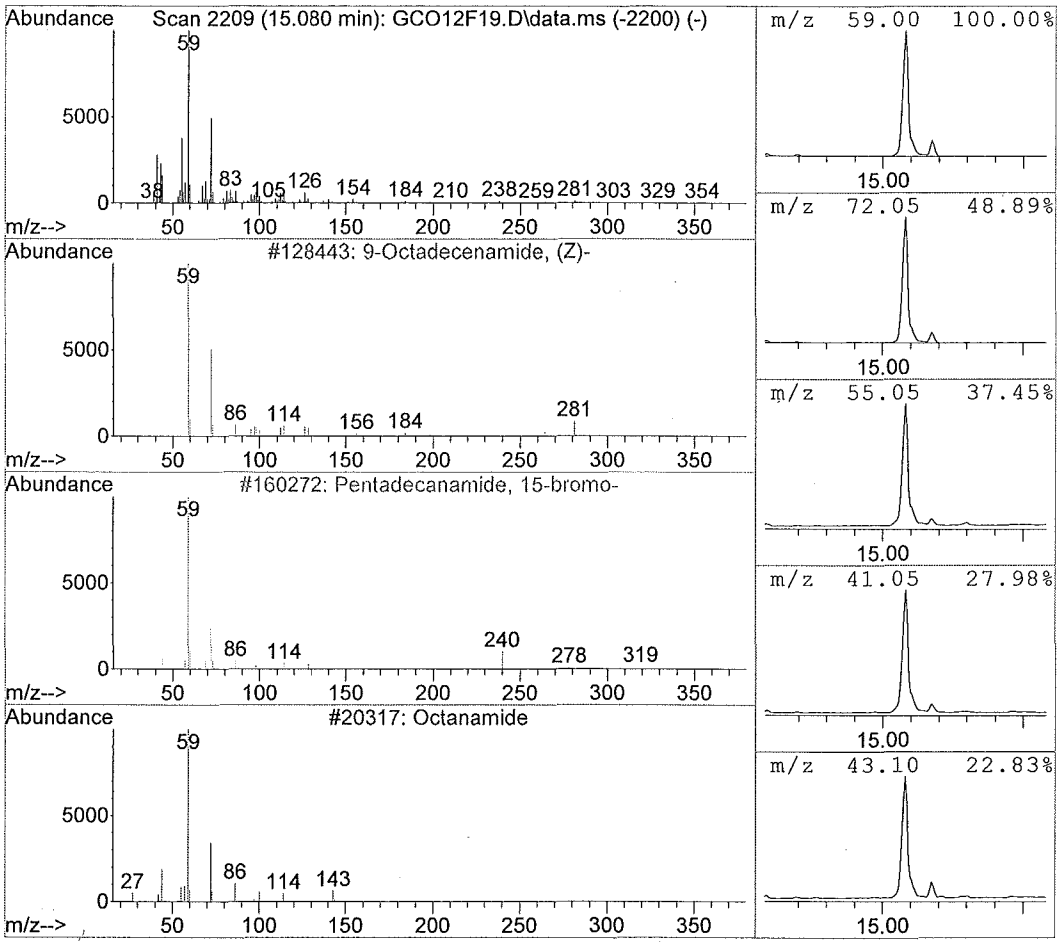
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO12F19.D Vial: 12
Acq On : 07/08/2015 14:14 Operator: TJM
Sample : 1515375019 F9M14 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.08	98.76 ug/ml	16769106	Chrysene-d12	3395846

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	86.00
3	Octanamide	20317	000629-01-6	56.00
4	Hexadecanamide	106565	000629-54-9	56.00
5	Decanamide-	38977	002319-29-1	56.00



: 00752

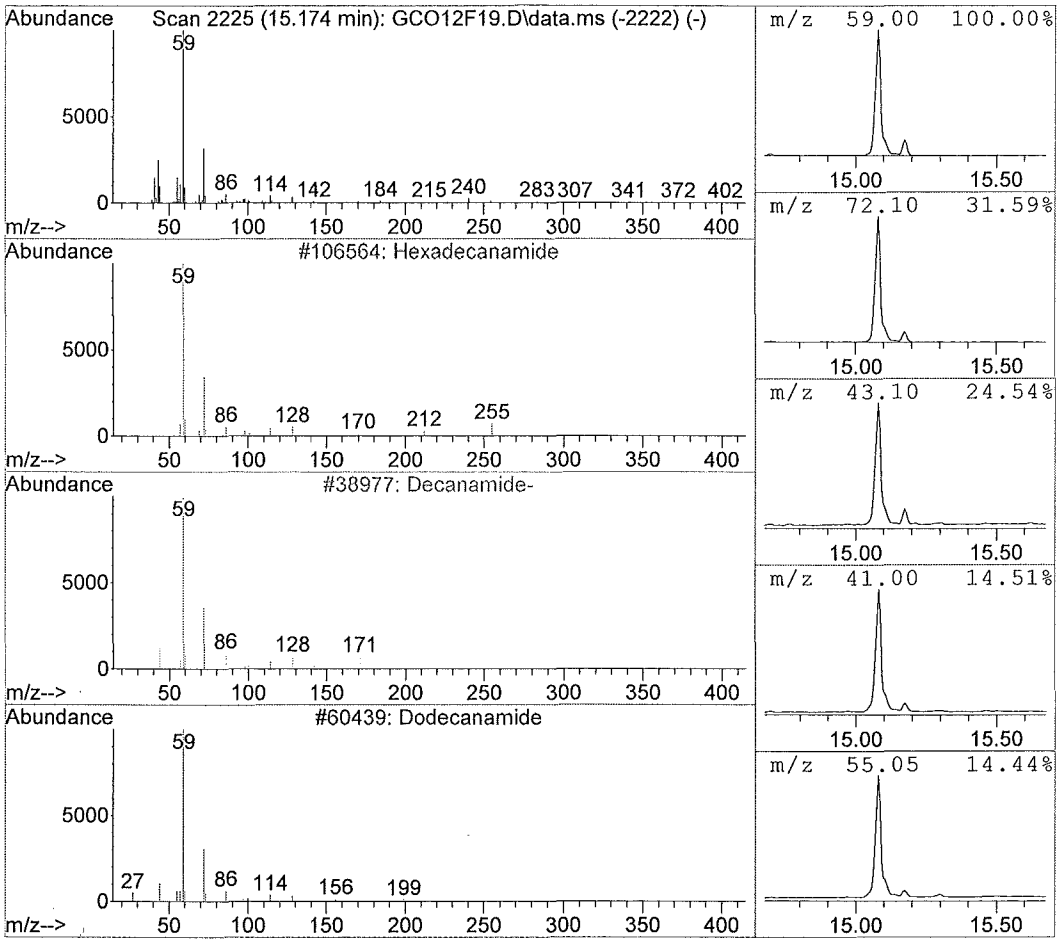
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO12F19.D Vial: 12
Acq On : 07/08/2015 14:14 Operator: TJM
Sample : 1515375019 F9M14 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	5.59 ug/ml	949764	Chrysene-d12	3395846

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	95.00
2	Decanamide-	38977	002319-29-1	87.00
3	Dodecanamide	60439	001120-16-7	78.00
4	Pentadecanamide, 15-bromo-	160272	1000163-86-1	78.00
5	Nonanamide	29478	001120-07-6	78.00



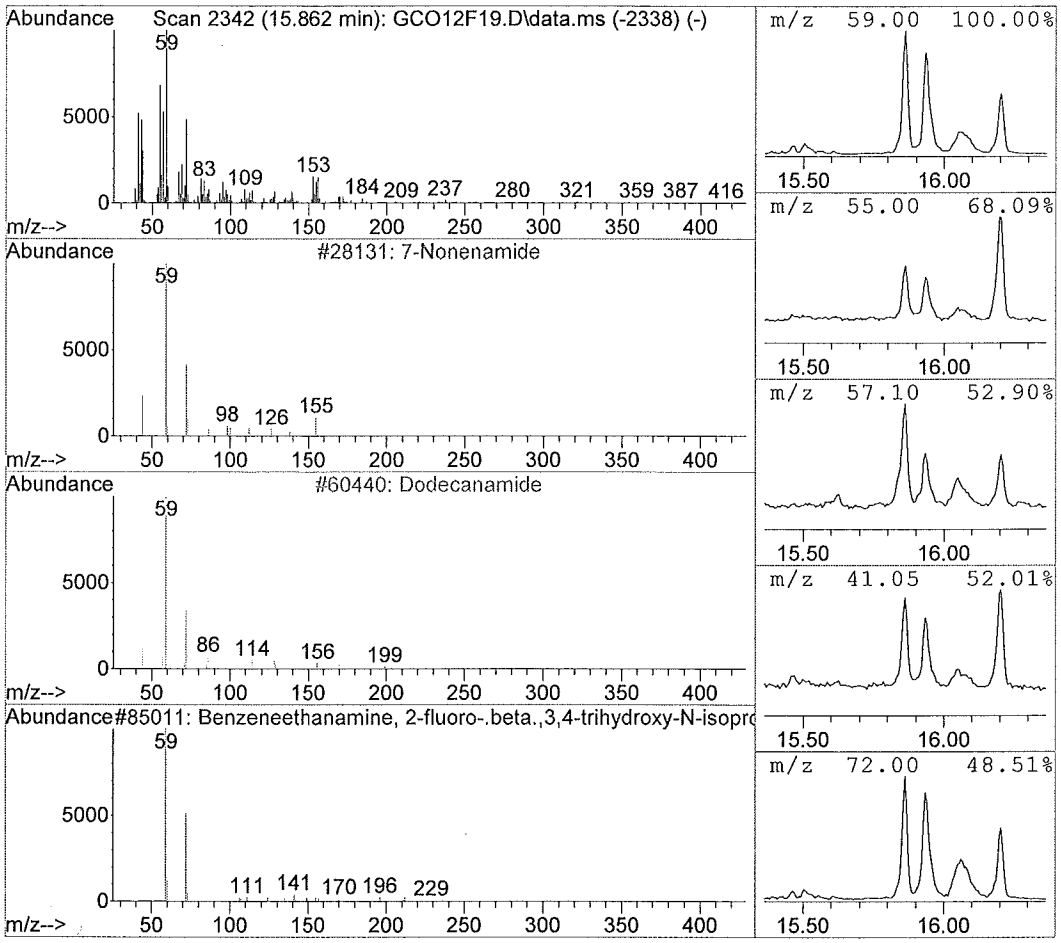
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO12F19.D Vial: 12
Acq On : 07/08/2015 14:14 Operator: TJM
Sample : 1515375019 F9M14 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.86	6.13 ug/ml	1040596	Chrysene-d12	3395846

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	74.00
2	Dodecanamide	60440	001120-16-7	59.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	59.00
4	9-Octadecenamide, (Z)-	128445	000301-02-0	59.00
5	Tetradecanamide	83610	000638-58-4	50.00



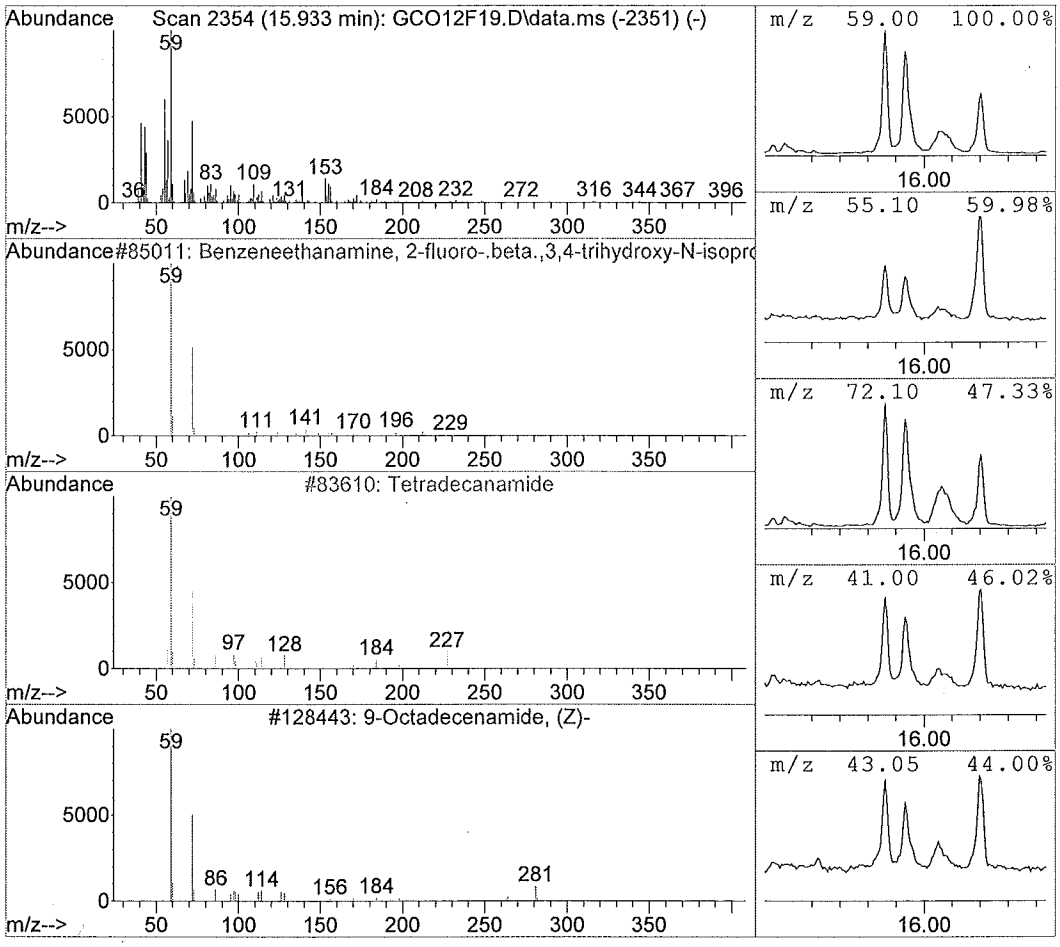
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO12F19.D Vial: 12
Acq On : 07/08/2015 14:14 Operator: TJM
Sample : 1515375019 F9M14 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.93	6.72 ug/ml	1141162	Chrysene-d12	3395846

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	70.00
2	Tetradecanamide	83610	000638-58-4	70.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	64.00
4	Hexadecanamide	106565	000629-54-9	53.00
5	Nonanamide	29478	001120-07-6	47.00



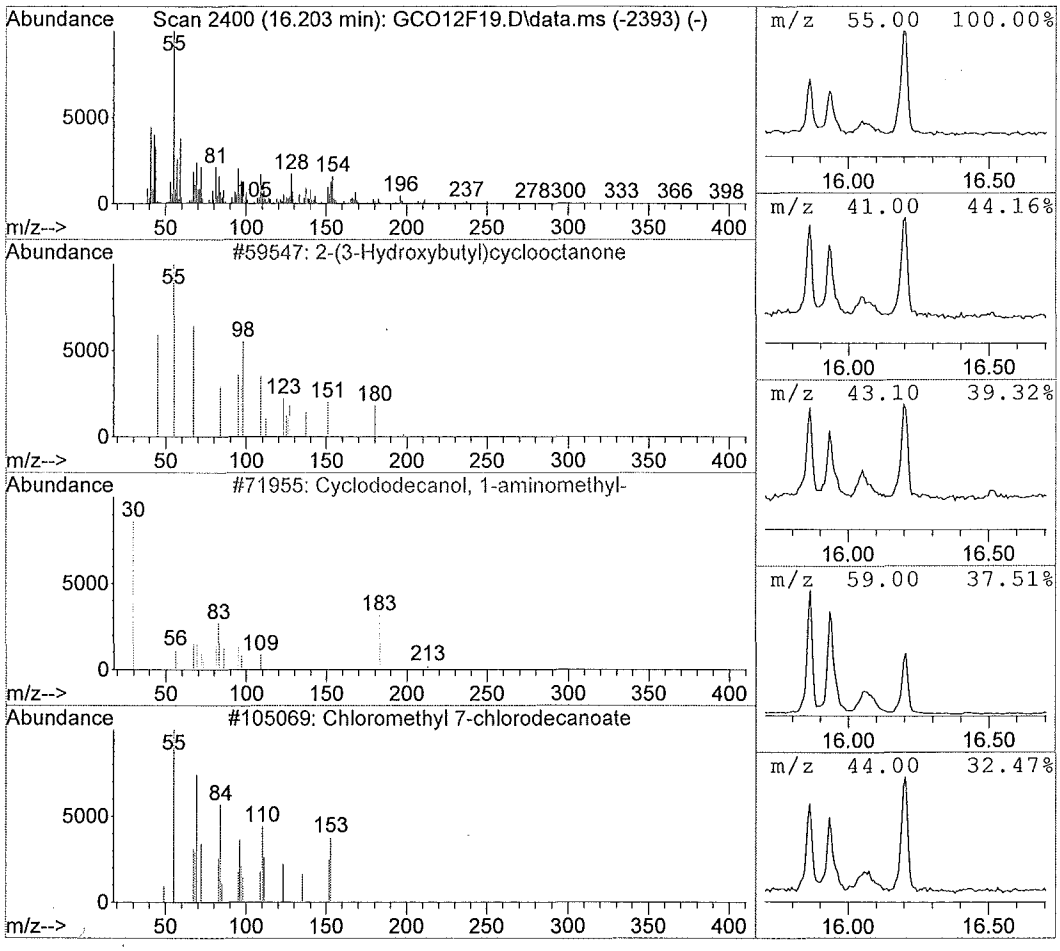
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO12F19.D Vial: 12
Acq On : 07/08/2015 14:14 Operator: TJM
Sample : 1515375019 F9M14 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	10.80 ug/ml	1833929	Chrysene-d12	3395846

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-(3-Hydroxybutyl)cyclooctanone	59547	110288-21-6	15.00
2	Cyclododecanol, 1-aminomethyl-	71955	000832-29-1	12.00
3	Chloromethyl 7-chlorodecanoate	105069	080418-84-4	12.00
4	Tridecanedial	71064	063521-76-6	10.00
5	Cyclohexanecarboxamide	11823	001122-56-1	10.00



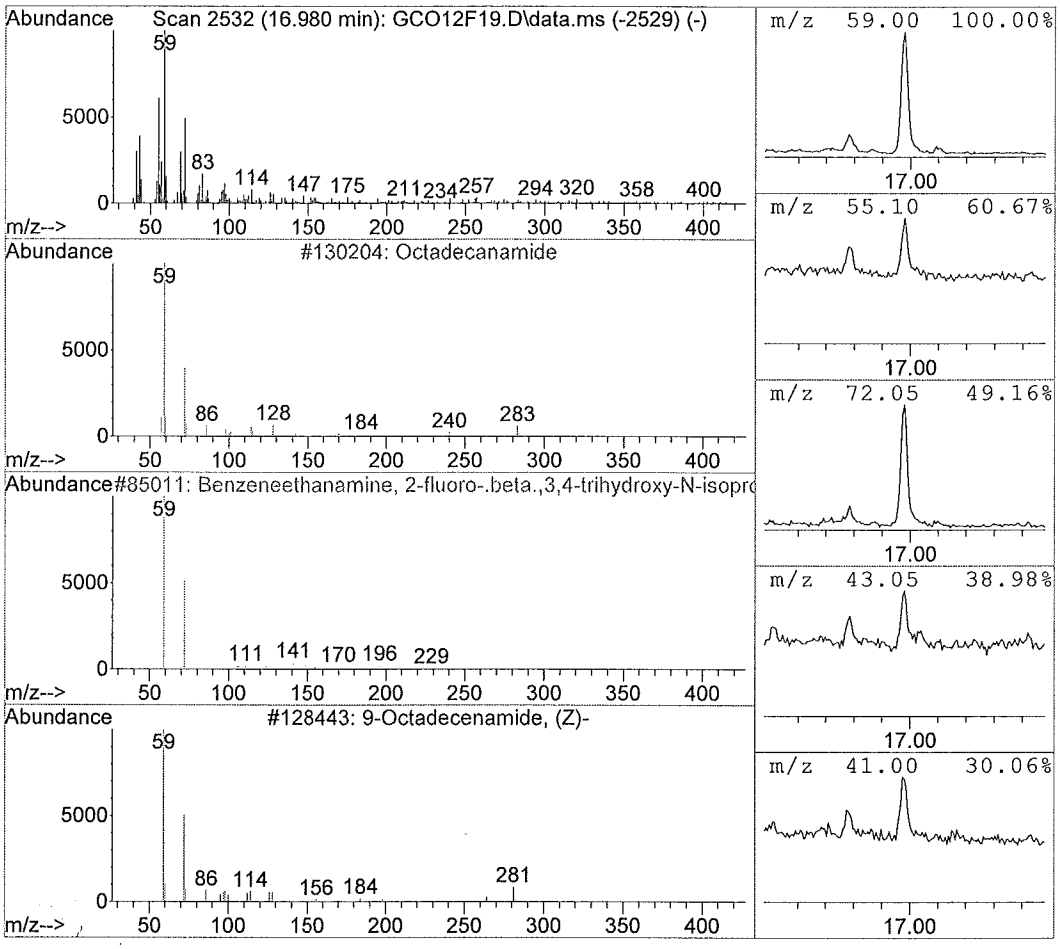
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO12F19.D Vial: 12
Acq On : 07/08/2015 14:14 Operator: TJM
Sample : 1515375019 F9M14 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.98	3.17 ug/ml	326852	Perylene-d12	2063800

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octadecanamide	130204	000124-26-5	83.00
2	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	81.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	72.00
4	Behenic amide	176152	003061-75-4	64.00
5	Dodecanamide	60440	001120-16-7	64.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M17

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375020

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GC013F20

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	2100	U
108-95-2	Phenol	2100	U
111-44-4	Bis(2-chloroethyl)ether	2100	U
95-57-8	2-Chlorophenol	2100	U
95-48-7	2-Methylphenol	2100	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2100	U
98-86-2	Acetophenone	2100	U
106-44-5	4-Methylphenol	2100	U
621-64-7	N-Nitroso-di-n-propylamine	2100	U
67-72-1	Hexachloroethane	2100	U
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	U
88-75-5	2-Nitrophenol	2100	U
105-67-9	2,4-Dimethylphenol	2100	U
111-91-1	Bis(2-chloroethoxy)methane	2100	U
120-83-2	2,4-Dichlorophenol	2100	U
91-20-3	Naphthalene	2100	U
106-47-8	4-Chloroaniline	2100	U
87-68-3	Hexachlorobutadiene	2100	U
105-60-2	Caprolactam	2100	U
59-50-7	4-Chloro-3-methylphenol	2100	U
91-57-6	2-Methylnaphthalene	2100	U
77-47-4	Hexachlorocyclopentadiene	2100	U
88-06-2	2,4,6-Trichlorophenol	2100	U
95-95-4	2,4,5-Trichlorophenol	2100	U
92-52-4	1,1'-Biphenyl	2100	U
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	4000	U
131-11-3	Dimethylphthalate	2100	U
606-20-2	2,6-Dinitrotoluene	2100	U
208-96-8	Acenaphthylene	2100	U
99-09-2	3-Nitroaniline	4000	U
83-32-9	Acenaphthene	2100	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M17

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375020

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GC013F20

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	4000	U
100-02-7	4-Nitrophenol	4000	U
132-64-9	Dibenzofuran	2100	U
121-14-2	2,4-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	2100	U
86-73-7	Fluorene	2100	U
7005-72-3	4-Chlorophenyl-phenylether	2100	U
100-01-6	4-Nitroaniline	4000	U
534-52-1	4,6-Dinitro-2-methylphenol	4000	U
86-30-6	N-Nitrosodiphenylamine[1]	2100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2100	U
101-55-3	4-Bromophenyl-phenylether	2100	U
118-74-1	Hexachlorobenzene	2100	U
1912-24-9	Atrazine	2100	U
87-86-5	Pentachlorophenol	4000	U
85-01-8	Phenanthrene	2100	U
120-12-7	Anthracene	2100	U
86-74-8	Carbazole	2100	U
84-74-2	Di-n-butylphthalate	2100	U
206-44-0	Fluoranthene	2100	U
129-00-0	Pyrene	2100	U
85-68-7	Butylbenzylphthalate	2100	U
91-94-1	3,3'-Dichlorobenzidine	2100	U
56-55-3	Benzo(a)anthracene	2100	U
218-01-9	Chrysene	2100	U
117-81-7	Bis(2-ethylhexyl)phthalate	2100	U
117-84-0	Di-n-octylphthalate	2100	U
205-99-2	Benzo(b)fluoranthene	2100	U
207-08-9	Benzo(k)fluoranthene	2100	U
50-32-8	Benzo(a)pyrene	2100	U
193-39-5	Indeno(1,2,3-cd)pyrene	2100	U
53-70-3	Dibenzo(a,h)anthracene	2100	U
191-24-2	Benzo(g,h,i)perylene	2100	U
58-90-2	2,3,4,6-Tetrachlorophenol	2100	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: F9M17

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375020

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GC013F20

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.9 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-	3.49	2500	JB
02		Unknown Nonanamide	10.35	990	J
03	638-58-4	Tetradecanamide	12.76	1700	JN
04	1120-16-7	Dodecanamide	14.15	5500	JN
05	301-02-0	9-Octadecenamide, (Z)-	15.08	33000	JNB
06	629-54-9	Hexadecanamide	15.17	1900	JNB
07		Unknown 7-Nonenamide	15.86	2100	J
08		Unknown 7-Nonenamide	15.93	2300	J
09		Unknown 9-Octadecenamide, (Z)-	16.06	1300	JB
10		Unknown 1-Decene, 5-methyl-	16.20	3200	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		

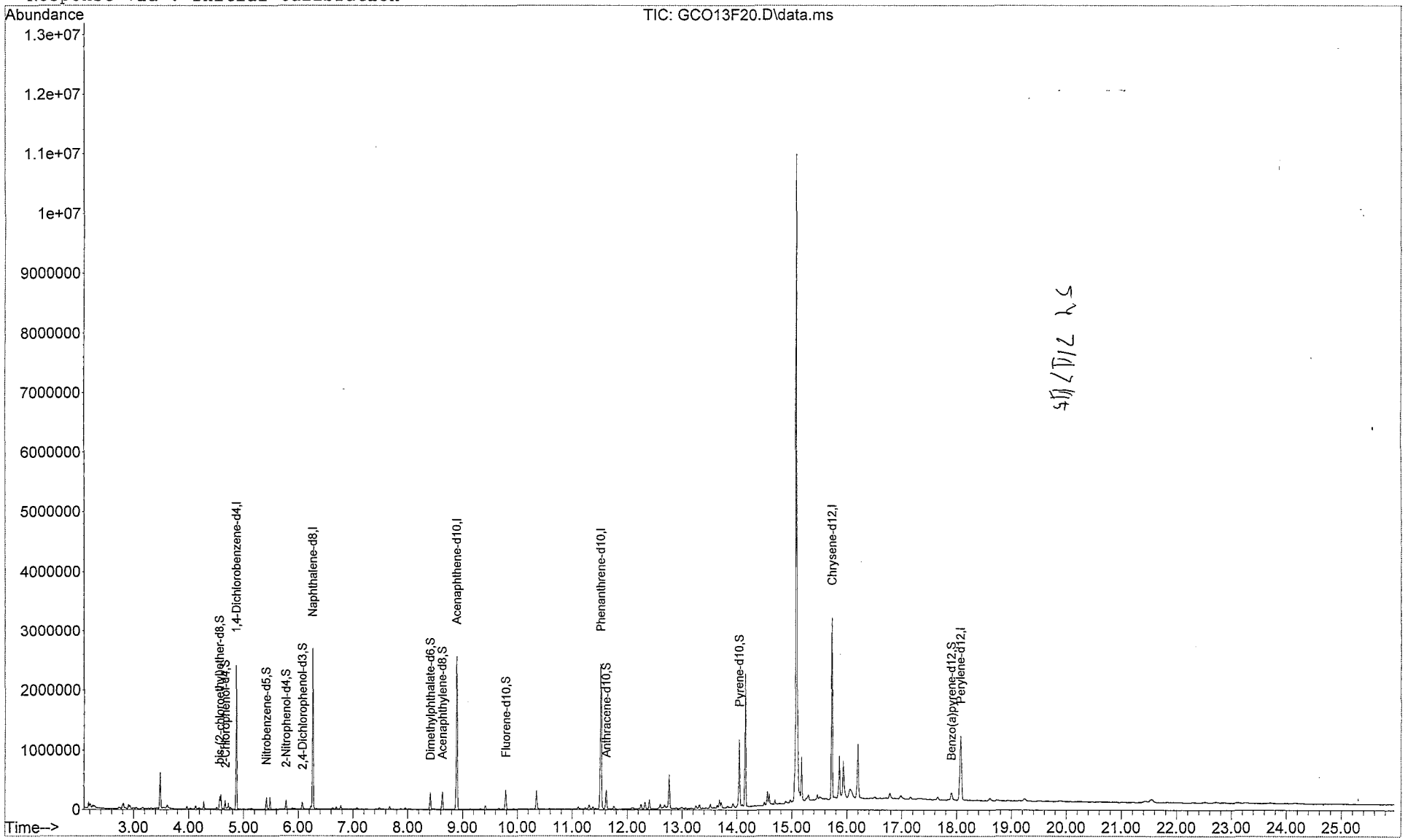
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO13F20.D Vial: 13
Acq On : 07/08/2015 14:47 Operator: TJM
Sample : 1515375020 F9M17 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 08 15:13:54 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO13F20.D Vial: 13
Acq On : 07/08/2015 14:47 Operator: TJM
Sample : 1515375020 F9M17 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 08 15:13:54 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	330224	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1288234	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	788643	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1350953	20.00 ug/ml
73) Chrysene-d12	15.73	240	1283437	20.00 ug/ml
81) Perylene-d12	18.07	264	776910	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	11012	0.383ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	35324	1.577ug/mL
7) 2-Chlorophenol-d4	4.66	132	35458	1.461ug/ml
13) 4-Methylphenol-d8	5.21	113	696	0.036ug/mL
17) Nitrobenzene-d5	5.42	128	22506	1.989ug/ml
21) 2-Nitrophenol-d4	5.77	143	23431	1.959ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	28953	1.554ug/mL
28) 4-Chloroaniline-d4	6.33	131	2729	0.134ug/mL
42) Dimethylphthalate-d6	8.41	166	140710	2.845ug/mL
45) Acenaphthylene-d8	8.63	160	165300	2.460ug/mL
50) 4-Nitrophenol-d4	9.16	143	124	0.012ug/mL
57) Fluorene-d10	9.79	176	117460	2.781ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	2585	0.270ug/mL
69) Anthracene-d10	11.62	188	181461	2.533ug/mL
75) Pyrene-d10	14.04	212	176955	2.763ug/mL
86) Benzo(a)pyrene-d12	17.90	264	84115	2.259ug/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)

: 00772

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GC013F20.D Vial: 13
Acq On : 07/08/2015 14:47 Operator: TJM
Sample : 1515375020 F9M17 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 08 15:13:54 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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)

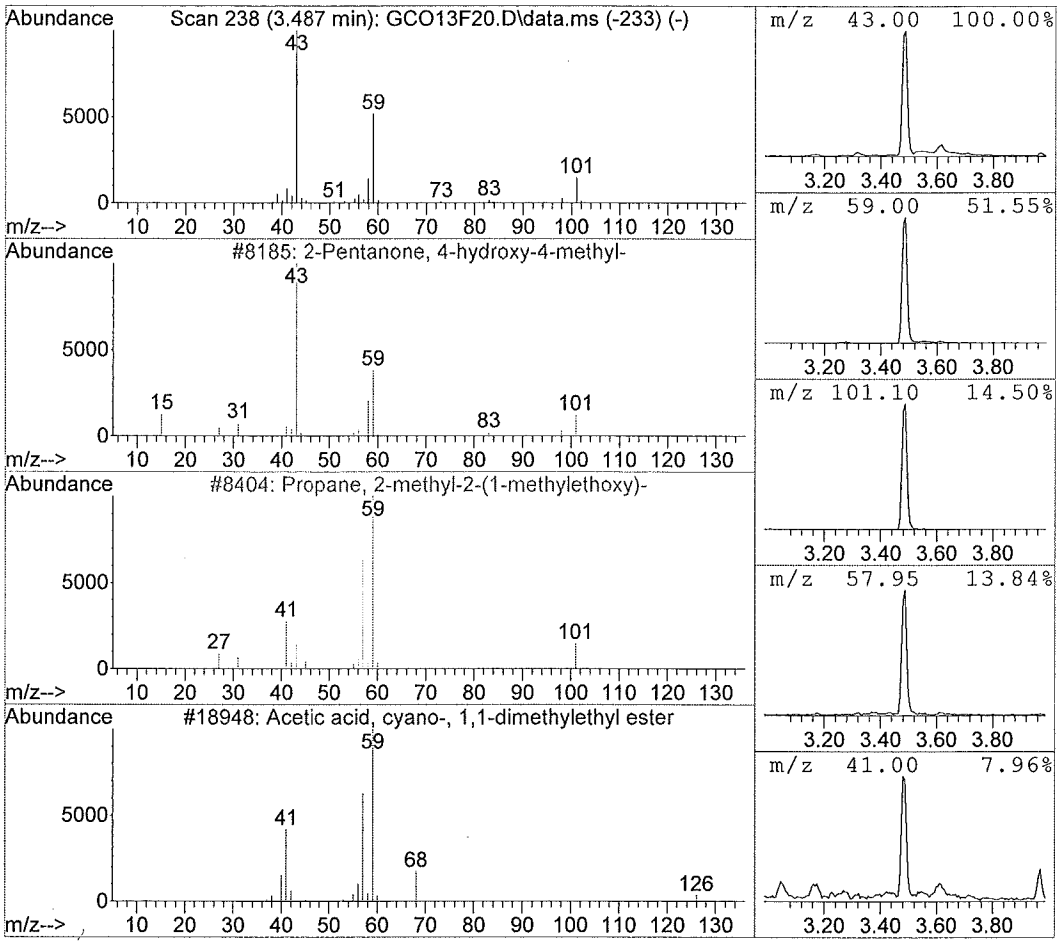
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO13F20.D Vial: 13
Acq On : 07/08/2015 14:47 Operator: TJM
Sample : 1515375020 F9M17 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.49	6.20 ug/ml	743489	1,4-Dichlorobenzene-d4	2399373

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	64.00
2	Propane, 2-methyl-2-(1-methylethoxy	8404	017348-59-3	36.00
3	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
4	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
5	Formamide, N,N-diethyl-	4094	000617-84-5	9.00



: 00774

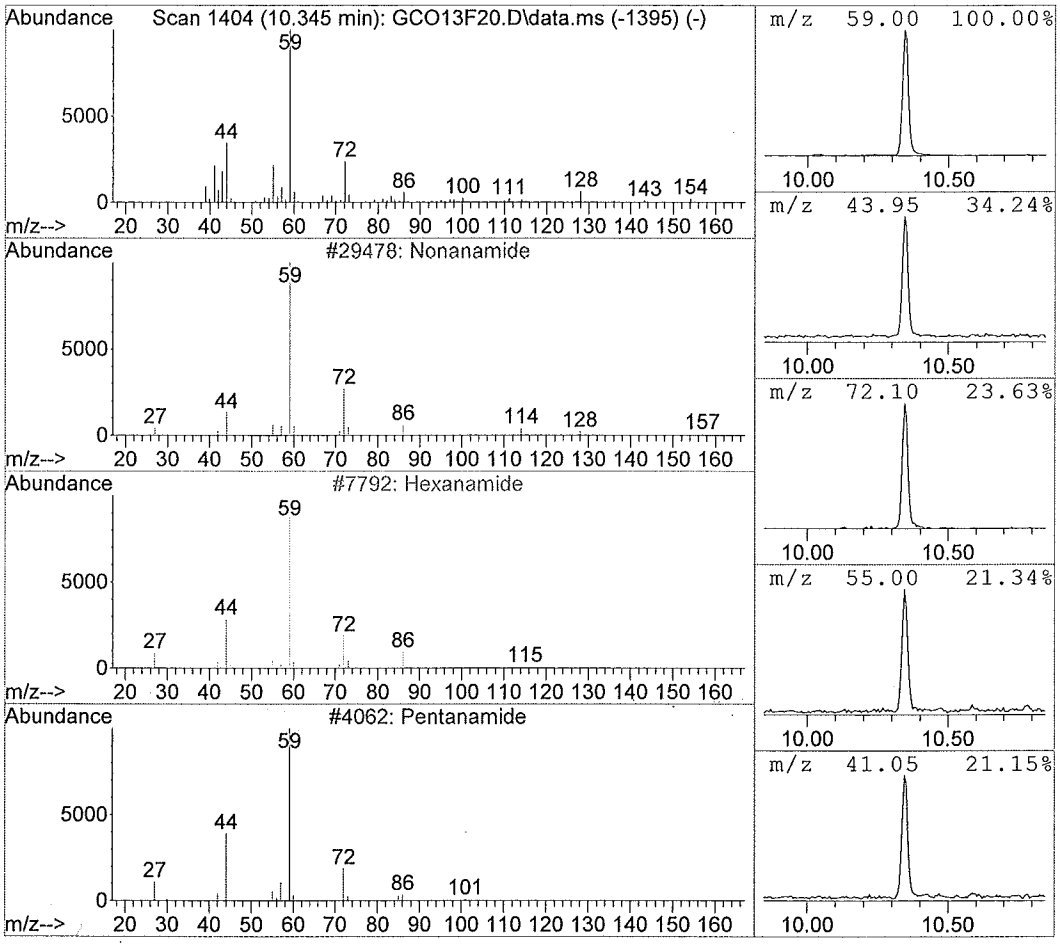
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO13F20.D Vial: 13
Acq On : 07/08/2015 14:47 Operator: TJM
Sample : 1515375020 F9M17 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.35	2.44 ug/ml	452869	Phenanthrene-d10	3717404

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonanamide	29478	001120-07-6	83.00
2	Hexanamide	7792	000628-02-4	80.00
3	Pentanamide	4062	000626-97-1	78.00
4	Octanamide	20317	000629-01-6	78.00
5	Dodecanamide	60439	001120-16-7	50.00



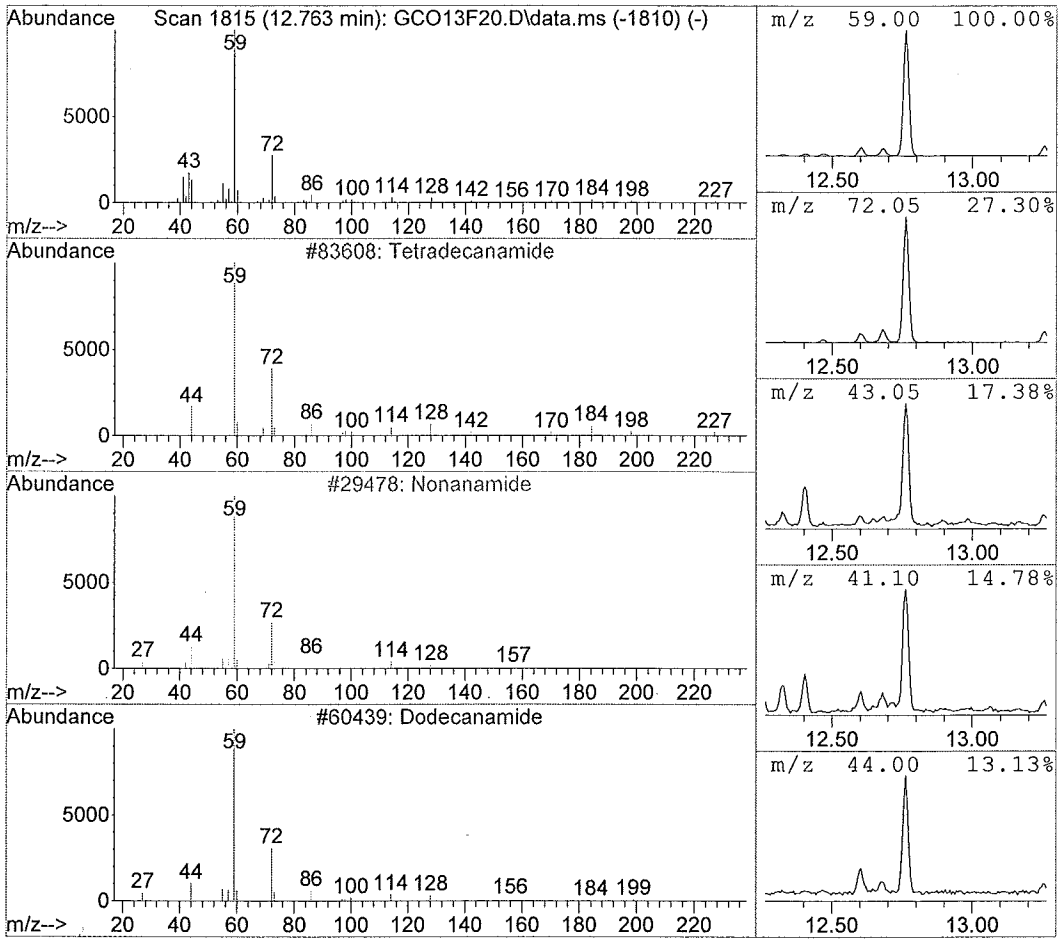
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO13F20.D Vial: 13
Acq On : 07/08/2015 14:47 Operator: TJM
Sample : 1515375020 F9M17 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.76	4.18 ug/ml	776784	Phenanthrene-d10	3717404

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83608	000638-58-4	93.00
2	Nonanamide	29478	001120-07-6	83.00
3	Dodecanamide	60439	001120-16-7	83.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
5	Pentanamide	4062	000626-97-1	59.00



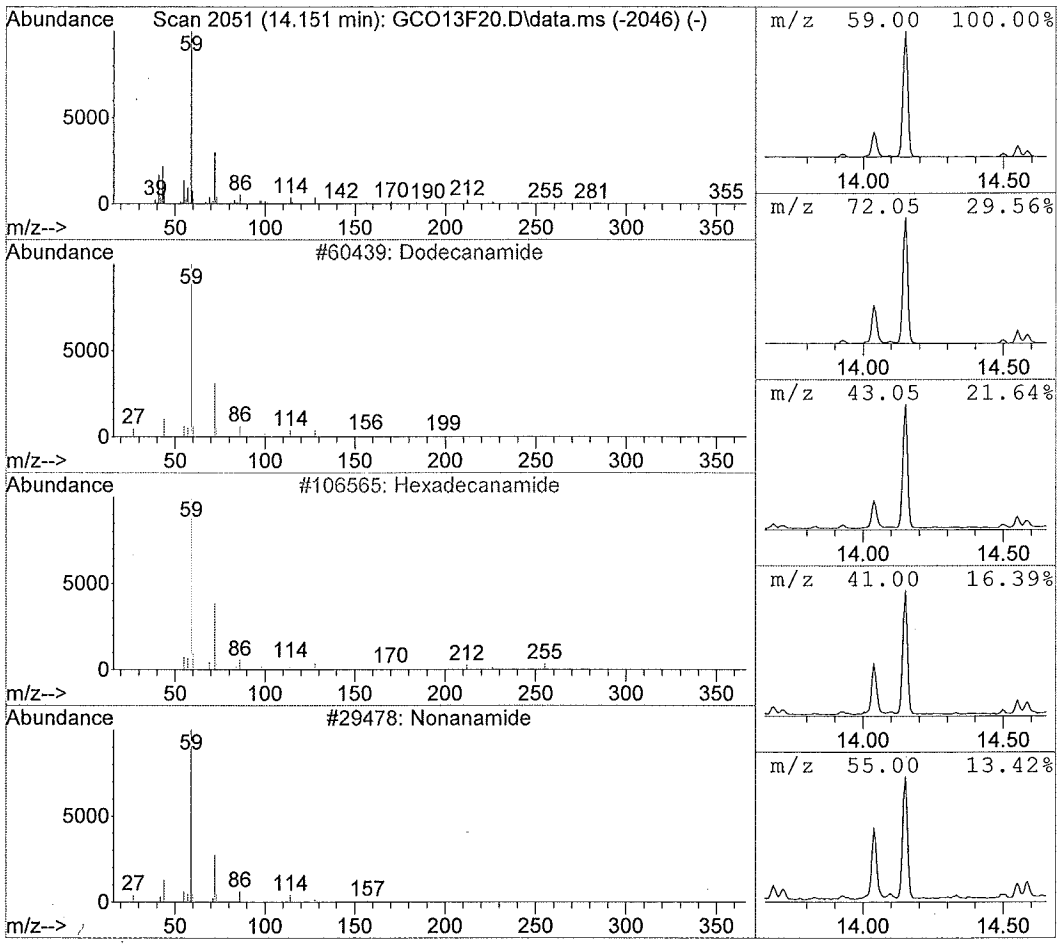
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO13F20.D Vial: 13
Acq On : 07/08/2015 14:47 Operator: TJM
Sample : 1515375020 F9M17 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	13.44 ug/ml	2493268	Chrysene-d12	3711543

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Hexadecanamide	106565	000629-54-9	87.00
3	Nonanamide	29478	001120-07-6	83.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
5	Pentanamide	4064	000626-97-1	59.00



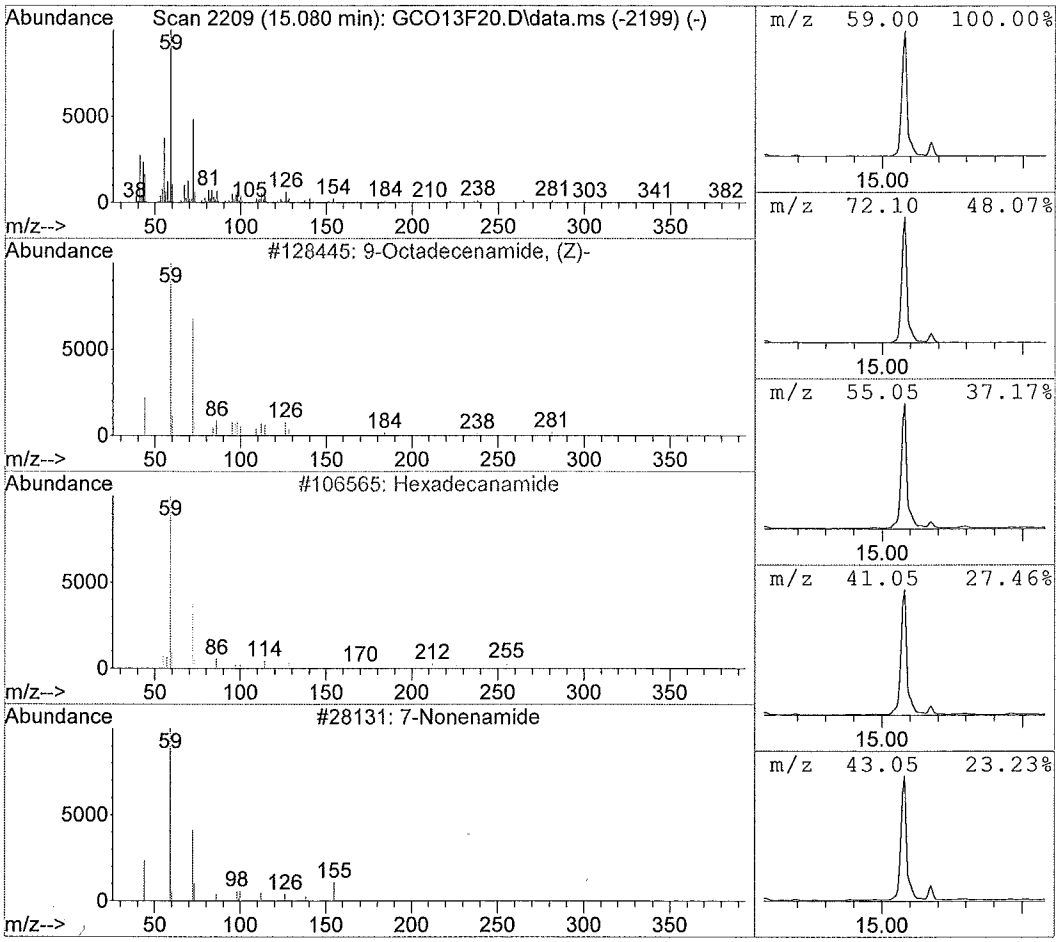
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO13F20.D Vial: 13
Acq On : 07/08/2015 14:47 Operator: TJM
Sample : 1515375020 F9M17 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.08	80.68 ug/ml	14972499	Chrysene-d12	3711543

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	96.00
2	Hexadecanamide	106565	000629-54-9	80.00
3	7-Nonenamide	28131	090949-53-4	56.00
4	Octanamide	20317	000629-01-6	56.00
5	Tetradecanamide	83608	000638-58-4	56.00



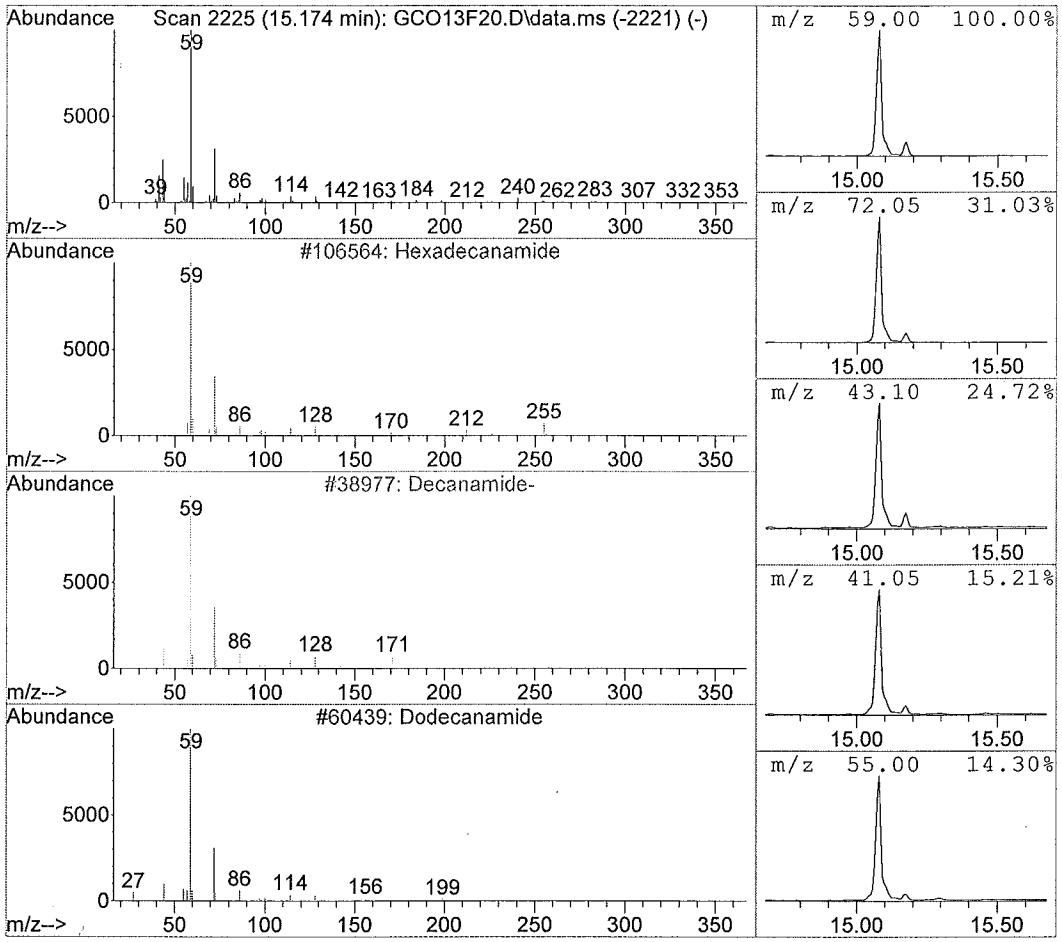
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO13F20.D Vial: 13
Acq On : 07/08/2015 14:47 Operator: TJM
Sample : 1515375020 F9M17 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	4.60 ug/ml	853620	Chrysene-d12	3711543

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	95.00
2	Decanamide-	38977	002319-29-1	91.00
3	Dodecanamide	60439	001120-16-7	83.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
5	Nonanamide	29478	001120-07-6	78.00



00779

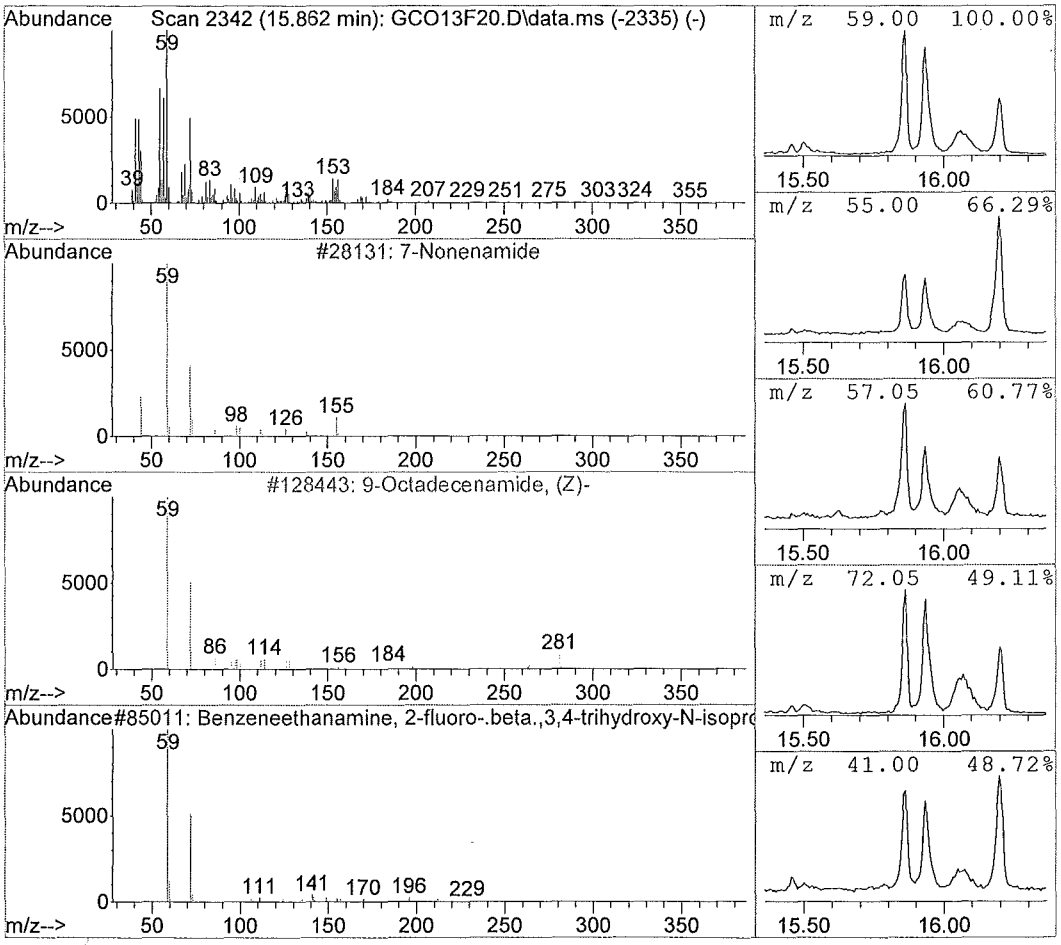
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO13F20.D Vial: 13
Acq On : 07/08/2015 14:47 Operator: TJM
Sample : 1515375020 F9M17 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.86	5.25 ug/ml	975145	Chrysene-d12	3711543

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	74.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	58.00
3	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	58.00
4	Decanamide-	38977	002319-29-1	53.00
5	Dodecanamide	60440	001120-16-7	53.00



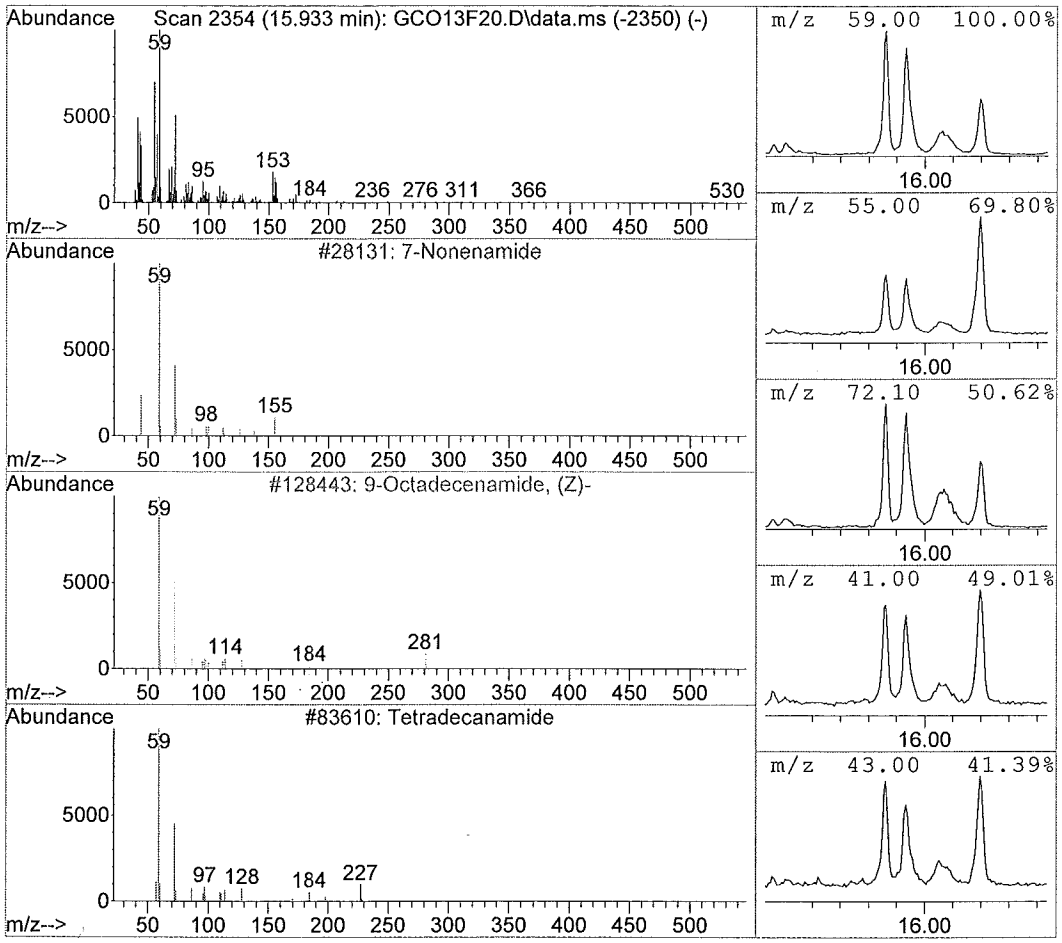
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO13F20.D Vial: 13
Acq On : 07/08/2015 14:47 Operator: TJM
Sample : 1515375020 F9M17 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.93	5.64 ug/ml	1046152	Chrysene-d12	3711543

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	62.00
2	9-Octadecenamide, (Z)-	128443	000301-02-0	58.00
3	Tetradecanamide	83610	000638-58-4	50.00
4	Hexadecanamide	106565	000629-54-9	50.00
5	Octadecanamide	130204	000124-26-5	43.00



00781

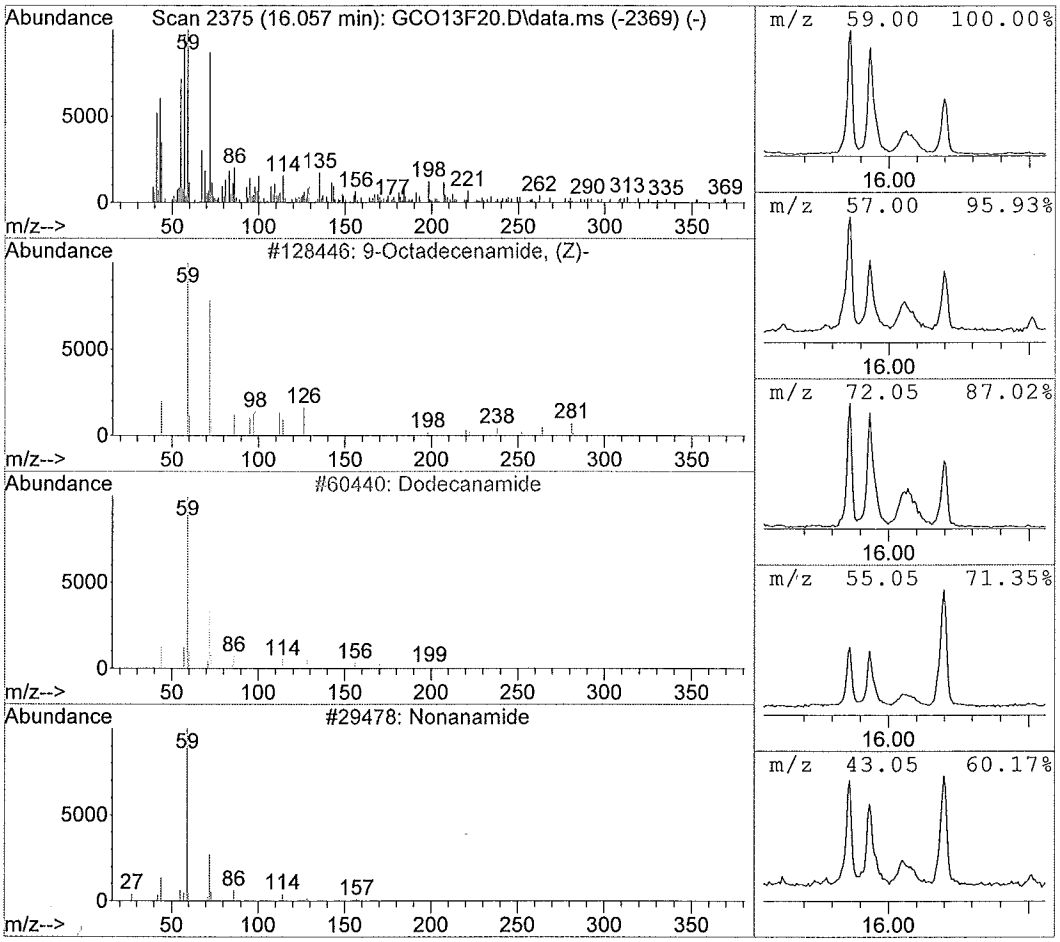
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO13F20.D Vial: 13
Acq On : 07/08/2015 14:47 Operator: TJM
Sample : 1515375020 F9M17 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.06	3.13 ug/ml	580235	Chrysene-d12	3711543

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128446	000301-02-0	59.00
2	Dodecanamide	60440	001120-16-7	38.00
3	Nonanamide	29478	001120-07-6	35.00
4	N(1)-[1-[4-Chlorophenyl]-1H-tetrazo	126988	1000213-45-7	30.00
5	Propylneopentylamine	13030	131229-65-7	27.00



: 00782

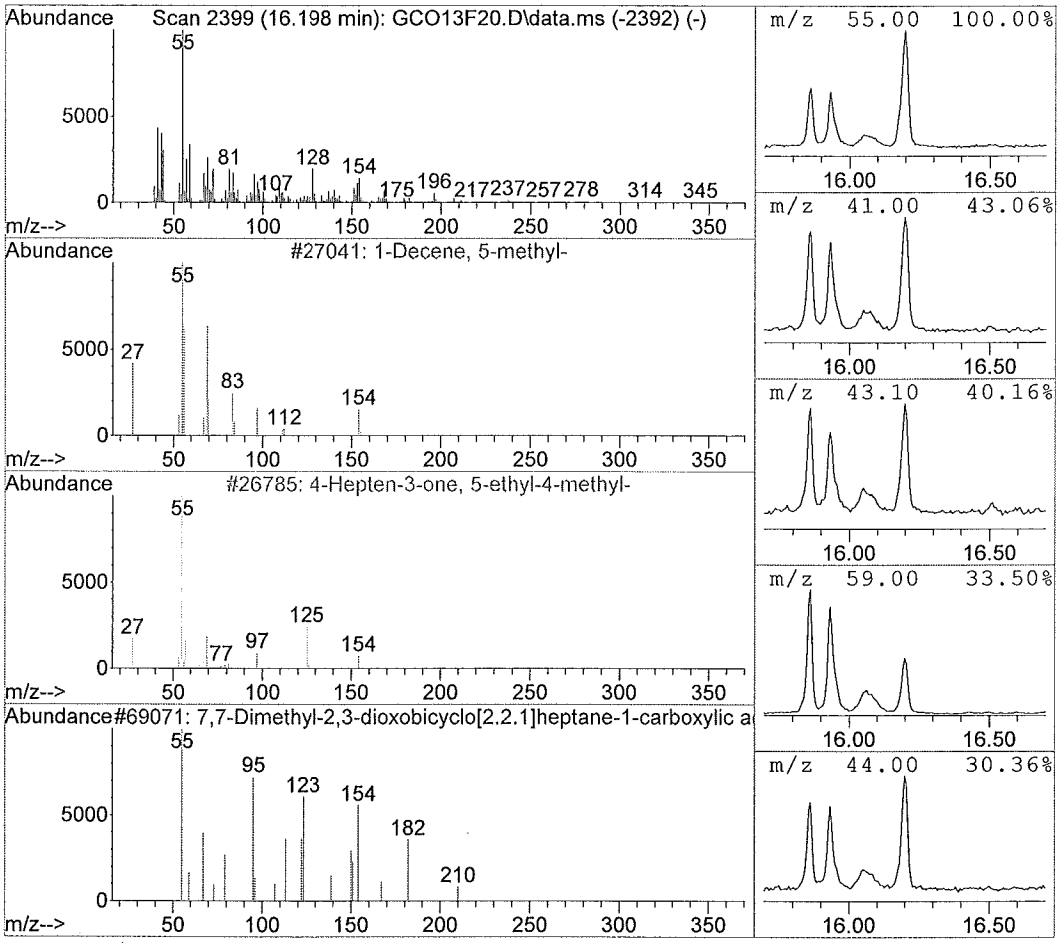
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO13F20.D Vial: 13
Acq On : 07/08/2015 14:47 Operator: TJM
Sample : 1515375020 F9M17 (10) Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	7.89 ug/ml	1464197	Chrysene-d12	3711543

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Decene, 5-methyl-	27041	054244-79-0	18.00
2	4-Hepten-3-one, 5-ethyl-4-methyl-	26785	022319-28-4	18.00
3	7,7-Dimethyl-2,3-dioxobicyclo[2.2.1	69071	040724-68-3	15.00
4	1-Hexyl-1-nitrocyclohexane	71861	118252-09-8	14.00
5	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	14.00



1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M18

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375021

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GC014F21

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

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	220	U
108-95-2	Phenol	220	U
111-44-4	Bis(2-chloroethyl)ether	220	U
95-57-8	2-Chlorophenol	220	U
95-48-7	2-Methylphenol	220	U
108-60-1	2,2'-Oxybis(1-chloropropane)	220	U
98-86-2	Acetophenone	220	U
106-44-5	4-Methylphenol	220	U
621-64-7	N-Nitroso-di-n-propylamine	220	U
67-72-1	Hexachloroethane	220	U
98-95-3	Nitrobenzene	220	U
78-59-1	Isophorone	220	U
88-75-5	2-Nitrophenol	220	U
105-67-9	2,4-Dimethylphenol	220	U
111-91-1	Bis(2-chloroethoxy)methane	220	U
120-83-2	2,4-Dichlorophenol	220	U
91-20-3	Naphthalene	220	U
106-47-8	4-Chloroaniline	220	U
87-68-3	Hexachlorobutadiene	220	U
105-60-2	Caprolactam	220	U
59-50-7	4-Chloro-3-methylphenol	220	U
91-57-6	2-Methylnaphthalene	220	U
77-47-4	Hexachlorocyclopentadiene	220	U
88-06-2	2,4,6-Trichlorophenol	220	U
95-95-4	2,4,5-Trichlorophenol	220	U
92-52-4	1,1'-Biphenyl	220	U
91-58-7	2-Chloronaphthalene	220	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	220	U
606-20-2	2,6-Dinitrotoluene	220	U
208-96-8	Acenaphthylene	220	U
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	220	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M18

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375021

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GC014F21

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

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	420	U
100-02-7	4-Nitrophenol	420	U
132-64-9	Dibenzofuran	220	U
121-14-2	2,4-Dinitrotoluene	220	U
84-66-2	Diethylphthalate	220	U
86-73-7	Fluorene	220	U
7005-72-3	4-Chlorophenyl-phenylether	220	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine[1]	220	U
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U
101-55-3	4-Bromophenyl-phenylether	220	U
118-74-1	Hexachlorobenzene	220	U
1912-24-9	Atrazine	220	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	23.	J
120-12-7	Anthracene	220	U
86-74-8	Carbazole	220	U
84-74-2	Di-n-butylphthalate	220	U
206-44-0	Fluoranthene	26.	J
129-00-0	Pyrene	39.	J
85-68-7	Butylbenzylphthalate	220	U
91-94-1	3,3'-Dichlorobenzidine	220	U
56-55-3	Benzo(a)anthracene	23.	J
218-01-9	Chrysene	42.	J
117-81-7	Bis(2-ethylhexyl)phthalate	220	U
117-84-0	Di-n-octylphthalate	220	U
205-99-2	Benzo(b)fluoranthene	35.	J
207-08-9	Benzo(k)fluoranthene	220	U
50-32-8	Benzo(a)pyrene	19.	J
193-39-5	Indeno(1,2,3-cd)pyrene	220	U
53-70-3	Dibenzo(a,h)anthracene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
58-90-2	2,3,4,6-Tetrachlorophenol	220	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M18

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375021

Sample wt/vol: 30.3 (g/mL) g Lab File ID: GC014F21

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

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 2-Propanone, 1-chloro-	2.26	210	JB
02		Unknown Methacrylamide	2.81	150	J
03		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.49	2700	JB
04		Unknown Butanoic acid, 3-hydroxy-, methyl ester,	3.61	210	J
05		Unknown 1H-Pyrrole-2,5-dione	4.28	510	J
06		Unknown 2-Pentanone	4.59	760	J
07	1000336-31-4	Methyl 13-methyltetradecanoate	11.31	420	JN
08	1000336-31-4	Methyl 13-methyltetradecanoate	11.37	220	JN
09	143-07-7	Dodecanoic acid	11.57	200	JN
10	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.25	540	JN
11	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.33	390	JN
12	5129-60-2	Pentadecanoic acid, 14-methyl-, methyl ester	12.40	680	JN
13	1000333-19-5	cis-9-Hexadecenoic acid	12.52	160	JN
14	57-10-3	n-Hexadecanoic acid	12.67	510	JN
15		Unknown Methyl 9-heptadecenoate or 9-17:1	12.72	220	J
16		Unknown Octanamide	12.77	180	J
17		Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-met	13.00	210	J
18	1000336-44-2	Methyl 10-trans,12-cis-octadecadienoate	13.65	190	JN
19	112-62-9	9-Octadecenoic acid (Z)-, methyl ester	13.68	270	JN
20	1120-16-7	Dodecanamide	14.16	440	JN
21		Unknown Z-6-Octadecen-1-ol acetate	14.76	110	J
22	301-02-0	9-Octadecenamide, (Z)-	15.08	2700	JNB
23		Unknown Dodecanamide	16.05	170	J
24		Unknown 2-(3-Hydroxybutyl)cyclooctanone	16.20	220	J
25	1599-67-3	1-Docosene	16.70	300	JN
26		Unknown 9-Octadecenamide, (Z)-	16.99	760	J
27	111-02-4	Squalene	17.16	420	JN
28	1000210-38-4	17-(1,5-Dimethylhexyl)-10,13-dimethyl-2,3,4,7,8,	20.02	1700	JN
29		Unknown .beta.-Sitosterol	22.44	450	J
30	1058-61-3	Stigmast-4-en-3-one	24.20	1000	JN
	E966796[2]	Total Alkanes	N/A	3300	J

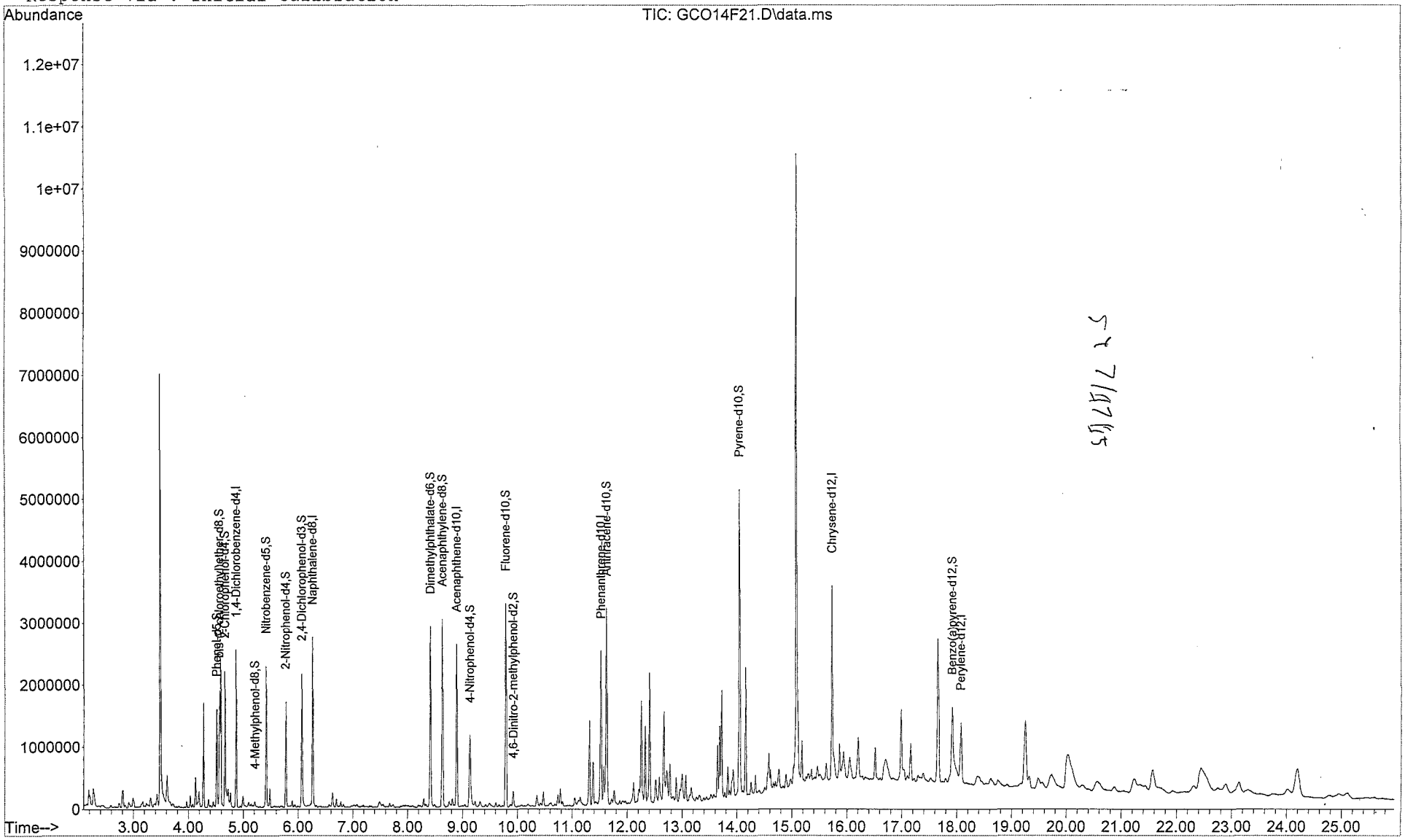
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 08:18:50 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



GCO14F21.D GSOM01D6.M Fri Jul 17 08:43:28 2015 Page 3

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 08:18:50 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	335660	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1321565	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	797427	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1365987	20.00 ug/ml
73) Chrysene-d12	15.73	240	1236125	20.00 ug/ml
81) Perylene-d12	18.07	264	650623	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.52	99	536200	18.357ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	418344	18.378ug/mL
7) 2-Chlorophenol-d4	4.66	132	512378	20.775ug/ml
13) 4-Methylphenol-d8	5.21	113	17471	0.894ug/mL
17) Nitrobenzene-d5	5.42	128	257417	22.173ug/ml
21) 2-Nitrophenol-d4	5.77	143	262819	21.417ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	473584	24.785ug/mL
28) 4-Chloroaniline-d4	6.32	131	1670	0.080ug/mL
42) Dimethylphthalate-d6	8.42	166	1467986	29.357ug/mL
45) Acenaphthylene-d8	8.63	160	1783117	26.240ug/mL
50) 4-Nitrophenol-d4	9.13	143	281038	27.550ug/mL
57) Fluorene-d10	9.79	176	1260427	29.516ug/mL
61) 4,6-Dinitro-2-methylphenol	9.92	200	37481	3.866ug/mL
69) Anthracene-d10	11.62	188	1774859	24.501ug/mL
75) Pyrene-d10	14.04	212	1831452	29.689ug/mL
86) Benzo(a)pyrene-d12	17.92	264	692620	22.216ug/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)

00788

Quantitation Report

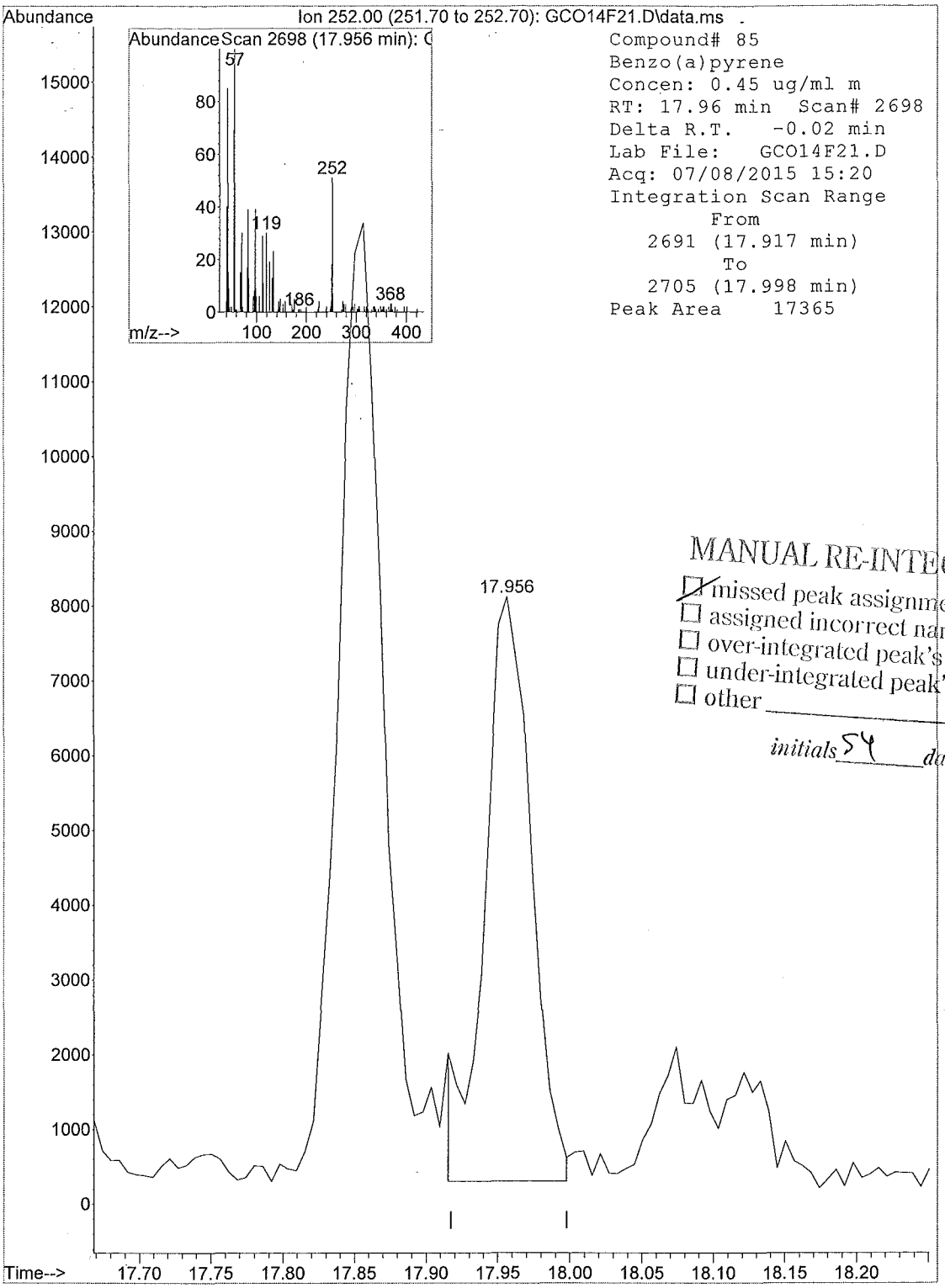
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 08:18:50 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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	11.56	178	39022	0.536ug/ml	97
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	13.71	202	49477	0.616ug/ml	69
74) Pyrene	14.07	202	73186	0.930ug/ml	81
76) Butylbenzylphthalate	0.00	149		Not Detected	
77) 3,3'-Dichlorobenzidine	0.00	252		Not Detected	
78) Benzo(a)anthracene	15.72	228	41354	0.551ug/ml	87
79) Chrysene	15.76	228	66703	0.985ug/ml	95
80) Bis-(2-ethylhexyl)phthalat	0.00	149		Not Detected	
82) Di-n-octylphthalate	0.00	149		Not Detected	
83) Benzo(b)fluoranthene	17.34	252	33648	0.826ug/ml	90
84) Benzo(k)fluoranthene	0.00	252		Not Detected	
85) Benzo(a)pyrene	17.96	252	17365	0.453ug/ml m SY	93
87) Indeno(1,2,3-c,d)pyrene	0.00	276		Not Detected 7/17 KG	
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)

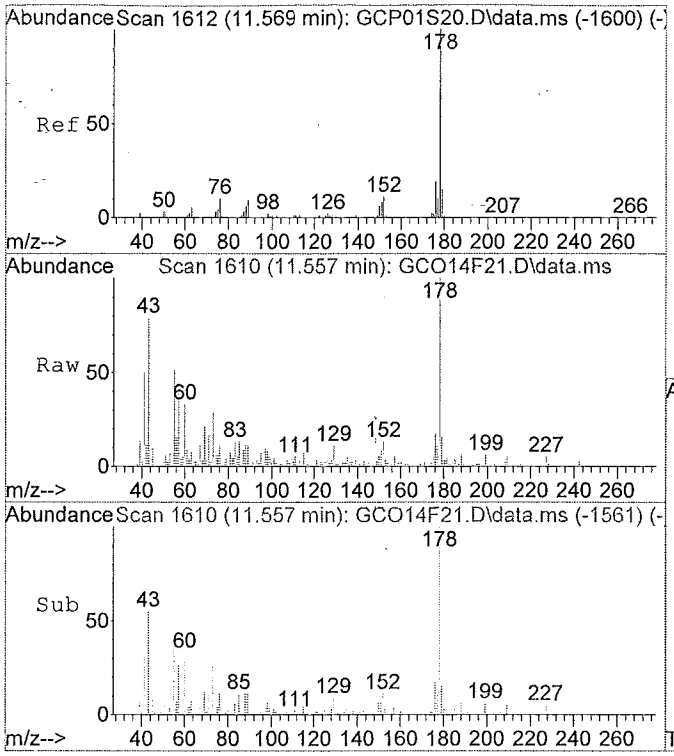
M A N U A L I N T E G R A T I O N FOR Benzo(a)pyrene



Compound# 85
Benzo(a)pyrene
Concen: 0.45 ug/ml m
RT: 17.96 min Scan# 2698
Delta R.T. -0.02 min
Lab File: GCO14F21.D
Acq: 07/08/2015 15:20
Integration Scan Range
From
2691 (17.917 min)
To
2705 (17.998 min)
Peak Area 17365

MANUAL RE-INTEGRA
☑ missed peak assignment
☐ assigned incorrect name to
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other

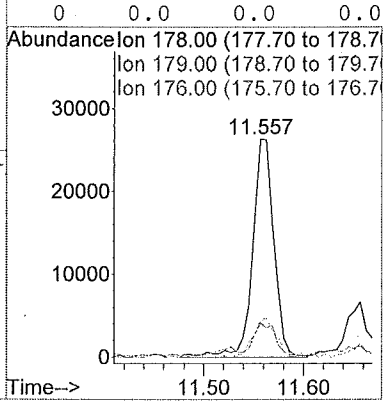
initials SY date 7/17/15

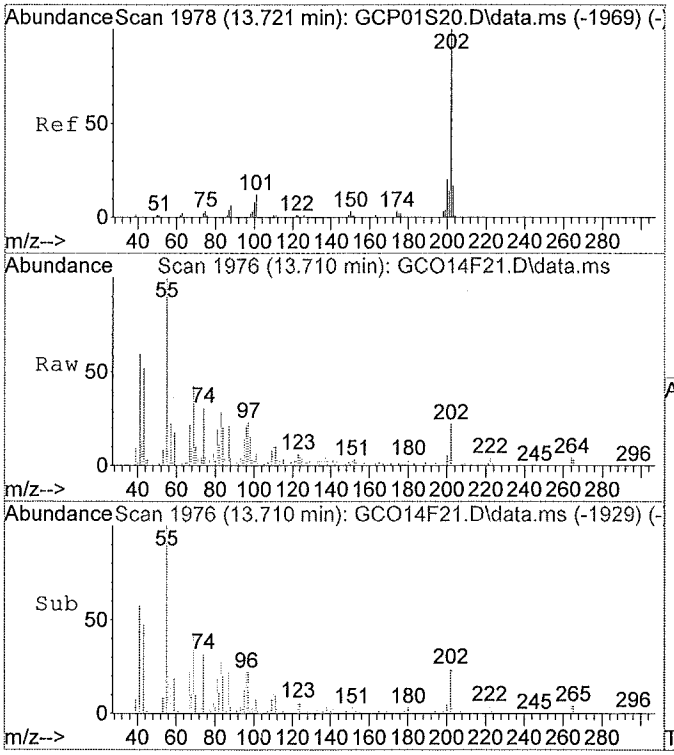


#67
Phenanthrene
Concen: 0.54 ug/ml
RT: 11.56 min Scan# 1610
Delta R.T. -0.01 min
Lab File: GCO14F21.D
Acq: 07/08/2015 15:20

Tgt Ion:178 Resp: 39022

Ion	Ratio	Lower	Upper
178	100		
179	14.5	10.6	19.8
176	21.0	13.2	24.4
0	0.0	0.0	0.0

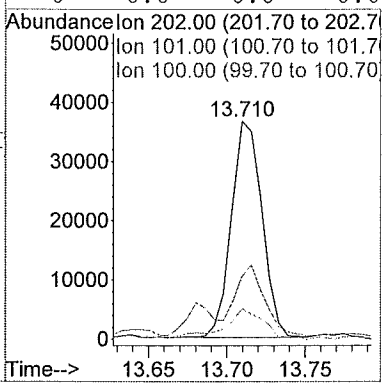


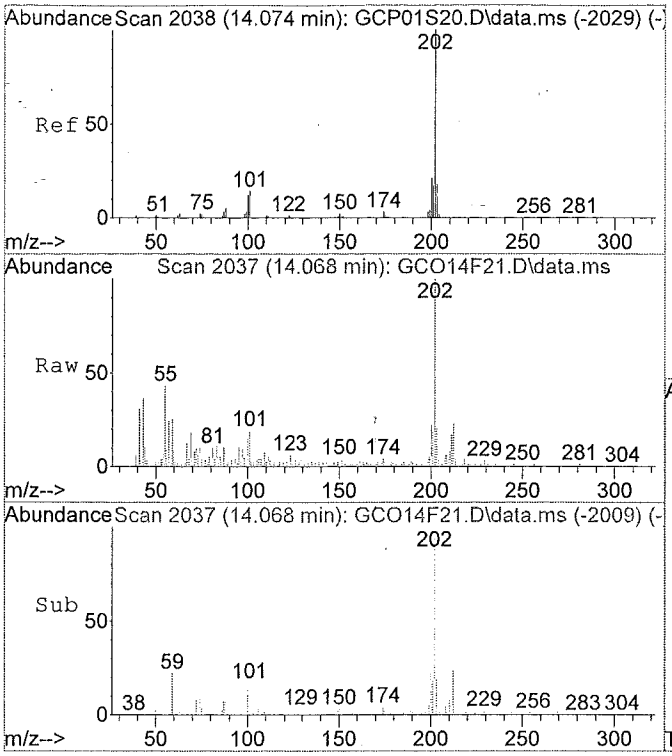


#72
Fluoranthene
Concen: 0.62 ug/ml
RT: 13.71 min Scan# 1976
Delta R.T. -0.01 min
Lab File: GCO14F21.D
Acq: 07/08/2015 15:20

Tgt Ion:202 Resp: 49477

Ion	Ratio	Lower	Upper
202	100		
101	30.5	10.5	19.5#
100	18.6	7.4	13.8#
0	0.0	0.0	0.0

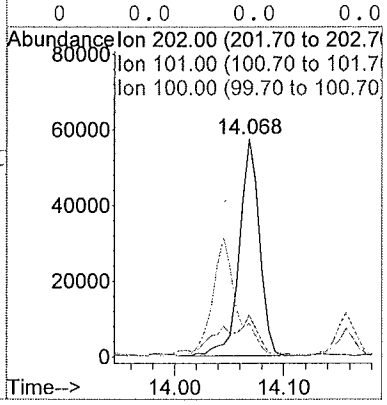


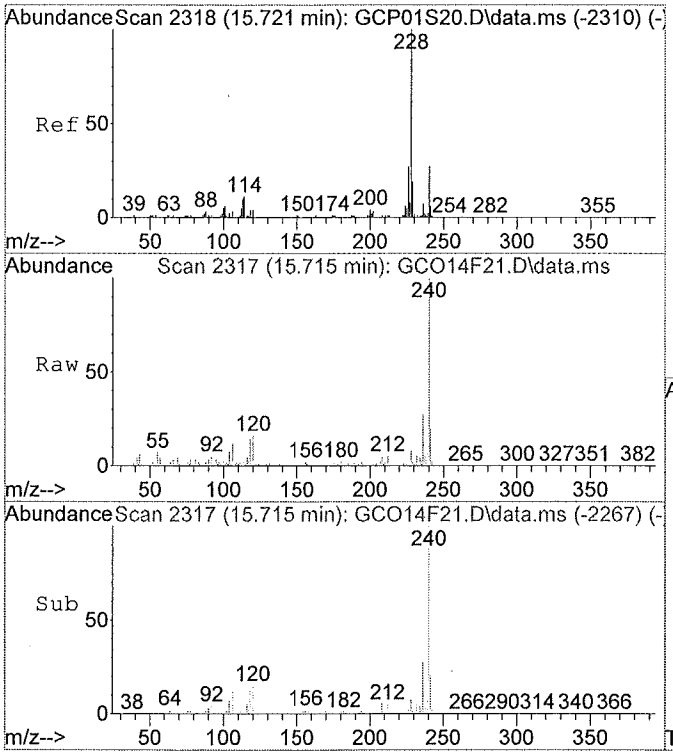


#74
Pyrene
Concen: 0.93 ug/ml
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: GCO14F21.D
Acq: 07/08/2015 15:20

Tgt Ion:202 Resp: 73186

Ion	Ratio	Lower	Upper
202	100		
101	14.7	12.2	22.7
100	0.0	10.1	18.7#
0	0.0	0.0	0.0

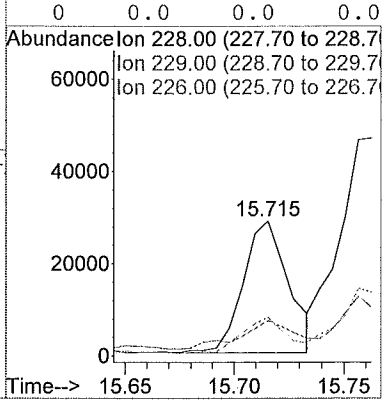


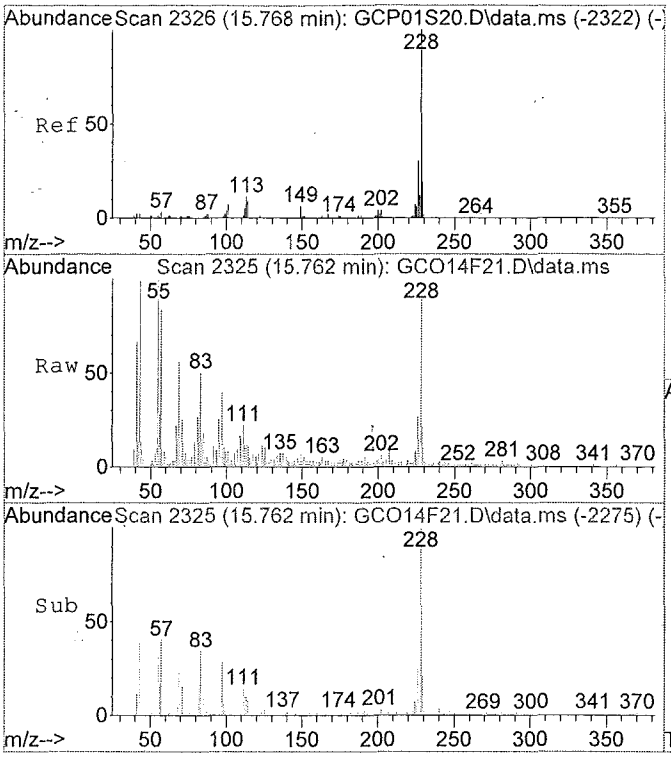


#78
Benzo(a)anthracene
Concen: 0.55 ug/ml
RT: 15.72 min Scan# 2317
Delta R.T. -0.01 min
Lab File: GCO14F21.D
Acq: 07/08/2015 15:20

Tgt Ion:228 Resp: 41354

Ion	Ratio	Lower	Upper
228	100		
229	31.5	13.7	25.5#
226	27.6	18.2	33.8
0	0.0	0.0	0.0

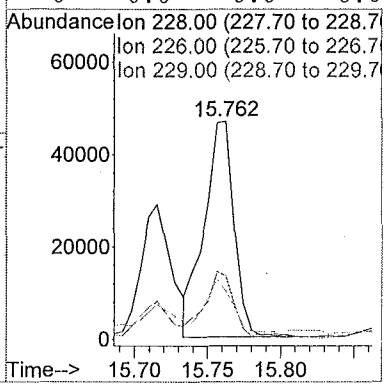


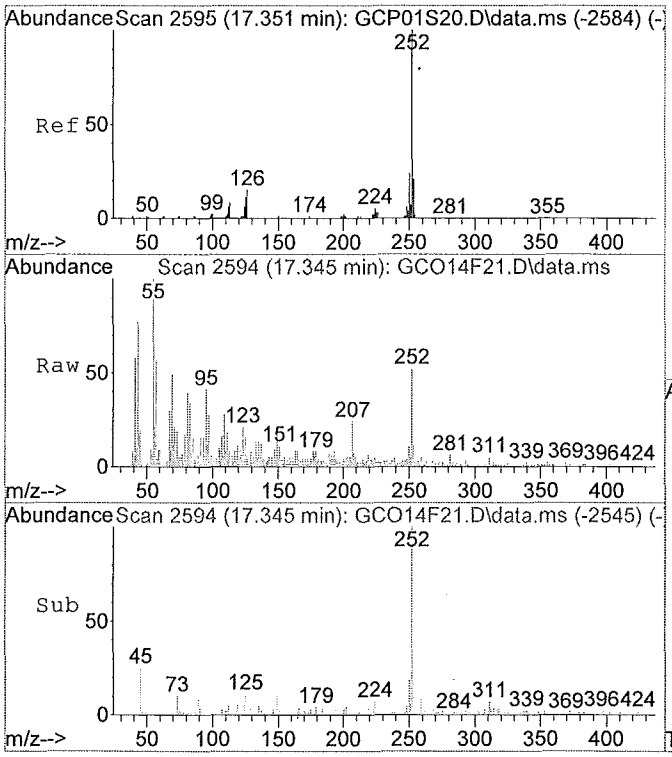


#79
Chrysene
Concen: 0.99 ug/ml
RT: 15.76 min Scan# 2325
Delta R.T. -0.01 min
Lab File: GCO14F21.D
Acq: 07/08/2015 15:20

Tgt Ion:228 Resp: 66703

Ion	Ratio	Lower	Upper
228	100		
226	27.0	20.1	37.3
229	23.3	13.7	25.5
0	0.0	0.0	0.0

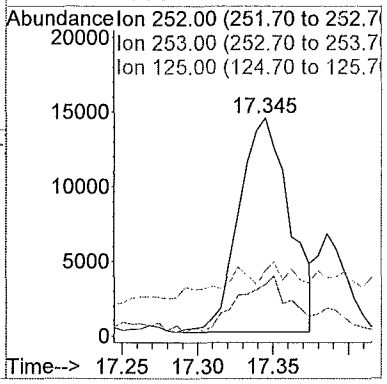


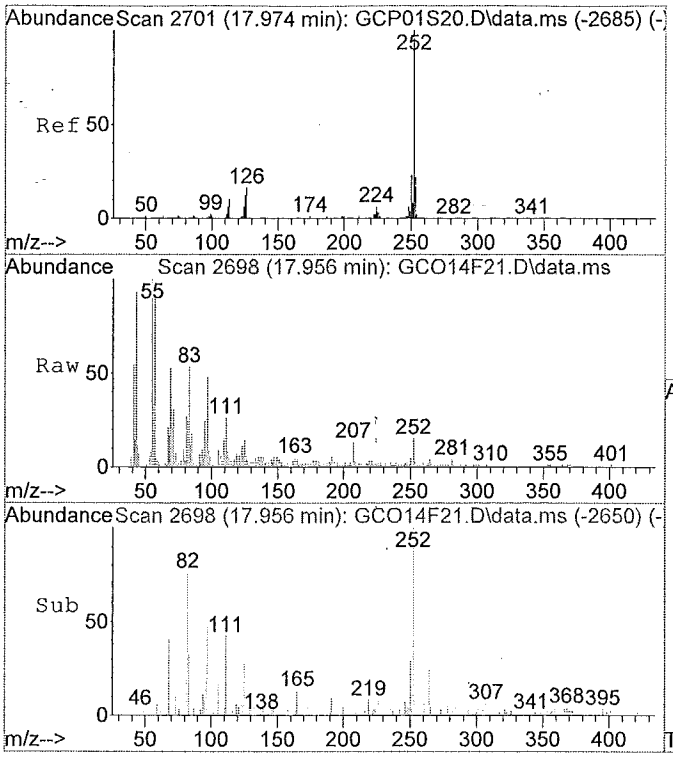


#83
Benzo(b)fluoranthene
Concen: 0.83 ug/ml
RT: 17.34 min Scan# 2594
Delta R.T. -0.01 min
Lab File: GCO14F21.D
Acq: 07/08/2015 15:20

Tgt Ion:252 Resp: 33648

Ion	Ratio	Lower	Upper
252	100		
253	26.8	15.1	28.1
125	11.6	10.6	19.8
0	0.0	0.0	0.0

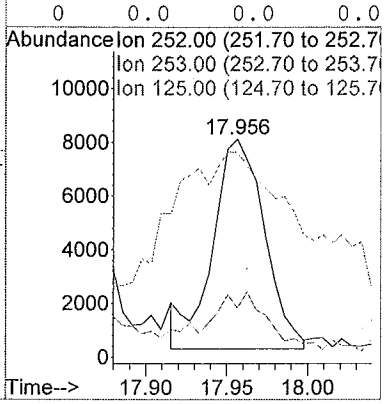




#85
Benzo(a)pyrene
Concen: 0.45 ug/ml m
RT: 17.96 min Scan# 2698
Delta R.T. -0.02 min
Lab File: GCO14F21.D
Acq: 07/08/2015 15:20

Tgt Ion:252 Resp: 17365

Ion	Ratio	Lower	Upper
252	100		
253	42.1	15.2	28.2#
125	30.1	11.8	21.8#
0	0.0	0.0	0.0



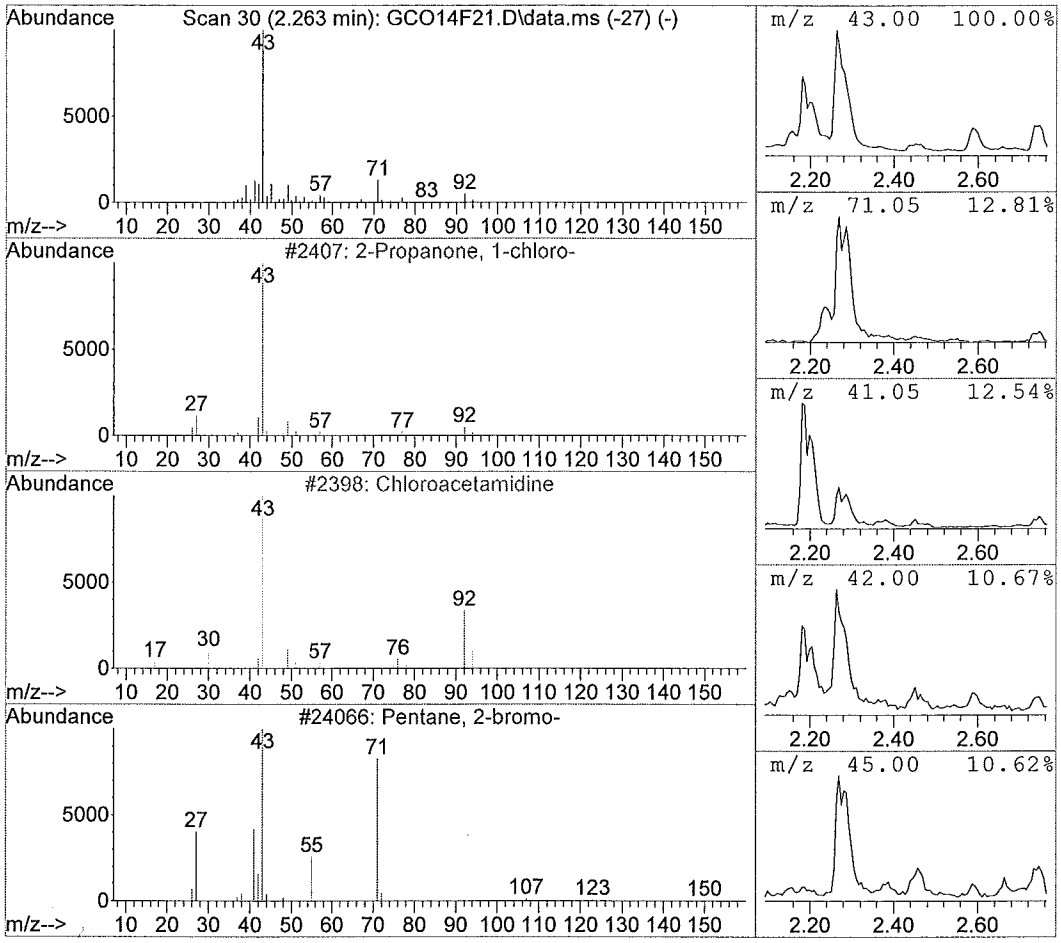
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.26	4.93 ug/ml	607173	1,4-Dichlorobenzene-d4	2462117

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2407	000078-95-5	62.00
2	Chloroacetamidine	2398	020846-52-0	50.00
3	Pentane, 2-bromo-	24066	000107-81-3	43.00
4	2,3-Pentanedione, 4-methyl-	7224	007493-58-5	28.00
5	Isobutane	236	000075-28-5	9.00



: 00795

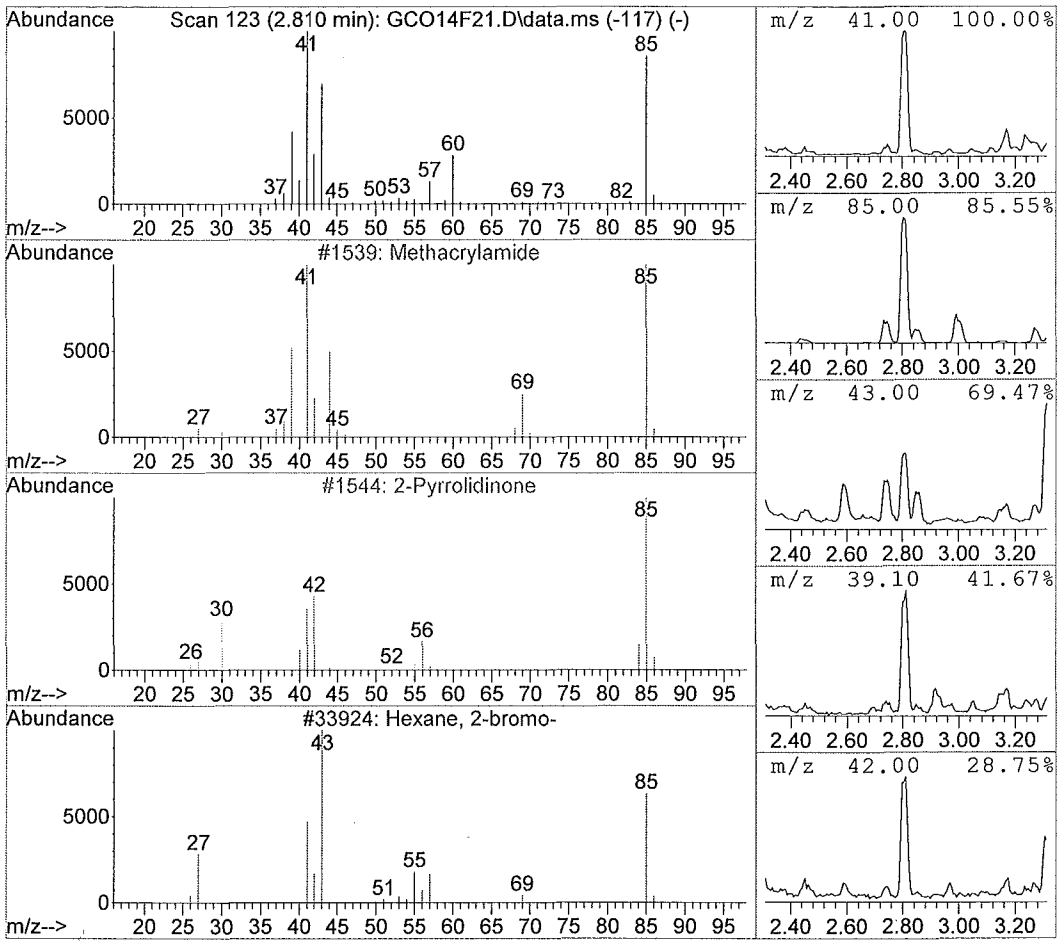
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.81	3.65 ug/ml	449154	1,4-Dichlorobenzene-d4	2462117

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methacrylamide	1539	000079-39-0	53.00
2	2-Pyrrolidinone	1544	000616-45-5	43.00
3	Hexane, 2-bromo-	33924	003377-86-4	43.00
4	Hexane, 3-bromo-	33930	003377-87-5	32.00
5	2,2-Dimethylvaleroyl chloride	23063	015721-22-9	23.00



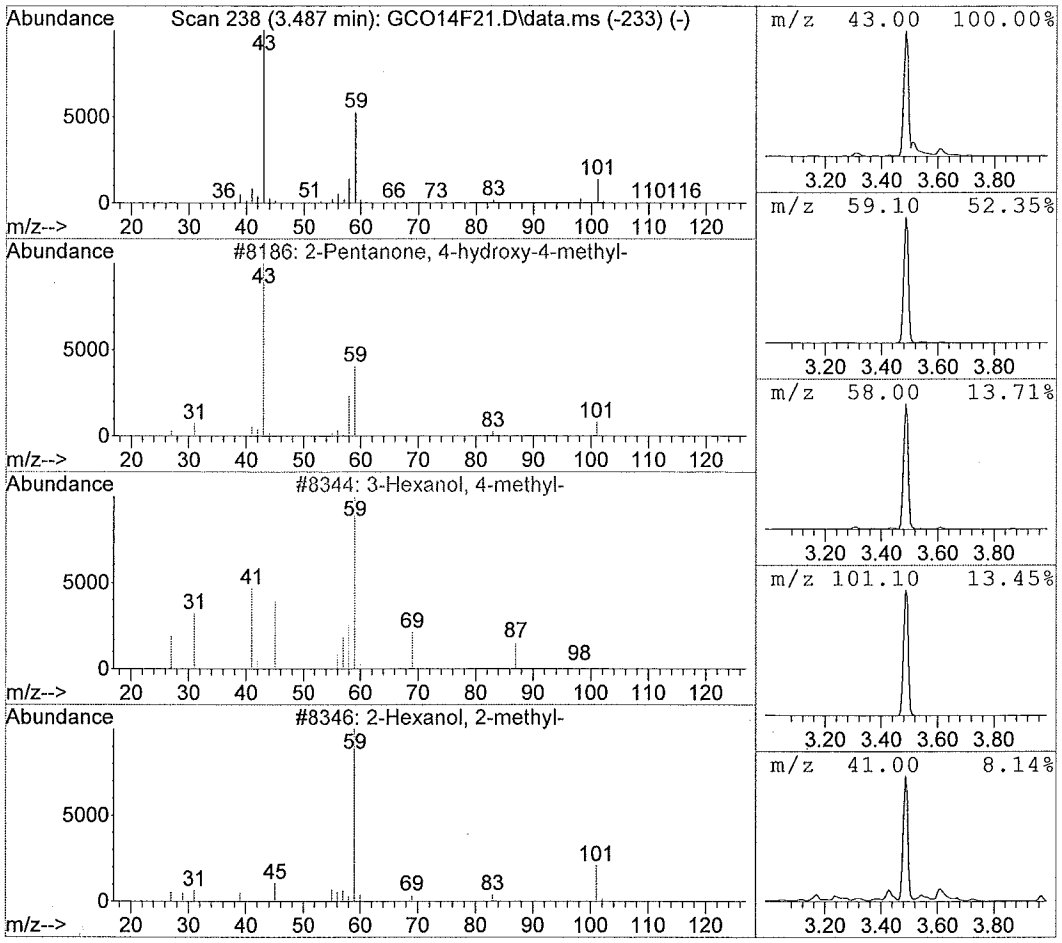
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.49	62.98 ug/ml	7753058	1,4-Dichlorobenzene-d4	2462117

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8186	000123-42-2	50.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	2-Hexanol, 2-methyl-	8346	000625-23-0	28.00
4	Acetic acid, cyano-, 1,1-dimethylet	18948	001116-98-9	25.00
5	2,3-Butanedione, monooxime	4030	000057-71-6	9.00



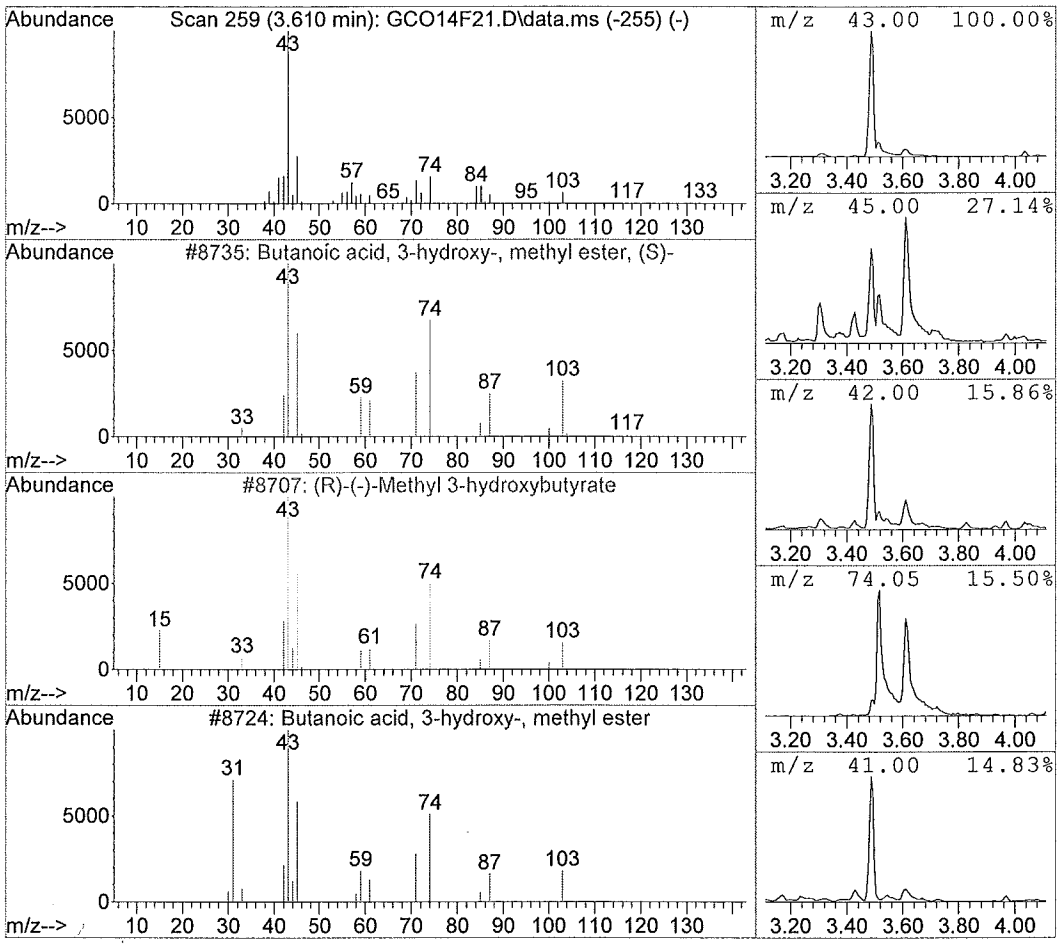
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.61	5.00 ug/ml	615825	1,4-Dichlorobenzene-d4	2462117

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butanoic acid, 3-hydroxy-, methyl e	8735	053562-86-0	50.00
2	(R)-(-)-Methyl 3-hydroxybutyrate	8707	003976-69-0	40.00
3	Butanoic acid, 3-hydroxy-, methyl e	8724	001487-49-6	38.00
4	1,3,4-Oxadiazole, 2-(acetyloxy)-2,5	40039	066398-57-0	32.00
5	Oxirane, 2-methyl-3-propyl-, cis-	3952	006124-90-9	30.00



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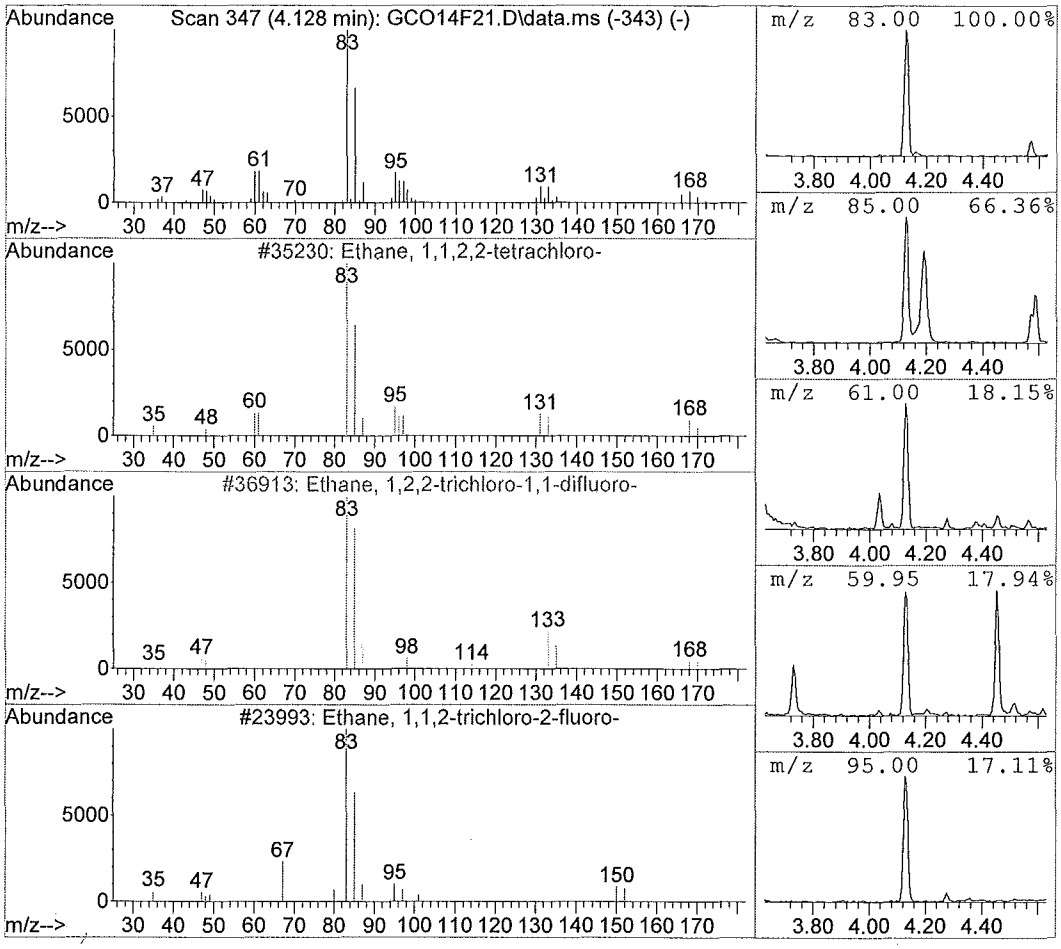
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.13	4.36 ug/ml	536781	1,4-Dichlorobenzene-d4	2462117

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro- VCA	35230	000079-34-5	96.00
2	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	70.00
3	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	64.00
4	Ethane, 2,2-dichloro-1,1,1-trifluor	25466	000306-83-2	42.00
5	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	42.00



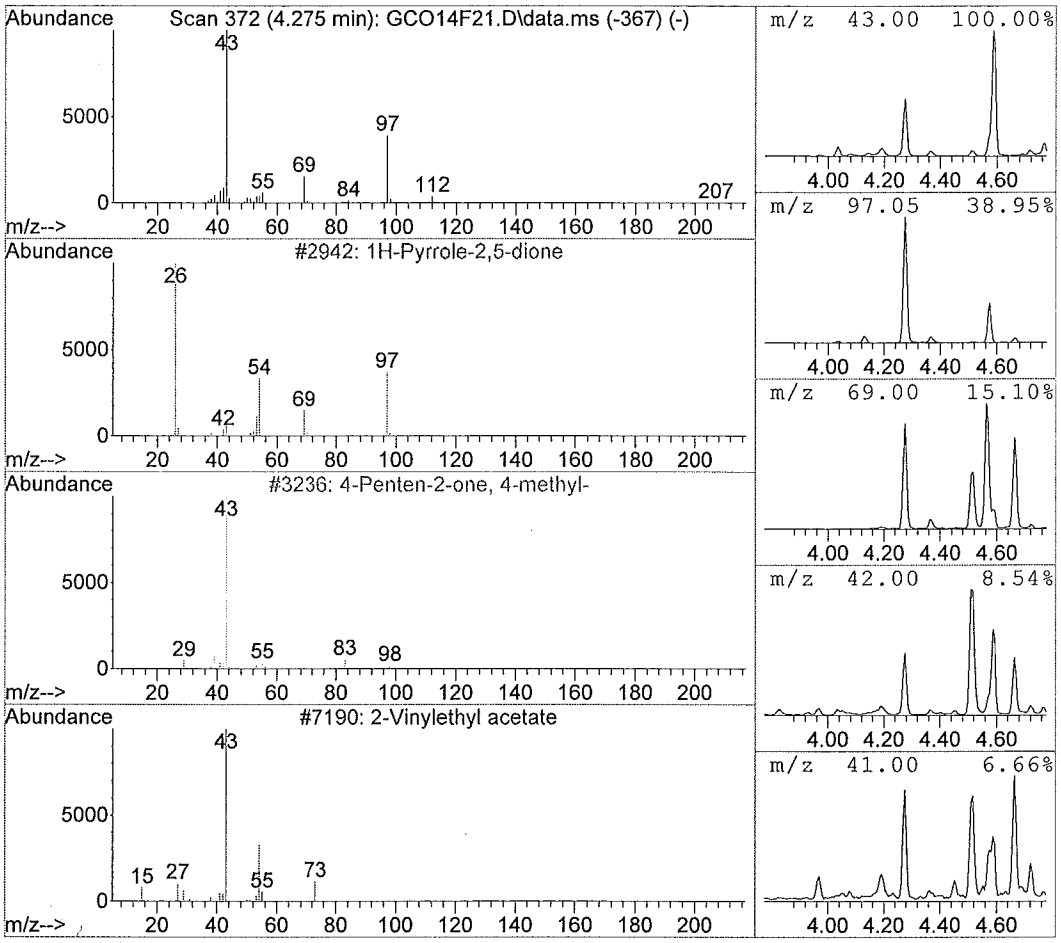
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.28	12.18 ug/ml	1498849	1,4-Dichlorobenzene-d4	2462117

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	2-Vinylethyl acetate	7190	001576-84-7	9.00
4	Methyl 1-methylcyclopropyl ketone	3272	001567-75-5	9.00
5	2-Propyn-1-ol, acetate	3098	000627-09-8	5.00



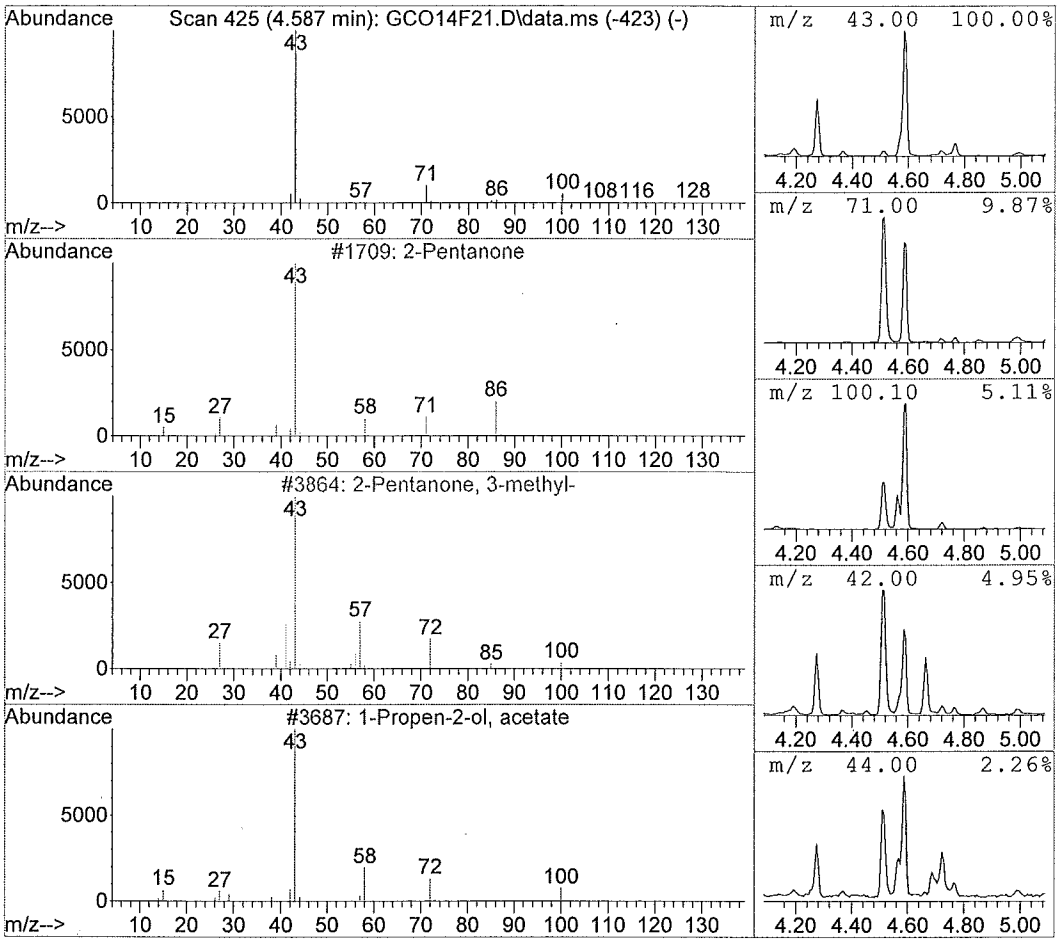
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.59	17.96 ug/ml	2211309	1,4-Dichlorobenzene-d4	2462117

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone	1709	000107-87-9	9.00
2	2-Pentanone, 3-methyl-	3864	000565-61-7	5.00
3	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
4	Heptane, 2,4-dimethyl-	12695	002213-23-2	5.00
5	Heptane	3971	000142-82-5	5.00



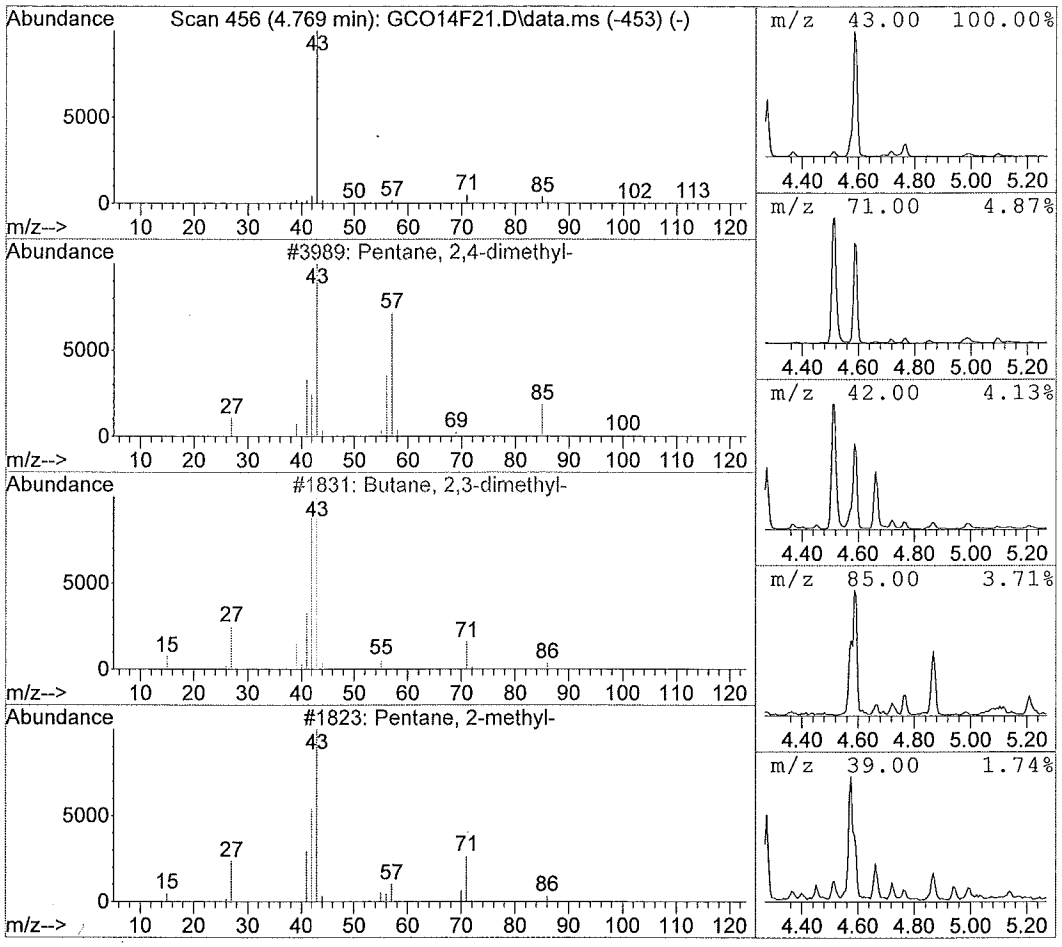
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.77	2.12 ug/ml	260637	1,4-Dichlorobenzene-d4	2462117

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 2,4-dimethyl- BA	3989	000108-08-7	3.00
2	Butane, 2,3-dimethyl-	1831	000079-29-8	3.00
3	Pentane, 2-methyl-	1823	000107-83-5	3.00
4	2-Pentanone	1706	000107-87-9	2.00
5	2-Butanone, 3-chloro-	5005	004091-39-8	2.00



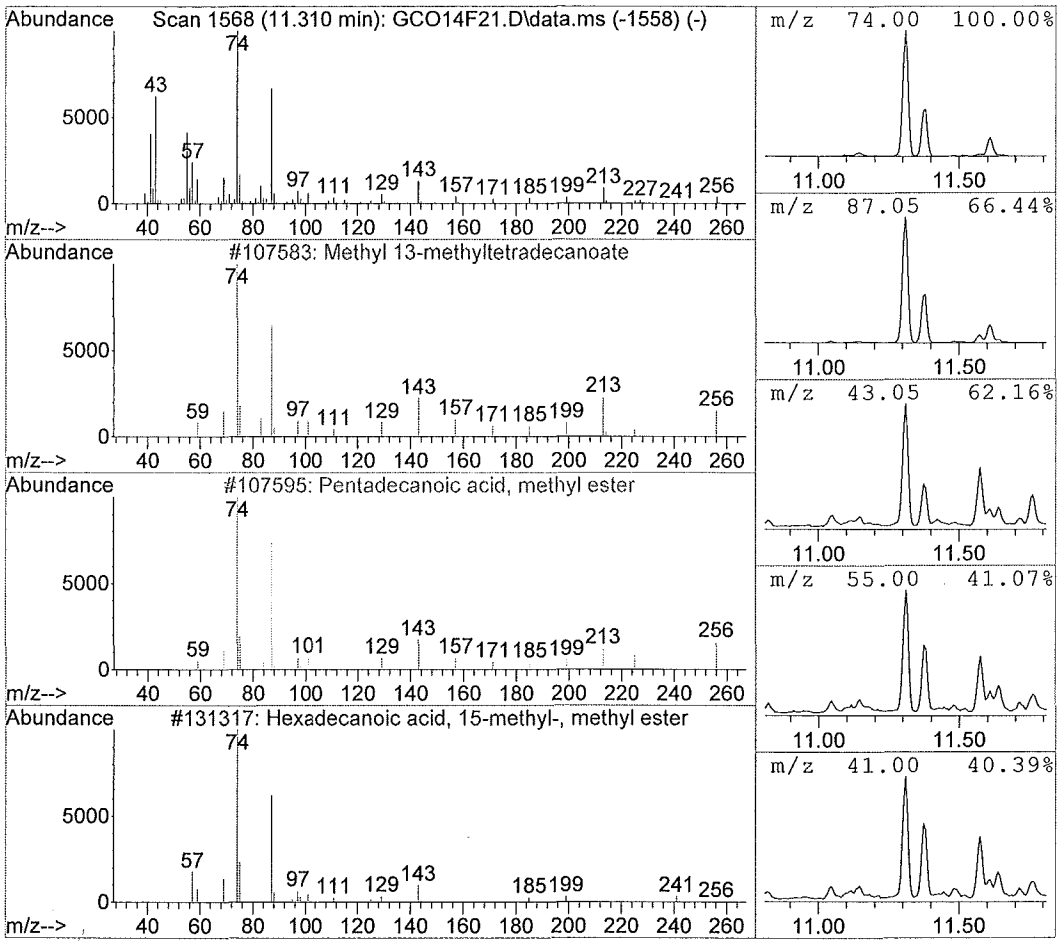
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.31	9.97 ug/ml	1879049	Phenanthrene-d10	3770720

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 13-methyltetradecanoate	107583	1000336-31-4	96.00
2	Pentadecanoic acid, methyl ester	107595	007132-64-1	95.00
3	Hexadecanoic acid, 15-methyl-, meth	131317	006929-04-0	87.00
4	Methyl tetradecanoate	95863	000124-10-7	87.00
5	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	87.00



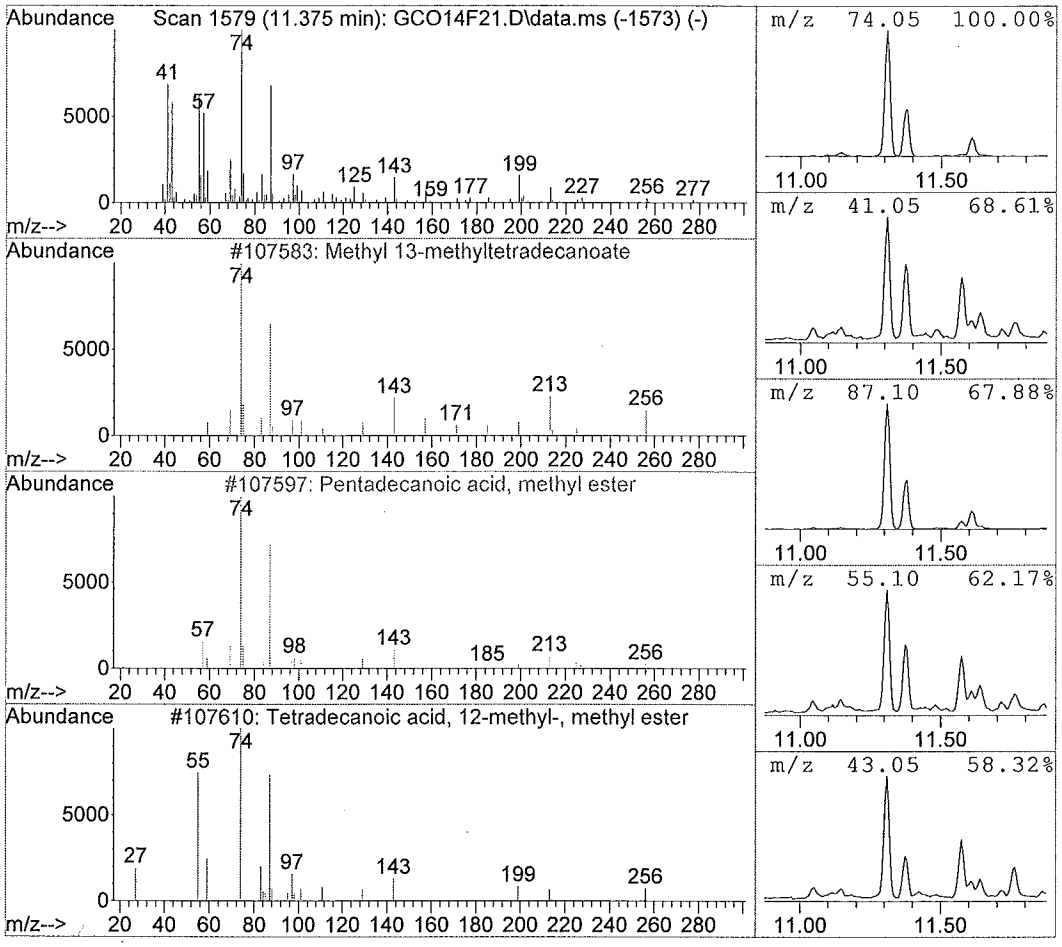
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.37	5.21 ug/ml	981984	Phenanthrene-d10	3770720

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 13-methyltetradecanoate	107583	1000336-31-4	90.00
2	Pentadecanoic acid, methyl ester	107597	007132-64-1	90.00
3	Tetradecanoic acid, 12-methyl-, met	107610	005129-66-8	90.00
4	Undecanoic acid, methyl ester	61161	001731-86-8	81.00
5	Tetradecanoic acid, 12-methyl-, met	107614	062691-05-8	72.00



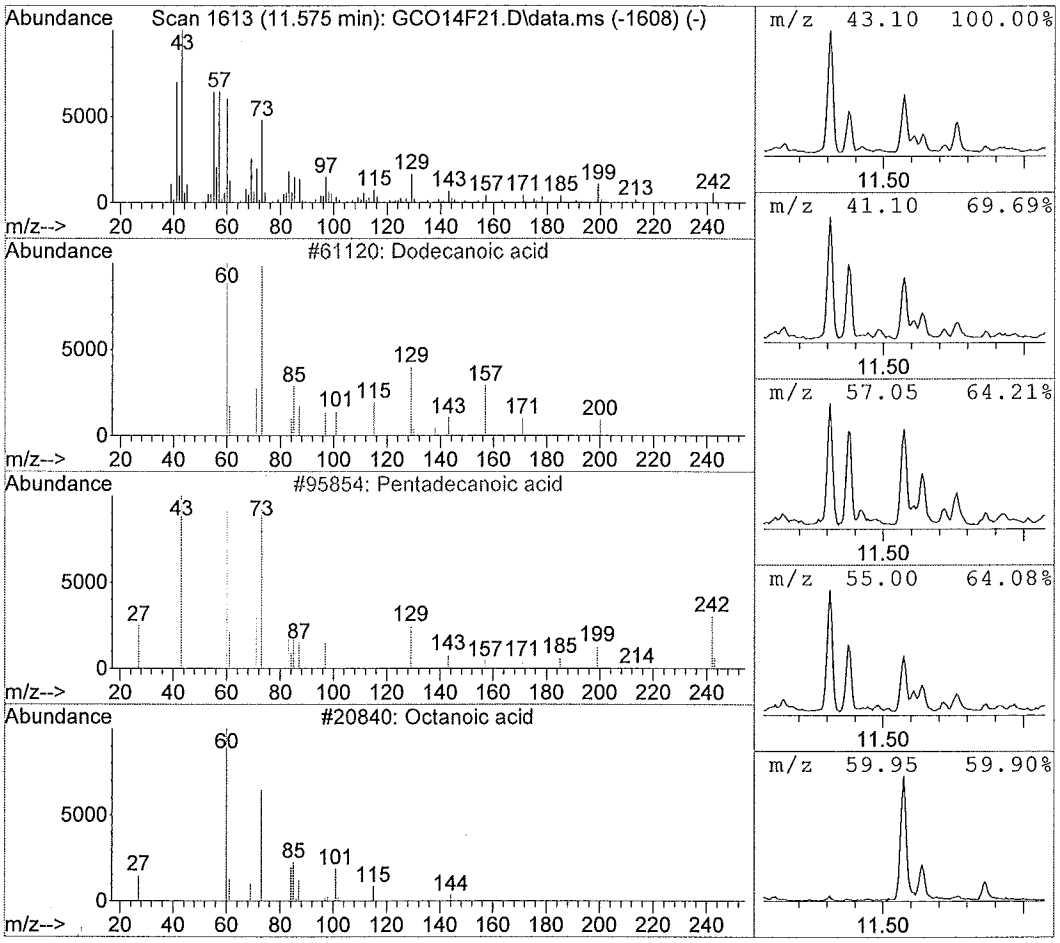
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.57	4.83 ug/ml	910594	Phenanthrene-d10	3770720

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanoic acid	61120	000143-07-7	89.00
2	Pentadecanoic acid	95854	001002-84-2	80.00
3	Octanoic acid	20840	000124-07-2	43.00
4	Oxalic acid, isobutyl tetradecyl es	178452	1000309-37-9	30.00
5	Oxalic acid, allyl octadecyl ester	203464	1000309-24-5	18.00



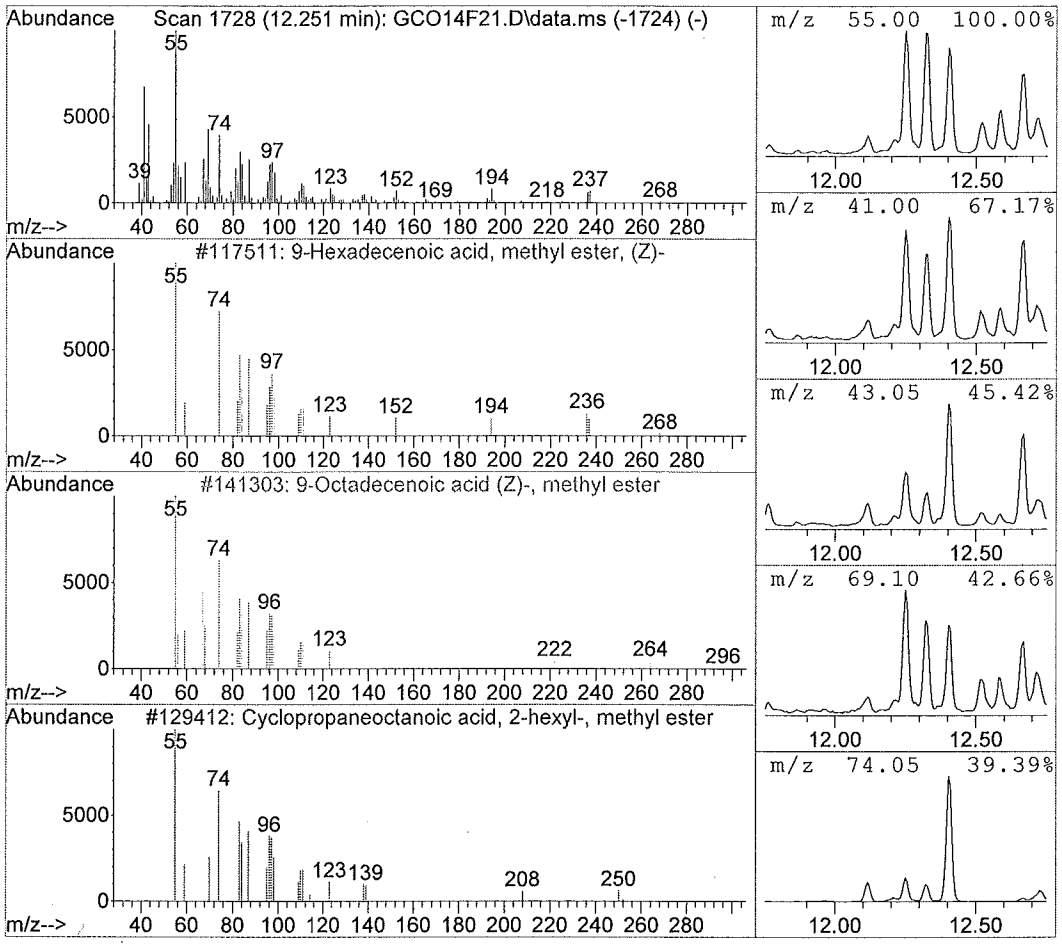
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.25	12.84 ug/ml	2420082	Phenanthrene-d10	3770720

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117511	001120-25-8	96.00
2	9-Octadecenoic acid (Z)-, methyl es	141303	000112-62-9	87.00
3	Cyclopropaneoctanoic acid, 2-hexyl-	129412	010152-61-1	83.00
4	11-Hexadecenoic acid, methyl ester	117489	055000-42-5	80.00
5	Methyl myristoleate	94118	056219-06-8	80.00



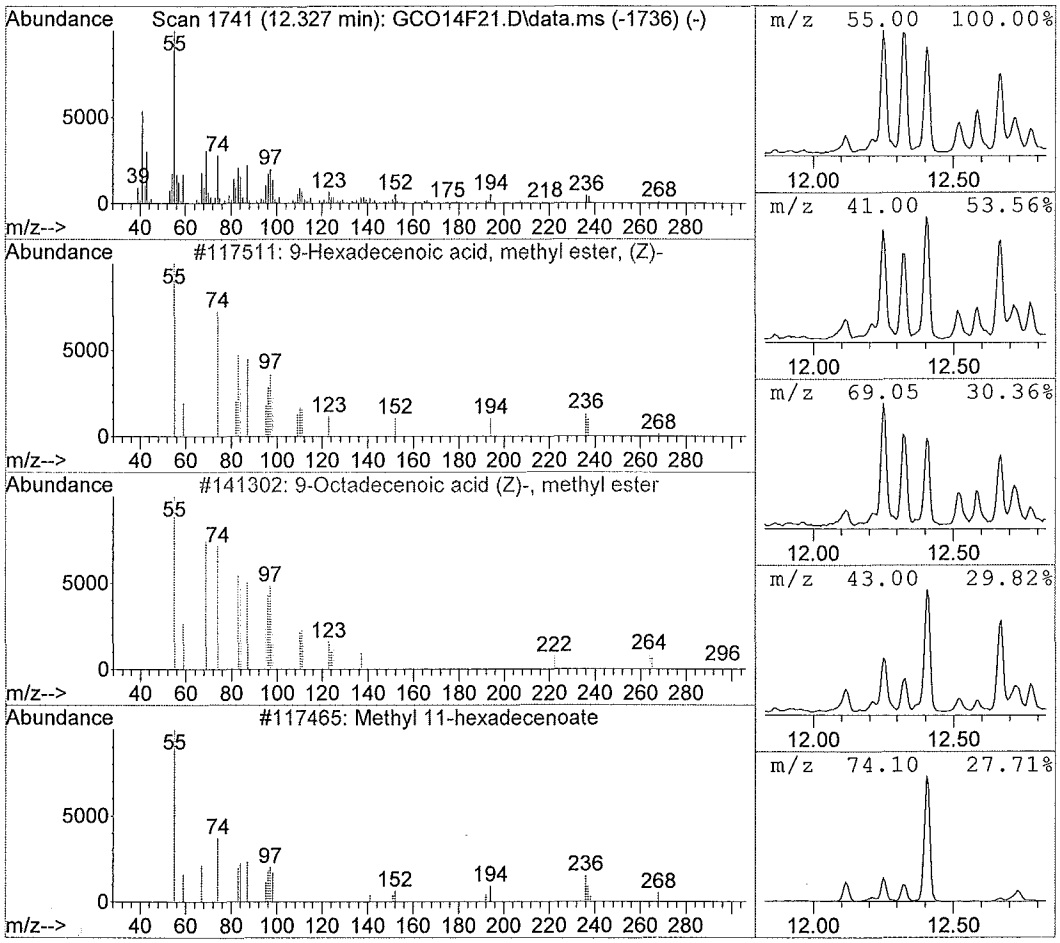
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.33	9.12 ug/ml	1719047	Phenanthrene-d10	3770720

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117511	001120-25-8	97.00
2	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	87.00
3	Methyl 11-hexadecenoate	117465	1000336-35-5	86.00
4	cis-9-Hexadecenoic acid	105678	1000333-19-5	58.00
5	Cyclopropaneoctanoic acid, 2-hexyl-	129412	010152-61-1	53.00



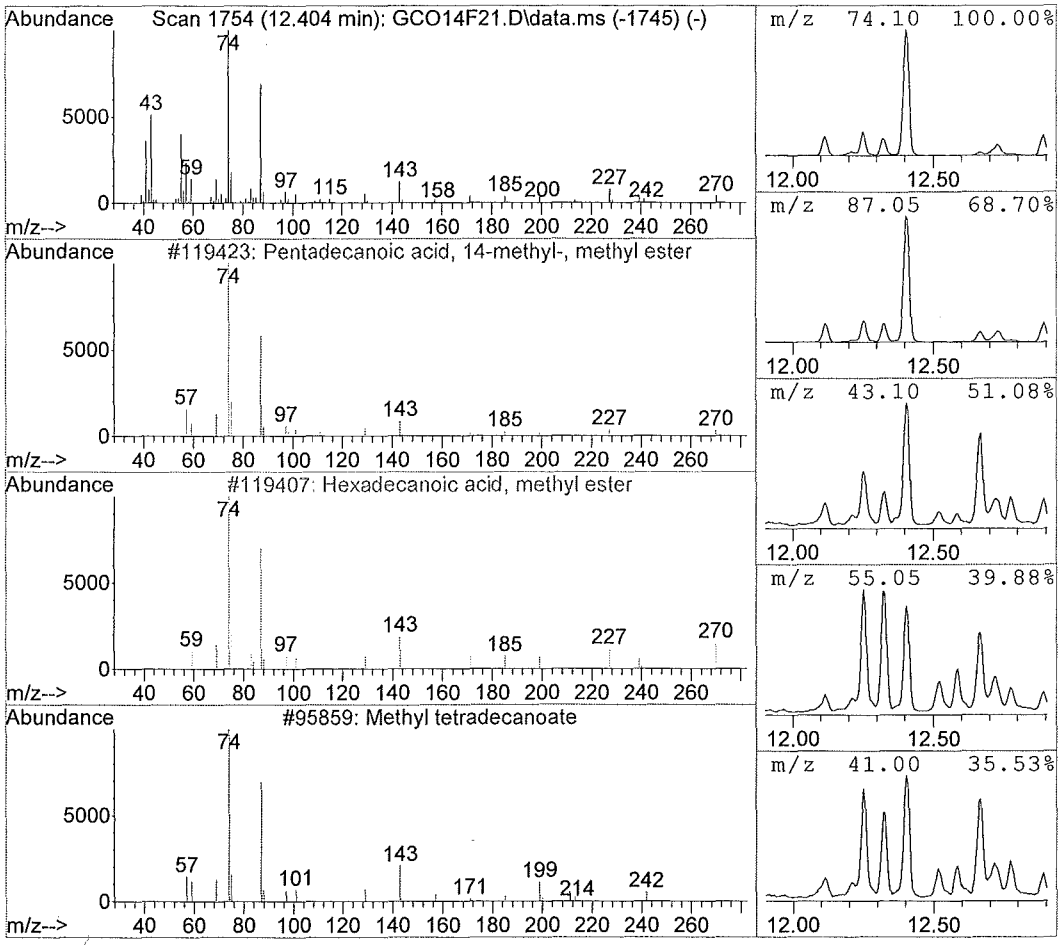
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.40	15.98 ug/ml	3013316	Phenanthrene-d10	3770720

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	98.00
2	Hexadecanoic acid, methyl ester	119407	000112-39-0	97.00
3	Methyl tetradecanoate	95859	000124-10-7	93.00
4	Pentadecanoic acid, methyl ester	107596	007132-64-1	90.00
5	Tridecanoic acid, methyl ester	84487	001731-88-0	87.00



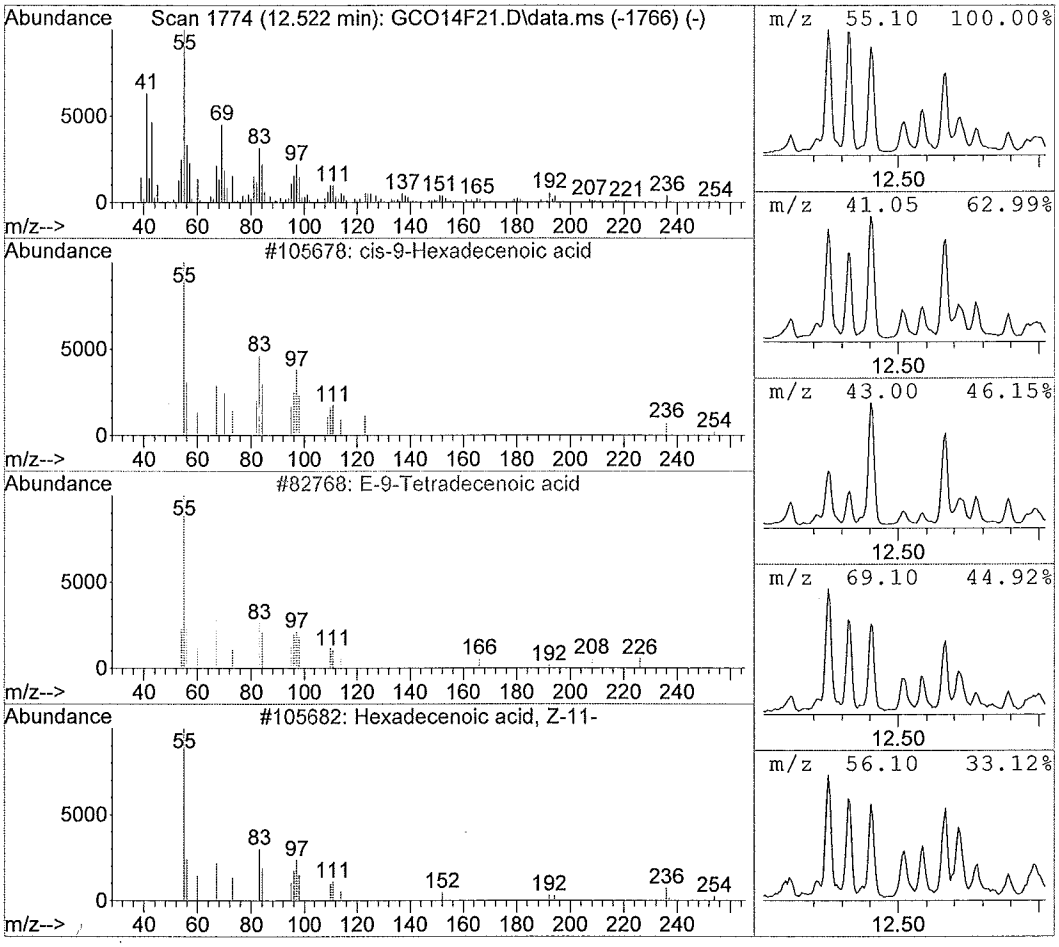
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.52	3.86 ug/ml	727901	Phenanthrene-d10	3770720

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	cis-9-Hexadecenoic acid	105678	1000333-19-5	91.00
2	E-9-Tetradecenoic acid	82768	1000131-35-8	87.00
3	Hexadecenoic acid, Z-11-	105682	002416-20-8	87.00
4	Myristoleic acid	82760	000544-64-9	87.00
5	Z-7-Tetradecenoic acid	82767	1000130-98-4	87.00



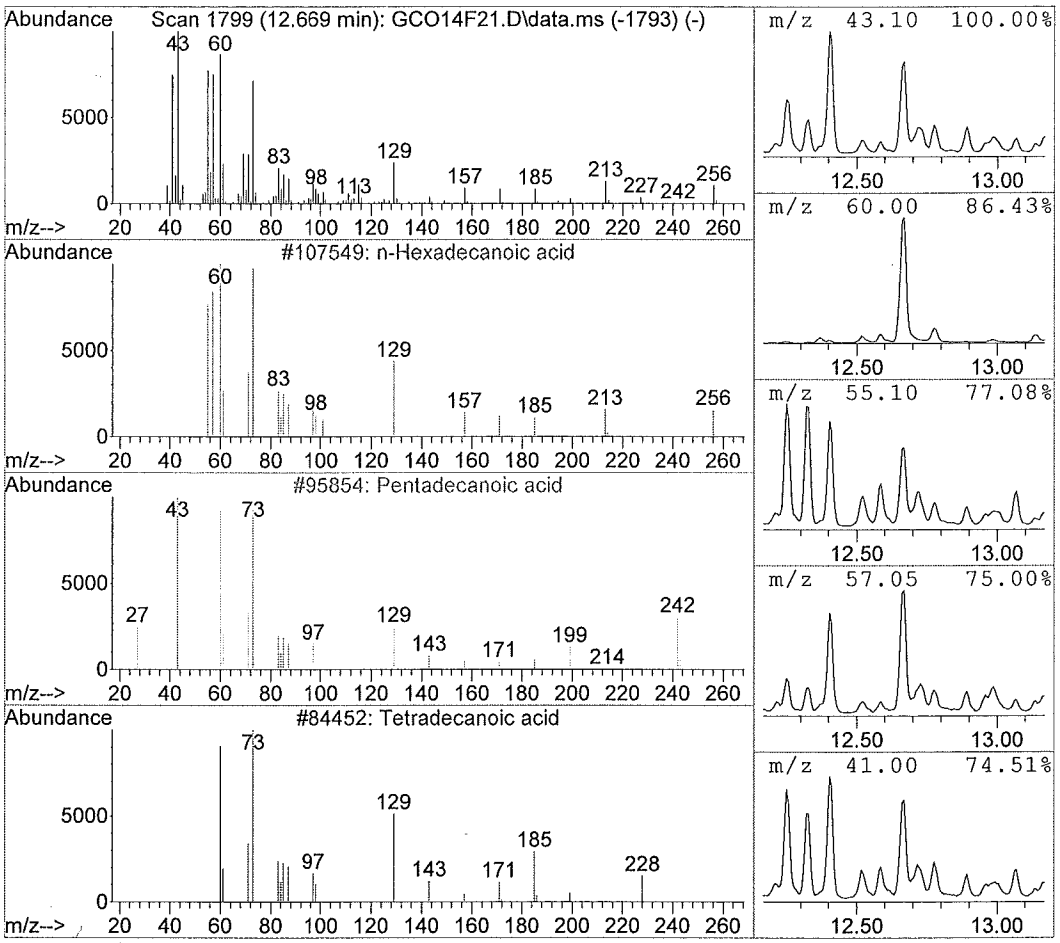
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.67	11.98 ug/ml	2258938	Phenanthrene-d10	3770720

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	99.00
2	Pentadecanoic acid	95854	001002-84-2	87.00
3	Tetradecanoic acid	84452	000544-63-8	72.00
4	Tridecanoic acid	72646	000638-53-9	59.00
5	Undecanoic acid	50051	000112-37-8	53.00



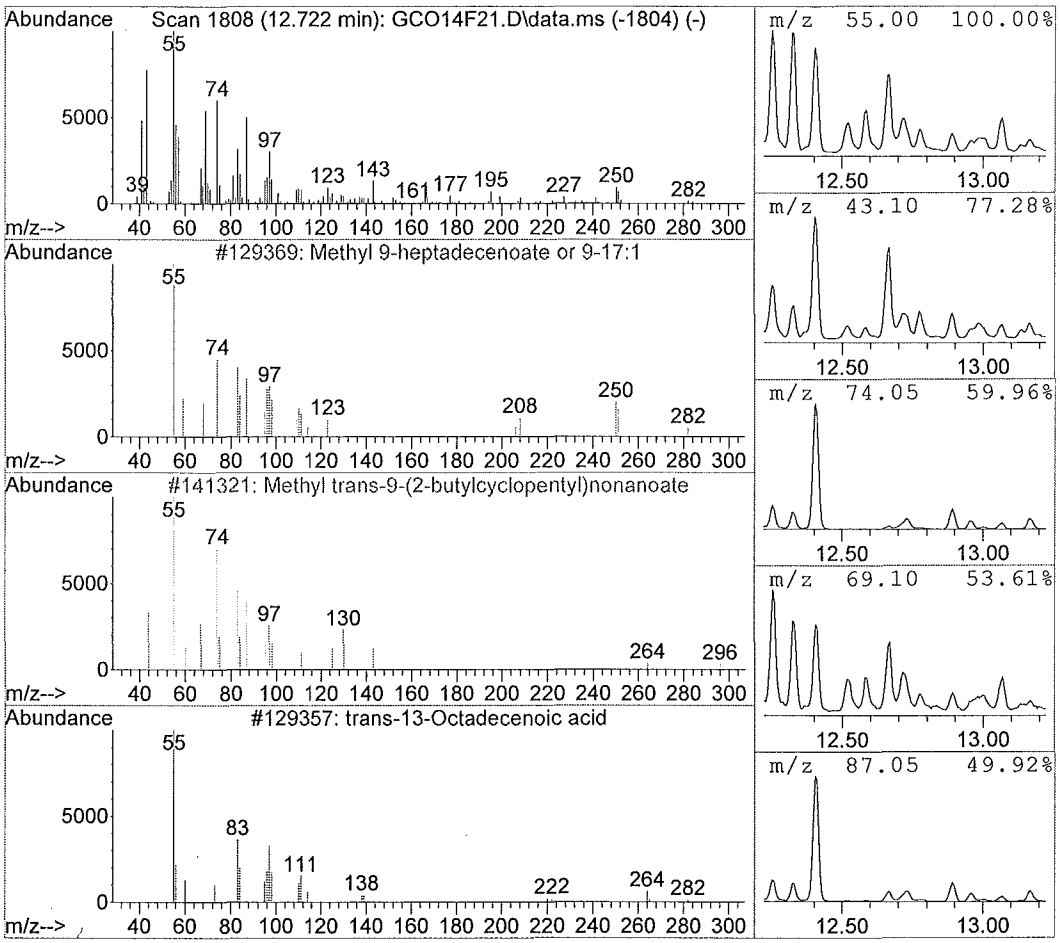
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.72	5.10 ug/ml	960788	Phenanthrene-d10	3770720

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 9-heptadecenoate or 9-17:1	129369	1000336-38-0	59.00
2	Methyl trans-9-(2-butylcyclopentyl)	141321	108708-61-8	43.00
3	trans-13-Octadecenoic acid	129357	000693-71-0	41.00
4	Nonanoic acid, 9-oxo-, methyl ester	49868	001931-63-1	38.00
5	Nonanoic acid, 9-hydroxy-, methyl e	51343	034957-73-8	38.00



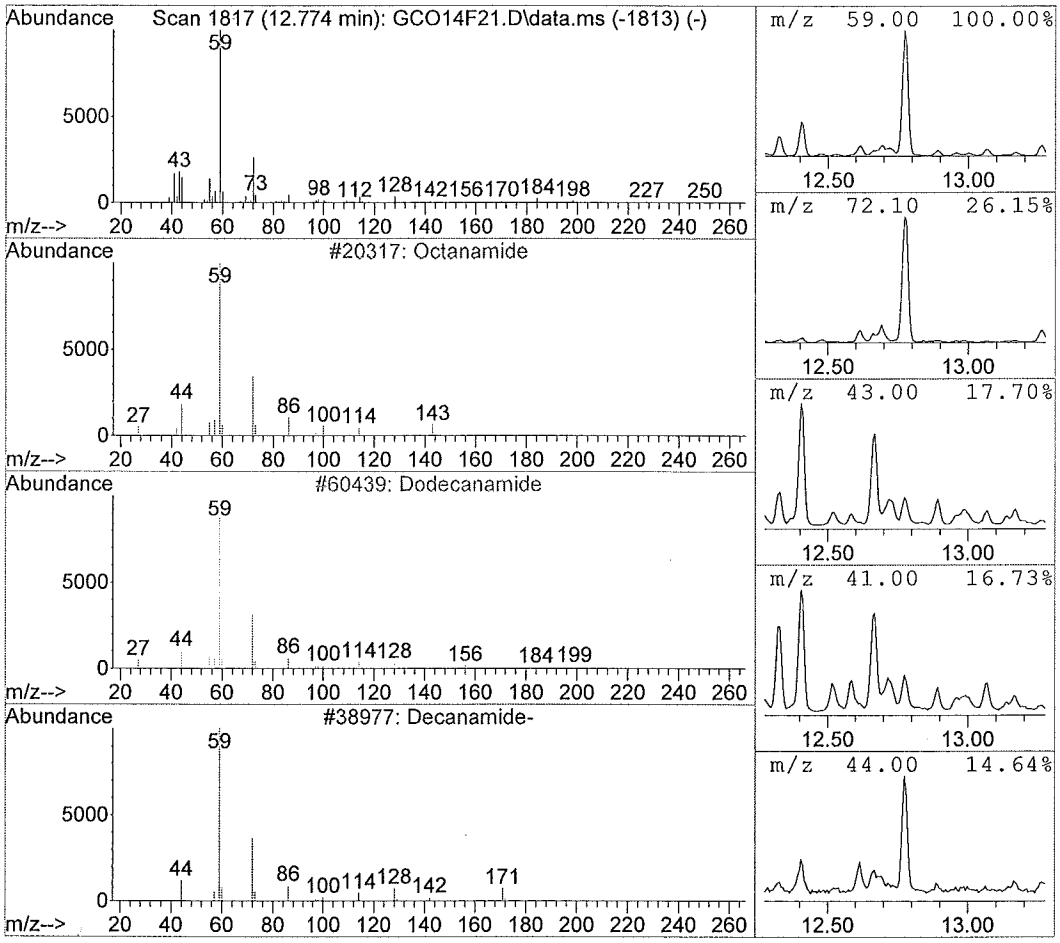
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.77	4.24 ug/ml	800076	Phenanthrene-d10	3770720

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octanamide	20317	000629-01-6	78.00
2	Dodecanamide	60439	001120-16-7	78.00
3	Decanamide-	38977	002319-29-1	74.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	72.00
5	Tetradecanamide	83608	000638-58-4	70.00



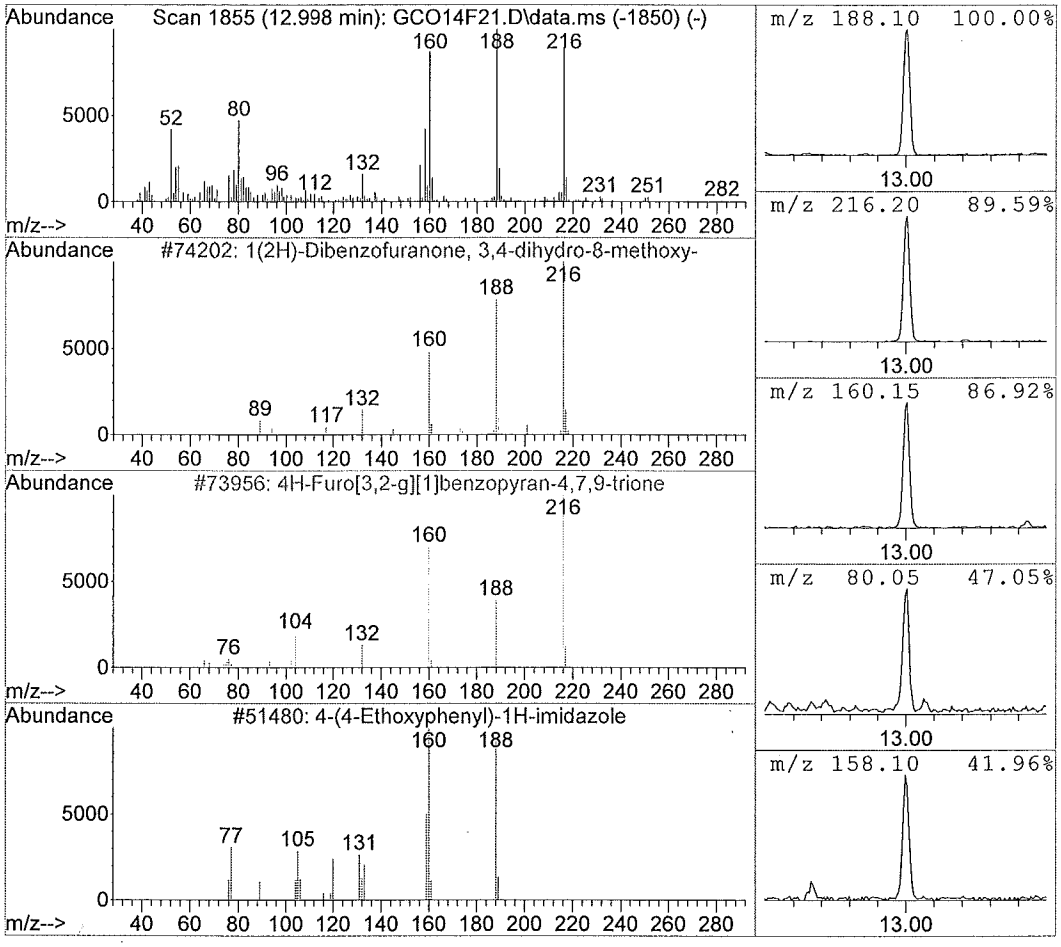
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.00	5.01 ug/ml	944282	Phenanthrene-d10	3770720

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1(2H)-Dibenzofuranone, 3,4-dihydro-	74202	095338-40-2	41.00
2	4H-Furo[3,2-g][1]benzopyran-4,7,9-t	73956	000483-36-3	25.00
3	4-(4-Ethoxyphenyl)-1H-imidazole	51480	1000311-54-8	14.00
4	4-Hydroxy-6-methyl-1,5-naphthyridin	31498	023443-24-5	14.00
5	Pyrene, 4-methyl-	74409	003353-12-6	11.00



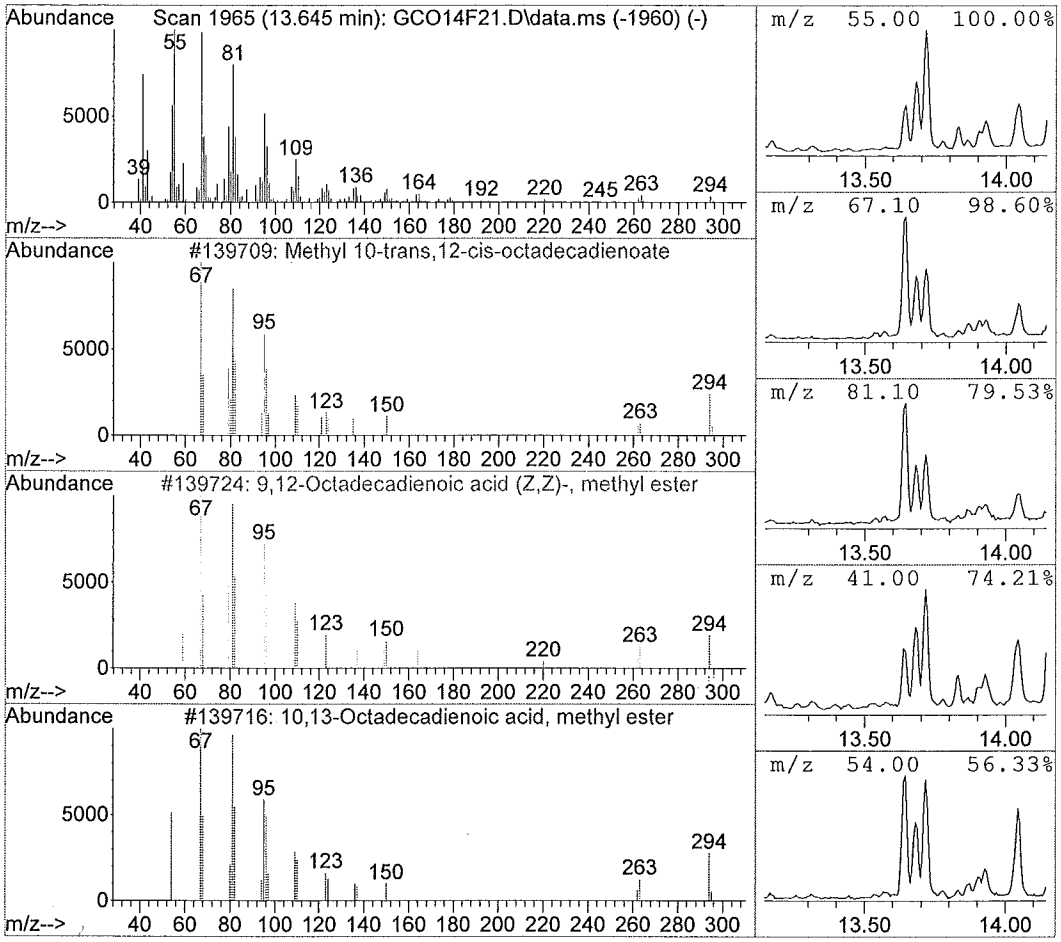
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.64	4.61 ug/ml	1094009	Chrysene-d12	4743935

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 10-trans,12-cis-octadecadien	139709	1000336-44-2	99.00
2	9,12-Octadecadienoic acid (Z,Z)-, m	139724	000112-63-0	99.00
3	10,13-Octadecadienoic acid, methyl	139716	056554-62-2	99.00
4	9,12-Octadecadienoic acid, methyl e	139729	002566-97-4	99.00
5	Methyl 9-cis,11-trans-octadecadieno	139701	1000336-44-0	95.00



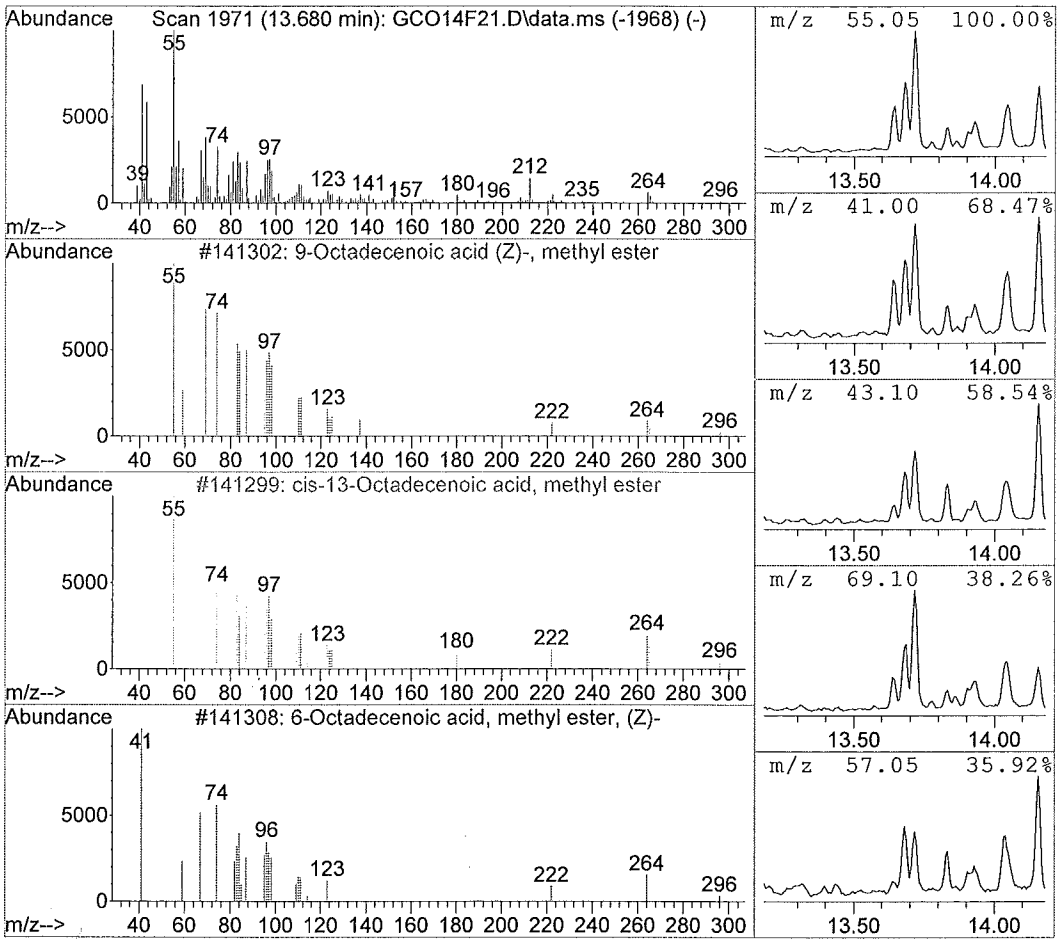
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.68	6.39 ug/ml	1514797	Chrysene-d12	4743935

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	99.00
2	cis-13-Octadecenoic acid, methyl es	141299	1000333-58-3	99.00
3	6-Octadecenoic acid, methyl ester,	141308	002777-58-4	98.00
4	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	98.00
5	10-Octadecenoic acid, methyl ester	141285	013481-95-3	97.00



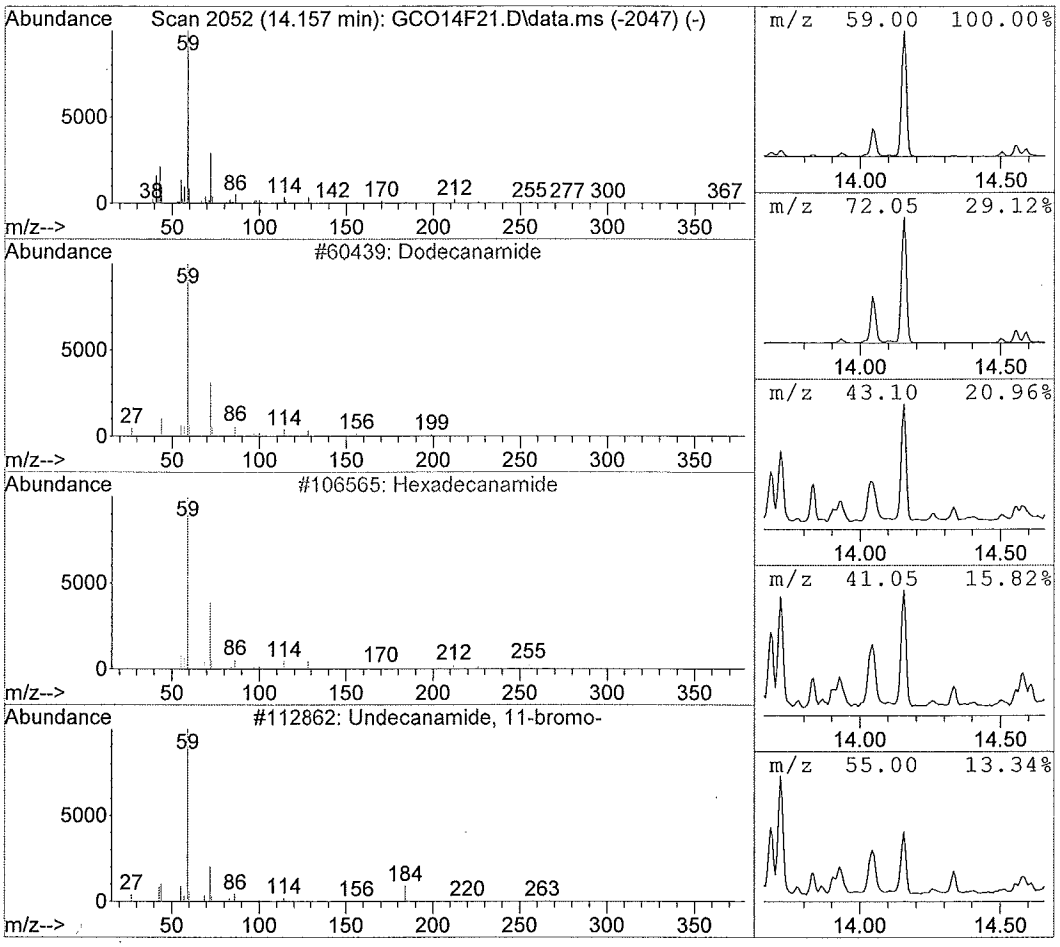
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.16	10.50 ug/ml	2490731	Chrysene-d12	4743935

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Hexadecanamide	106565	000629-54-9	87.00
3	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
4	Decanamide-	38977	002319-29-1	78.00
5	Nonanamide	29478	001120-07-6	78.00



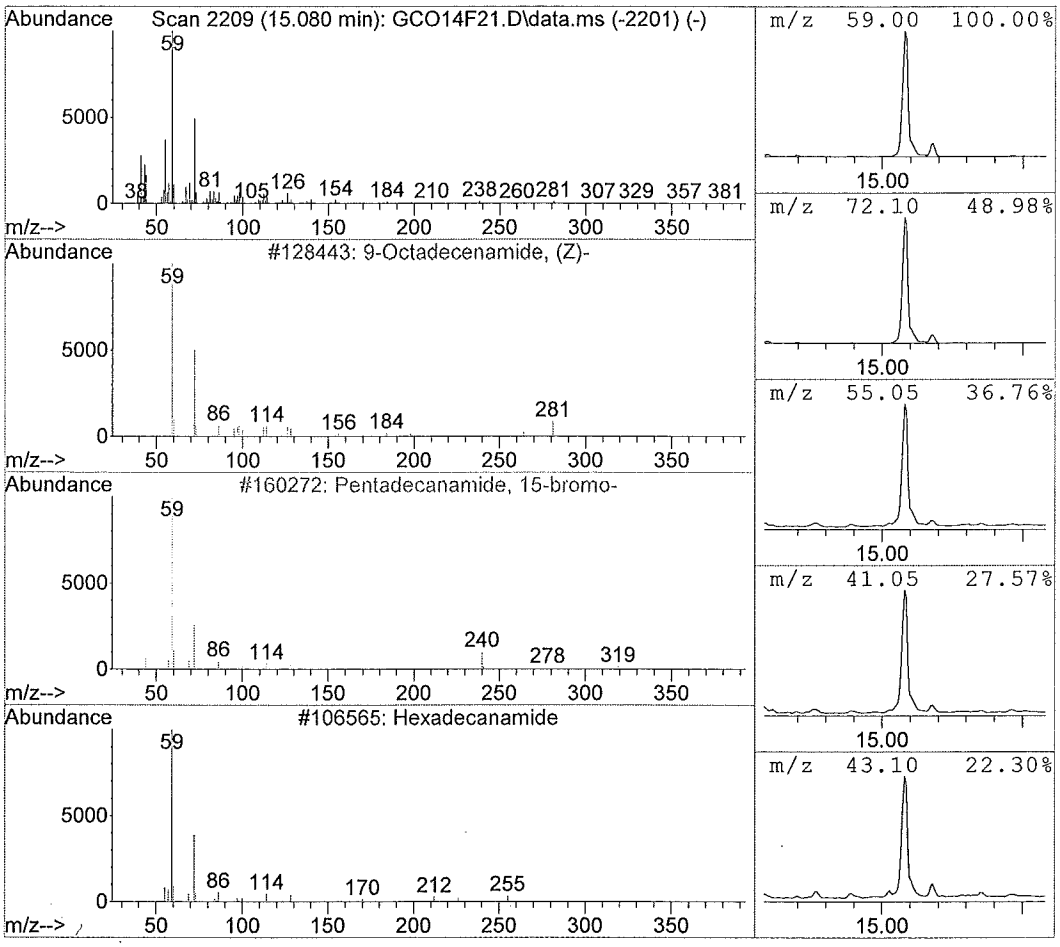
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.08	63.74 ug/ml	15117941	Chrysene-d12	4743935

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	94.00
2	Pentadecanamide, 15-bromo-	160272	1000163-86-1	80.00
3	Hexadecanamide	106565	000629-54-9	72.00
4	Dodecanamide	60439	001120-16-7	59.00
5	Decanamide-	38977	002319-29-1	56.00



00917

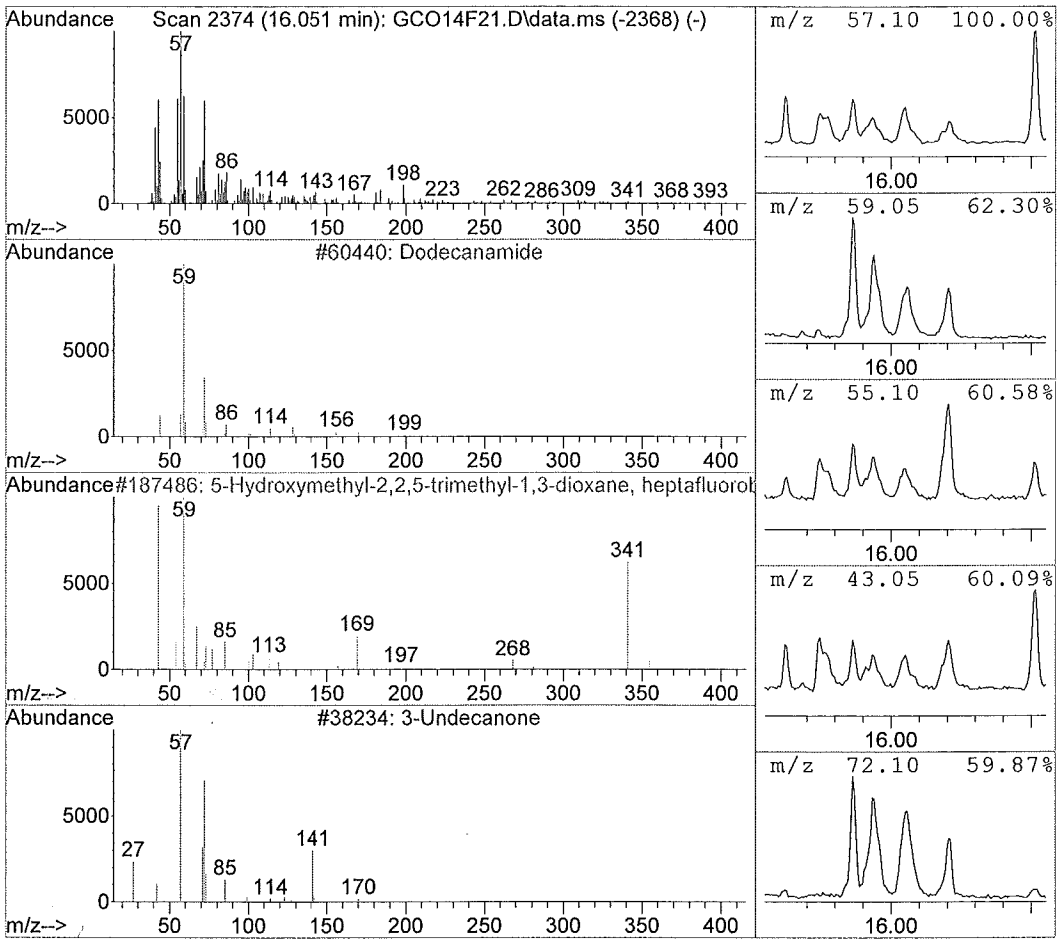
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.05	3.92 ug/ml	930869	Chrysene-d12	4743935

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60440	001120-16-7	35.00
2	5-Hydroxymethyl-2,2,5-trimethyl-1,3	187486	1000365-50-6	30.00
3	3-Undecanone	38234	002216-87-7	25.00
4	.alpha.-Methyl-.alpha.-[4-methylpen	39645	107358-56-5	25.00
5	2-Propanol, 1-[1-methyl-2-(2-propen	41679	055956-25-7	22.00



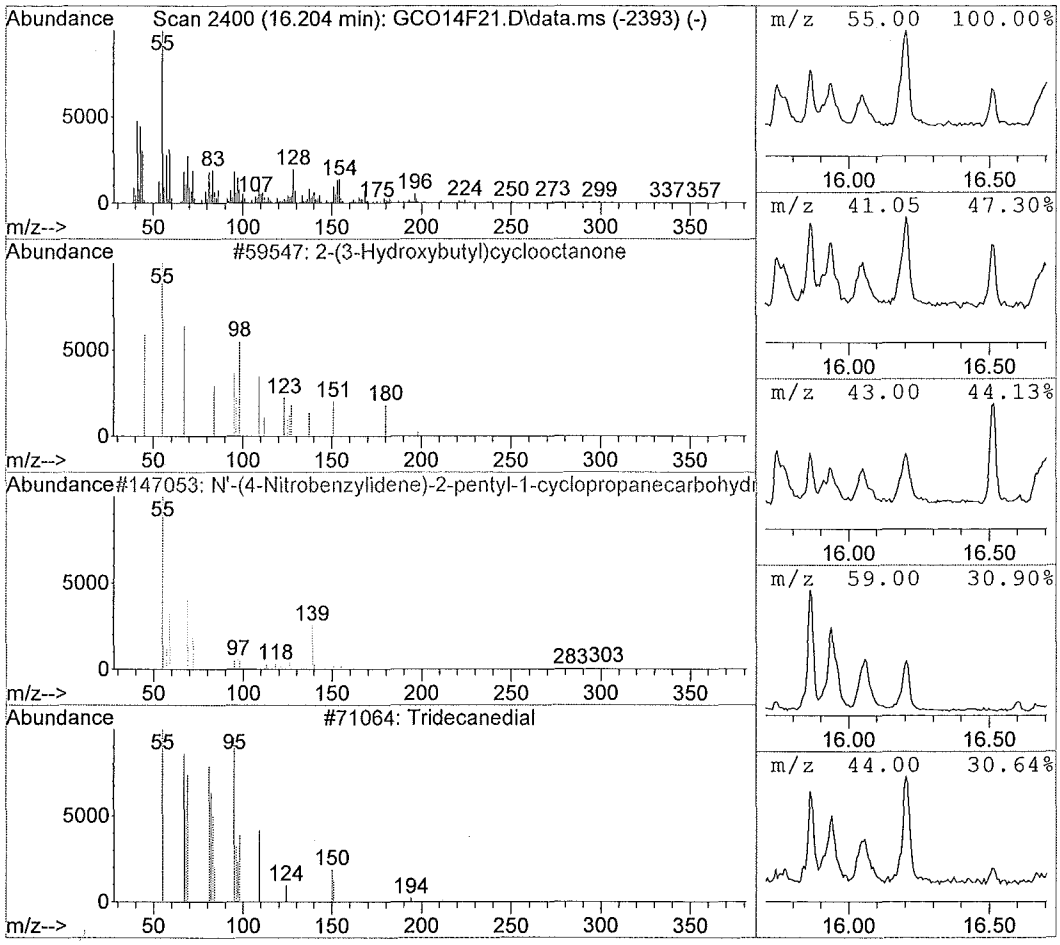
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.20	5.13 ug/ml	1216447	Chrysene-d12	4743935

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-(3-Hydroxybutyl)cyclooctanone	59547	110288-21-6	30.00
2	N'-(4-Nitrobenzylidene)-2-pentyl-1-	147053	339027-09-7	12.00
3	Tridecanedial	71064	063521-76-6	11.00
4	Cyclododecanone, 2-methyl-	58195	016837-94-8	11.00
5	6,7-Dioxabicyclo[3.2.2]nonane	12239	000283-35-2	11.00



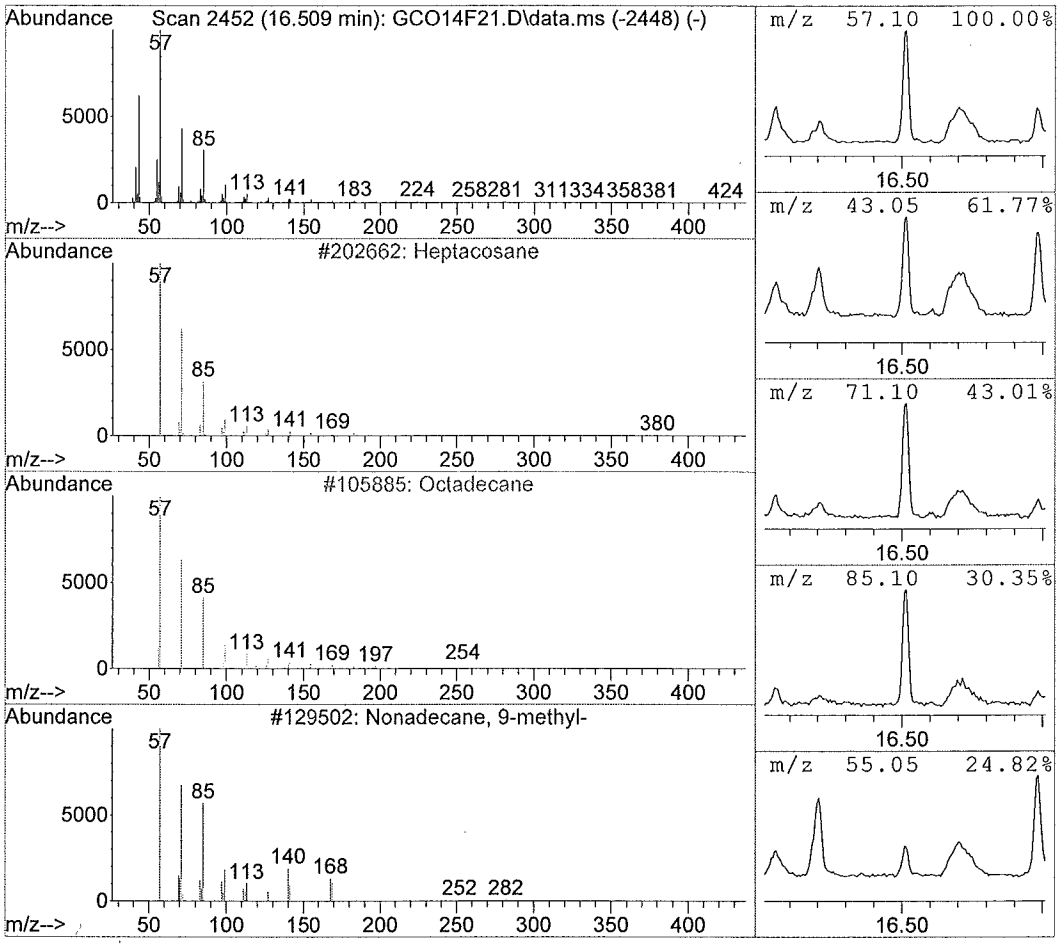
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.51	2.98 ug/ml	707770	Chrysene-d12	4743935

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane 54	202662	000593-49-7	99.00
2	Octadecane	105885	000593-45-3	94.00
3	Nonadecane, 9-methyl-	129502	013287-24-6	90.00
4	Hentriacontane	223851	000630-04-6	90.00
5	Heneicosane	141425	000629-94-7	87.00



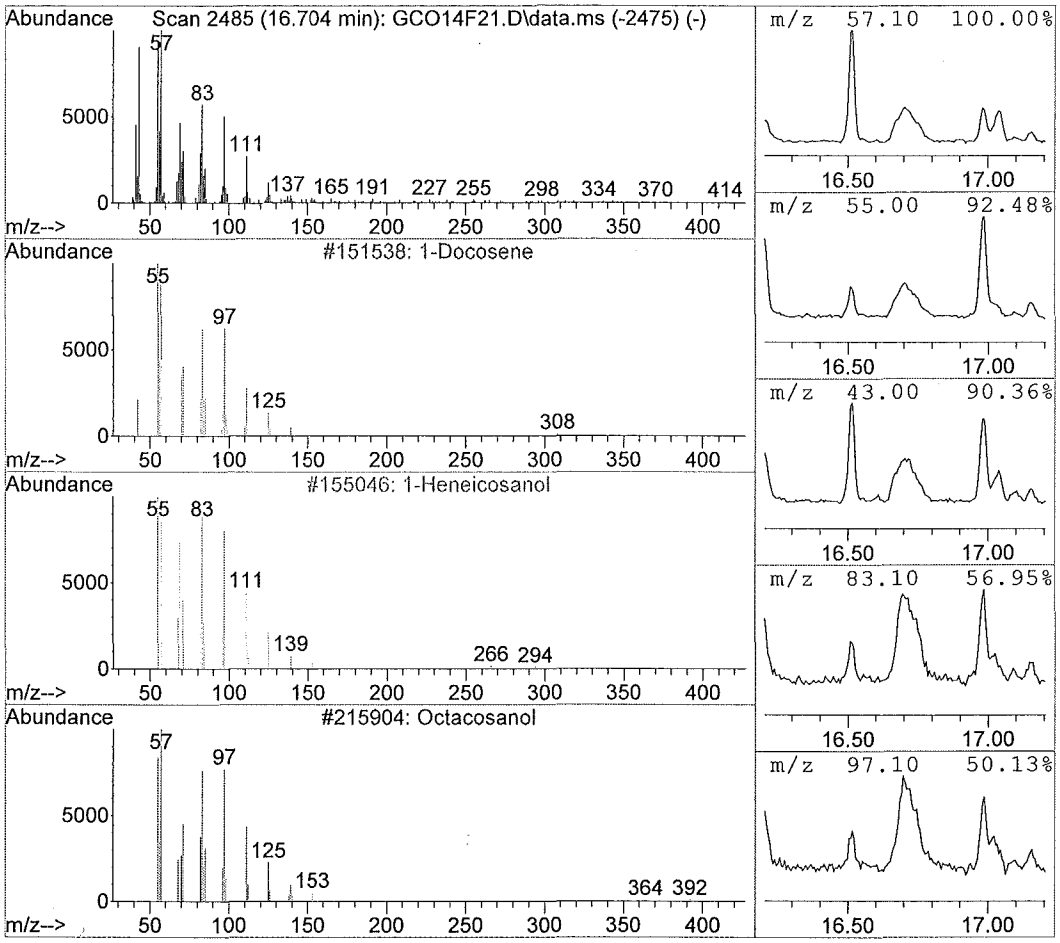
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.70	7.00 ug/ml	1660280	Chrysene-d12	4743935

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Docosene	151538	001599-67-3	99.00
2	1-Heneicosanol	155046	015594-90-8	93.00
3	Octacosanol	215904	000557-61-9	90.00
4	n-Tetracosanol-1	186968	000506-51-4	90.00
5	Cyclotetracosane	174179	000297-03-0	90.00



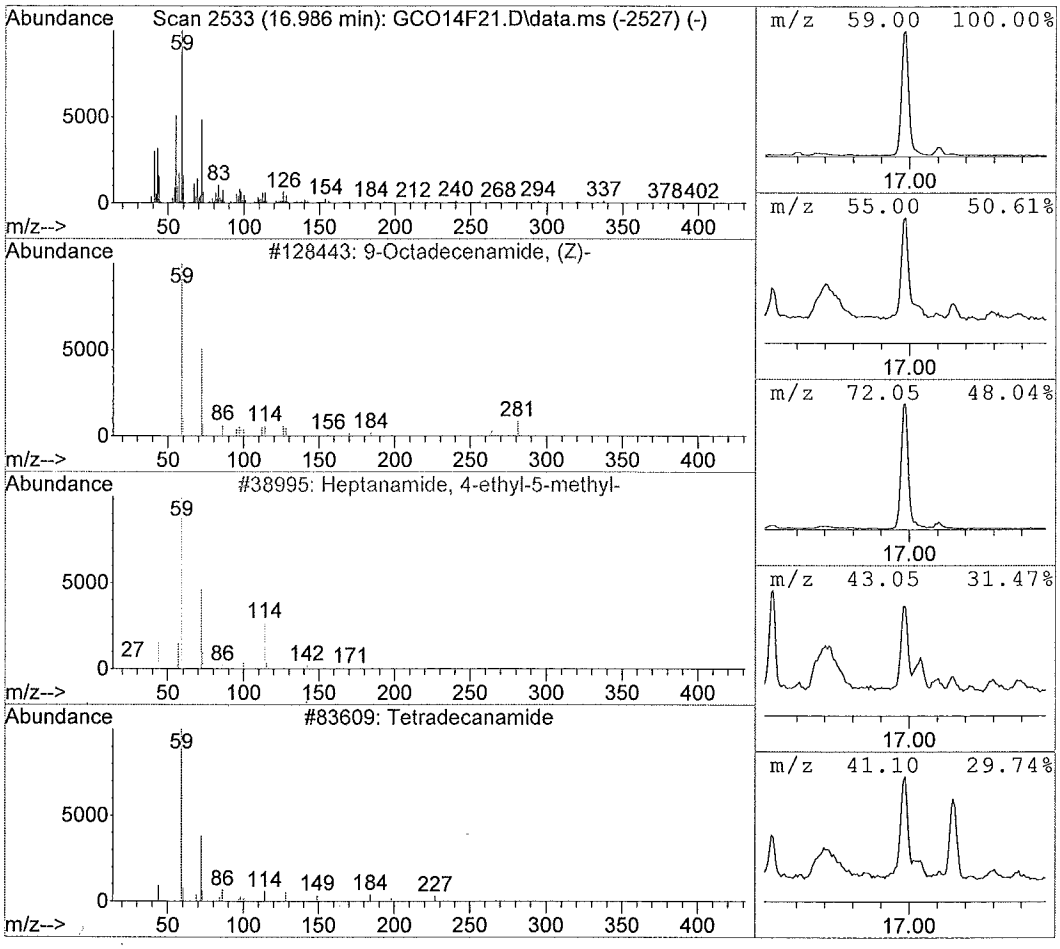
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.99	18.08 ug/ml	1815649	Perylene-d12	2008442

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128443	000301-02-0	83.00
2	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	72.00
3	Tetradecanamide	83609	000638-58-4	72.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
5	Octanamide	20317	000629-01-6	53.00



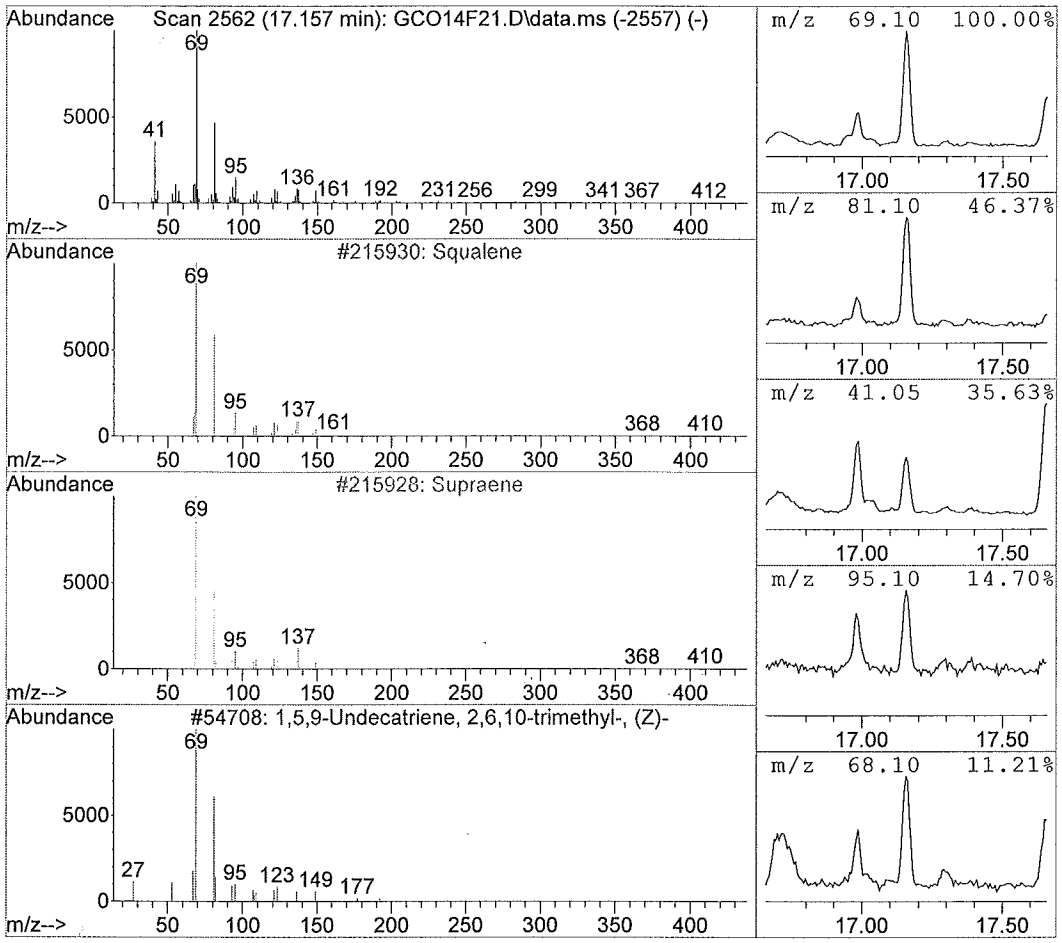
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.16	9.96 ug/ml	999959	Perylene-d12	2008442

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Squalene	215930	000111-02-4	91.00
2	Supraene	215928	007683-64-9	91.00
3	1,5,9-Undecatriene, 2,6,10-trimethy	54708	062951-96-6	86.00
4	3-Ethyl-1,5-octadiene	16879	1000114-87-7	53.00
5	2,6-Octadiene, 2,6-dimethyl-	16908	002792-39-4	53.00



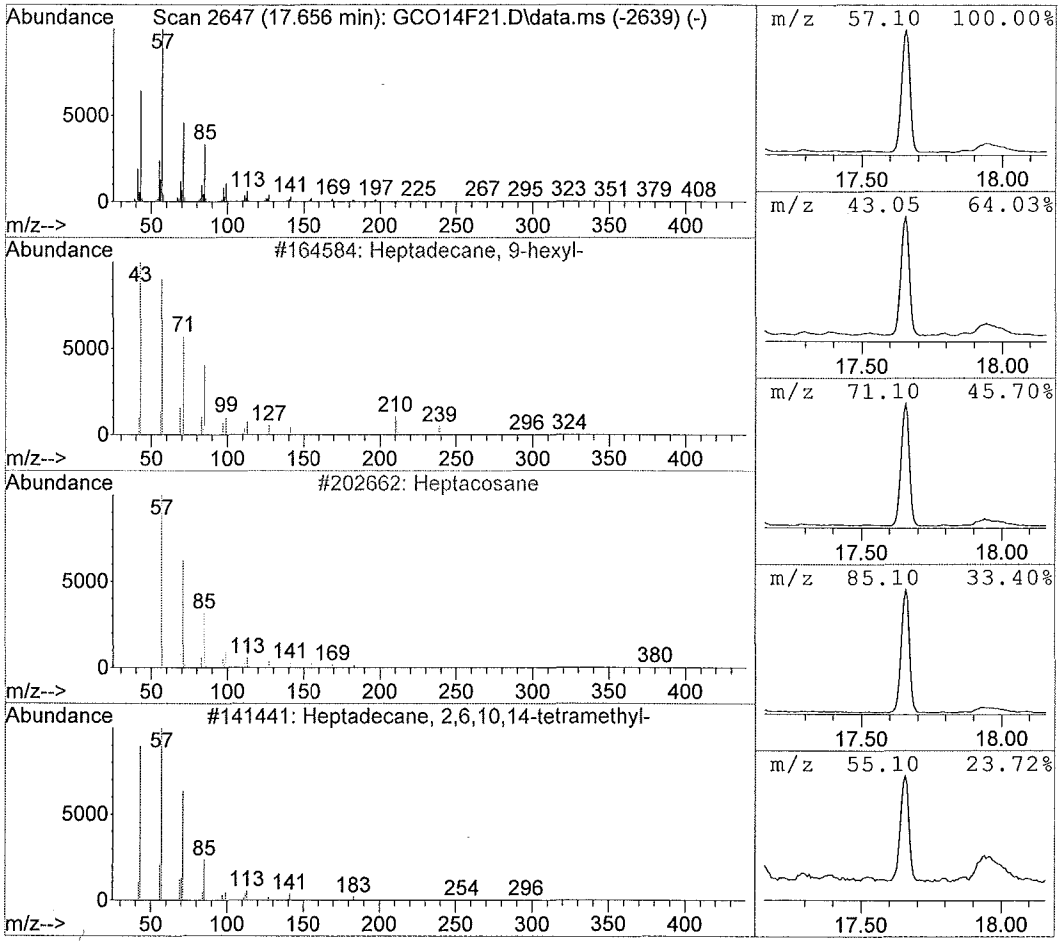
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.66	46.79 ug/ml	4699252	Perylene-d12	2008442

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane, 9-hexyl- BA	164584	055124-79-3	93.00
2	Heptacosane	202662	000593-49-7	91.00
3	Heptadecane, 2,6,10,14-tetramethyl-	141441	018344-37-1	91.00
4	Hexacosane	194494	000630-01-3	91.00
5	Hexadecane, 5-butyl-	129495	006912-07-8	90.00



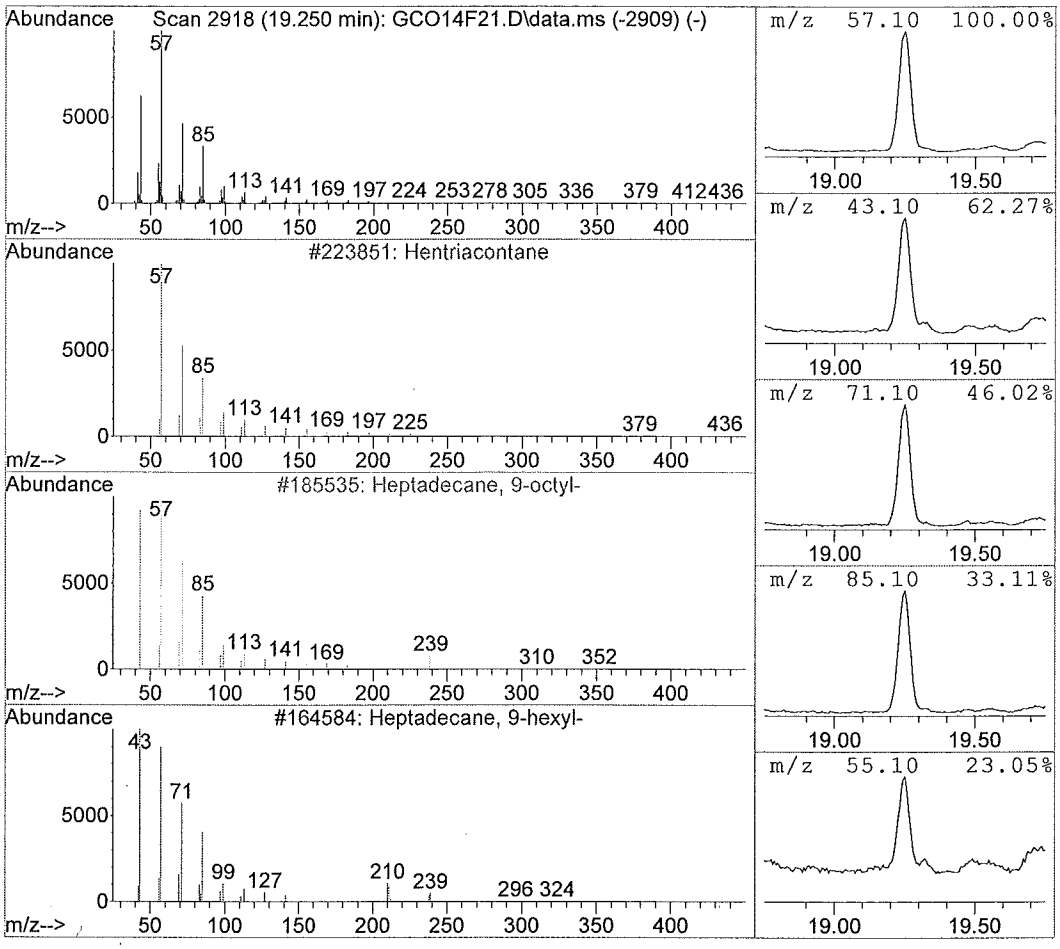
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.25	26.45 ug/ml	2656432	Perylene-d12	2008442

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hentriacontane 5A	223851	000630-04-6	97.00
2	Heptadecane, 9-octyl-	185535	007225-64-1	93.00
3	Heptadecane, 9-hexyl-	164584	055124-79-3	93.00
4	Hexatriacontane	235973	000630-06-8	91.00
5	Tetratetracontane	241528	007098-22-8	87.00



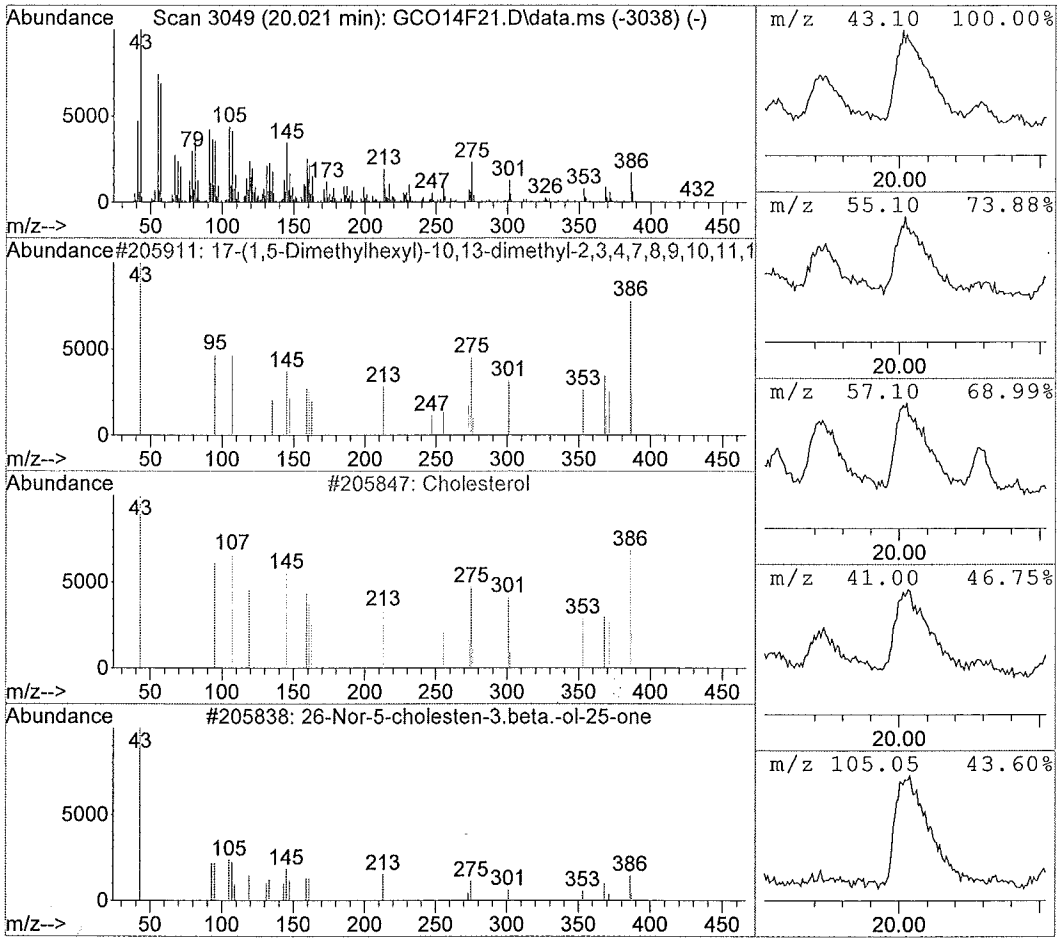
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
20.02	40.36 ug/ml	4053318	Perylene-d12	2008442

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	17-(1,5-Dimethylhexyl)-10,13-dimeth	205911	1000210-38-4	99.00
2	Cholesterol	205847	000057-88-5	99.00
3	26-Nor-5-cholesten-3.beta.-ol-25-on	205838	007494-34-0	93.00
4	Cholest-5-en-3-ol, (3.alpha.)-	205887	000474-77-1	74.00
5	4-Fluoro-1-ribofuranosylimidazole-5	135478	1000129-57-5	56.00



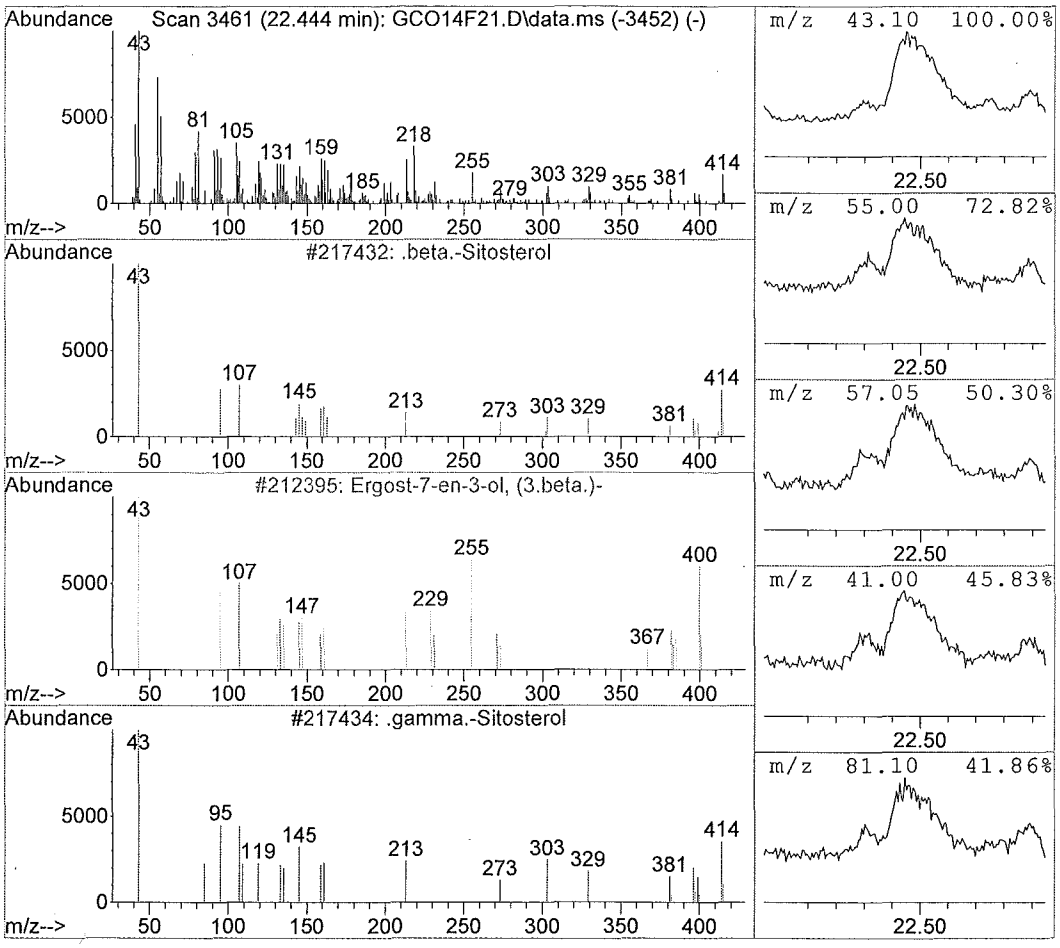
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
22.44	10.68 ug/ml	1072281	Perylene-d12	2008442

Hit# of 16	Tentative ID	Ref#	CAS#	Qual
1	.beta.-Sitosterol	217432	000083-46-5	52.00
2	Ergost-7-en-3-ol, (3.beta.)-	212395	026047-31-4	38.00
3	.gamma.-Sitosterol	217434	000083-47-6	25.00
4	2-Morpholino-4-[(3-nitrosalicyliden	217037	1000225-46-6	25.00
5	Campesterol	212387	000474-62-4	10.00



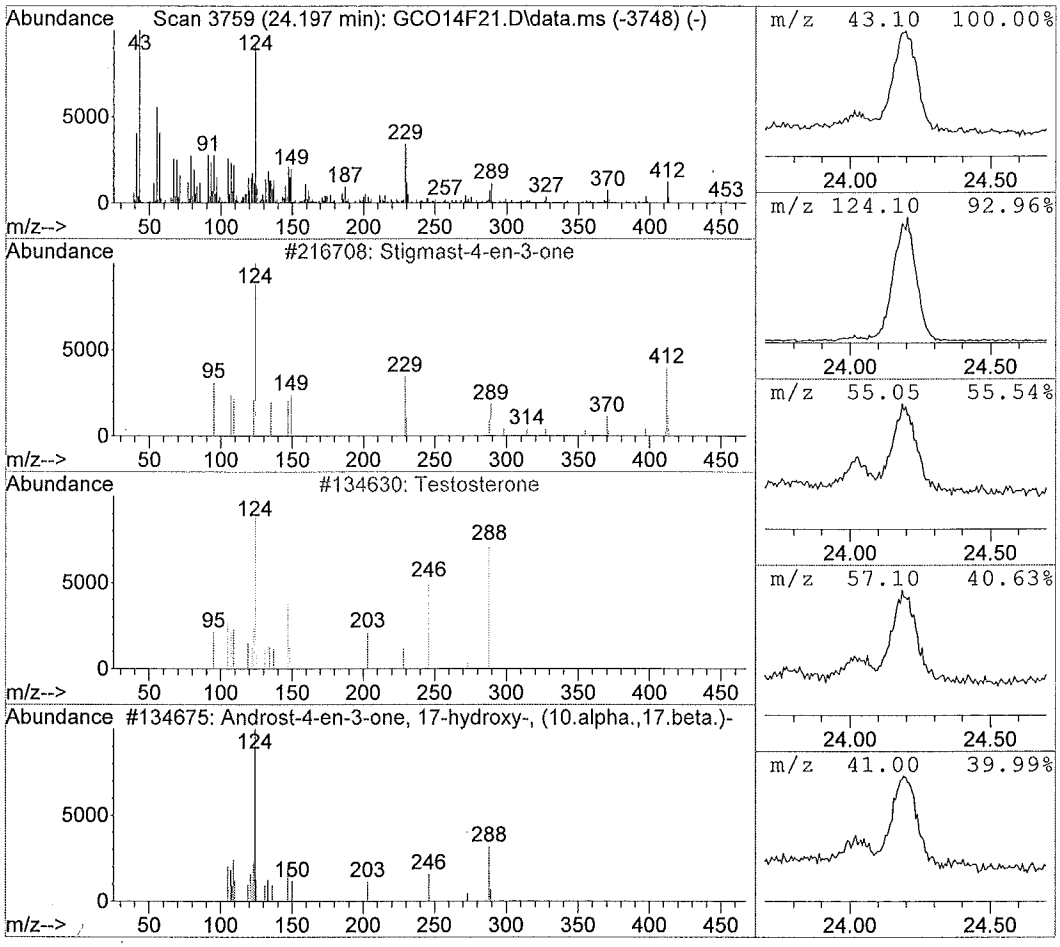
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO14F21.D Vial: 14
Acq On : 07/08/2015 15:20 Operator: TJM
Sample : 1515375021 F9M18 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.20	23.90 ug/ml	2400426	Perylene-d12	2008442

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	93.00
2	Testosterone	134630	000058-22-0	86.00
3	Androst-4-en-3-one, 17-hydroxy-, (1	134675	000604-39-7	60.00
4	2,3-Diaminophenol	10327	059649-56-8	45.00
5	1,4-Benzenediol, 2-methyl-	10430	000095-71-6	38.00



1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M19

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375022

Sample wt/vol: 30.5 (g/mL) g Lab File ID: GC015F22

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 26. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	230	U
108-95-2	Phenol	230	U
111-44-4	Bis(2-chloroethyl)ether	230	U
95-57-8	2-Chlorophenol	230	U
95-48-7	2-Methylphenol	230	U
108-60-1	2,2'-Oxybis(1-chloropropane)	230	U
98-86-2	Acetophenone	230	U
106-44-5	4-Methylphenol	230	U
621-64-7	N-Nitroso-di-n-propylamine	230	U
67-72-1	Hexachloroethane	230	U
98-95-3	Nitrobenzene	230	U
78-59-1	Isophorone	230	U
88-75-5	2-Nitrophenol	230	U
105-67-9	2,4-Dimethylphenol	230	U
111-91-1	Bis(2-chloroethoxy)methane	230	U
120-83-2	2,4-Dichlorophenol	230	U
91-20-3	Naphthalene	230	U
106-47-8	4-Chloroaniline	230	U
87-68-3	Hexachlorobutadiene	230	U
105-60-2	Caprolactam	230	U
59-50-7	4-Chloro-3-methylphenol	230	U
91-57-6	2-Methylnaphthalene	230	U
77-47-4	Hexachlorocyclopentadiene	230	U
88-06-2	2,4,6-Trichlorophenol	230	U
95-95-4	2,4,5-Trichlorophenol	230	U
92-52-4	1,1'-Biphenyl	230	U
91-58-7	2-Chloronaphthalene	230	U
88-74-4	2-Nitroaniline	440	U
131-11-3	Dimethylphthalate	230	U
606-20-2	2,6-Dinitrotoluene	230	U
208-96-8	Acenaphthylene	230	U
99-09-2	3-Nitroaniline	440	U
83-32-9	Acenaphthene	230	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M19

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375022

Sample wt/vol: 30.5 (g/mL) g Lab File ID: GC015F22

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 26. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	440	U
100-02-7	4-Nitrophenol	440	U
132-64-9	Dibenzofuran	230	U
121-14-2	2,4-Dinitrotoluene	230	U
84-66-2	Diethylphthalate	230	U
86-73-7	Fluorene	230	U
7005-72-3	4-Chlorophenyl-phenylether	230	U
100-01-6	4-Nitroaniline	440	U
534-52-1	4,6-Dinitro-2-methylphenol	440	U
86-30-6	N-Nitrosodiphenylamine[1]	230	U
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U
101-55-3	4-Bromophenyl-phenylether	230	U
118-74-1	Hexachlorobenzene	230	U
1912-24-9	Atrazine	230	U
87-86-5	Pentachlorophenol	440	U
85-01-8	Phenanthrene	230	U
120-12-7	Anthracene	230	U
86-74-8	Carbazole	230	U
84-74-2	Di-n-butylphthalate	230	U
206-44-0	Fluoranthene	230	U
129-00-0	Pyrene	230	U
85-68-7	Butylbenzylphthalate	230	U
91-94-1	3,3'-Dichlorobenzidine	230	U
56-55-3	Benzo(a)anthracene	230	U
218-01-9	Chrysene	230	U
117-81-7	Bis(2-ethylhexyl)phthalate	39.	J
117-84-0	Di-n-octylphthalate	230	U
205-99-2	Benzo(b)fluoranthene	230	U
207-08-9	Benzo(k)fluoranthene	230	U
50-32-8	Benzo(a)pyrene	230	U
193-39-5	Indeno(1,2,3-cd)pyrene	230	U
53-70-3	Dibenzo(a,h)anthracene	230	U
191-24-2	Benzo(g,h,i)perylene	230	U
58-90-2	2,3,4,6-Tetrachlorophenol	230	U

[1] Cannot be separated from Diphenylamine

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F9M19

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375022

Sample wt/vol: 30.5 (g/mL) g Lab File ID: GC015F22

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 26. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/08/2015

GPC Cleanup: (Y/N) Y pH: 7.5 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-	3.49	2200	JB
02		Unknown 1,2-Ethanediol, monoacetate	3.51	250	J
03		Unknown Butanoic acid, 3-hydroxy-, methyl ester	3.61	280	J
04		Unknown 1H-Pyrrole-2,5-dione	4.27	540	J
05		Unknown 4H-Imidazol-4-one, 2-amino-1,5-dihydro-	4.52	350	J
06		Unknown Oxalic acid, isohexyl pentyl ester	4.72	110	J
07		Unknown Thiophene, 2-methyl-	6.98	260	J
08	1000336-31-4	Methyl 13-methyltetradecanoate	11.31	200	JN
09		Unknown Methyl 9-methyltetradecanoate	11.37	100	J
10	1002-84-2	Pentadecanoic acid	11.57	110	JN
11	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.25	260	JN
12	1120-25-8	9-Hexadecenoic acid, methyl ester, (Z)-	12.33	280	JN
13	112-39-0	Hexadecanoic acid, methyl ester	12.40	350	JN
14	2416-20-8	Hexadecenoic acid, Z-11-	12.59	250	JN
15	57-10-3	n-Hexadecanoic acid	12.66	400	JN
16		Unknown Nonanoic acid, 9-oxo-, methyl ester	12.72	130	J
17	1120-16-7	Dodecanamide	12.77	130	JN
18		Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-met	13.00	190	J
19	112-63-0	9,12-Octadecadienoic acid (Z,Z)-, methyl ester	13.64	140	JN
20	1937-63-9	11-Octadecenoic acid, methyl ester, (Z)-	13.68	200	JN
21	1000333-61-3	trans-13-Octadecenoic acid, methyl ester	13.72	170	JN
22	1120-16-7	Dodecanamide	14.15	370	JN
23	301-02-0	9-Octadecenamide, (Z)-	15.08	2900	JNB
24	629-54-9	Hexadecanamide	15.17	150	JNB
25	90949-53-4	7-Nonenamide	15.94	140	JN
26		Unknown 1-Iodoundecane	16.04	120	J
27	74685-33-9	3-Eicosene, (E)-	16.69	160	JN
28	111-02-4	Squalene	17.16	360	JN
29		Unknown D-Homoestra-1,3,5(10),15-tetraen-17a-one	18.61	240	J
30		Unknown Stigmast-4-en-3-one	24.19	760	J
	E966796[2]	Total Alkanes	N/A	6000	J

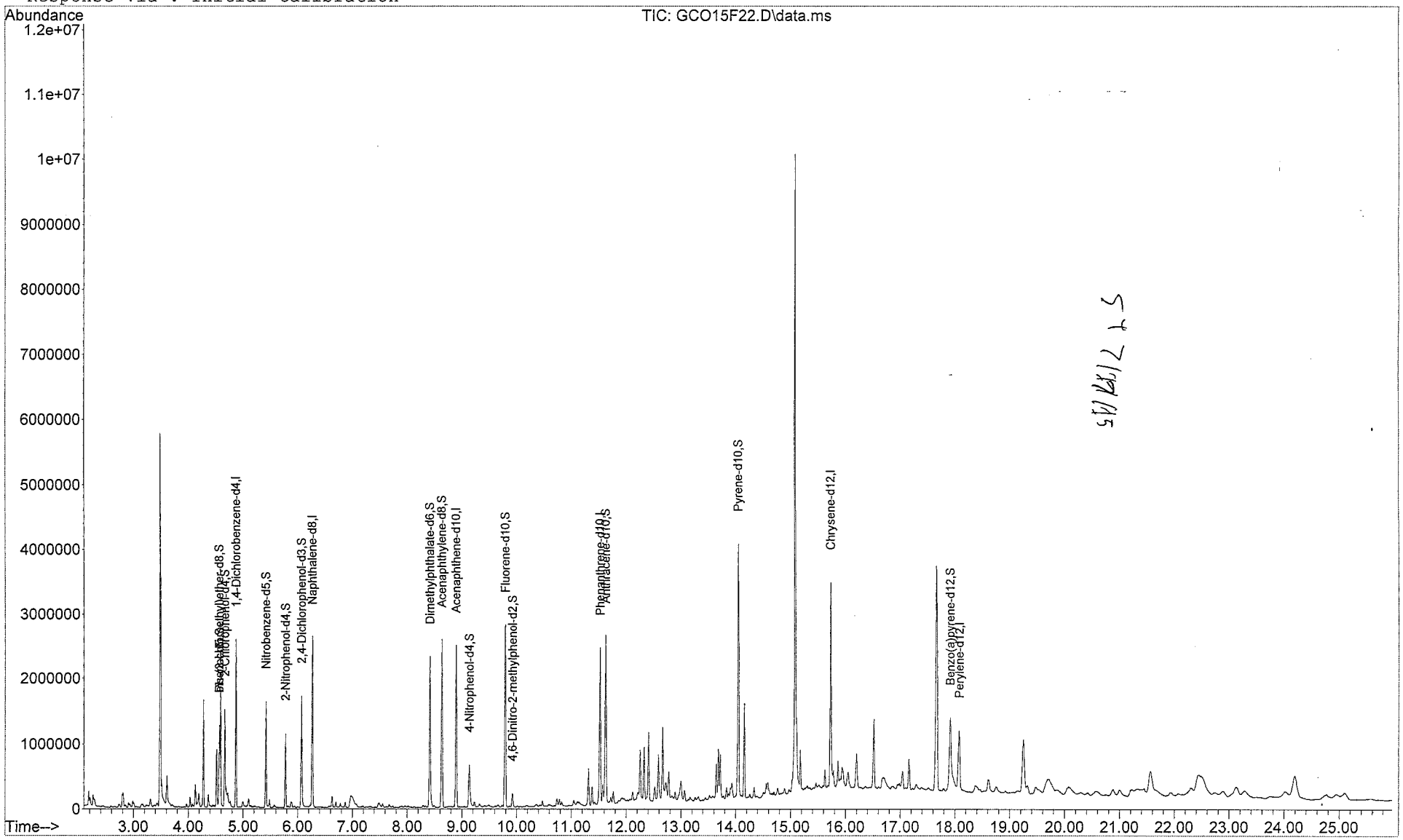
[2] EPA-designated Registry Number.

Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 08:19:06 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GC015F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 08:19:06 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	346531	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1303843	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	778078	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1314479	20.00 ug/ml
73) Chrysene-d12	15.73	240	1183685	20.00 ug/ml
81) Perylene-d12	18.07	264	650379	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.56	99	346416	11.488ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	282798	12.034ug/mL
7) 2-Chlorophenol-d4	4.66	132	362619	14.242ug/ml
13) 4-Methylphenol-d8	5.21	113	4715	0.234ug/mL
17) Nitrobenzene-d5	5.42	128	184063	16.070ug/ml
21) 2-Nitrophenol-d4	5.77	143	173405	14.323ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	369812	19.617ug/mL
28) 4-Chloroaniline-d4	6.35	131	5216	0.253ug/mL
42) Dimethylphthalate-d6	8.42	166	1191317	24.417ug/mL
45) Acenaphthylene-d8	8.63	160	1467980	22.140ug/mL
50) 4-Nitrophenol-d4	9.13	143	152898	15.361ug/mL
57) Fluorene-d10	9.79	176	1067143	25.611ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	33223	3.561ug/mL
69) Anthracene-d10	11.62	188	1510626	21.671ug/mL
75) Pyrene-d10	14.04	212	1536388	26.009ug/mL
86) Benzo(a)pyrene-d12	17.91	264	593987	19.060ug/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)

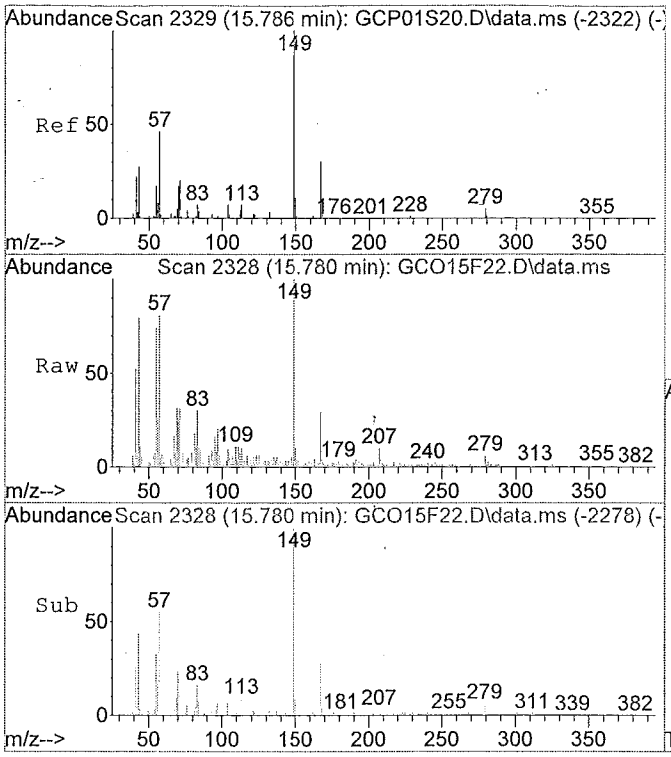
Quantitation Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GC015F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 08:19:06 2015 Results File: GSOM01D6.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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	15.78	149	51659	0.883ug/ml	98
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	

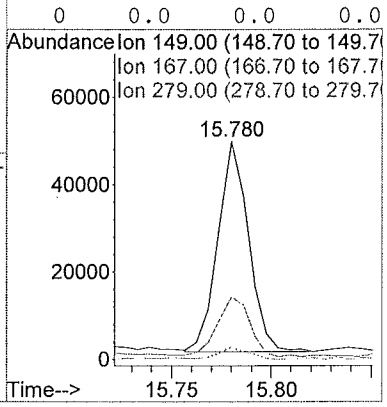
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)



#80
Bis-(2-ethylhexyl)phthalate
Concen: 0.88 ug/ml
RT: 15.78 min Scan# 2328
Delta R.T. -0.01 min
Lab File: GCO15F22.D
Acq: 07/08/2015 15:54

Tgt Ion:149 Resp: 51659

Ion	Ratio	Lower	Upper
149	100		
167	30.5	22.0	40.8
279	5.3	5.0	9.2
0	0.0	0.0	0.0



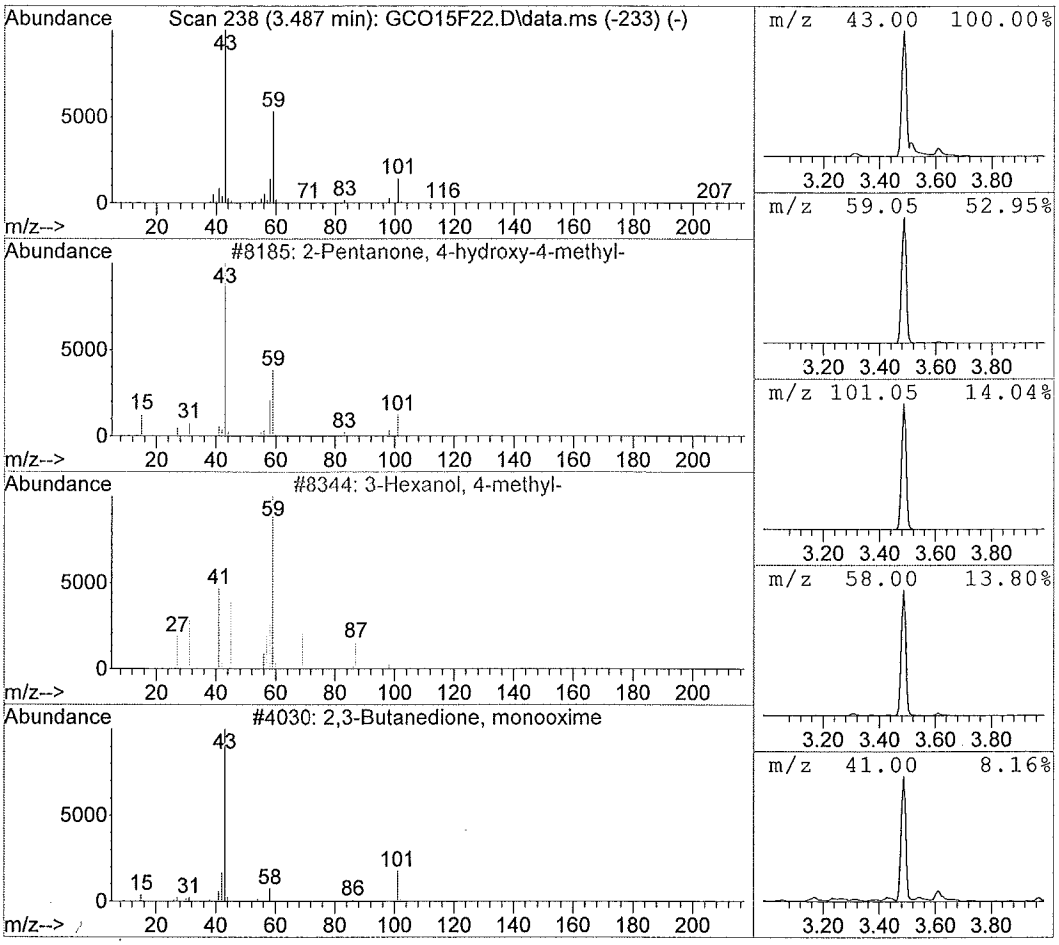
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.49	50.93 ug/ml	6320714	1,4-Dichlorobenzene-d4	2482250

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	8185	000123-42-2	50.00
2	3-Hexanol, 4-methyl-	8344	000615-29-2	33.00
3	2,3-Butanedione, monooxime	4030	000057-71-6	9.00
4	Propanoic acid, 2-nitro-, methyl es	14600	006118-50-9	9.00
5	3-Hexanol, 4-ethyl-	13663	019780-44-0	9.00



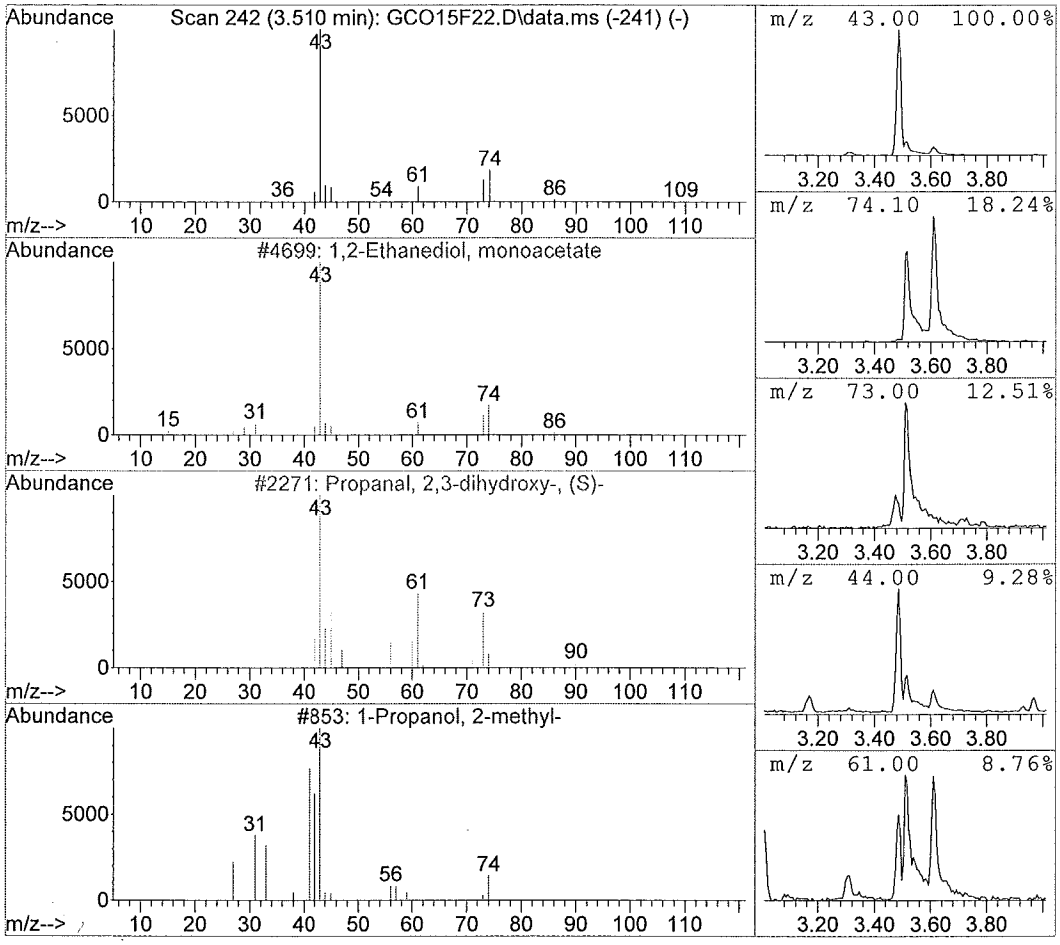
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.51	5.77 ug/ml	715510	1,4-Dichlorobenzene-d4	2482250

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol, monoacetate	4699	000542-59-6	72.00
2	Propanal, 2,3-dihydroxy-, (S)-	2271	000497-09-6	9.00
3	1-Propanol, 2-methyl-	853	000078-83-1	7.00
4	Urea, methyl-	771	000598-50-5	5.00
5	1-Propanamine, N-nitro-	4644	000627-07-6	5.00



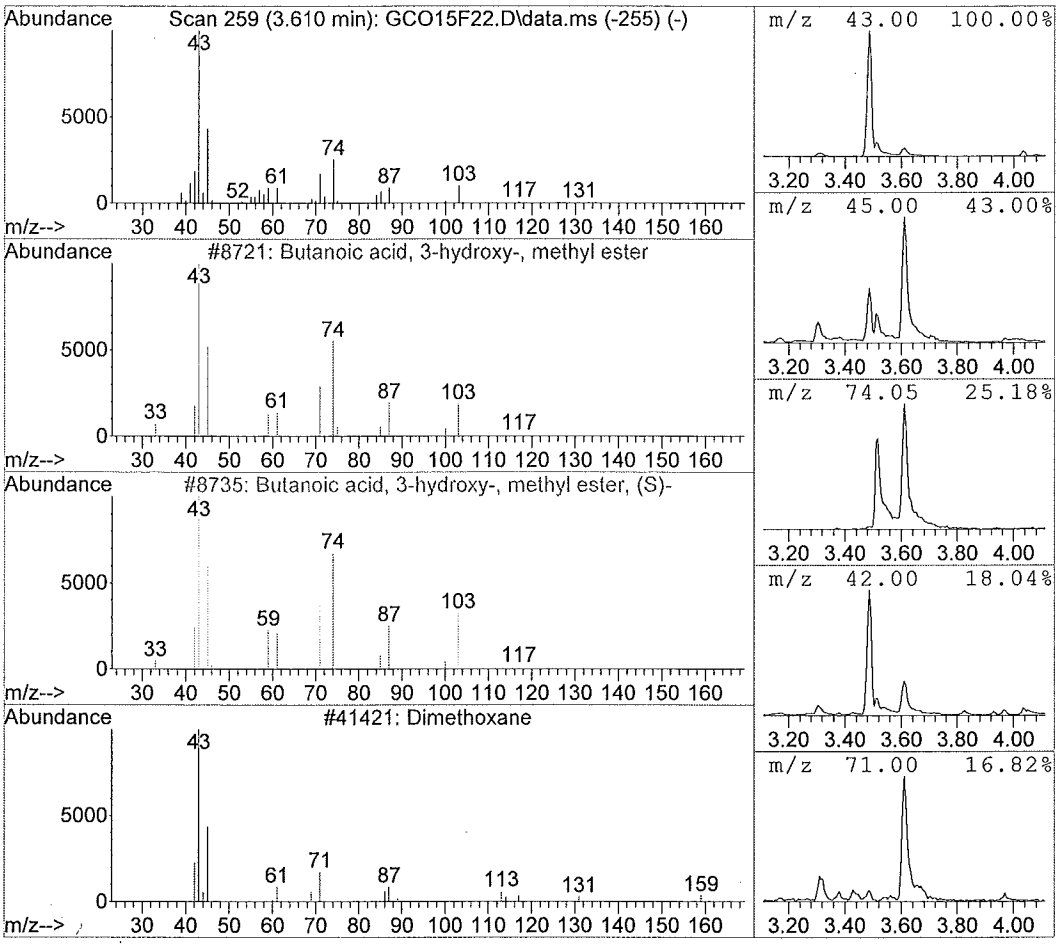
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.61	6.32 ug/ml	784653	1,4-Dichlorobenzene-d4	2482250

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butanoic acid, 3-hydroxy-, methyl e	8721	001487-49-6	56.00
2	Butanoic acid, 3-hydroxy-, methyl e	8735	053562-86-0	50.00
3	Dimethoxane	41421	000828-00-2	43.00
4	(R)-(-)-Methyl 3-hydroxybutyrate	8707	003976-69-0	38.00
5	2-Propanone, 1-(1,3-dioxolan-2-yl)-	13270	000767-04-4	32.00



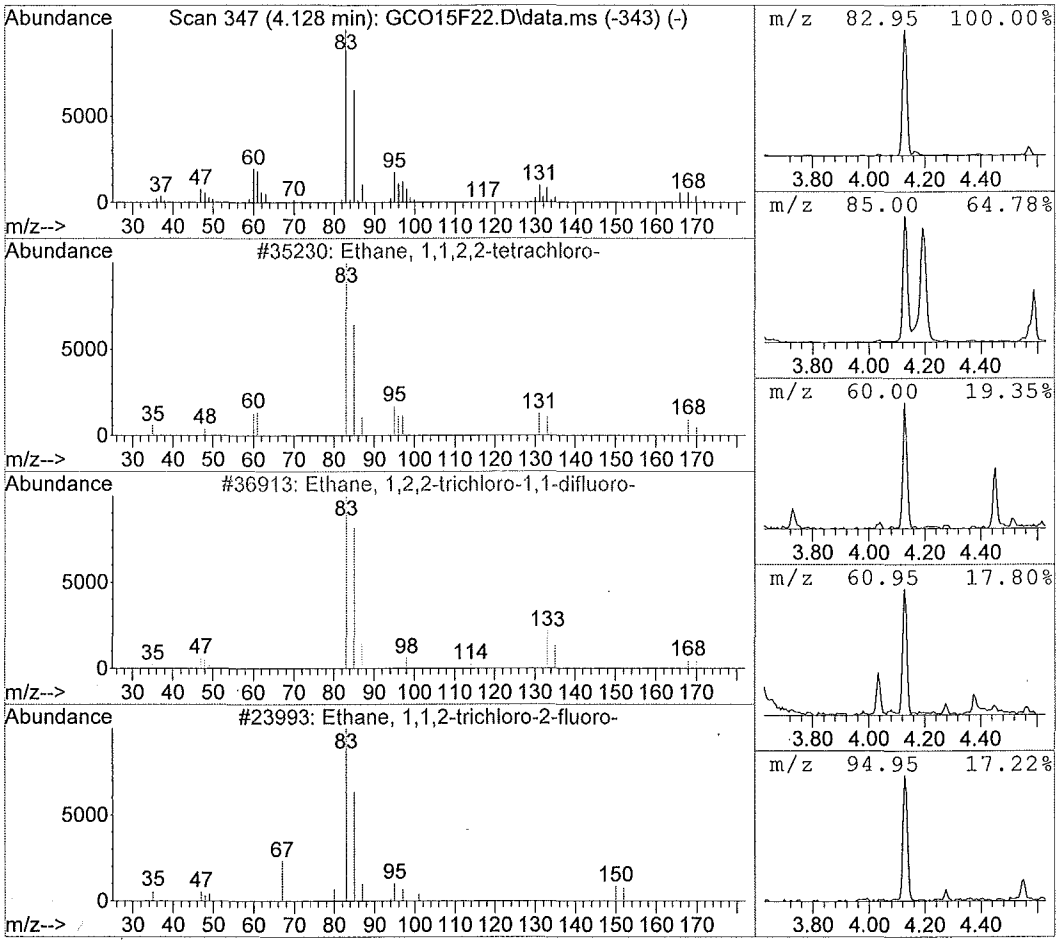
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.13	3.16 ug/ml	392325	1,4-Dichlorobenzene-d4	2482250

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro- VOA	35230	000079-34-5	96.00
2	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	64.00
3	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	45.00
4	Ethane, 2,2-dichloro-1,1,1-trifluor	25465	000306-83-2	40.00
5	Methane, oxybis[dichloro-	47352	020524-86-1	40.00



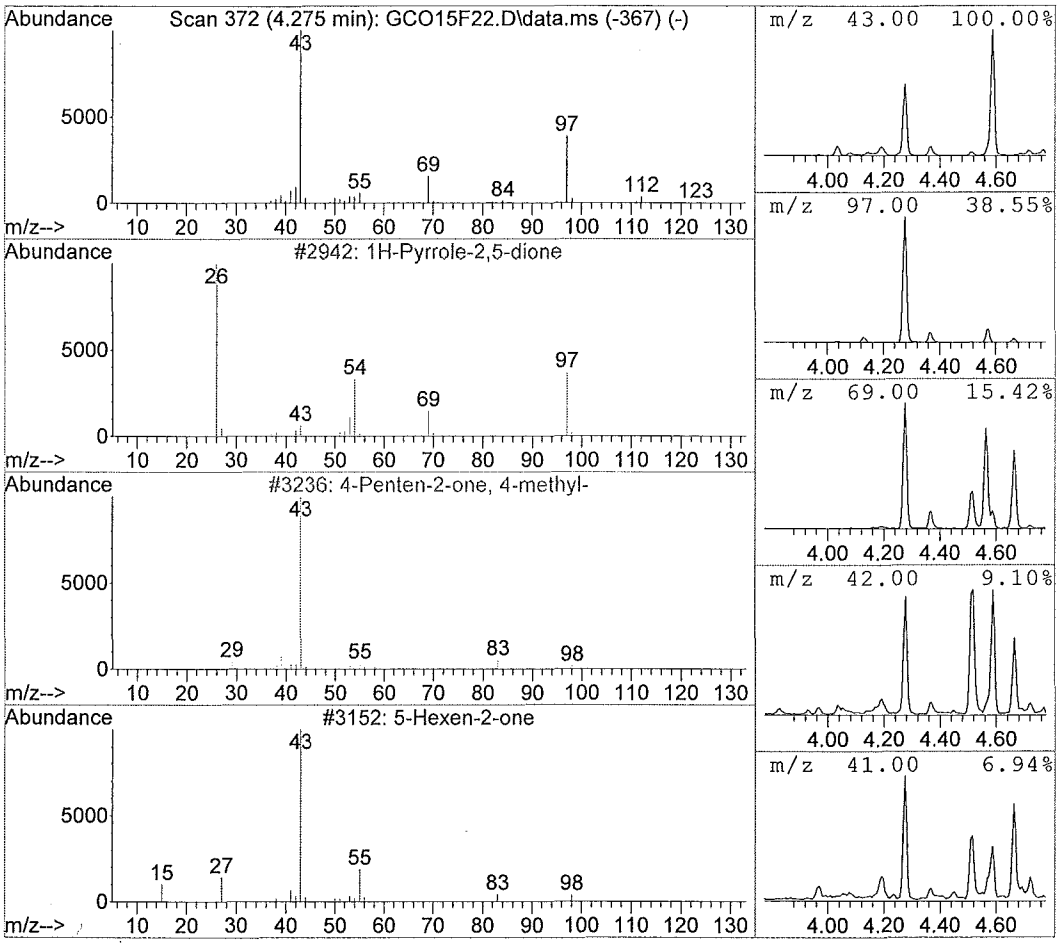
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.27	12.15 ug/ml	1507501	1,4-Dichlorobenzene-d4	2482250

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Pyrrole-2,5-dione	2942	000541-59-3	38.00
2	4-Penten-2-one, 4-methyl-	3236	003744-02-3	9.00
3	5-Hexen-2-one	3152	000109-49-9	9.00
4	2-Propyn-1-ol, acetate	3098	000627-09-8	5.00
5	5-Hexen-2-one, 5-methyl-	6517	003240-09-3	5.00



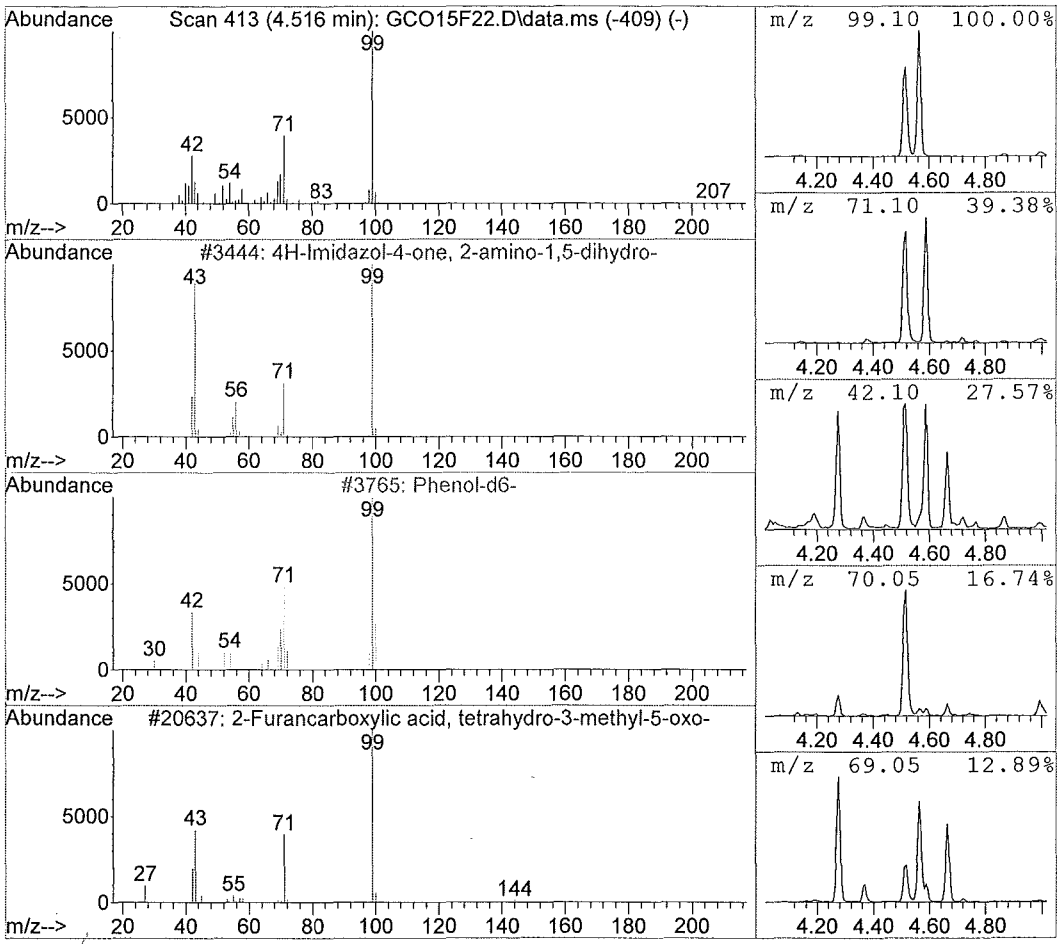
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.52	7.82 ug/ml	970907	1,4-Dichlorobenzene-d4	2482250

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4H-Imidazol-4-one, 2-amino-1,5-dihy	3444	000503-86-6	64.00
2	Phenol-d6-	3765	013127-88-3	56.00
3	2-Furancarboxylic acid, tetrahydro-	20637	022073-04-7	50.00
4	3,5-Diamino-1,2,4-triazole	3431	001455-77-2	47.00
5	2-Piperidinone	3481	000675-20-7	47.00



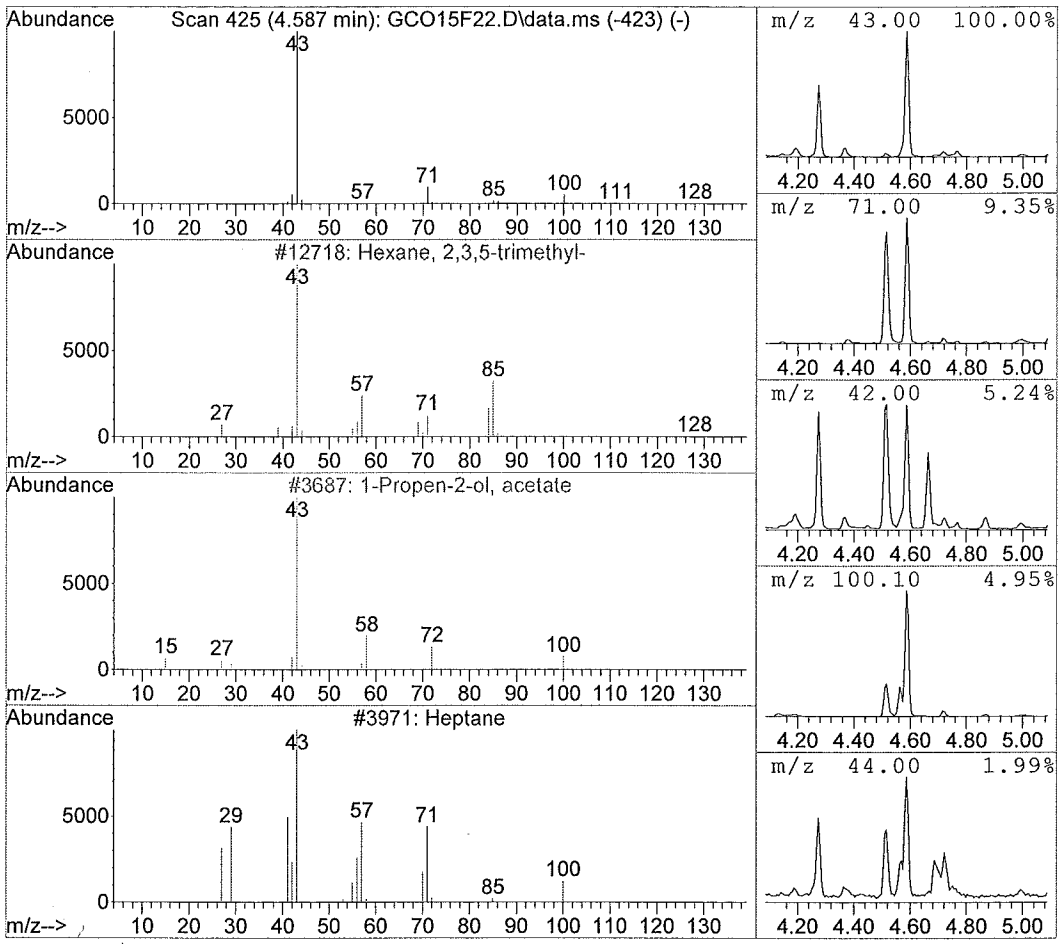
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.59	12.28 ug/ml	1523919	1,4-Dichlorobenzene-d4	2482250

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,3,5-trimethyl- BA	12718	001069-53-0	7.00
2	1-Propen-2-ol, acetate	3687	000108-22-5	5.00
3	Heptane	3971	000142-82-5	5.00
4	Pentane, 1,3-epoxy-4-methyl-	3928	015045-60-0	4.00
5	Pentane, 2-methyl-	1823	000107-83-5	4.00



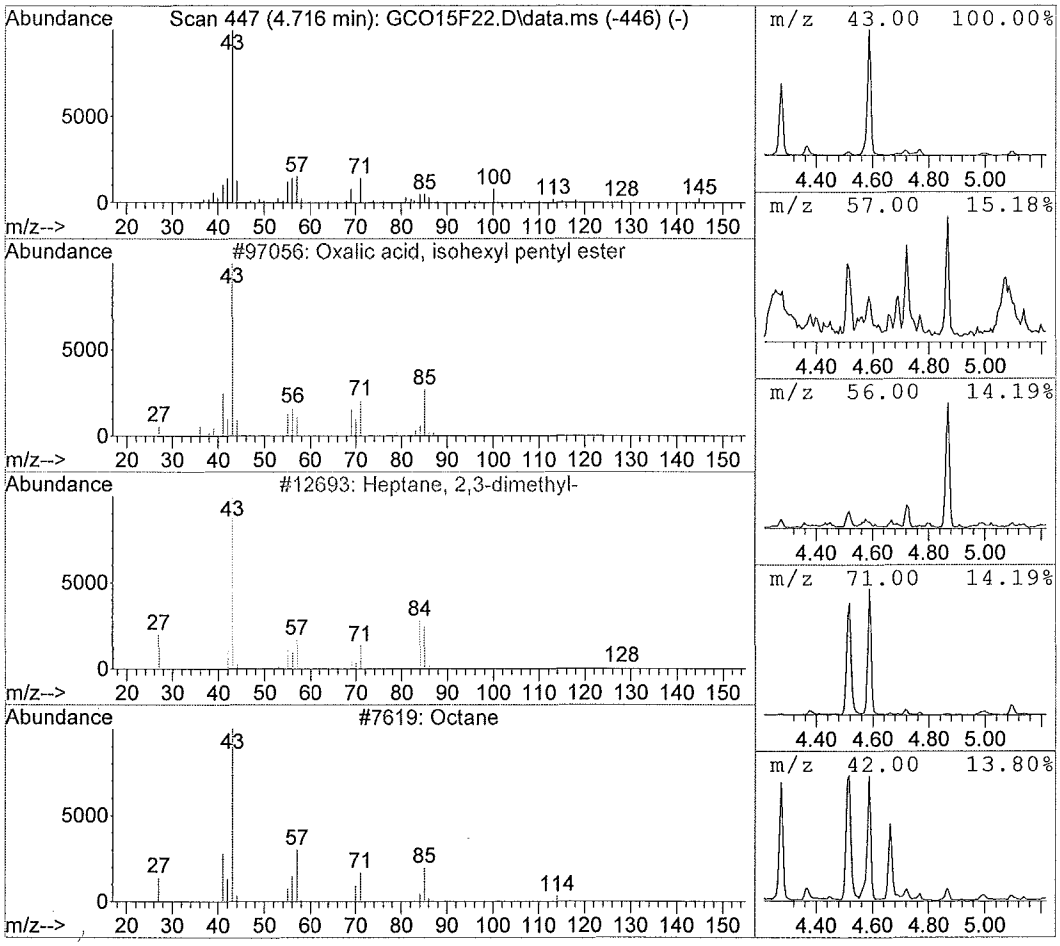
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.72	2.56 ug/ml	317449	1,4-Dichlorobenzene-d4	2482250

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Oxalic acid, isohexyl pentyl ester	97056	1000309-32-8	56.00
2	Heptane, 2,3-dimethyl-	12693	003074-71-3	53.00
3	Octane	7619	000111-65-9	50.00
4	2-Pentanone, 3-methyl-	3859	000565-61-7	47.00
5	Octane, 4-methyl-	12674	002216-34-4	45.00



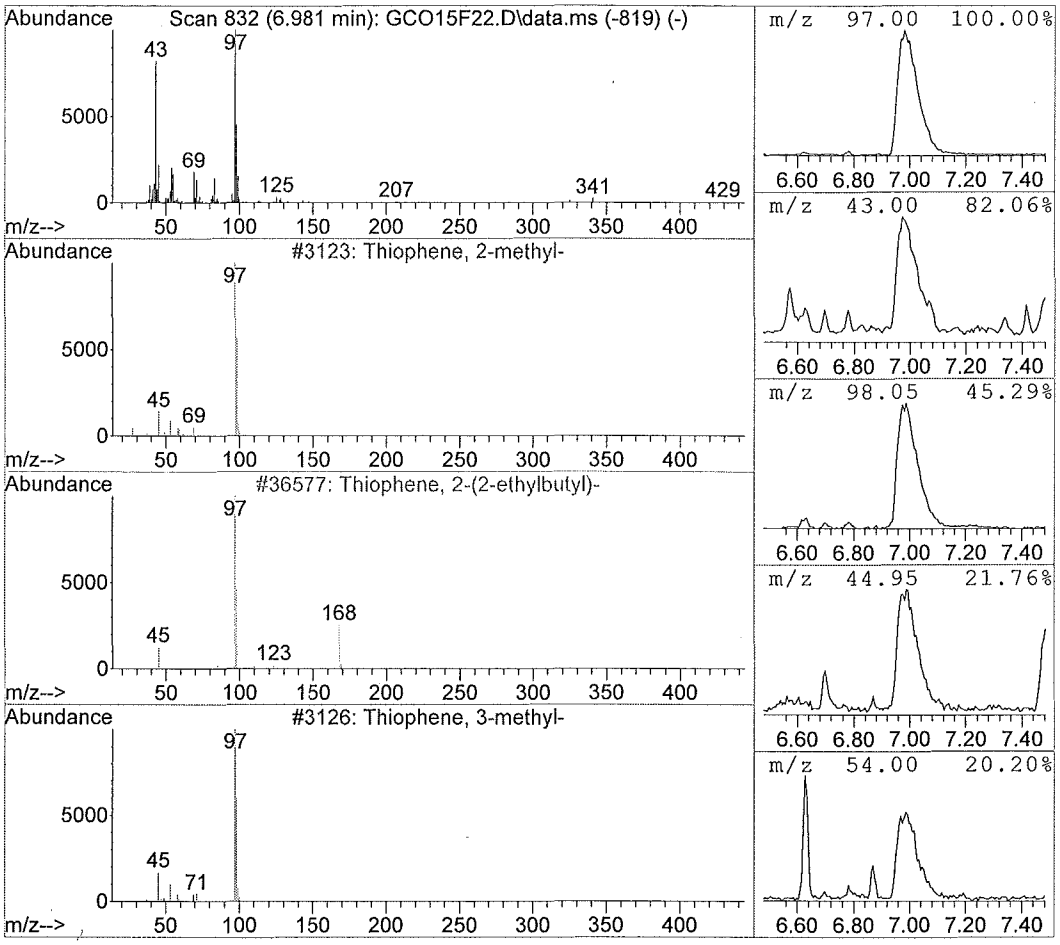
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.98	5.90 ug/ml	895836	Naphthalene-d8	3036384

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Thiophene, 2-methyl-	3123	000554-14-3	53.00
2	Thiophene, 2-(2-ethylbutyl)-	36577	005682-00-8	45.00
3	Thiophene, 3-methyl-	3126	000616-44-4	42.00
4	Oxalic acid, cyclohexylmethyl propy	84076	1000309-68-1	37.00
5	4-Methyl-2-pyrazolin-5-one	3041	013315-23-6	37.00



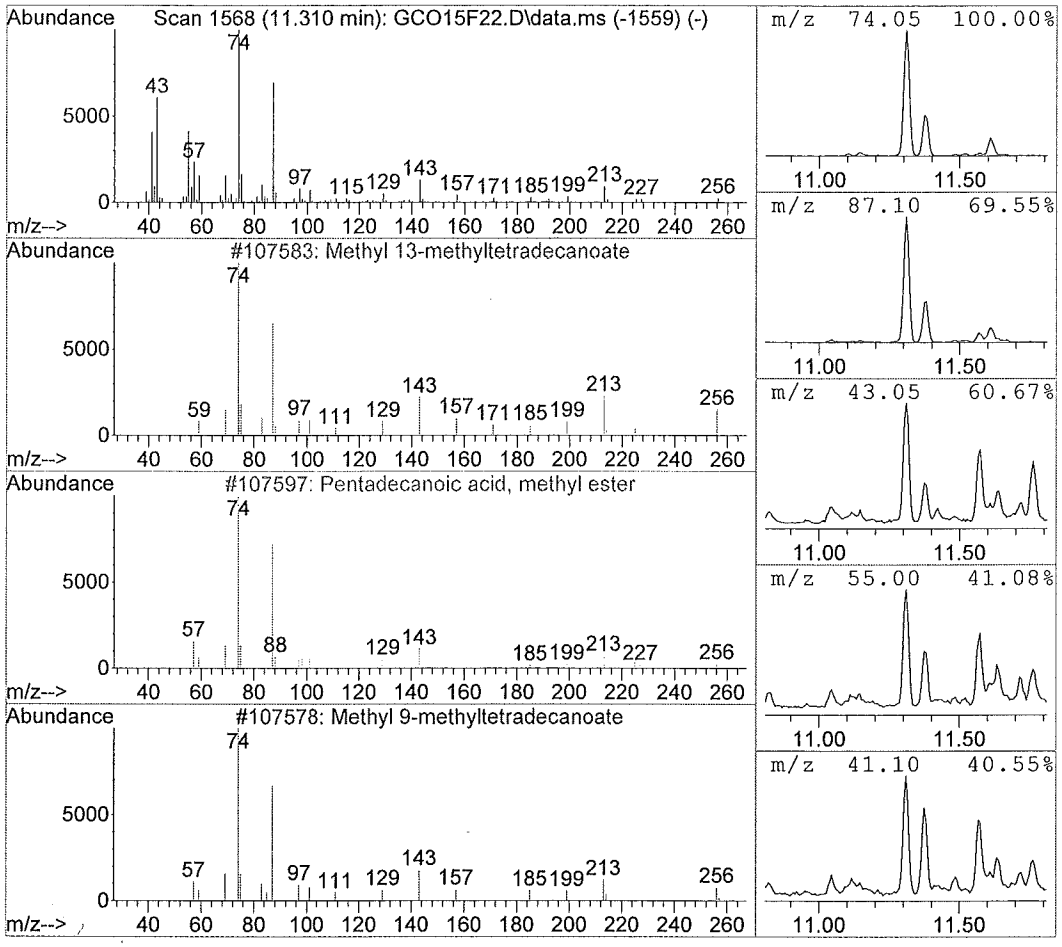
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.31	4.43 ug/ml	805142	Phenanthrene-d10	3634061

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 13-methyltetradecanoate	107583	1000336-31-4	95.00
2	Pentadecanoic acid, methyl ester	107597	007132-64-1	93.00
3	Methyl 9-methyltetradecanoate	107578	213617-69-7	91.00
4	Tridecanoic acid, methyl ester	84483	001731-88-0	87.00
5	Tridecanoic acid, 12-methyl-, methy	95898	005129-58-8	86.00



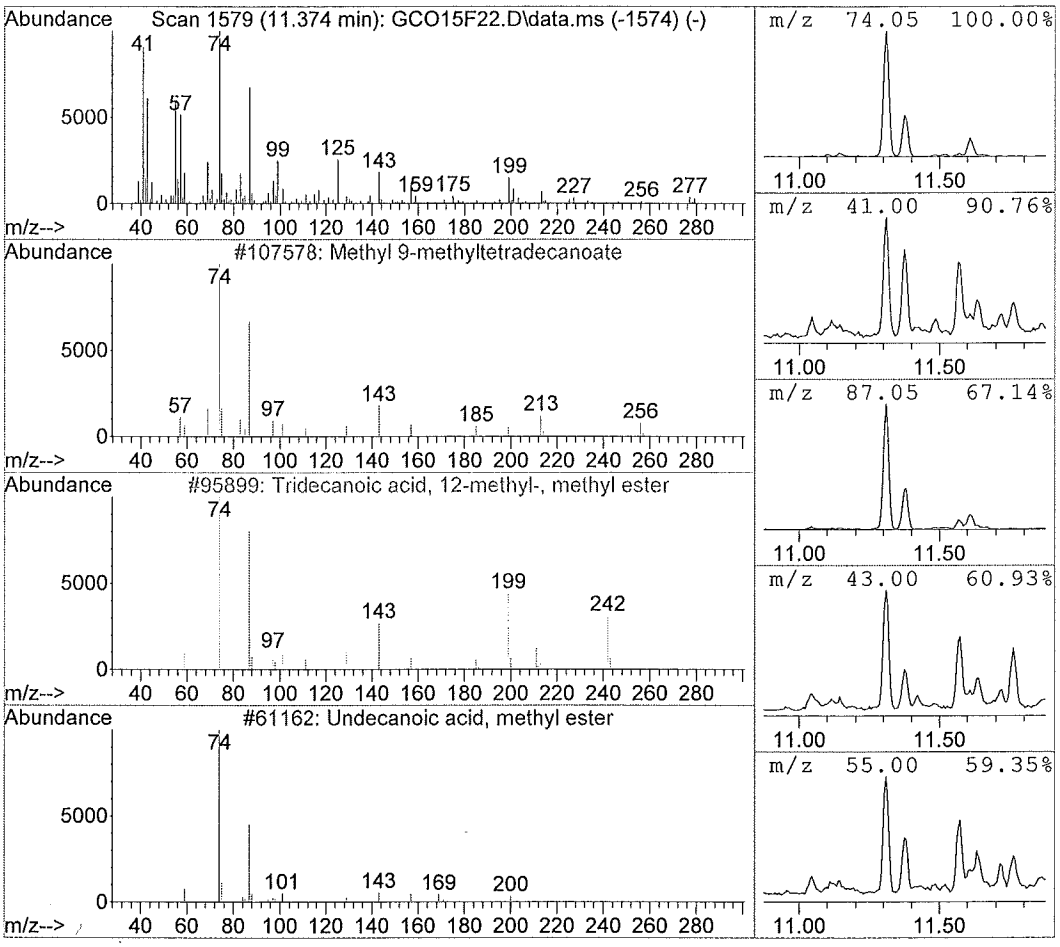
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.37	2.30 ug/ml	417574	Phenanthrene-d10	3634061

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Methyl 9-methyltetradecanoate	107578	213617-69-7	62.00
2	Tridecanoic acid, 12-methyl-, methy	95899	005129-58-8	59.00
3	Undecanoic acid, methyl ester	61162	001731-86-8	58.00
4	Methyl tetradecanoate	95859	000124-10-7	53.00
5	Decanoic acid, methyl ester	50098	000110-42-9	50.00



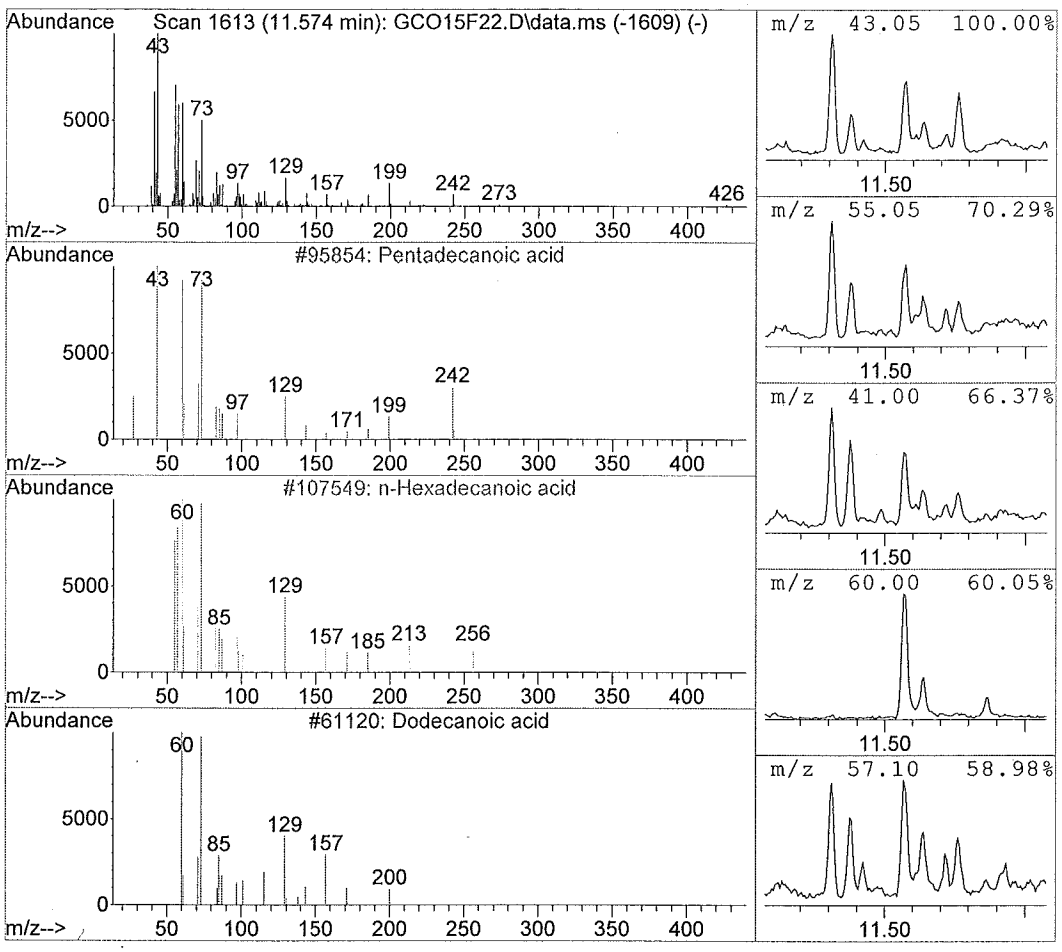
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.57	2.55 ug/ml	462932	Phenanthrene-d10	3634061

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecanoic acid	95854	001002-84-2	86.00
2	n-Hexadecanoic acid	107549	000057-10-3	80.00
3	Dodecanoic acid	61120	000143-07-7	70.00
4	Undecanoic acid	50052	000112-37-8	64.00
5	Octanoic acid	20840	000124-07-2	43.00



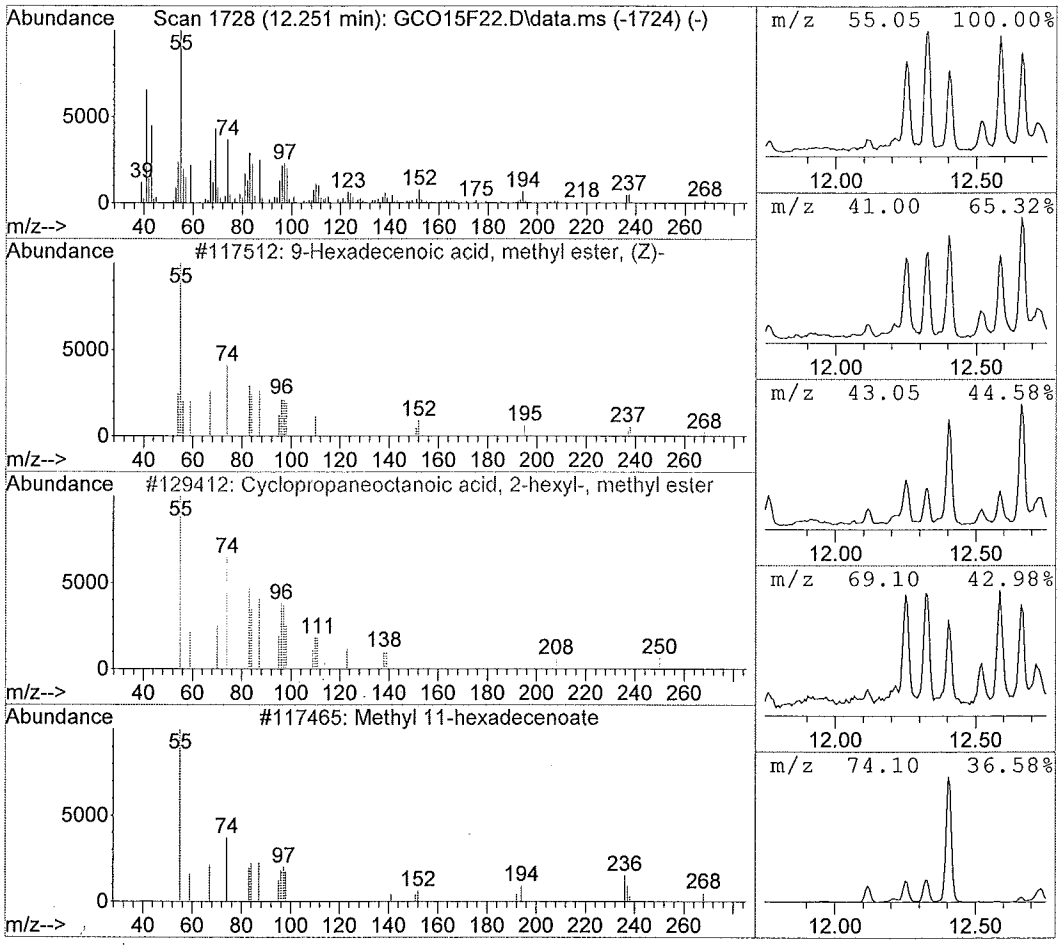
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.25	5.90 ug/ml	1072950	Phenanthrene-d10	3634061

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117512	001120-25-8	87.00
2	Cyclopropaneoctanoic acid, 2-hexyl-	129412	010152-61-1	74.00
3	Methyl 11-hexadecenoate	117465	1000336-35-5	72.00
4	9-Octadecenoic acid (Z)-, methyl es	141303	000112-62-9	68.00
5	Myristoleic acid	82760	000544-64-9	49.00



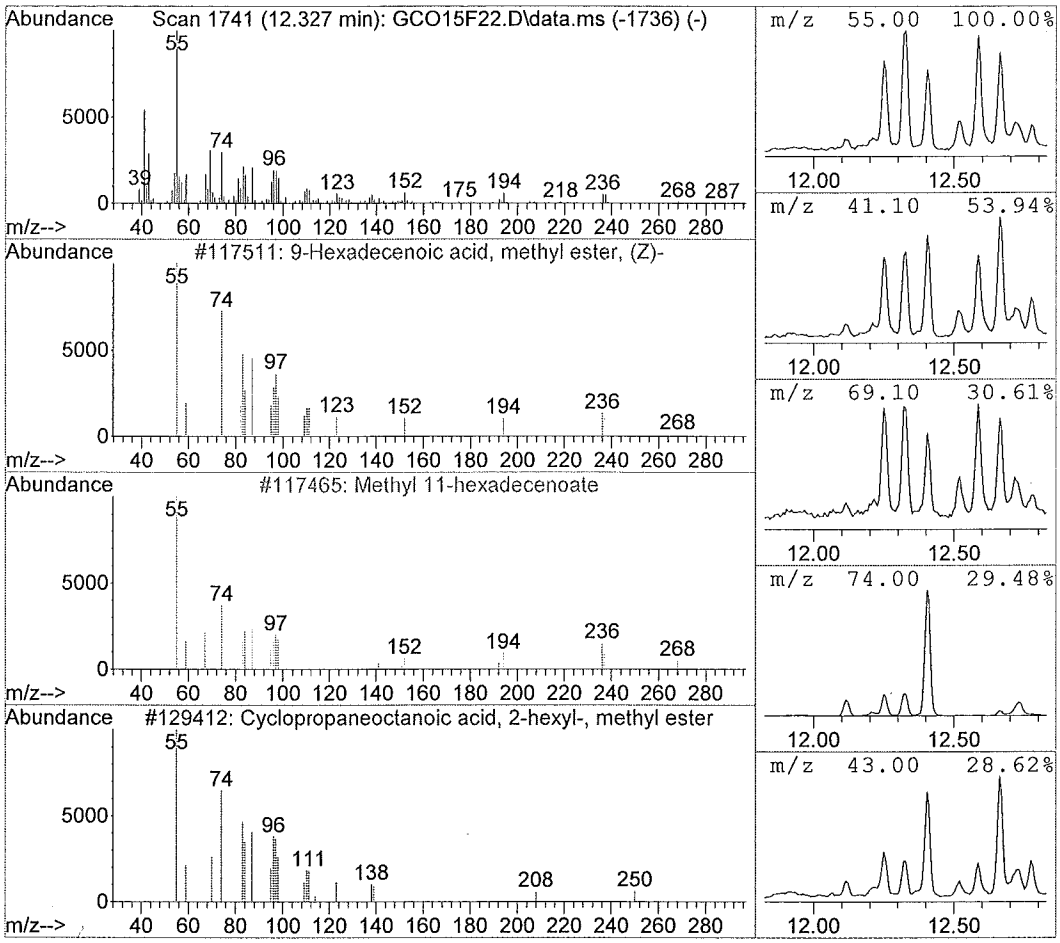
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.33	6.39 ug/ml	1161254	Phenanthrene-d10	3634061

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Hexadecenoic acid, methyl ester,	117511	001120-25-8	97.00
2	Methyl 11-hexadecenoate	117465	1000336-35-5	90.00
3	Cyclopropaneoctanoic acid, 2-hexyl-	129412	010152-61-1	83.00
4	9-Octadecenoic acid (Z)-, methyl es	141302	000112-62-9	64.00
5	7-Hexadecenoic acid, methyl ester,	117506	056875-67-3	58.00



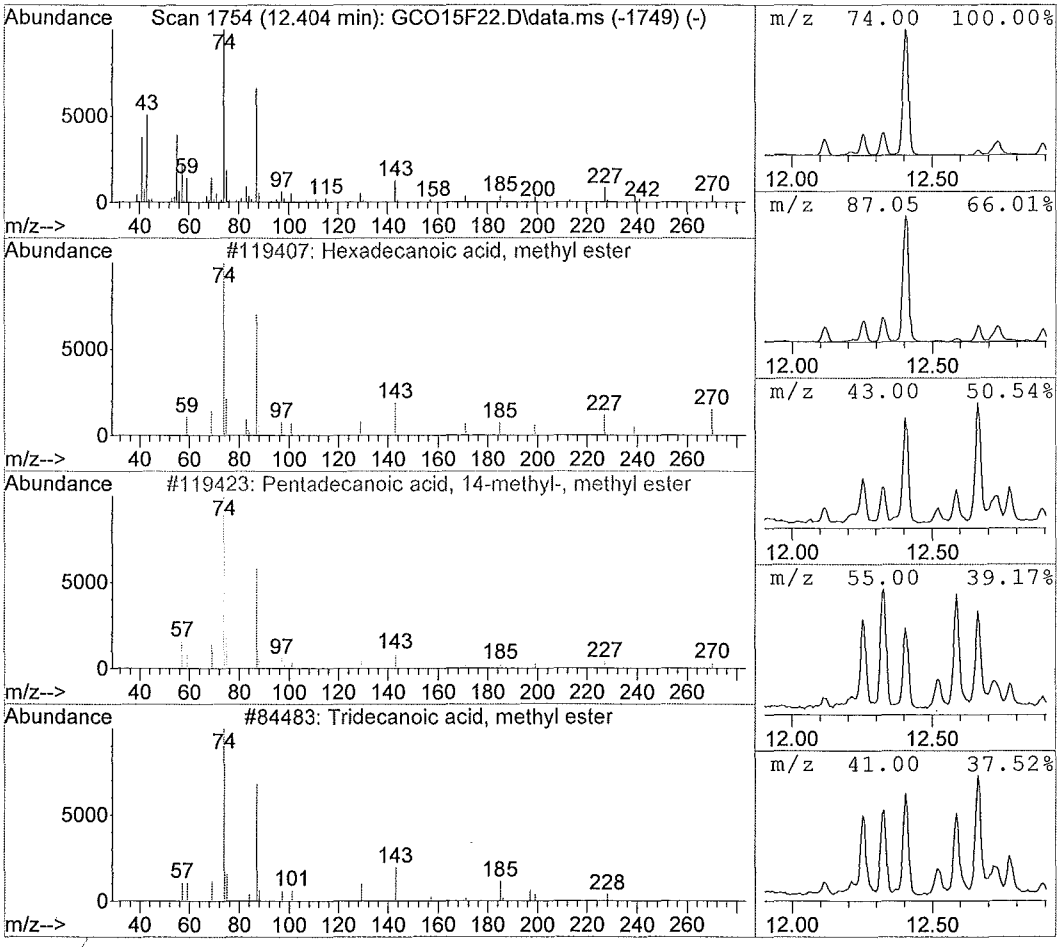
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.40	7.83 ug/ml	1422408	Phenanthrene-d10	3634061

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid, methyl ester	119407	000112-39-0	97.00
2	Pentadecanoic acid, 14-methyl-, met	119423	005129-60-2	96.00
3	Tridecanoic acid, methyl ester	84483	001731-88-0	91.00
4	Tridecanoic acid, 12-methyl-, methy	95899	005129-58-8	91.00
5	Methyl tetradecanoate	95859	000124-10-7	91.00



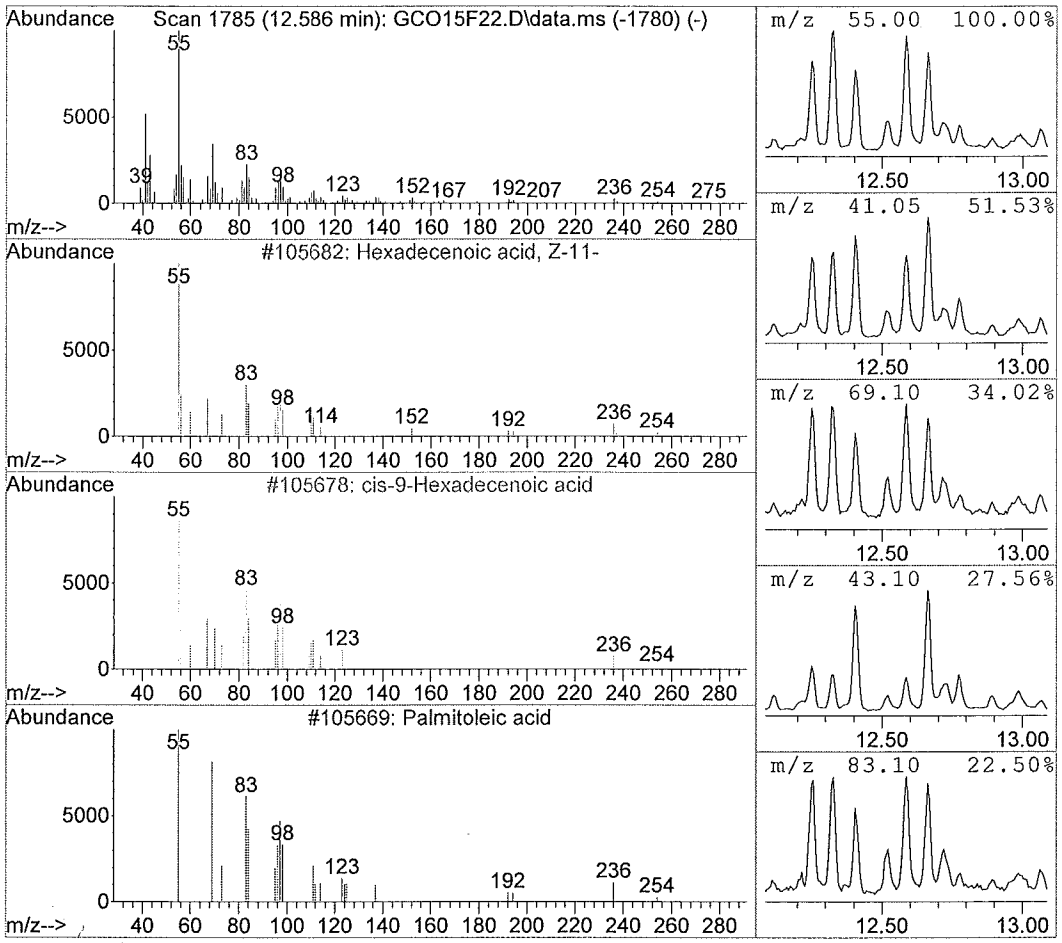
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.59	5.77 ug/ml	1049043	Phenanthrene-d10	3634061

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecenoic acid, Z-11-	105682	002416-20-8	98.00
2	cis-9-Hexadecenoic acid	105678	1000333-19-5	95.00
3	Palmitoleic acid	105669	000373-49-9	89.00
4	Oxacyclohexadecan-2-one, 16-methyl-	105733	004459-57-8	70.00
5	Oleic Acid	129335	000112-80-1	64.00



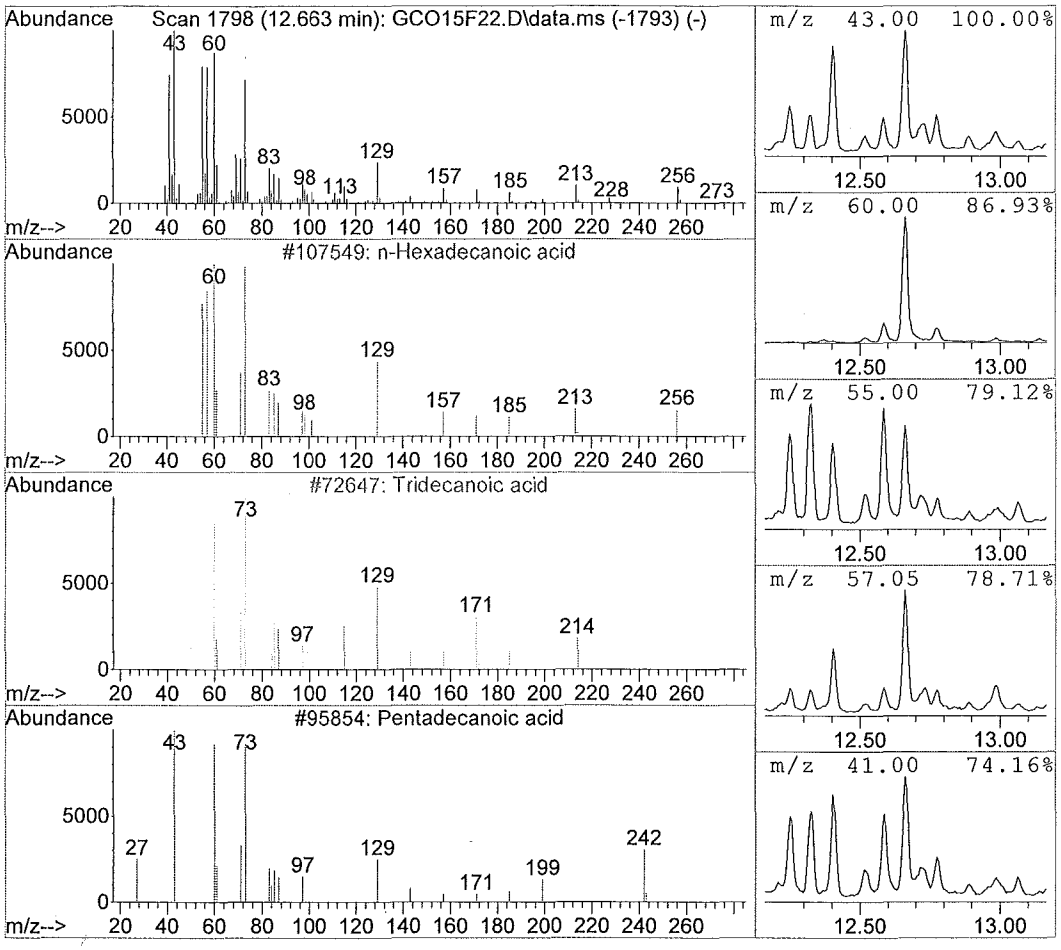
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.66	9.11 ug/ml	1654743	Phenanthrene-d10	3634061

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	n-Hexadecanoic acid	107549	000057-10-3	98.00
2	Tridecanoic acid	72647	000638-53-9	87.00
3	Pentadecanoic acid	95854	001002-84-2	87.00
4	Undecanoic acid	50051	000112-37-8	53.00
5	Dodecanoic acid	61117	000143-07-7	50.00



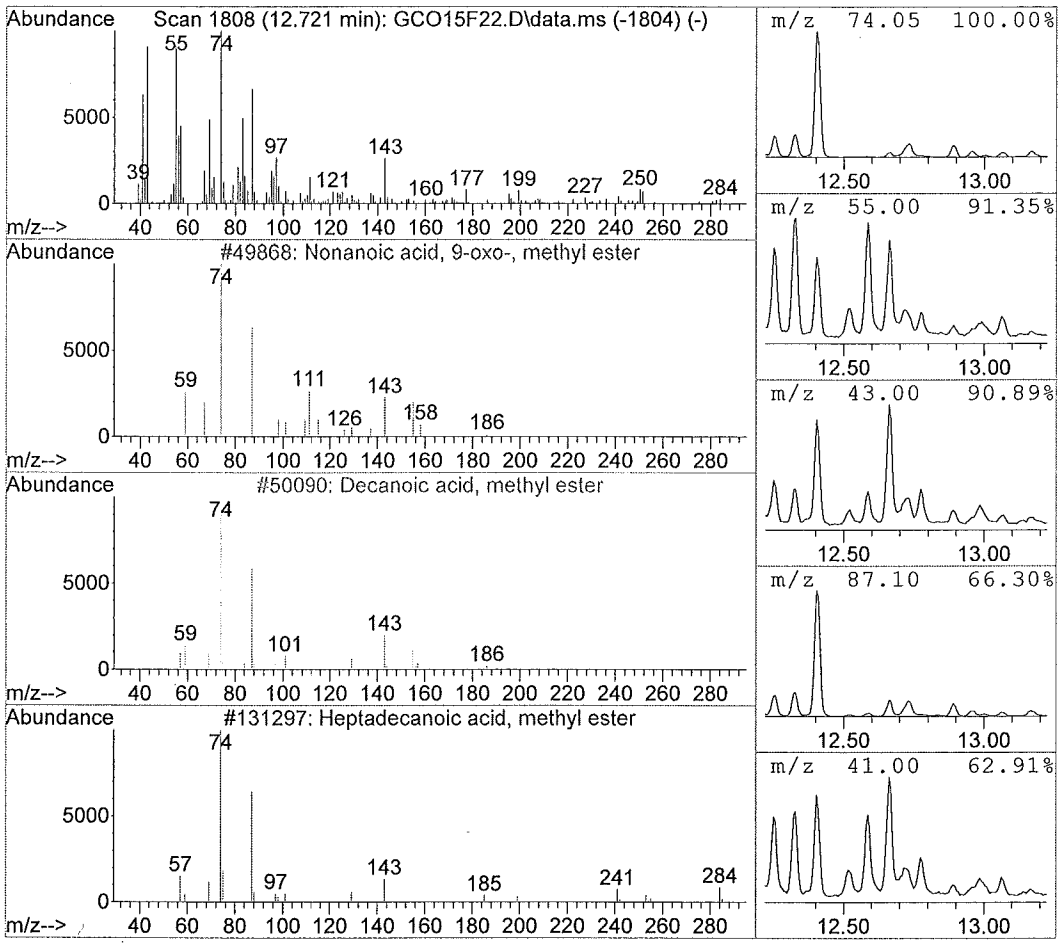
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.72	2.98 ug/ml	541631	Phenanthrene-d10	3634061

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonanoic acid, 9-oxo-, methyl ester	49868	001931-63-1	49.00
2	Decanoic acid, methyl ester	50090	000110-42-9	43.00
3	Heptadecanoic acid, methyl ester	131297	001731-92-6	38.00
4	Tridecanoic acid, 12-methyl-, methy	95897	005129-58-8	38.00
5	1-Hexacosanol	203698	000506-52-5	38.00



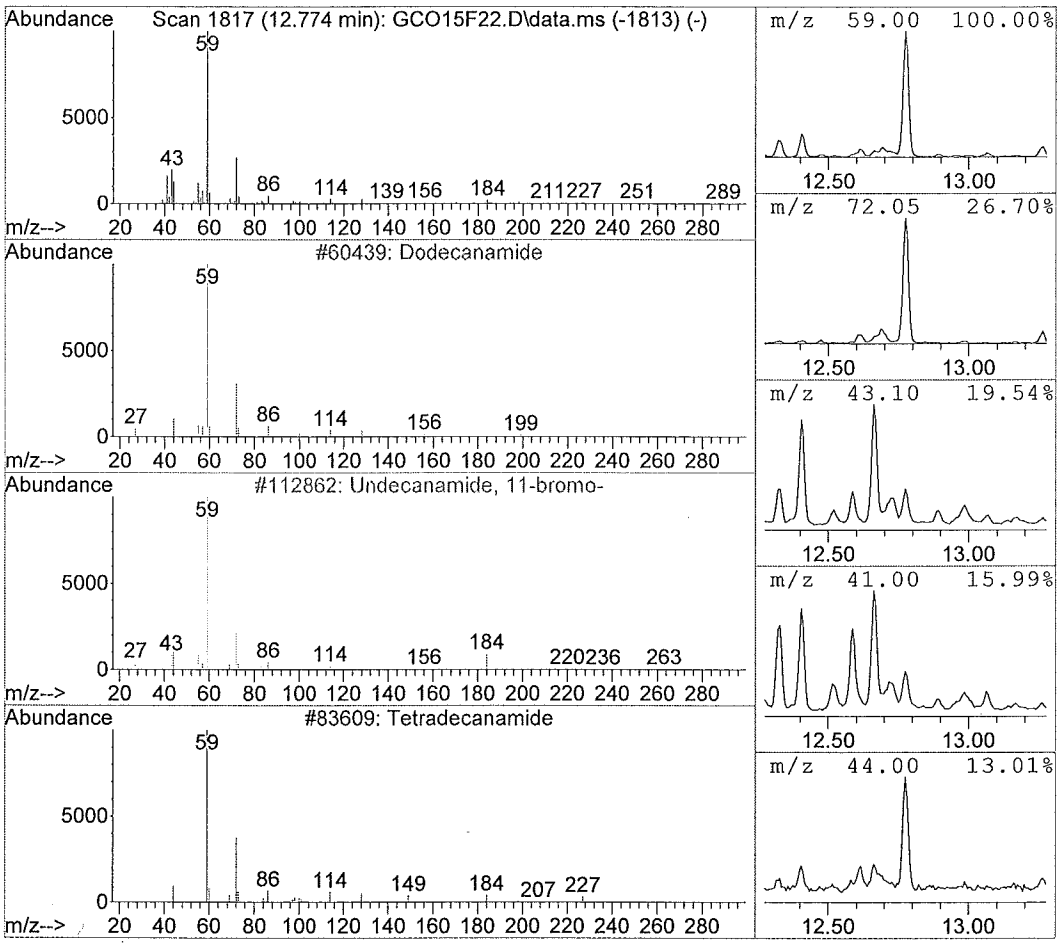
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.77	2.99 ug/ml	542783	Phenanthrene-d10	3634061

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Undecanamide, 11-bromo-	112862	005875-26-3	83.00
3	Tetradecanamide	83609	000638-58-4	83.00
4	Decanamide-	38977	002319-29-1	74.00
5	Nonanamide	29478	001120-07-6	74.00



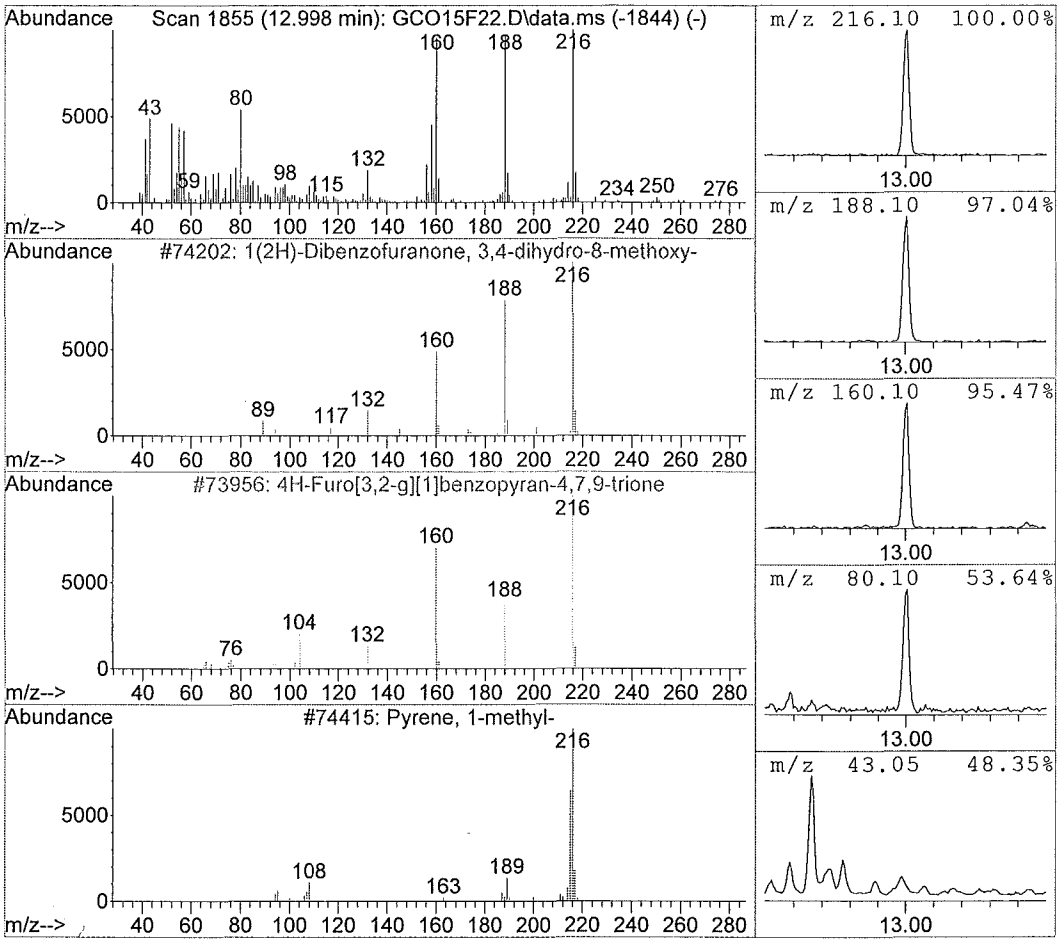
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.00	4.27 ug/ml	775384	Phenanthrene-d10	3634061

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1(2H)-Dibenzofuranone, 3,4-dihydro-	74202	095338-40-2	30.00
2	4H-Furo[3,2-g][1]benzopyran-4,7,9-t	73956	000483-36-3	30.00
3	Pyrene, 1-methyl-	74415	002381-21-7	25.00
4	Pyrene, 4-methyl-	74409	003353-12-6	15.00
5	Dibenzothiophene, 1,2,3,4-tetrahydr	51638	016587-33-0	14.00



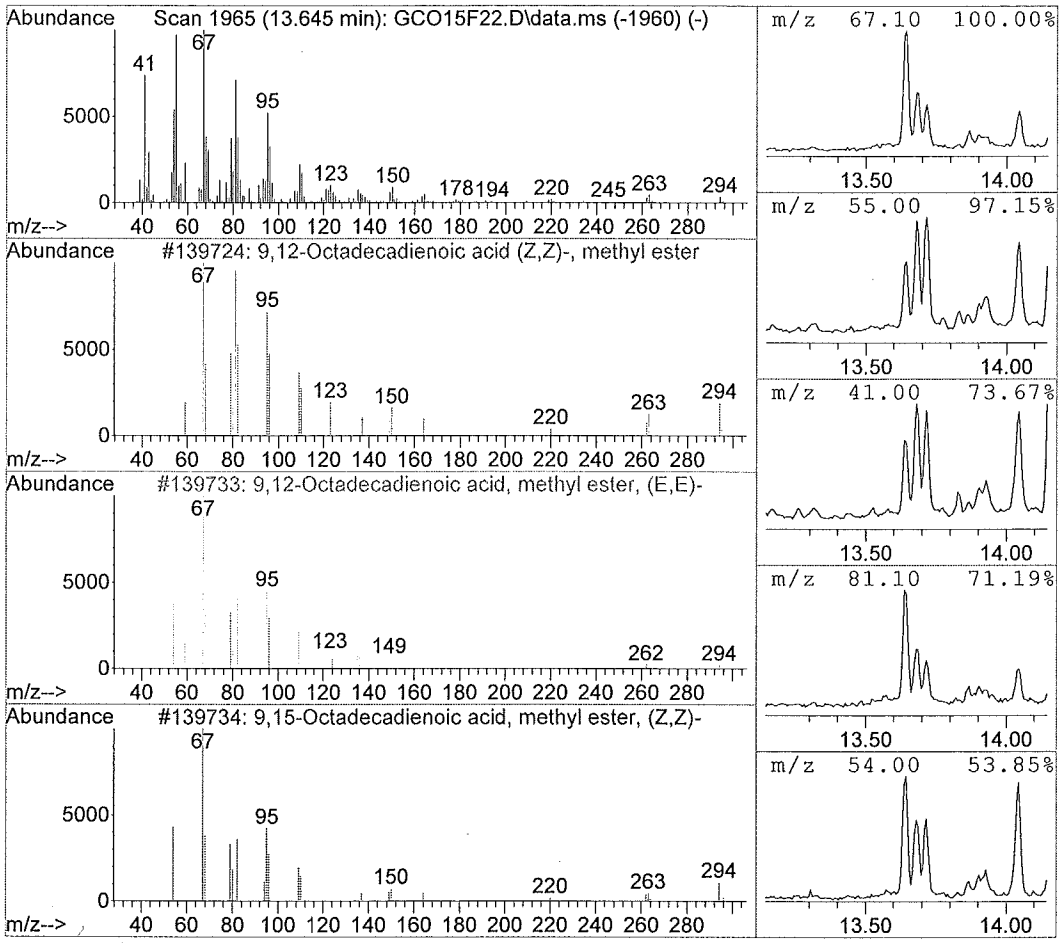
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.64	3.07 ug/ml	655967	Chrysene-d12	4277700

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9,12-Octadecadienoic acid (Z,Z)-, m	139724	000112-63-0	99.00
2	9,12-Octadecadienoic acid, methyl e	139733	002566-97-4	98.00
3	9,15-Octadecadienoic acid, methyl e	139734	017309-05-6	98.00
4	8,11-Octadecadienoic acid, methyl e	139707	056599-58-7	97.00
5	Methyl 10-trans,12-cis-octadecadien	139709	1000336-44-2	97.00



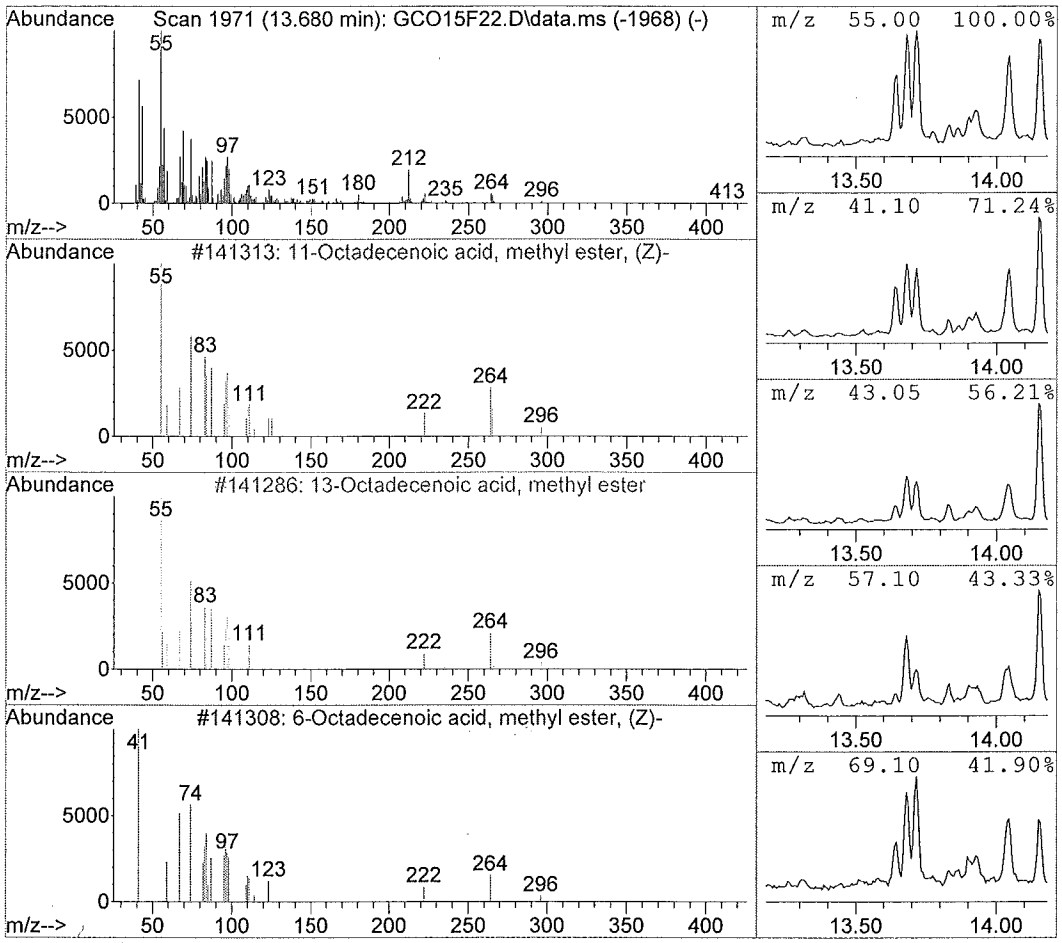
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.68	4.44 ug/ml	949345	Chrysene-d12	4277700

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	11-Octadecenoic acid, methyl ester,	141313	001937-63-9	97.00
2	13-Octadecenoic acid, methyl ester	141286	056554-47-3	97.00
3	6-Octadecenoic acid, methyl ester,	141308	002777-58-4	96.00
4	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	93.00
5	cis-13-Octadecenoic acid, methyl es	141299	1000333-58-3	93.00



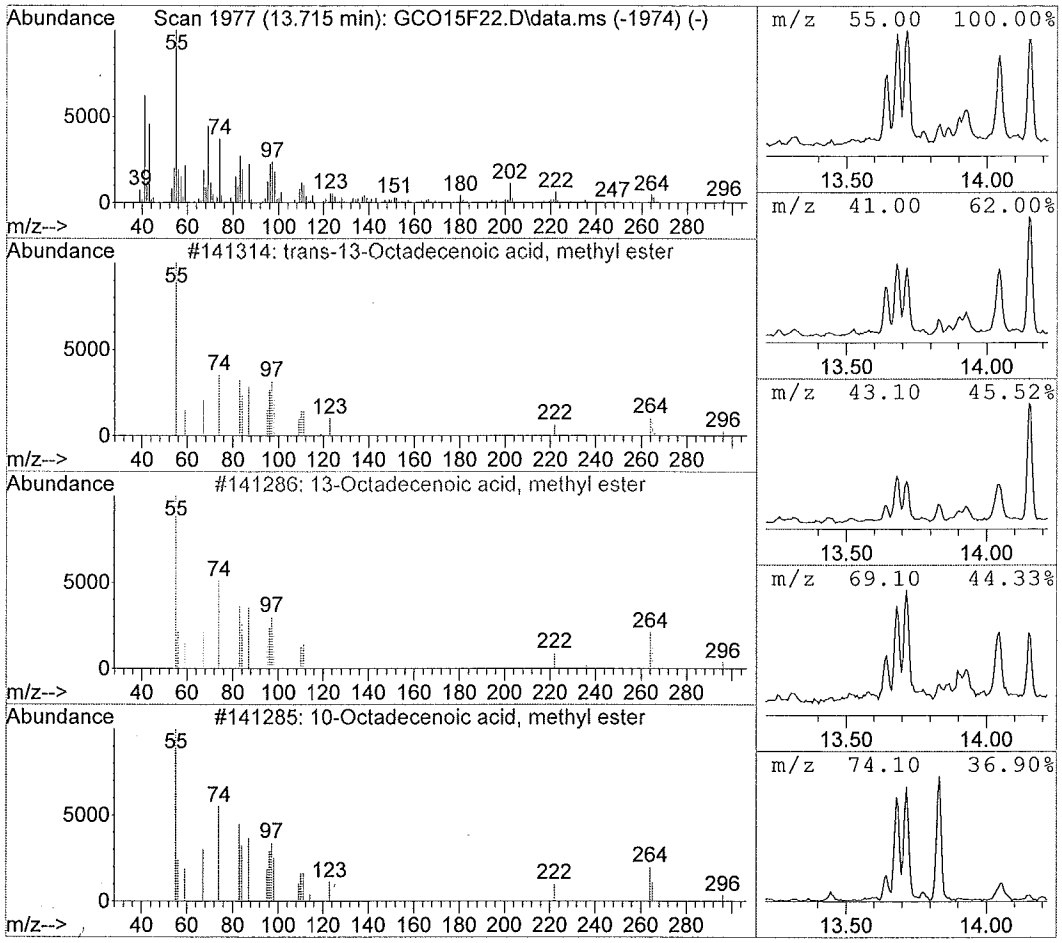
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.72	3.85 ug/ml	822697	Chrysene-d12	4277700

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	trans-13-Octadecenoic acid, methyl	141314	1000333-61-3	98.00
2	13-Octadecenoic acid, methyl ester	141286	056554-47-3	96.00
3	10-Octadecenoic acid, methyl ester	141285	013481-95-3	96.00
4	14-Octadecenoic acid, methyl ester	141287	056554-48-4	95.00
5	cis-13-Octadecenoic acid, methyl es	141299	1000333-58-3	95.00



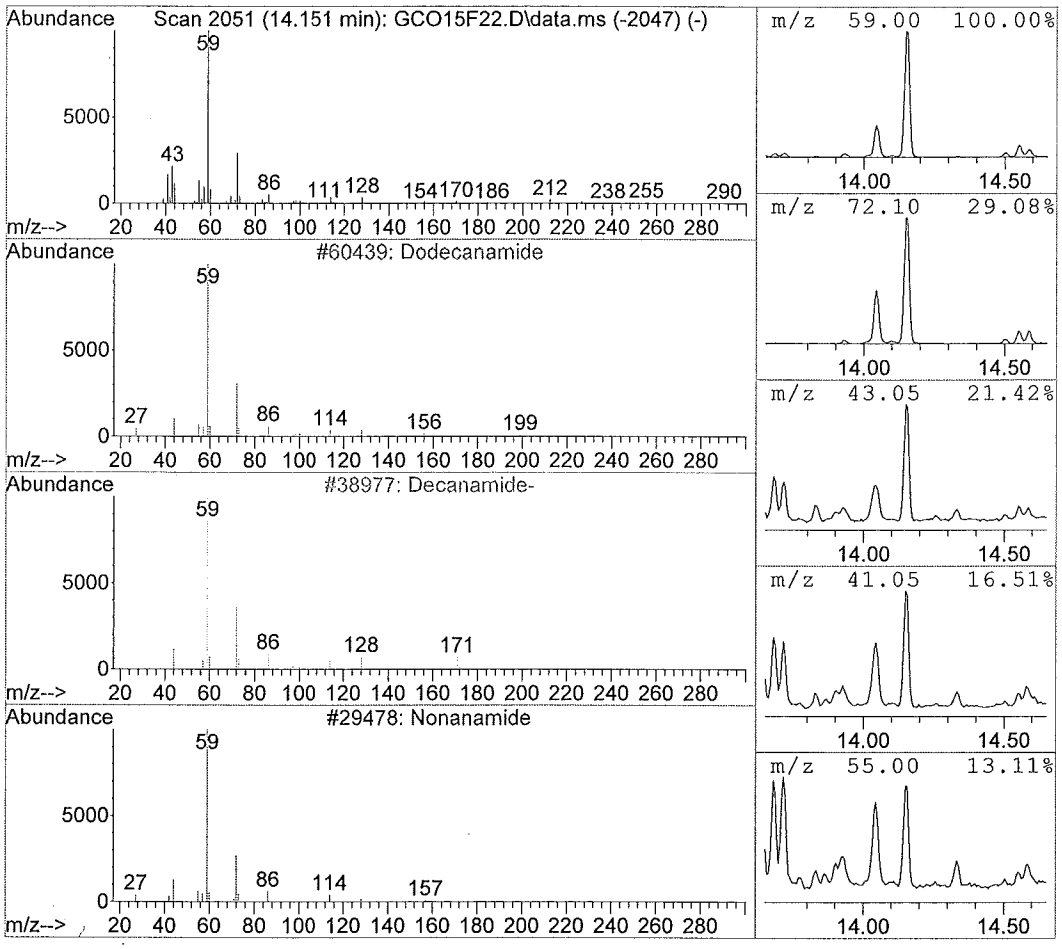
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.15	8.39 ug/ml	1795289	Chrysene-d12	4277700

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecanamide	60439	001120-16-7	90.00
2	Decanamide-	38977	002319-29-1	83.00
3	Nonanamide	29478	001120-07-6	78.00
4	Tetradecanamide	83609	000638-58-4	78.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	78.00



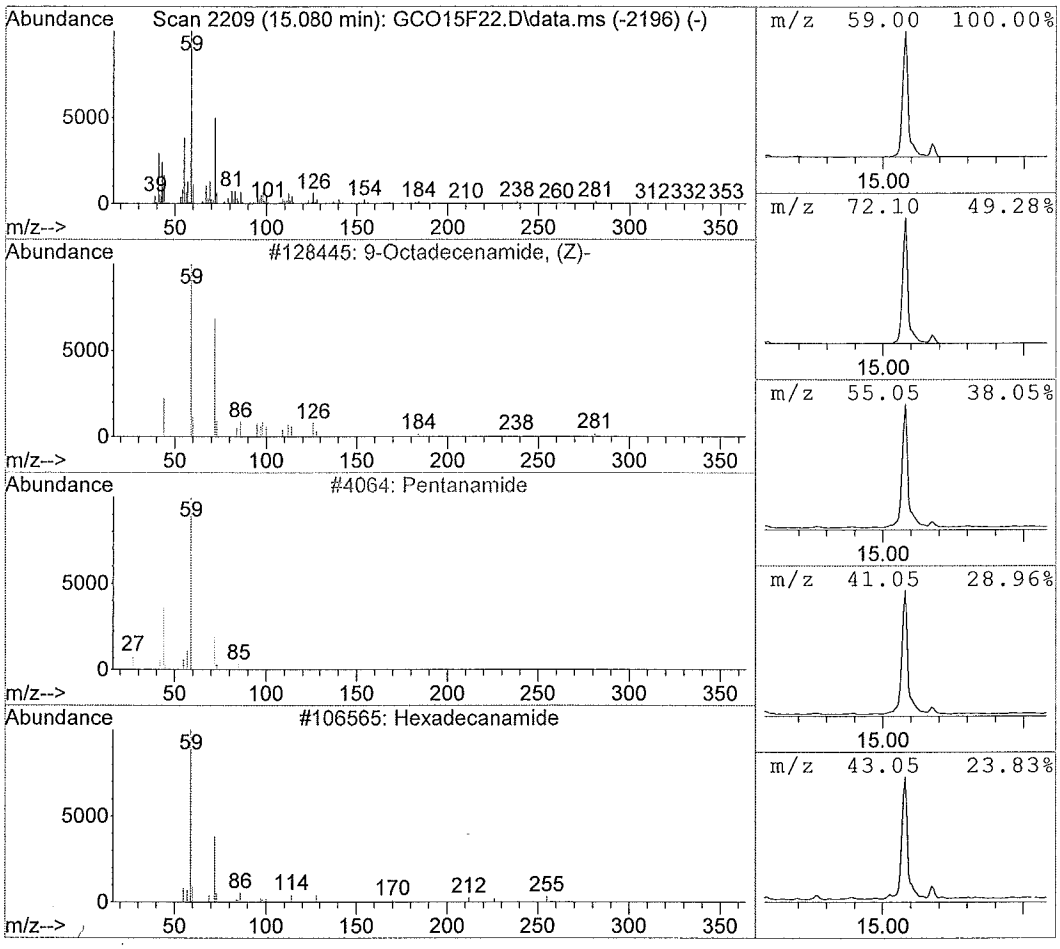
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.08	65.80 ug/ml	14073313	Chrysene-d12	4277700

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	99.00
2	Pentanamide	4064	000626-97-1	64.00
3	Hexadecanamide	106565	000629-54-9	56.00
4	Octanamide	20317	000629-01-6	56.00
5	Pentadecanamide, 15-bromo-	160272	1000163-86-1	56.00



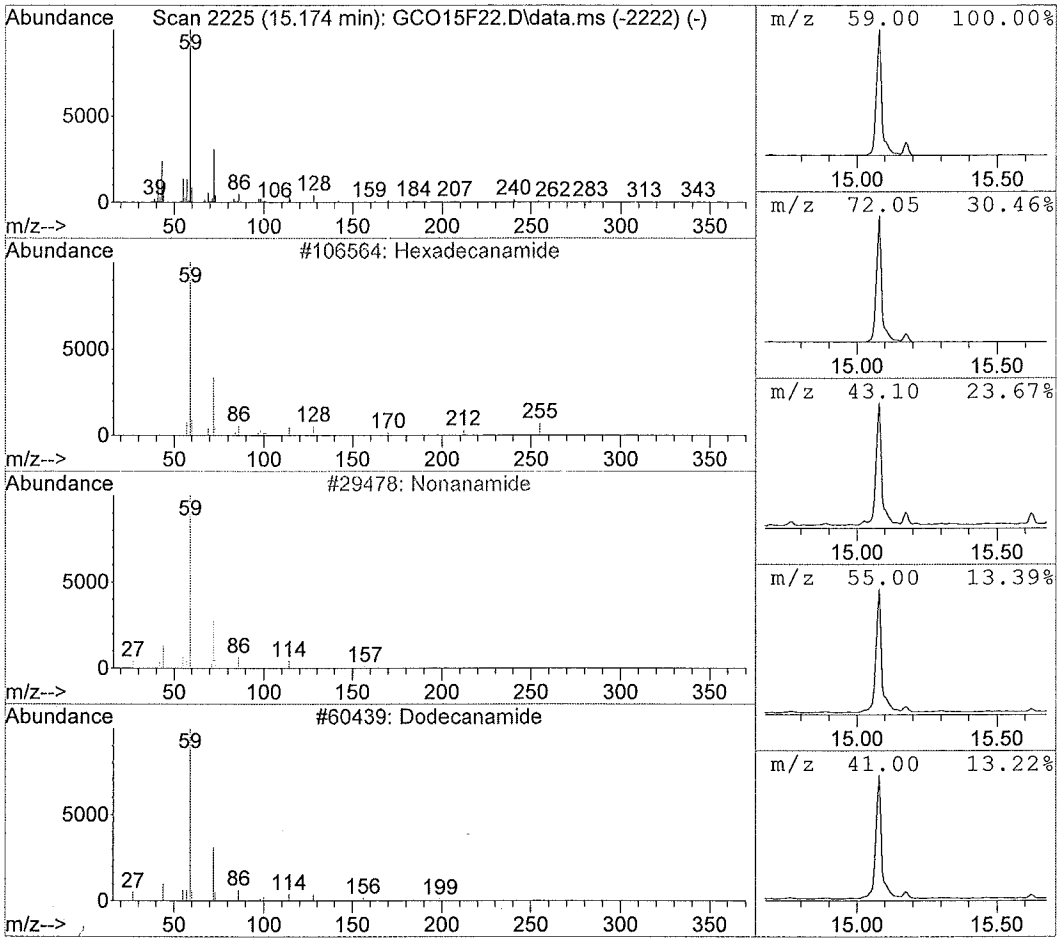
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.17	3.32 ug/ml	710720	Chrysene-d12	4277700

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106564	000629-54-9	91.00
2	Nonanamide	29478	001120-07-6	78.00
3	Dodecanamide	60439	001120-16-7	78.00
4	Undecanamide, 11-bromo-	112862	005875-26-3	78.00
5	Tetradecanamide	83609	000638-58-4	78.00



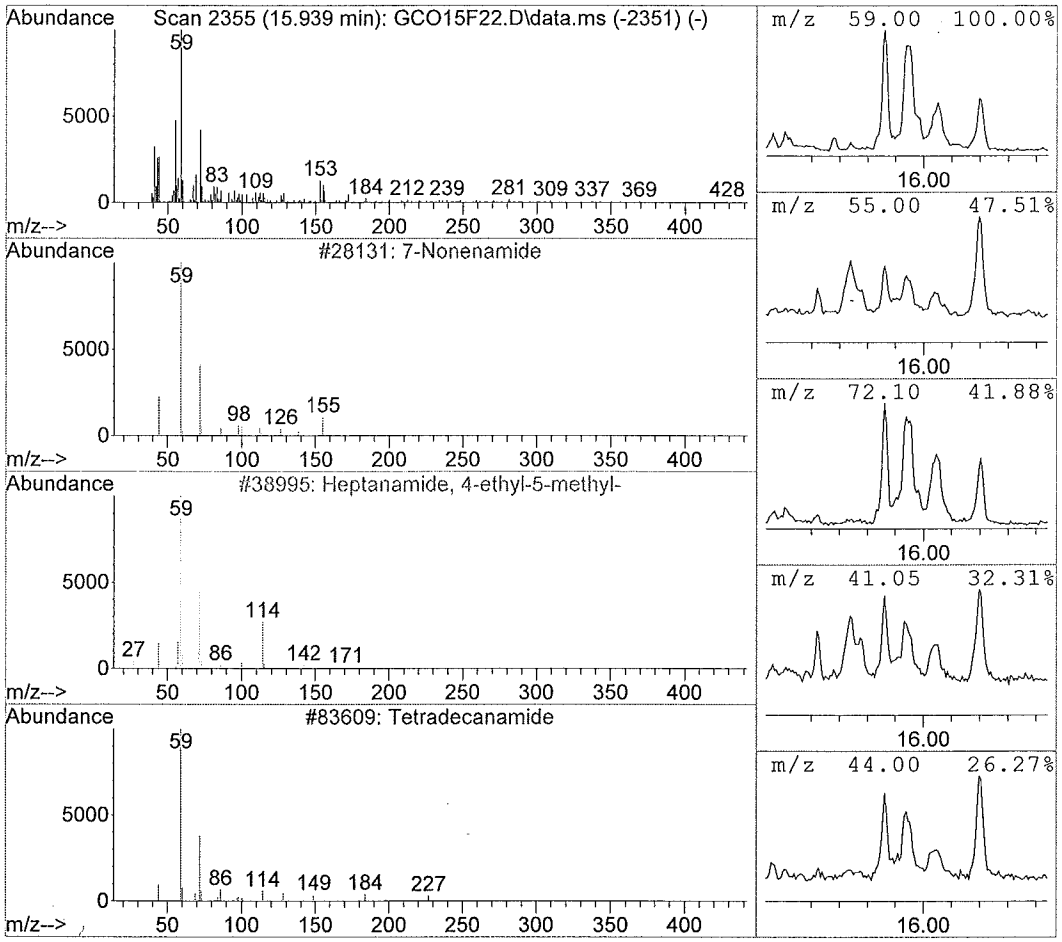
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.94	3.18 ug/ml	680630	Chrysene-d12	4277700

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Nonenamide	28131	090949-53-4	93.00
2	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	68.00
3	Tetradecanamide	83609	000638-58-4	64.00
4	Benzeneethanamine, 2-fluoro-.beta.,	85011	061338-98-5	64.00
5	Dodecanamide	60440	001120-16-7	64.00



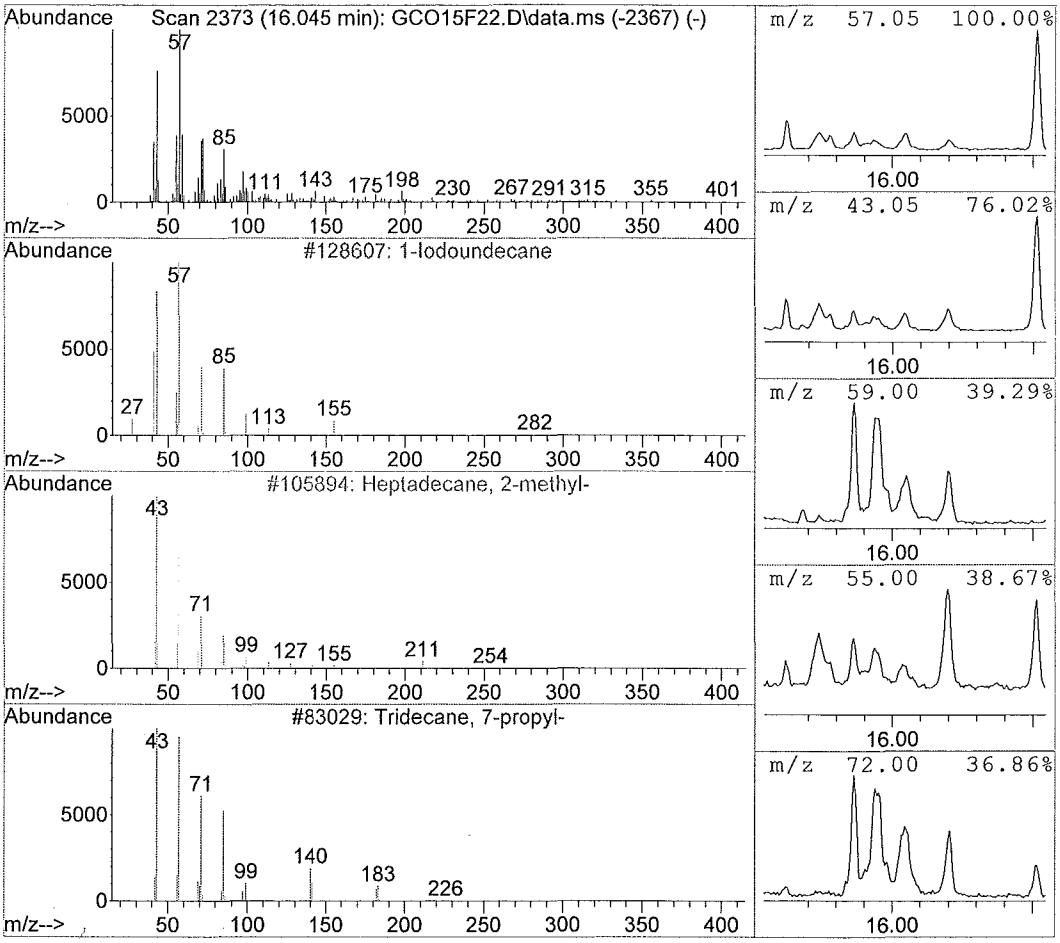
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.04	2.73 ug/ml	584724	Chrysene-d12	4277700

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Iodoundecane	128607	004282-44-4	42.00
2	Heptadecane, 2-methyl-	105894	001560-89-0	38.00
3	Tridecane, 7-propyl-	83029	055045-09-5	38.00
4	Heneicosane	141426	000629-94-7	38.00
5	Sulfurous acid, butyl pentadecyl es	182578	1000309-18-2	38.00



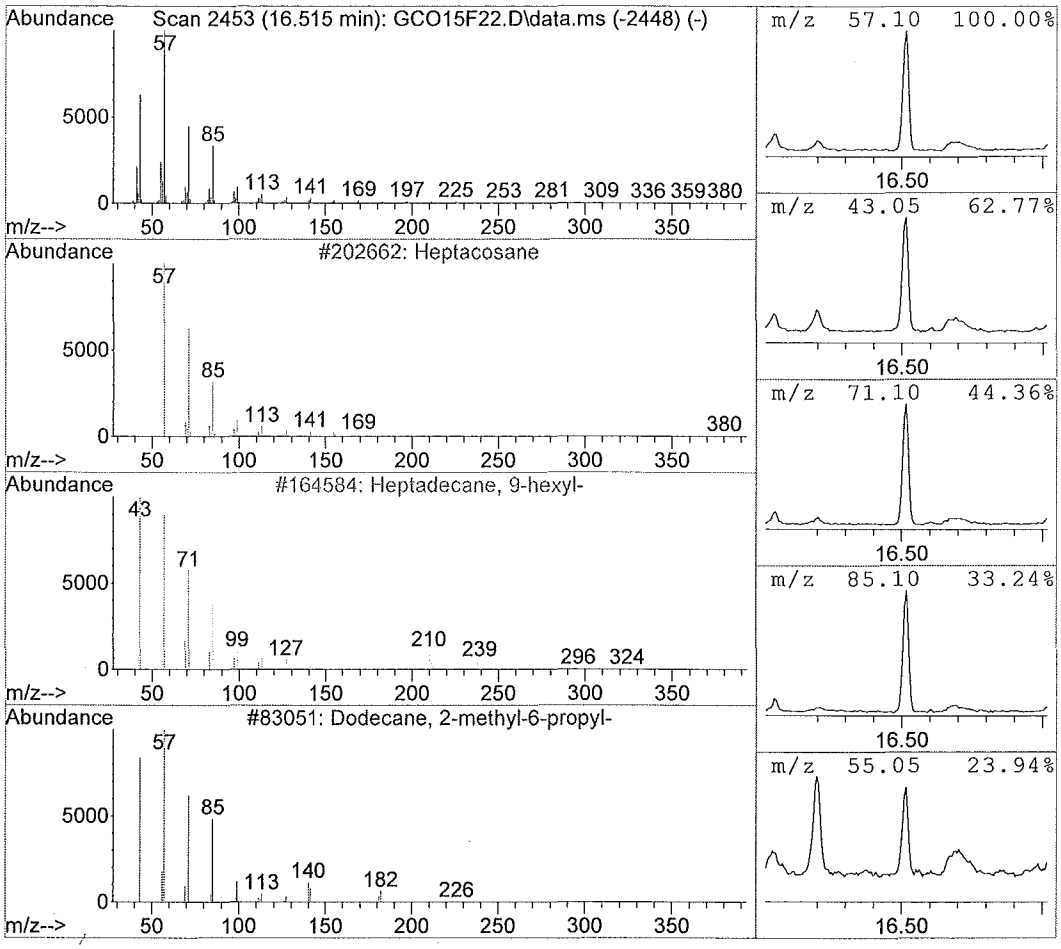
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.52	6.98 ug/ml	1492204	Chrysene-d12	4277700

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	202662	000593-49-7	98.00
2	Heptadecane, 9-hexyl- 5A	164584	055124-79-3	96.00
3	Dodecane, 2-methyl-6-propyl-	83051	055045-08-4	94.00
4	Octacosane	209566	000630-02-4	90.00
5	Heneicosane	141425	000629-94-7	90.00



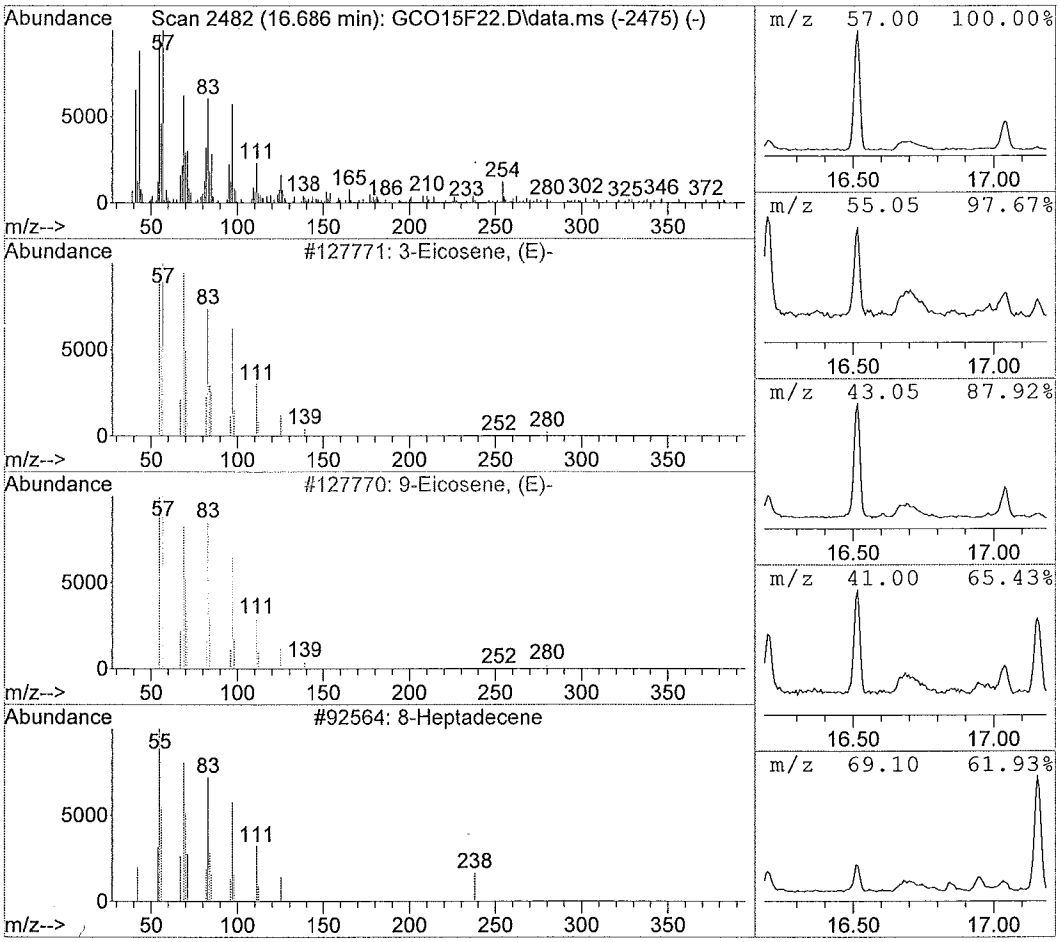
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.69	3.52 ug/ml	753010	Chrysene-d12	4277700

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Eicosene, (E)-	127771	074685-33-9	95.00
2	9-Eicosene, (E)-	127770	074685-29-3	95.00
3	8-Heptadecene	92564	002579-04-6	78.00
4	1-Heptacosanol	210517	002004-39-9	70.00
5	1-Pentadecene	69582	013360-61-7	68.00



Library Search Compound Report

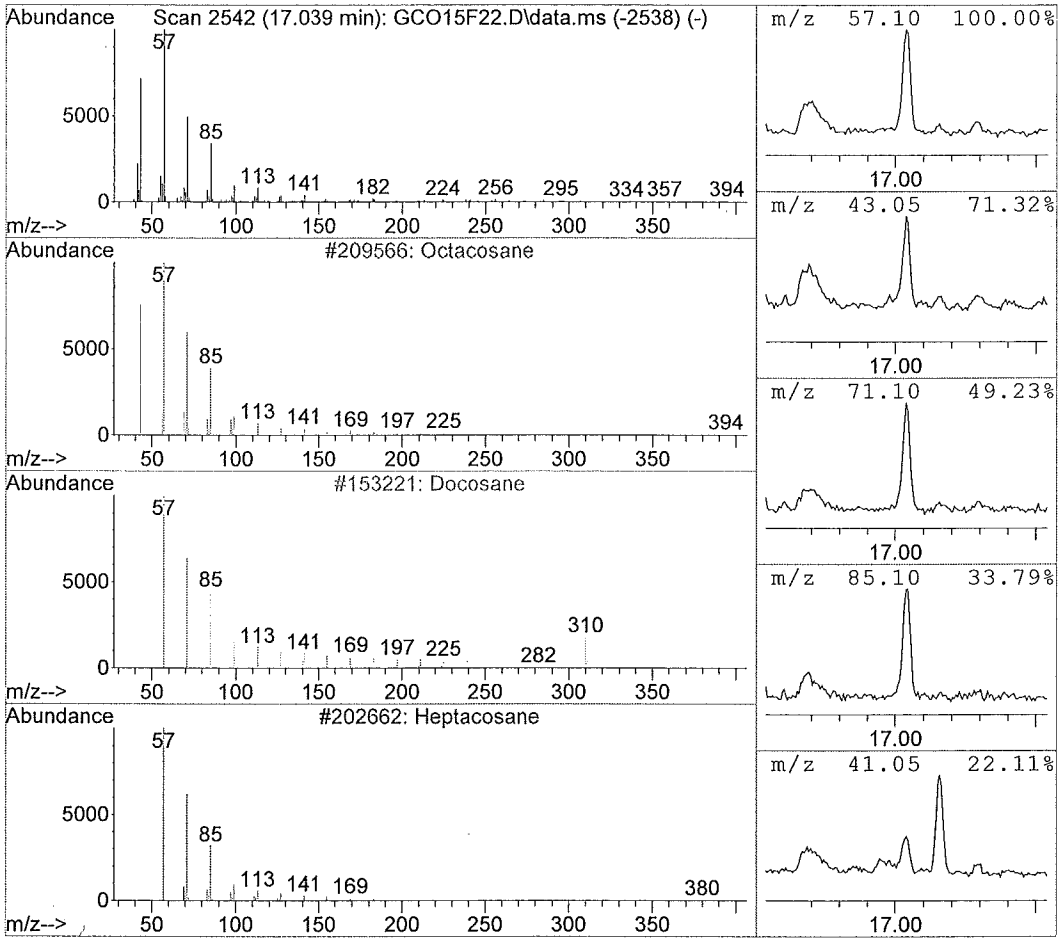
Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.04	4.73 ug/ml	462652	Perylene-d12	1958125

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octacosane	209566	000630-02-4	91.00
2	Docosane	153221	000629-97-0	87.00
3	Heptacosane	202662	000593-49-7	87.00
4	Tetracosane	175557	000646-31-1	83.00
5	Tridecane, 1-iodo-	152416	035599-77-0	81.00

SA



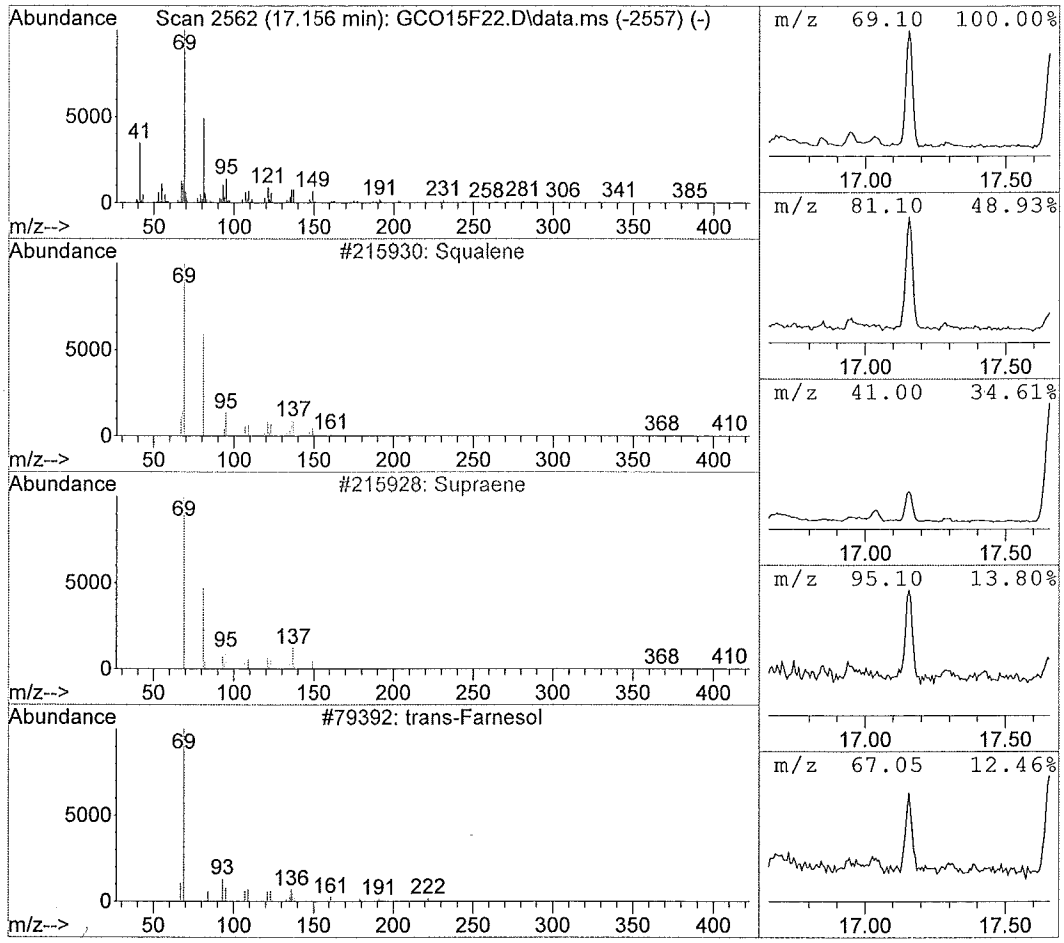
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.16	8.05 ug/ml	787789	Perylene-d12	1958125

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Squalene	215930	000111-02-4	91.00
2	Supraene	215928	007683-64-9	91.00
3	trans-Farnesol	79392	000106-28-5	78.00
4	Farnesol isomer a	79401	1000108-92-4	72.00
5	1,5-Heptadiene, 3,4-dimethyl-	10686	1000061-77-9	53.00



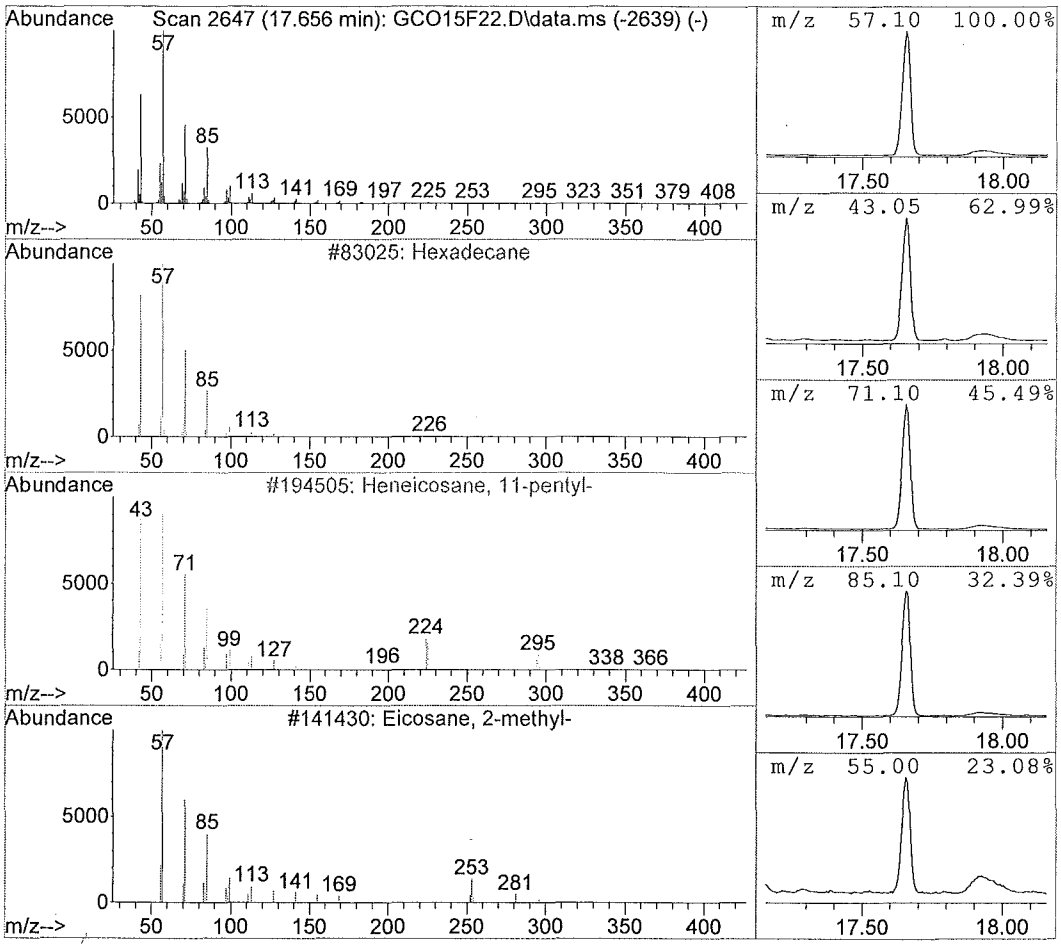
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.66	71.53 ug/ml	7003307	Perylene-d12	1958125

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane	83025	000544-76-3	93.00
2	Heneicosane, 11-pentyl-	194505	014739-72-1	91.00
3	Eicosane, 2-methyl-	141430	001560-84-5	91.00
4	Hentriacontane	223852	000630-04-6	91.00
5	Heptacosane	202662	000593-49-7	90.00



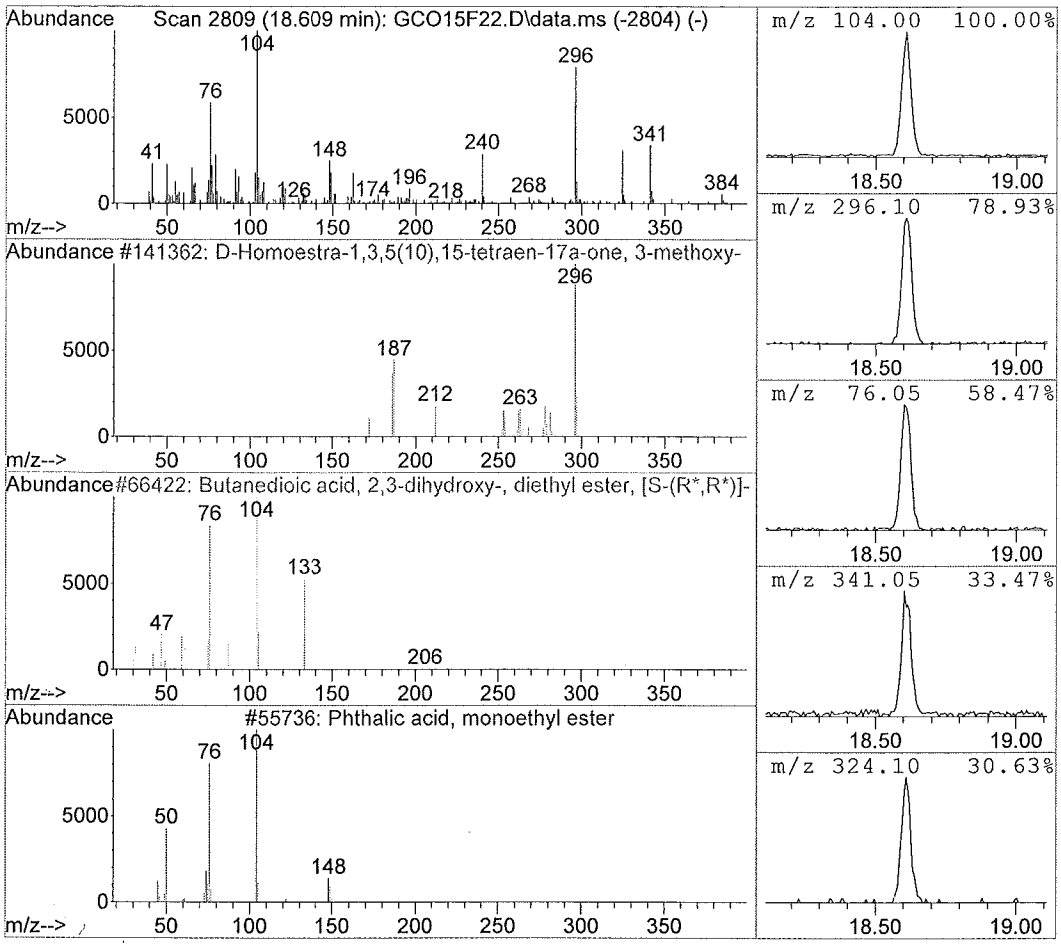
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.61	5.50 ug/ml	538285	Perylene-d12	1958125

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	D-Homoestra-1,3,5(10),15-tetraen-17	141362	054844-27-8	38.00
2	Butanedioic acid, 2,3-dihydroxy-, d	66422	013811-71-7	27.00
3	Phthalic acid, monoethyl ester	55736	002306-33-4	25.00
4	Isoindole-5-carboxylic acid, 1,3-di	140866	333340-81-1	18.00
5	3,5,7-Pregnatrien-2O-one	141421	1000227-49-1	18.00



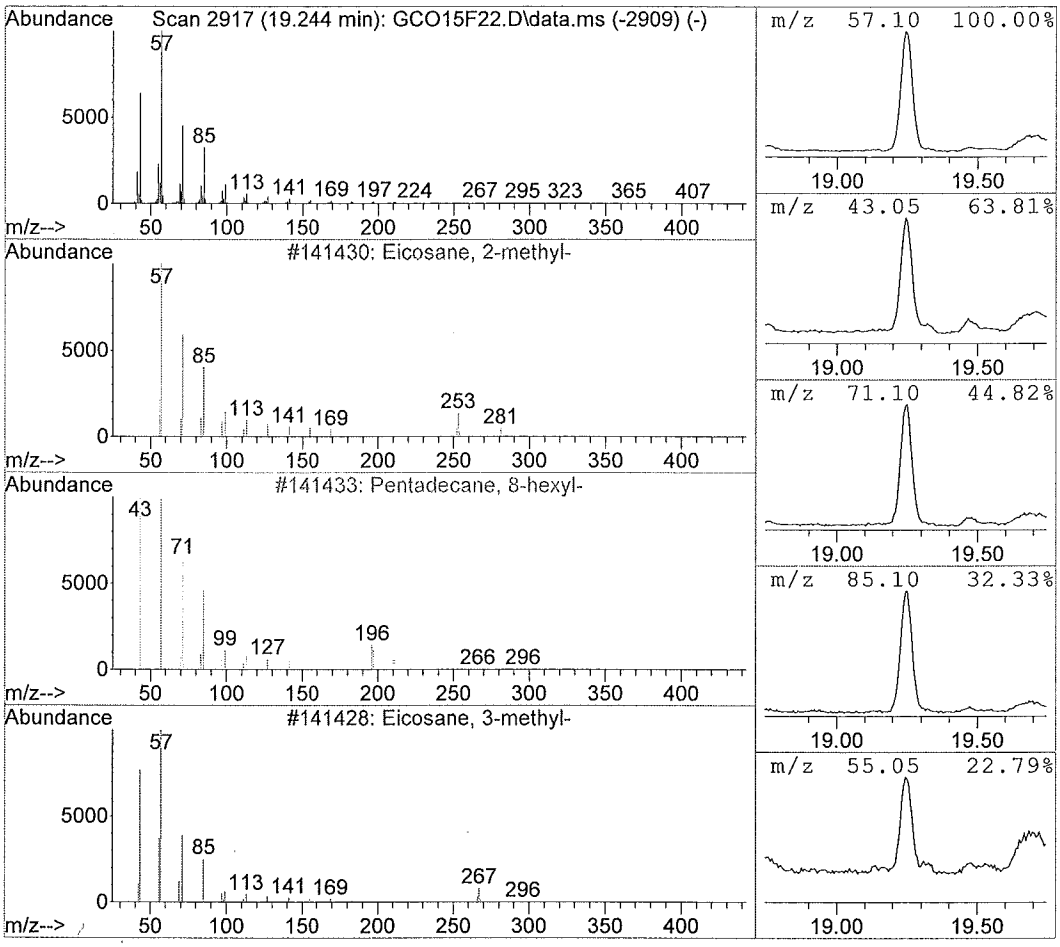
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.24	22.04 ug/ml	2157914	Perylene-d12	1958125

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane, 2-methyl-	141430	001560-84-5	94.00
2	Pentadecane, 8-hexyl- BA	141433	013475-75-7	93.00
3	Eicosane, 3-methyl-	141428	006418-46-8	91.00
4	Hexacosane	194494	000630-01-3	91.00
5	Heptacosane	202661	000593-49-7	90.00



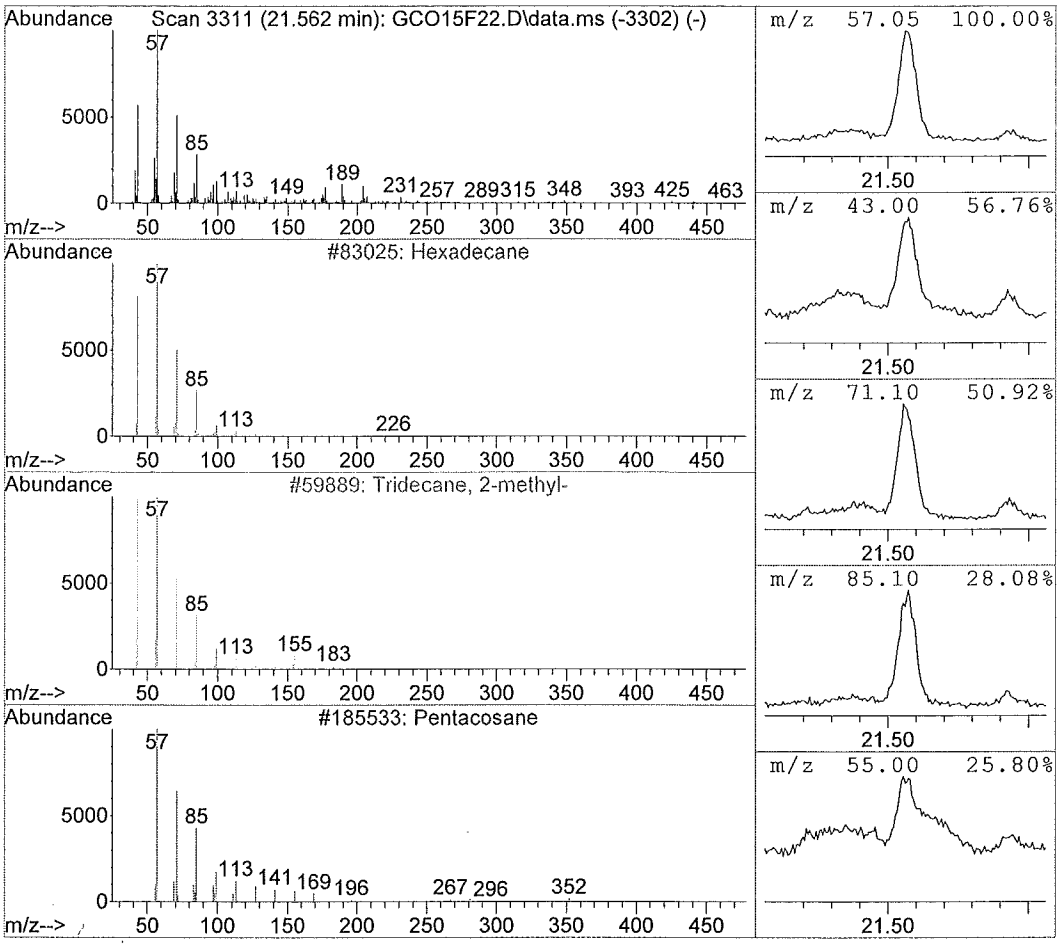
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
21.56	14.58 ug/ml	1427602	Perylene-d12	1958125

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane	83025	000544-76-3	58.00
2	Tridecane, 2-methyl- 5A	59889	001560-96-9	58.00
3	Pentacosane	185533	000629-99-2	52.00
4	Eicosane	129492	000112-95-8	49.00
5	Undecane, 5-methyl-	38332	001632-70-8	49.00



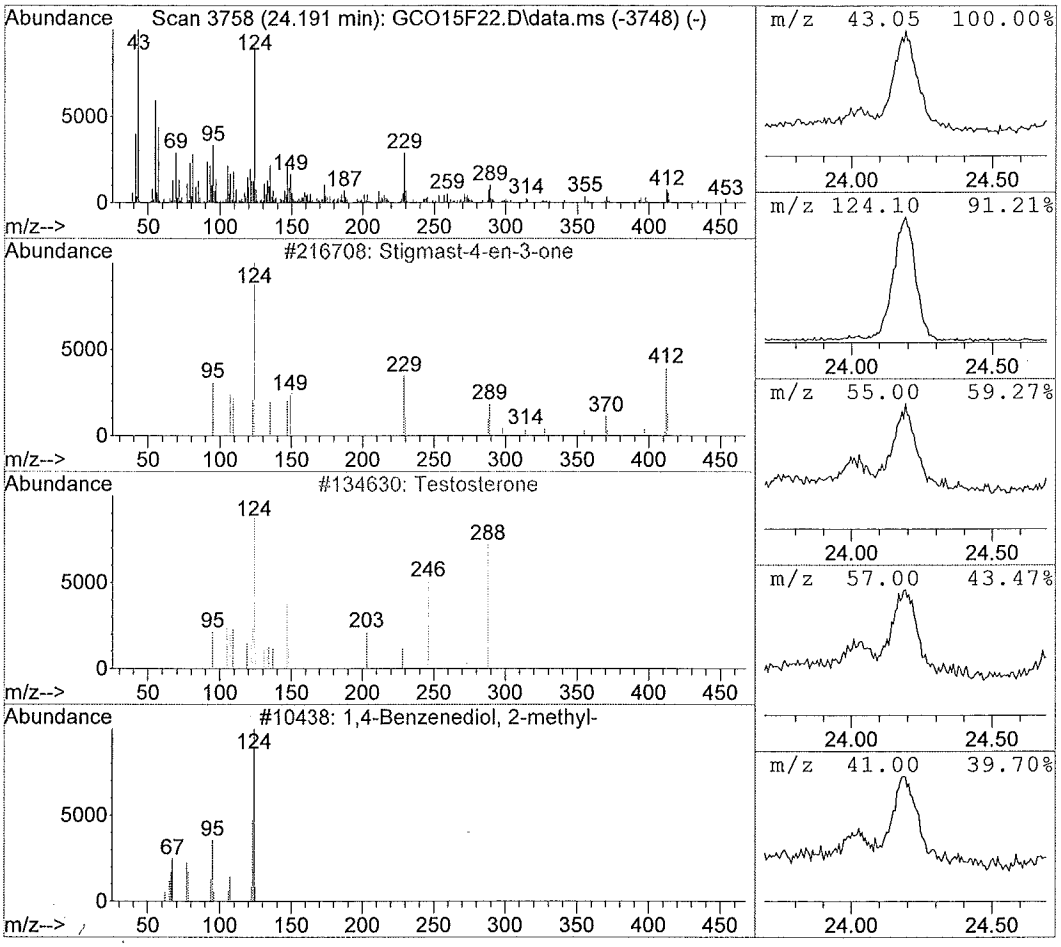
Library Search Compound Report

Data File : R:\DJC\Data\2015\F9L98\08JUL15\GCO15F22.D Vial: 15
Acq On : 07/08/2015 15:54 Operator: TJM
Sample : 1515375022 F9M19 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
24.19	17.31 ug/ml	1694835	Perylene-d12	1958125

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Stigmast-4-en-3-one	216708	001058-61-3	50.00
2	Testosterone	134630	000058-22-0	49.00
3	1,4-Benzenediol, 2-methyl-	10438	000095-71-6	46.00
4	Atropine	135264	000051-55-8	38.00
5	4H-Pyran-4-one, 3,5-dimethyl-	10451	019083-61-5	38.00



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.: F9L98

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.: F9L98

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.: F9L98

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

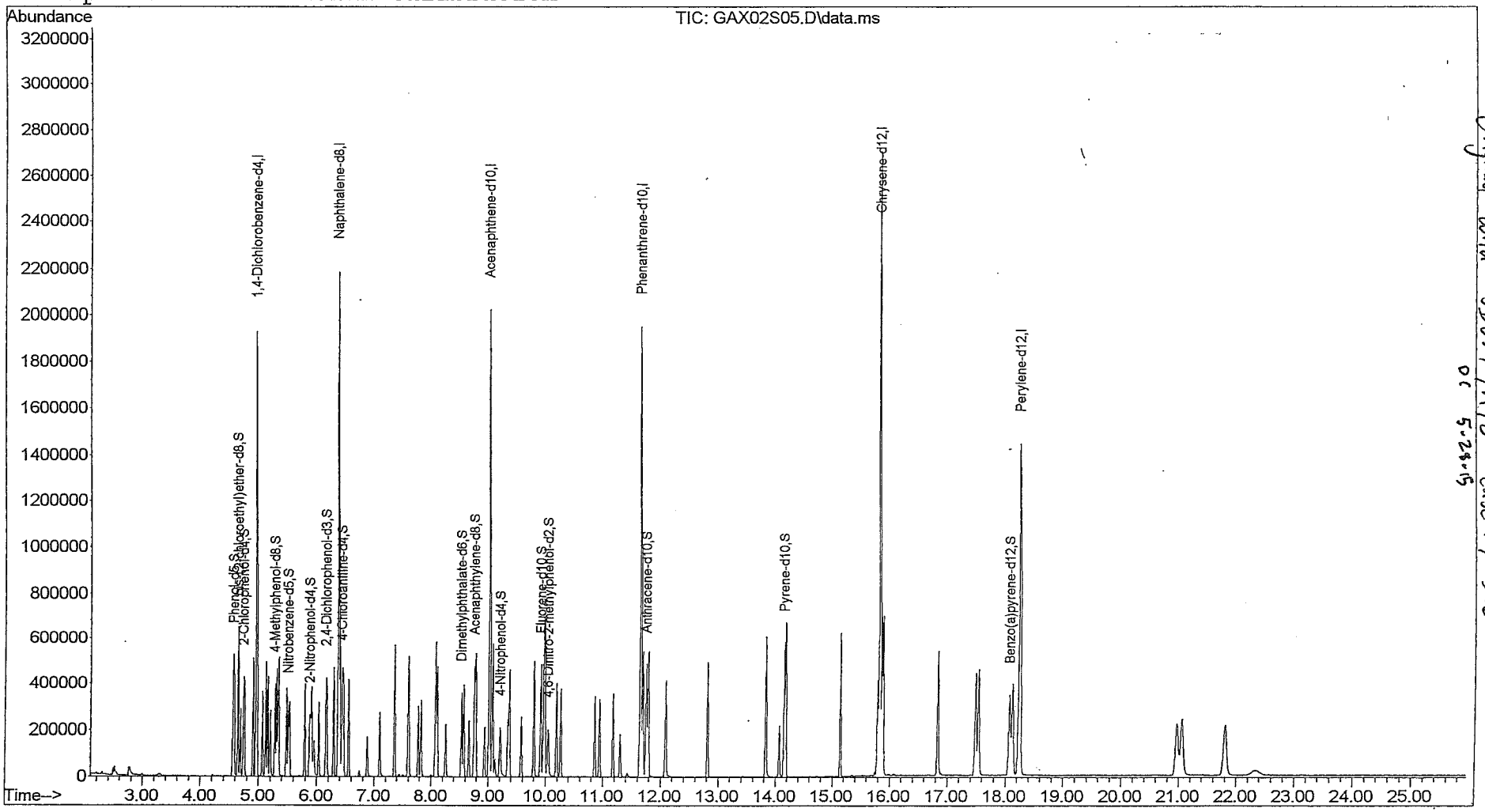
COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Phenol-d5	1.477	1.403	1.423	1.351	1.319	1.395	4.4
Bis(2-chloroethyl)ether-d8	0.902	0.865	0.870	0.817	0.817	0.854	4.3
2-Chlorophenol-d4	1.451	1.374	1.397	1.335	1.290	1.369	4.4
4-Methylphenol-d8	1.128	1.096	1.102	1.056	1.046	1.086	3.1
Nitrobenzene-d5	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: F9K48 case: 45316
DC 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)

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

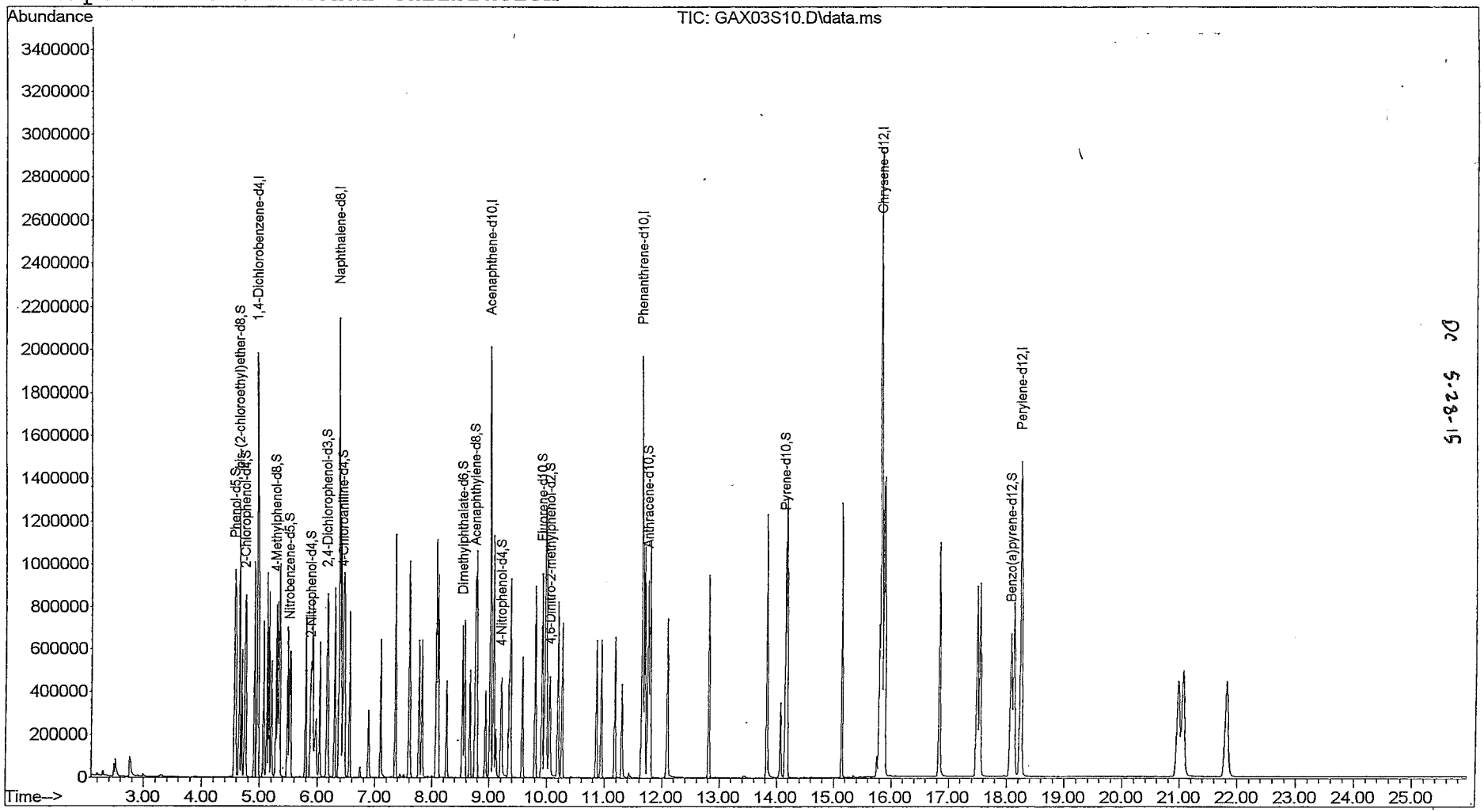
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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



DC 5-28-15

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)

:00093

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

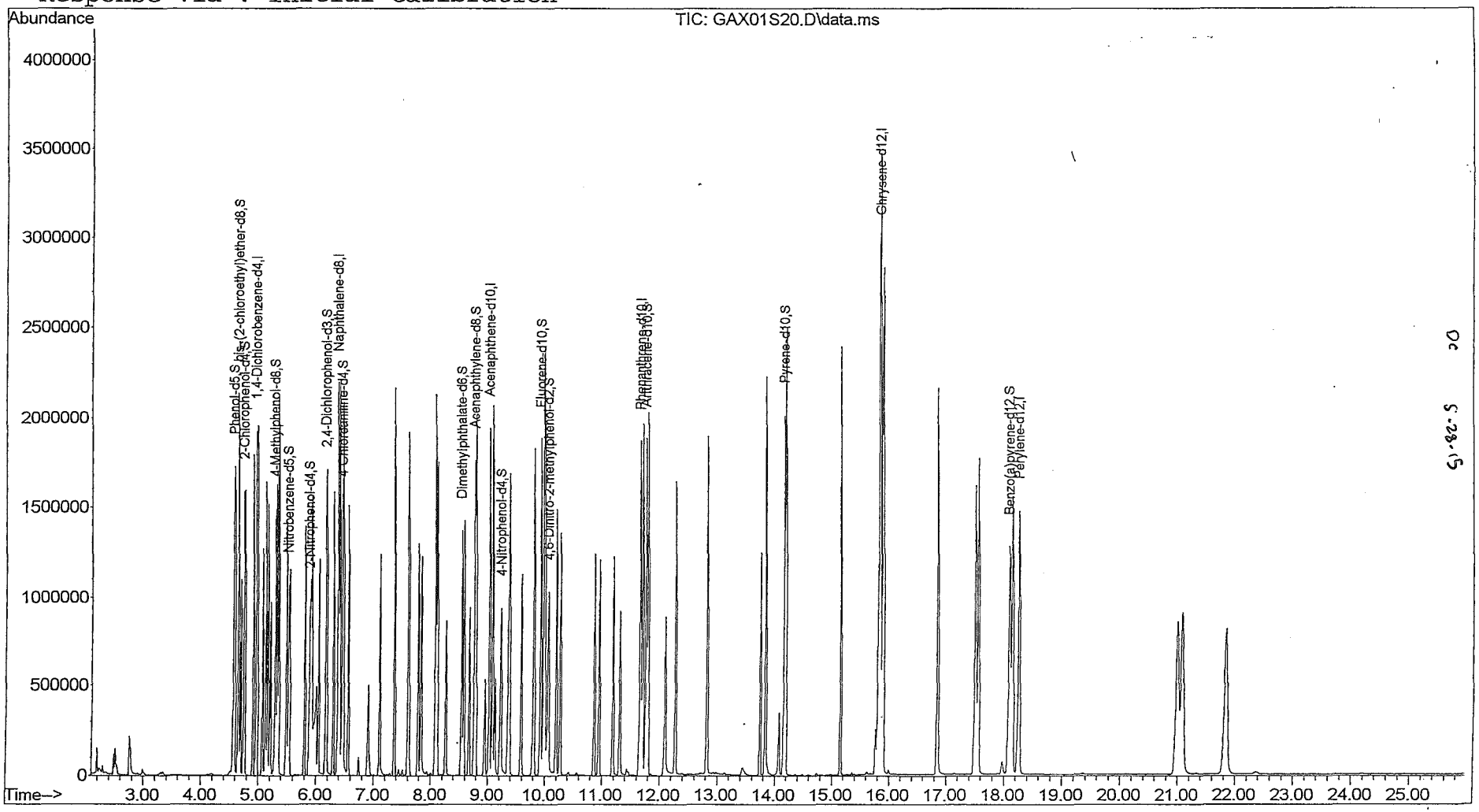
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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)

00886

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

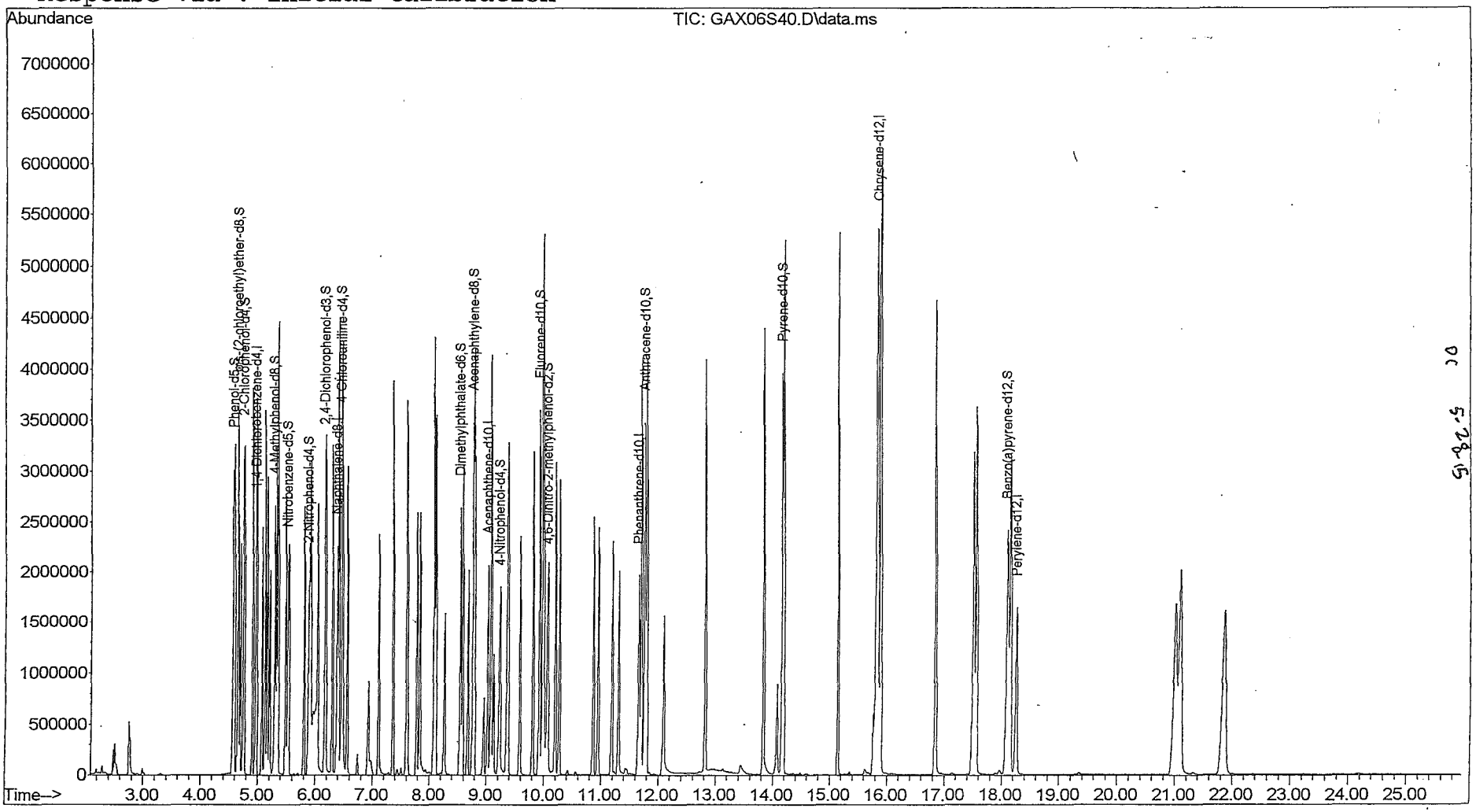
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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



5-28-15

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)

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	DC 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)

Quantitation Report

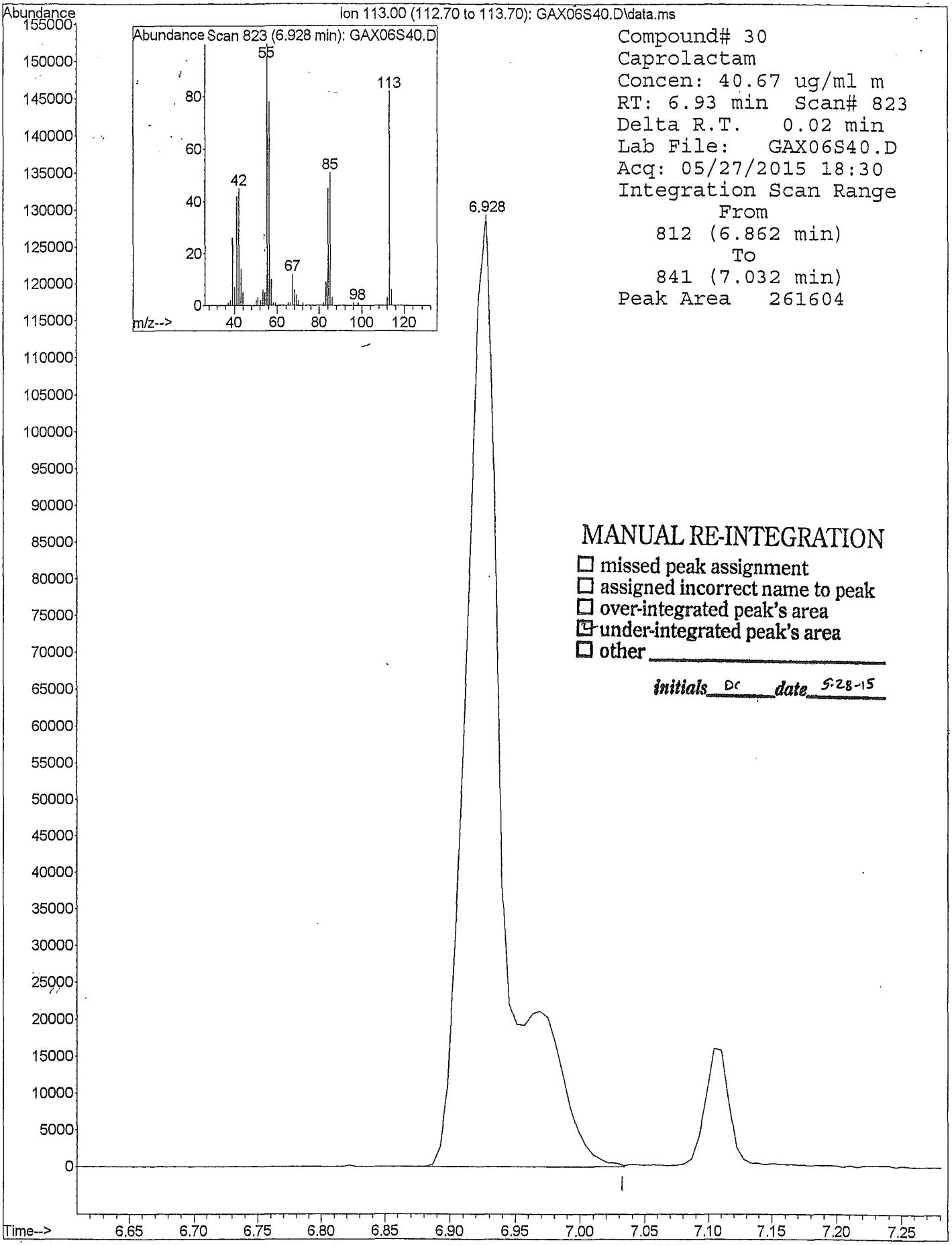
Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX06S40.D Vial: 4
Acq On : 05/27/2015 18:30 Operator: DJC
Sample : SSTD040GX 28170 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:13:25 2015 Results File: GSOM01D4.RES

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)

M A N U A L I N T E G R A T I O N FOR Caprolactam



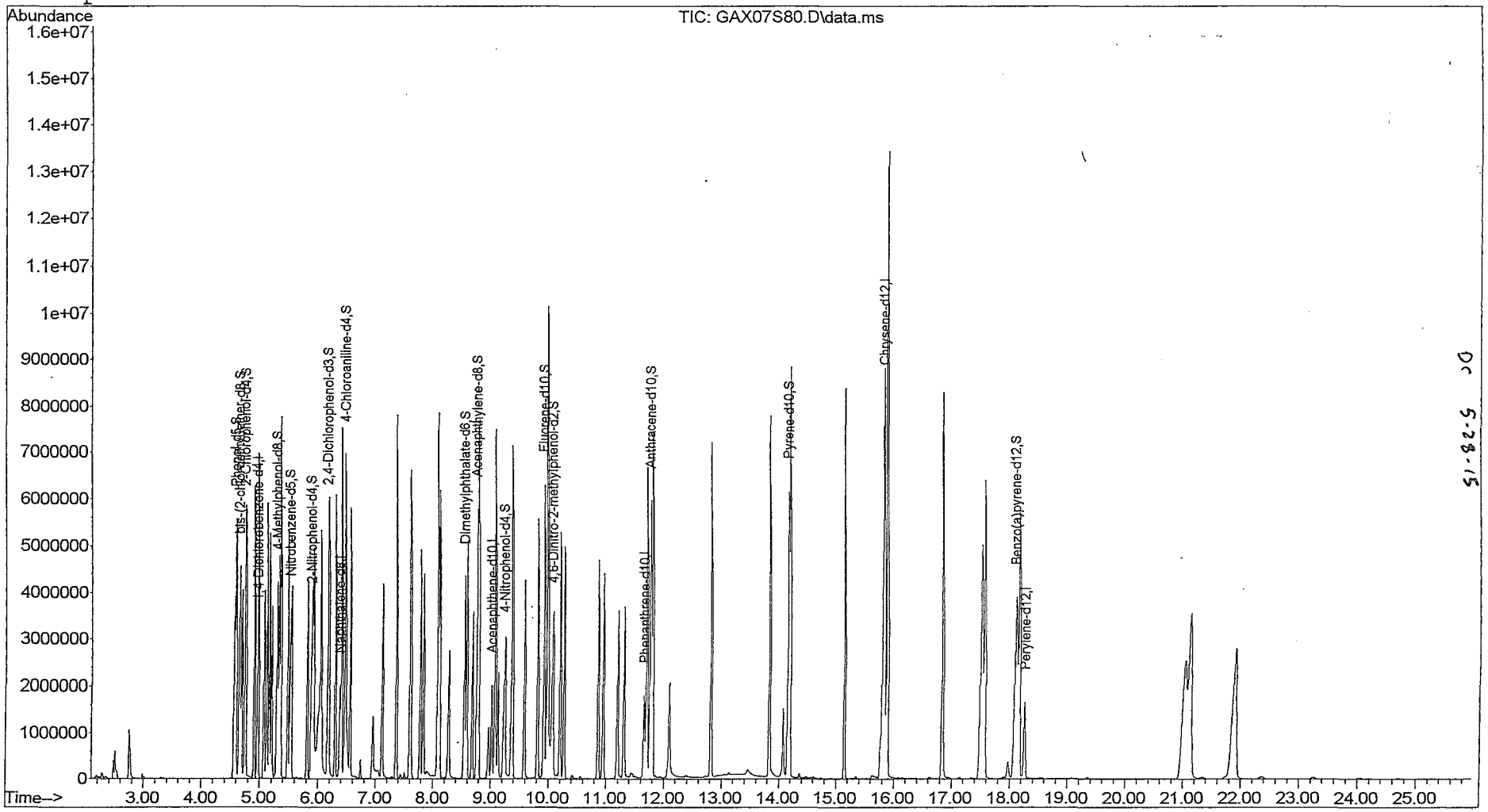
GSOM01D4.M 5975-G GSOM01D4.M SSTD040GX 28170 . X06/19/15

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



GAX07S80.D GSOM01D4.M Thu May 28 11:22:48 2015 Page 4

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)

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

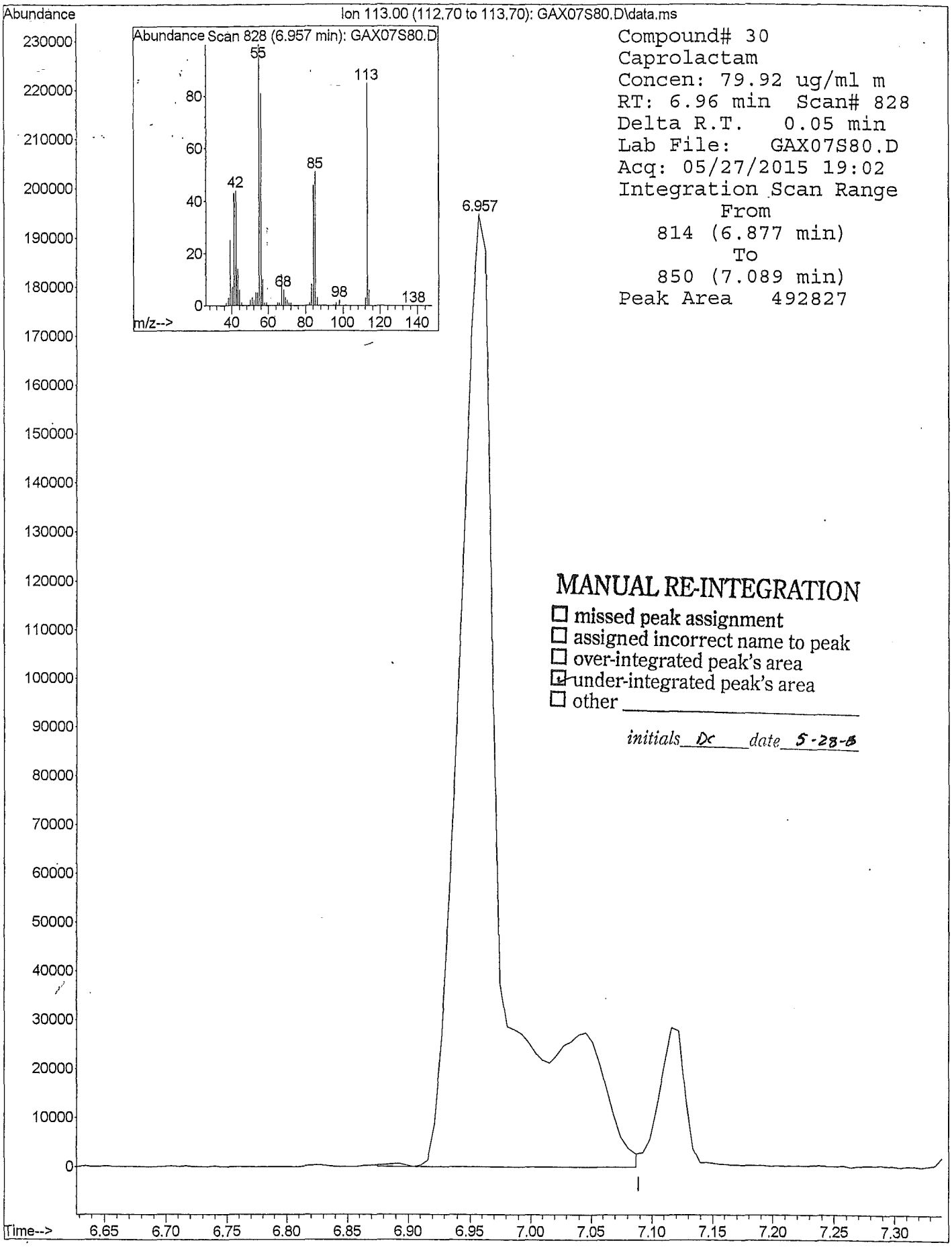
Data File : C:\msdchem\1\data\20...\27MAY15PM\GAX07S80.D Vial: 5
Acq On : 05/27/2015 19:02 Operator: DJC
Sample : SSTD080GX 28171 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: May 28 11:14:58 2015 Results File: GSOM01D4.RES

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)

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 SSTD080GX 28171 . X06/19/15

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.: F9L98

Instrument ID: 5975-G Calibration Date(s): 06/20/2015 06/20/2015

Calibration Time(s): 11:10 13:22

LAB FILE ID: RRF 5.0 = GBV03S05 RRF 10 = GBV04S10
RRF 20 = GBV05S20 RRF 40 = GBV06S40 RRF 80 = GBV07S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Benzaldehyde	1.141	1.182	1.210	1.275	1.108	1.183	5.4
Phenol	1.874	1.940	1.836	1.811	1.891	1.871	2.7
Bis(2-chloroethyl)ether	1.510	1.575	1.530	1.521	1.610	1.549	2.7
2-Chlorophenol	1.395	1.459	1.359	1.312	1.387	1.382	3.9
2-Methylphenol	1.330	1.367	1.238	1.171	1.262	1.274	6.1
2,2'-Oxybis(1-chloropropane)	3.758	3.884	3.674	3.774	3.918	3.802	2.6
Acetophenone	1.970	1.999	1.848	1.896	1.864	1.916	3.5
4-Methylphenol	1.412	1.484	1.372	1.316	1.411	1.399	4.4
N-Nitroso-di-n-propylamine	1.063	1.088	0.999	1.032	1.051	1.047	3.2
Hexachloroethane	0.692	0.724	0.687	0.689	0.714	0.701	2.4
Nitrobenzene	0.467	0.471	0.445	0.456	0.469	0.462	2.4
Isophorone	0.798	0.812	0.757	0.785	0.823	0.795	3.2
2-Nitrophenol	0.215	0.214	0.196	0.198	0.210	0.207	4.3
2,4-Dimethylphenol	0.402	0.406	0.379	0.375	0.399	0.392	3.6
Bis(2-chloroethoxy)methane	0.485	0.499	0.464	0.474	0.485	0.482	2.7
2,4-Dichlorophenol	0.314	0.324	0.298	0.297	0.311	0.309	3.7
Naphthalene	1.062	1.054	0.986	0.950	1.004	1.011	4.6
4-Chloroaniline	0.409	0.402	0.304	0.308	0.331	0.351	14.6
Hexachlorobutadiene	0.220	0.215	0.202	0.206	0.215	0.212	3.5
Caprolactam	0.111	0.112	0.104	0.118	0.118	0.113	5.2
4-Chloro-3-methylphenol	0.335	0.351	0.326	0.336	0.359	0.341	4.0
2-Methylnaphthalene	0.664	0.675	0.615	0.596	0.649	0.640	5.2
Hexachlorocyclopentadiene	0.379	0.409	0.415	0.418	0.438	0.412	5.2
2,4,6-Trichlorophenol	0.413	0.430	0.411	0.403	0.436	0.418	3.3
2,4,5-Trichlorophenol	0.384	0.417	0.402	0.406	0.441	0.410	5.1
1,1'-Biphenyl	1.372	1.418	1.345	1.354	1.321	1.362	2.7
2-Chloronaphthalene	1.188	1.226	1.149	1.131	1.145	1.168	3.3
2-Nitroaniline		0.496	0.460	0.445	0.511	0.478	6.4
Dimethylphthalate	1.309	1.348	1.258	1.284	1.347	1.309	3.0
2,6-Dinitrotoluene	0.294	0.305	0.288	0.293	0.306	0.297	2.6
Acenaphthylene	1.853	1.913	1.789	1.712	1.782	1.810	4.2
3-Nitroaniline		0.306	0.167	0.188	0.207	0.217	28.2
Acenaphthene	1.133	1.154	1.076	1.030	1.091	1.097	4.5
2,4-Dinitrophenol		0.178	0.188	0.204	0.229	0.200	11.2
4-Nitrophenol		0.201	0.189	0.190	0.212	0.198	5.5
Dibenzofuran	1.509	1.531	1.422	1.318	1.441	1.444	5.8

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.: F9L98

Instrument ID: 5975-G Calibration Date(s): 06/20/2015 06/20/2015

Calibration Time(s): 11:10 13:22

LAB FILE ID: RRF 5.0 = GBV03S05 RRF 10 = GBV04S10
RRF 20 = GBV05S20 RRF 40 = GBV06S40 RRF 80 = GBV07S80

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
2,4-Dinitrotoluene	0.394	0.417	0.380	0.390	0.394	0.395	3.4
Diethylphthalate	1.356	1.391	1.283	1.365	1.395	1.358	3.3
Fluorene	1.244	1.291	1.189	1.131	1.162	1.203	5.3
4-Chlorophenyl-phenylether	0.627	0.632	0.591	0.586	0.599	0.607	3.5
4-Nitroaniline		0.324	0.266	0.226	0.211	0.256	19.7
4,6-Dinitro-2-methylphenol		0.164	0.158	0.163	0.176	0.165	4.6
N-Nitrosodiphenylamine[1]	0.578	0.594	0.557	0.548	0.550	0.565	3.6
1,2,4,5-Tetrachlorobenzene	0.584	0.578	0.547	0.523	0.554	0.557	4.4
4-Bromophenyl-phenylether	0.216	0.219	0.206	0.208	0.220	0.214	3.0
Hexachlorobenzene	0.231	0.231	0.221	0.219	0.234	0.227	3.0
Atrazine	0.218	0.220	0.200	0.201	0.186	0.205	6.9
Pentachlorophenol		0.136	0.136	0.136	0.155	0.141	6.9
Phenanthrene	1.081	1.135	1.056	0.997	1.065	1.067	4.7
Anthracene	1.128	1.162	1.075	1.009	1.070	1.089	5.4
Carbazole	0.992	0.975	0.670	0.584	0.508	0.746	30.1
Di-n-butylphthalate	1.498	1.537	1.415	1.442	1.489	1.476	3.3
Fluoranthene	1.194	1.246	1.153	1.099	1.185	1.175	4.6
Pyrene	1.289	1.346	1.266	1.188	1.275	1.273	4.5
Butylbenzylphthalate	0.664	0.699	0.661	0.675	0.697	0.679	2.6
3,3'-Dichlorobenzidine	0.395	0.314	0.224	0.247	0.305	0.297	22.6
Benzo(a)anthracene	1.217	1.254	1.174	1.147	1.276	1.213	4.4
Chrysene	1.092	1.154	1.070	1.036	1.126	1.096	4.2
Bis(2-ethylhexyl)phthalate	0.991	1.037	0.973	0.967	0.978	0.989	2.9
Di-n-octylphthalate	1.947	2.073	1.940	1.961	2.017	1.988	2.8
Benzo(b)fluoranthene	1.245	1.288	1.217	1.153	1.360	1.253	6.2
Benzo(k)fluoranthene	1.174	1.228	1.170	1.133	1.210	1.183	3.2
Benzo(a)pyrene	1.190	1.208	1.140	1.119	1.237	1.179	4.1
Indeno(1,2,3-cd)pyrene	0.990	1.044	1.015	1.010	1.152	1.042	6.2
Dibenzo(a,h)anthracene	1.017	1.054	1.007	1.001	1.137	1.043	5.4
Benzo(g,h,i)perylene	1.005	1.047	0.981	0.987	1.110	1.026	5.2
2,3,4,6-Tetrachlorophenol	0.317	0.344	0.323	0.325	0.353	0.332	4.5

[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.: F9L98

Instrument ID: 5975-G Calibration Date(s): 06/20/2015 06/20/2015

Calibration Time(s): 11:10 13:22

LAB FILE ID: RRF 5.0 = GBV03S05 RRF 10 = GBV04S10

RRF 20 = GBV05S20 RRF 40 = GBV06S40 RRF 80 = GBV07S80

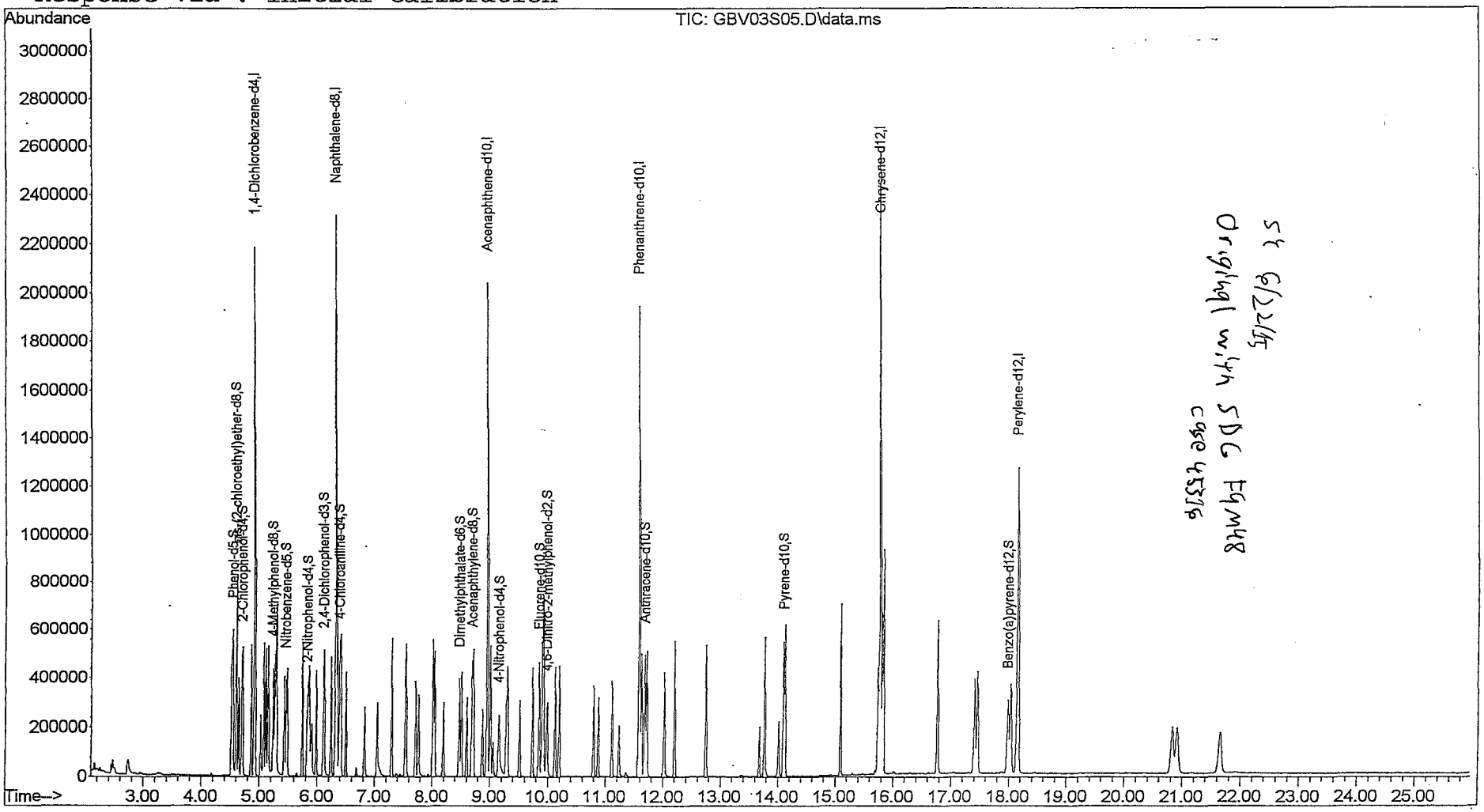
COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Phenol-d5	1.721	1.835	1.696	1.662	1.788	1.740	4.0
Bis(2-chloroethyl)ether-d8	1.369	1.397	1.304	1.283	1.429	1.356	4.6
2-Chlorophenol-d4	1.476	1.504	1.453	1.405	1.511	1.470	2.9
4-Methylphenol-d8	1.140	1.189	1.114	1.131	1.247	1.164	4.6
Nitrobenzene-d5	0.180	0.181	0.170	0.166	0.182	0.176	4.2
2-Nitrophenol-d4	0.193	0.191	0.177	0.175	0.193	0.186	4.7
2,4-Dichlorophenol-d3	0.288	0.302	0.281	0.275	0.300	0.289	4.1
4-Chloroaniline-d4	0.395	0.380	0.260	0.272	0.273	0.316	20.8
Dimethylphthalate-d6	1.271	1.291	1.201	1.197	1.310	1.254	4.2
Acenaphthylene-d8	1.732	1.771	1.659	1.606	1.754	1.704	4.1
4-Nitrophenol-d4		0.255	0.246	0.248	0.274	0.256	5.0
Fluorene-d10	1.067	1.123	1.041	1.016	1.109	1.071	4.2
4,6-Dinitro-2-methylphenol-d2		0.138	0.137	0.137	0.156	0.142	6.7
Anthracene-d10	1.083	1.103	1.042	0.993	1.083	1.061	4.1
Pyrene-d10	0.978	1.044	0.984	0.942	1.043	0.998	4.5
Benzo(a)pyrene-d12	0.944	0.976	0.925	0.914	1.032	0.958	5.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV03S05.D Vial: 3
Acq On : 06/20/2015 11:10 Operator: DJC
Sample : SSTD005GV 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 11:37:32 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration



Original w/ Fig 8 DC case 43516
SC 6/22/15

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV03S05.D Vial: 3
Acq On : 06/20/2015 11:10 Operator: DJC
Sample : SSTD005GV 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 11:37:32 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	315826	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1163105	20.00 ug/ml
33) Acenaphthene-d10	8.95	164	657684	20.00 ug/ml
59) Phenanthrene-d10	11.58	188	1073434	20.00 ug/ml
73) Chrysene-d12	15.77	240	1066701	20.00 ug/ml
81) Perylene-d12	18.15	264	931868	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.53	99	135921	4.877ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	108102	5.056ug/mL
7) 2-Chlorophenol-d4	4.70	132	116501	4.986ug/ml
13) 4-Methylphenol-d8	5.23	113	90005	4.828ug/mL
17) Nitrobenzene-d5	5.46	128	52344	5.131ug/ml
21) 2-Nitrophenol-d4	5.82	143	56002	5.139ug/mL
25) 2,4-Dichlorophenol-d3	6.10	165	83613	4.954ug/mL
28) 4-Chloroaniline-d4	6.38	131	114748	6.275ug/mL
42) Dimethylphthalate-d6	8.47	166	209050	5.038ug/mL
45) Acenaphthylene-d8	8.69	160	284727	5.025ug/mL
50) 4-Nitrophenol-d4	9.15	143	40207	4.767ug/mL
57) Fluorene-d10	9.85	176	175421	4.918ug/mL
61) 4,6-Dinitro-2-methylphenol	9.97	200	31804	4.370ug/mL
69) Anthracene-d10	11.68	188	290577	5.134ug/mL
75) Pyrene-d10	14.09	212	260823	4.916ug/mL
86) Benzo(a)pyrene-d12	17.98	264	219897	4.952ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.52	77	90119	4.767ug/ml	86
4) Phenol	4.55	94	147942	4.943ug/ml	80
5) Bis(2-chloroethyl)ether	4.65	93	119187	4.742ug/ml	89
8) 2-Chlorophenol	4.71	128	110117	4.948ug/ml	82
9) 2-Methylphenol	5.11	108	105011	5.031ug/ml	97
10) 2,2'-Oxybis-(1-chloropropa	5.15	45	296716	4.961ug/ml	100
11) Acetophenone	5.29	105	155576	5.052ug/ml	81
12) 4-methylphenol	5.26	108	111485	4.947ug/ml	95
14) N-Nitroso-di-n-propylamine	5.28	70	83966	4.989ug/ml	75
15) Hexachloroethane	5.43	117	54616	4.904ug/ml	99
18) Nitrobenzene	5.48	77	135817	5.123ug/ml	86
19) Isophorone	5.74	82	232054	5.013ug/ml	90
20) 2-Nitrophenol	5.84	139	62443	5.132ug/ml	70
22) 2,4-Dimethylphenol	5.86	107	116885	5.123ug/ml	81
23) Bis(2-chloroethoxy)methane	5.98	93	141081	5.050ug/ml	98
24) 2,4-Dichlorophenol	6.12	162	91283	4.955ug/ml	96
26) Naphthalene	6.35	128	308828	5.150ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV03S05.D Vial: 3
Acq On : 06/20/2015 11:10 Operator: DJC
Sample : SSTD005GV 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 11:37:32 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.39	127	119016	5.910ug/ml	91
29) Hexachlorobutadiene	6.50	225	64011	5.201ug/ml	96
30) Caprolactam	6.82	113	32224	4.912ug/ml	41
31) 4-Chloro-3-methylphenol	7.05	107	97306	4.912ug/ml	91
32) 2-Methylnaphthalene	7.30	142	193185	5.120ug/ml	99
34) 1,2,4,5-Tetrachlorobenzene	7.55	216	95993	5.202ug/mL	98
35) Hexachlorocyclopentadiene	7.53	237	62281	4.576ug/ml	98
36) 2,4,6-Trichlorophenol	7.71	196	67911	4.925ug/ml	98
37) 2,4,5-Trichlorophenol	7.76	196	63096	4.702ug/ml	99
38) 1,1'-Biphenyl	8.01	154	225647	4.989ug/ml	96
39) 2-Chloronaphthalene	8.04	162	195325	5.062ug/ml	96
40) 2-Nitroaniline	8.19	65	74798	4.857ug/ml	78
41) Dimethylphthalate	8.51	163	215178	4.940ug/ml	99
43) 2,6-Dinitrotoluene	8.60	165	48328	4.814ug/ml	93
44) Acenaphthylene	8.72	152	304609	4.970ug/ml	99
46) 3-Nitroaniline	8.87	138	52358	6.797ug/ml	83
47) Acenaphthene	9.01	153	186315	5.069ug/ml	94
48) 2,4-Dinitrophenol	9.06	184	25130	4.006ug/ml	100
49) 4-Nitrophenol	9.16	109	31266	4.765ug/ml	79
51) Dibenzofuran	9.30	168	248169	5.043ug/ml	99
52) 2,4-Dinitrotoluene	9.28	165	64728	4.831ug/ml	43
53) 2,3,4,6-Tetrachlorophenol	9.51	232	52143	4.702ug/mL	97
54) Diethylphthalate	9.73	149	222962	4.984ug/ml	96
55) 4-Chlorophenyl-phenylether	9.92	204	103012	5.123ug/ml	98
56) Fluorene	9.90	166	204503	4.974ug/ml	98
58) 4-Nitroaniline	9.92	138	53909	5.431ug/ml	87
60) 4,6-Dinitro-2-methylphenol	9.99	198	38340	4.397ug/ml	88
62) N-Nitrosodiphenylamine	10.12	169	155198	5.126ug/ml	94
63) 4-Bromophenyl-phenyl ether	10.79	248	57933	5.222ug/ml	96
64) Hexachlorobenzene	10.87	284	62082	5.221ug/ml	88
65) Atrazine	11.11	200	58567	5.147ug/ml	95
66) Pentachlorophenol	11.23	266	32084	4.444ug/ml	95
67) Phenanthrene	11.62	178	290148	4.944ug/ml	99
68) Anthracene	11.72	178	302592	5.005ug/ml	99
70) Carbazole	12.02	167	266112	5.931ug/mL	98
71) Di-n-butylphthalate	12.75	149	402054	5.004ug/ml	99
72) Fluoranthene	13.77	202	320358	5.014ug/ml	98
74) Pyrene	14.12	202	343819	4.983ug/ml	98
76) Butylbenzylphthalate	15.09	149	177132	4.853ug/ml	92
77) 3,3'-Dichlorobenzidine	15.73	252	105467	6.849ug/ml	98
78) Benzo(a)anthracene	15.76	228	324540	5.074ug/ml	99
79) Chrysene	15.80	228	291253	4.917ug/ml	98
80) Bis-(2-ethylhexyl)phthalat	15.83	149	264149	4.975ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV03S05.D Vial: 3
Acq On : 06/20/2015 11:10 Operator: DJC
Sample : SSTD005GV 28435 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 11:37:32 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.77	149	453597	4.837ug/ml	97
83) Benzo(b)fluoranthene	17.41	252	290099	5.072ug/ml	96
84) Benzo(k)fluoranthene	17.46	252	273588	4.782ug/ml	96
85) Benzo(a)pyrene	18.03	252	277277	4.991ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	20.83	276	230698	4.833ug/ml	94
88) Dibenzo(a,h)anthracene	20.91	278	236955	4.906ug/ml	97
89) Benzo(g,h,i)perylene	21.65	276	234244	4.872ug/ml	95

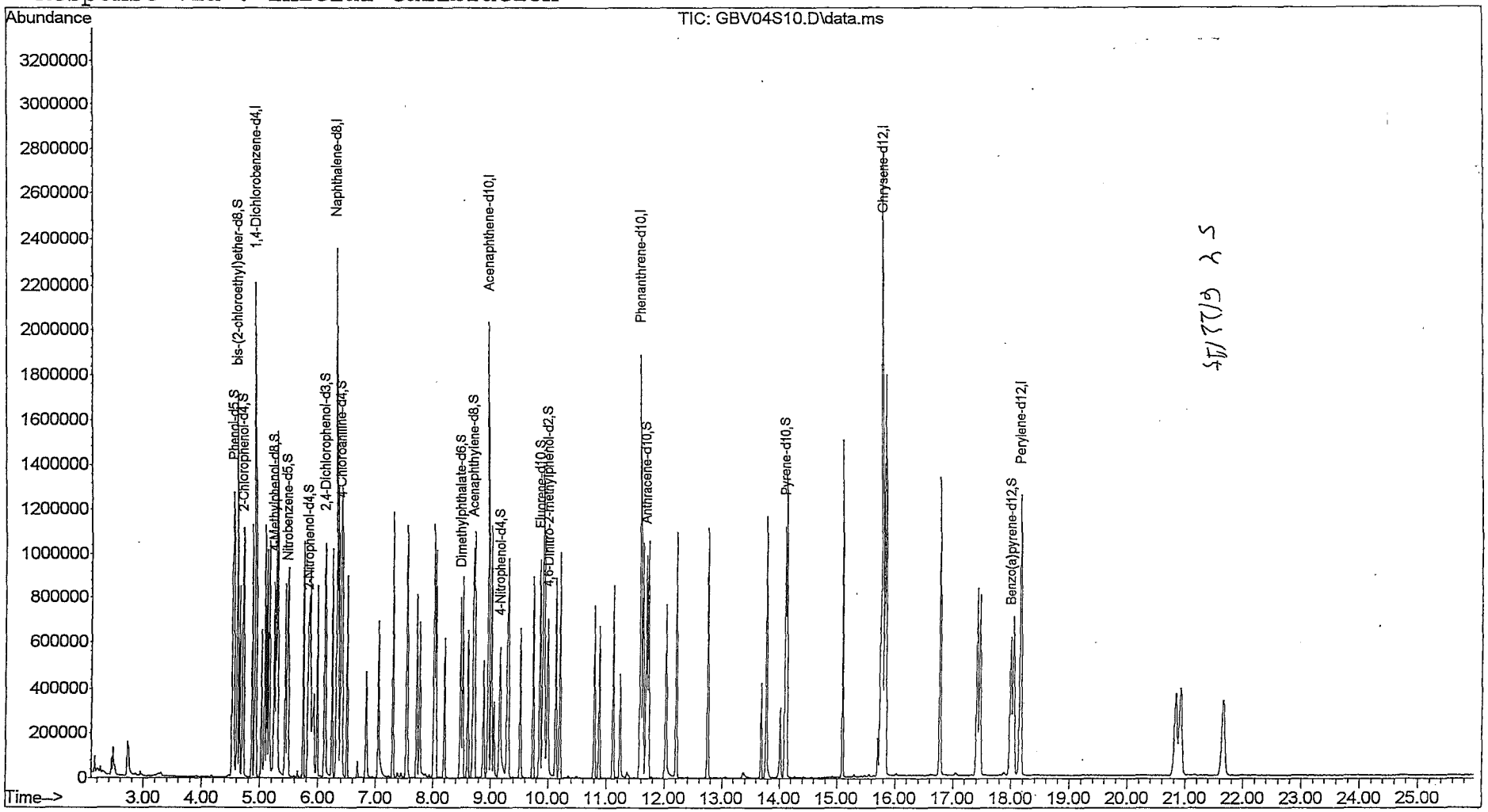
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV04S10.D Vial: 2
Acq On : 06/20/2015 11:43 Operator: DJC
Sample : SSTD010GV 28435 (2) Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 13:34:47 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV04S10.D Vial: 2
Acq On : 06/20/2015 11:43 Operator: DJC
Sample : SSTD010GV 28435 (2) Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:34:47 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	318533	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1191498	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	663751	20.00 ug/ml
59) Phenanthrene-d10	11.58	188	1075639	20.00 ug/ml
73) Chrysene-d12	15.77	240	1041150	20.00 ug/ml
81) Perylene-d12	18.16	264	908046	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.53	99	292259	10.483ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	222448	10.277ug/mL
7) 2-Chlorophenol-d4	4.70	132	239471	10.172ug/ml
13) 4-Methylphenol-d8	5.23	113	189387	10.190ug/mL
17) Nitrobenzene-d5	5.46	128	107581	10.205ug/ml
21) 2-Nitrophenol-d4	5.82	143	113837	10.103ug/mL
25) 2,4-Dichlorophenol-d3	6.11	165	180091	10.448ug/mL
28) 4-Chloroaniline-d4	6.39	131	226156	11.127ug/mL
42) Dimethylphthalate-d6	8.47	166	428438	10.205ug/mL
45) Acenaphthylene-d8	8.69	160	587588	10.258ug/mL
50) 4-Nitrophenol-d4	9.15	143	84548	9.932ug/mL
57) Fluorene-d10	9.85	176	372564	10.406ug/mL
61) 4,6-Dinitro-2-methylphenol	9.98	200	74001	10.147ug/mL
69) Anthracene-d10	11.68	188	593036	10.365ug/mL
75) Pyrene-d10	14.09	212	543513	10.555ug/mL
86) Benzo(a)pyrene-d12	17.99	264	443135	10.274ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.52	77	188233	10.028ug/ml	87
4) Phenol	4.55	94	308962	10.275ug/ml	81
5) Bis(2-chloroethyl)ether	4.65	93	250903	10.070ug/ml	88
8) 2-Chlorophenol	4.71	128	232331	10.387ug/ml	83
9) 2-Methylphenol	5.11	108	217746	10.322ug/ml	98
10) 2,2'-Oxybis-(1-chloropropa	5.15	45	618550	10.281ug/ml	100
11) Acetophenone	5.30	105	318431	10.217ug/ml	78
12) 4-methylphenol	5.26	108	236285	10.433ug/ml	99
14) N-Nitroso-di-n-propylamine	5.29	70	173250	10.214ug/ml	75
15) Hexachloroethane	5.43	117	115311	10.333ug/ml	100
18) Nitrobenzene	5.48	77	280809	10.256ug/ml	87
19) Isophorone	5.74	82	483893	10.195ug/ml	90
20) 2-Nitrophenol	5.84	139	127383	10.131ug/ml	60
22) 2,4-Dimethylphenol	5.86	107	242052	10.271ug/ml	83
23) Bis(2-chloroethoxy)methane	5.98	93	297389	10.357ug/ml	97
24) 2,4-Dichlorophenol	6.12	162	193219	10.269ug/ml	97
26) Naphthalene	6.35	128	627662	10.116ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV04S10.D Vial: 2
Acq On : 06/20/2015 11:43 Operator: DJC
Sample : SSTD010GV 28435 (2) Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:34:47 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.40	127	239508	10.946ug/ml	89
29) Hexachlorobutadiene	6.50	225	128121	10.028ug/ml	98
30) Caprolactam	6.83	113	66807	9.999ug/ml	37
31) 4-Chloro-3-methylphenol	7.05	107	209212	10.371ug/ml	92
32) 2-Methylnaphthalene	7.30	142	402218	10.323ug/ml	98
34) 1,2,4,5-Tetrachlorobenzene	7.55	216	191894	10.167ug/mL	97
35) Hexachlorocyclopentadiene	7.53	237	135610	10.160ug/ml	99
36) 2,4,6-Trichlorophenol	7.72	196	142595	10.297ug/ml	99
37) 2,4,5-Trichlorophenol	7.77	196	138410	10.428ug/ml	98
38) 1,1'-Biphenyl	8.01	154	470713	10.320ug/ml	98
39) 2-Chloronaphthalene	8.05	162	406989	10.408ug/ml	96
40) 2-Nitroaniline	8.19	65	164640	10.594ug/ml	75
41) Dimethylphthalate	8.51	163	447385	10.218ug/ml	99
43) 2,6-Dinitrotoluene	8.60	165	101204	10.114ug/ml	91
44) Acenaphthylene	8.72	152	635006	10.287ug/ml	99
46) 3-Nitroaniline	8.87	138	101441	13.048ug/ml	87
47) Acenaphthene	9.01	153	383058	10.280ug/ml	95
48) 2,4-Dinitrophenol	9.06	184	58992	9.318ug/ml	100
49) 4-Nitrophenol	9.16	109	66735	10.077ug/ml	78
51) Dibenzofuran	9.30	168	507943	10.198ug/ml	98
52) 2,4-Dinitrotoluene	9.28	165	138252	10.341ug/ml	49
53) 2,3,4,6-Tetrachlorophenol	9.52	232	114007	10.393ug/mL	99
54) Diethylphthalate	9.73	149	461580	10.235ug/ml	97
55) 4-Chlorophenyl-phenylether	9.92	204	209767	10.252ug/ml	99
56) Fluorene	9.90	166	428352	10.341ug/ml	98
58) 4-Nitroaniline	9.93	138	107427	10.724ug/ml	78
60) 4,6-Dinitro-2-methylphenol	9.99	198	88036	10.076ug/ml	92
62) N-Nitrosodiphenylamine	10.12	169	319596	10.447ug/ml	95
63) 4-Bromophenyl-phenyl ether	10.79	248	117649	10.429ug/ml	99
64) Hexachlorobenzene	10.87	284	124327	10.282ug/ml	91
65) Atrazine	11.12	200	118399	10.284ug/ml	98
66) Pentachlorophenol	11.23	266	73387	10.145ug/ml	98
67) Phenanthrene	11.63	178	610508	10.421ug/ml	99
68) Anthracene	11.72	178	624774	10.309ug/ml	99
70) Carbazole	12.02	167	524378	10.981ug/mL	99
71) Di-n-butylphthalate	12.75	149	826688	10.265ug/ml	100
72) Fluoranthene	13.77	202	669933	10.454ug/ml	97
74) Pyrene	14.12	202	700932	10.420ug/ml	98
76) Butylbenzylphthalate	15.09	149	363932	10.317ug/ml	91
77) 3,3'-Dichlorobenzidine	15.74	252	163280	9.672ug/ml	97
78) Benzo(a)anthracene	15.76	228	652713	10.405ug/ml	99
79) Chrysene	15.81	228	600784	10.449ug/ml	99
80) Bis-(2-ethylhexyl)phthalat	15.83	149	539931	10.436ug/ml	98

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV04S10.D Vial: 2
Acq On : 06/20/2015 11:43 Operator: DJC
Sample : SSTD010GV 28435 (2) Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:34:47 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.77	149	941255	10.414ug/ml	97
83) Benzo(b)fluoranthene	17.41	252	584927	10.445ug/ml	97
84) Benzo(k)fluoranthene	17.46	252	557722	10.151ug/ml	96
85) Benzo(a)pyrene	18.03	252	548322	10.134ug/ml	97
87) Indeno(1,2,3-c,d)pyrene	20.83	276	473777	10.301ug/ml	92
88) Dibenzo(a,h)anthracene	20.92	278	478543	10.231ug/ml	97
89) Benzo(g,h,i)perylene	21.66	276	475293	10.232ug/ml	95

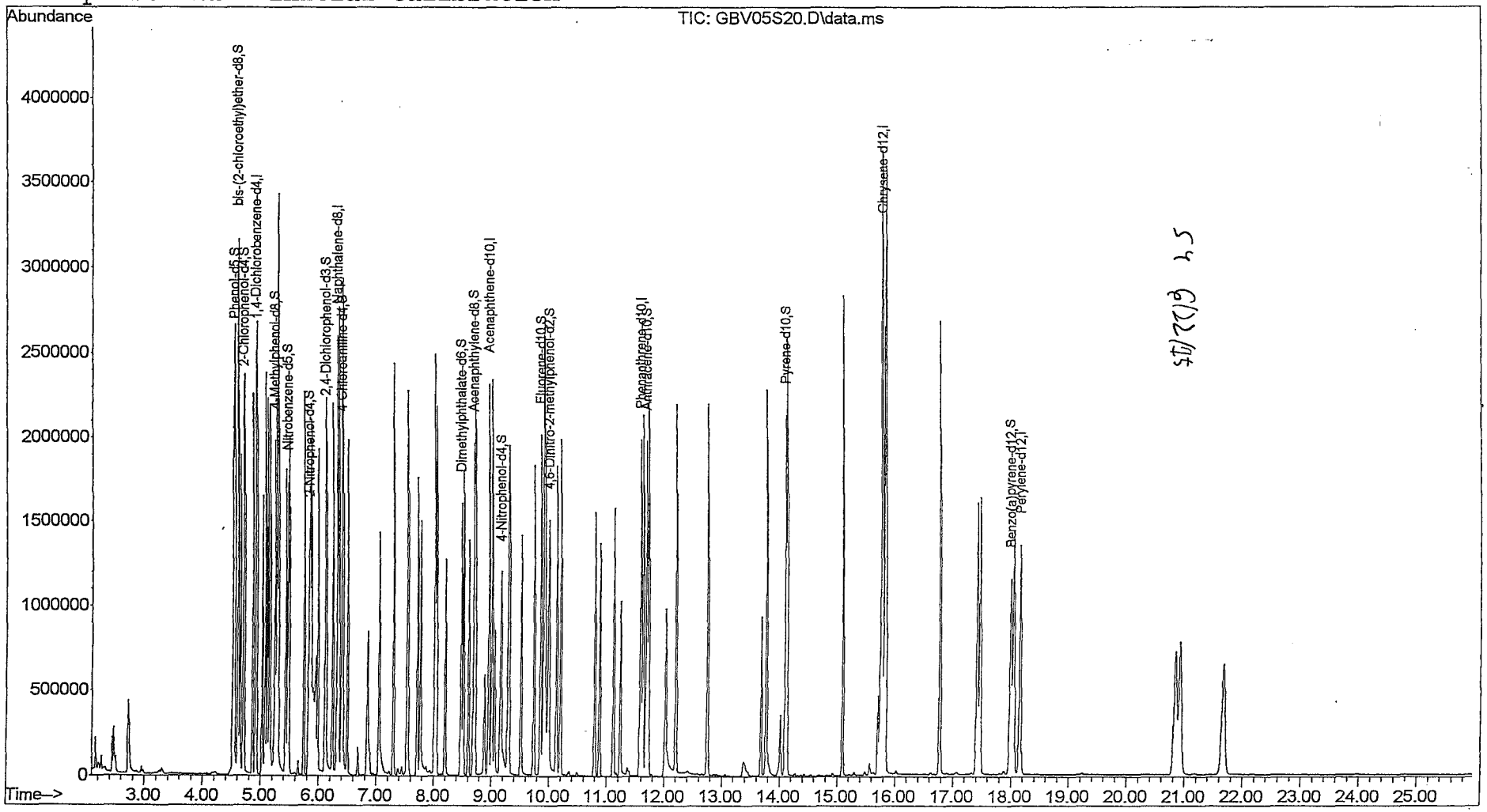
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV05S20.D Vial: 1
Acq On : 06/20/2015 12:16 Operator: DJC
Sample : SSTD020GV 28435 DFTPPGV Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 13:39:18 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration



GBV05S20.D GSOM01D6.M Sat Jun 20 13:57:27 2015 Page 4

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV05S20.D Vial: 1
Acq On : 06/20/2015 12:16 Operator: DJC
Sample : SSTD020GV 28435 DFTPPGV Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:39:18 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	362165	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1346042	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	732429	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1168838	20.00 ug/ml
73) Chrysene-d12	15.78	240	1108274	20.00 ug/ml
81) Perylene-d12	18.16	264	964923	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.53	99	614121	19.393ug/ml
6) bis-(2-chloroethyl)ether-d	4.60	67	472137	19.309ug/mL
7) 2-Chlorophenol-d4	4.70	132	526220	19.841ug/ml
13) 4-Methylphenol-d8	5.24	113	403377	19.286ug/mL
17) Nitrobenzene-d5	5.46	128	229096	19.237ug/ml
21) 2-Nitrophenol-d4	5.83	143	237986	18.836ug/mL
25) 2,4-Dichlorophenol-d3	6.11	165	378394	19.329ug/mL
28) 4-Chloroaniline-d4	6.39	131	349406	15.278ug/mL
42) Dimethylphthalate-d6	8.47	166	879657	19.107ug/mL
45) Acenaphthylene-d8	8.69	160	1215219	19.202ug/mL
50) 4-Nitrophenol-d4	9.16	143	180114	19.659ug/mL
57) Fluorene-d10	9.85	176	762339	19.349ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	160430	20.089ug/mL
69) Anthracene-d10	11.69	188	1217962	19.517ug/mL
75) Pyrene-d10	14.09	212	1090069	19.744ug/mL
86) Benzo(a)pyrene-d12	17.99	264	892866	19.566ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.52	77	438276	20.631ug/ml	84
4) Phenol	4.55	94	665060	19.550ug/ml	84
5) Bis(2-chloroethyl)ether	4.65	93	554170	19.779ug/ml	90
8) 2-Chlorophenol	4.72	128	492261	19.421ug/ml	82
9) 2-Methylphenol	5.12	108	448243	18.790ug/ml	99
10) 2,2'-Oxybis-(1-chloropropa	5.15	45	1330606	19.536ug/ml	100
11) Acetophenone	5.30	105	669143	19.021ug/ml	80
12) 4-methylphenol	5.27	108	496885	19.376ug/ml	100
14) N-Nitroso-di-n-propylamine	5.29	70	361819	18.874ug/ml	74
15) Hexachloroethane	5.43	117	248815	19.643ug/ml	99
18) Nitrobenzene	5.49	77	599146	19.346ug/ml	86
19) Isophorone	5.75	82	1019288	19.163ug/ml	90
20) 2-Nitrophenol	5.85	139	264103	18.736ug/ml	62
22) 2,4-Dimethylphenol	5.86	107	509828	19.157ug/ml	82
23) Bis(2-chloroethoxy)methane	5.99	93	624979	19.260ug/ml	97
24) 2,4-Dichlorophenol	6.13	162	400527	18.925ug/ml	97
26) Naphthalene	6.35	128	1327473	19.043ug/ml	100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV05S20.D Vial: 1
Acq On : 06/20/2015 12:16 Operator: DJC
Sample : SSTD020GV 28435 DFTPPGV Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:39:18 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.40	127	409220	16.586ug/ml	89
29) Hexachlorobutadiene	6.50	225	271322	18.802ug/ml	99
30) Caprolactam	6.85	113	140186	18.780ug/ml	39
31) 4-Chloro-3-methylphenol	7.05	107	438279	19.188ug/ml	90
32) 2-Methylnaphthalene	7.30	142	827753	18.766ug/ml	97
34) 1,2,4,5-Tetrachlorobenzene	7.55	216	400331	19.240ug/mL	98
35) Hexachlorocyclopentadiene	7.53	237	303920	20.748ug/ml	99
36) 2,4,6-Trichlorophenol	7.72	196	300906	19.577ug/ml	99
37) 2,4,5-Trichlorophenol	7.77	196	294314	20.195ug/ml	99
38) 1,1'-Biphenyl	8.02	154	985351	19.602ug/ml	96
39) 2-Chloronaphthalene	8.05	162	841300	19.369ug/ml	96
40) 2-Nitroaniline	8.20	65	337016	19.448ug/ml	76
41) Dimethylphthalate	8.52	163	921683	19.200ug/ml	99
43) 2,6-Dinitrotoluene	8.61	165	211268	19.364ug/ml	90
44) Acenaphthylene	8.72	152	1310080	19.324ug/ml	99
46) 3-Nitroaniline	8.88	138	122455	14.842ug/ml	82
47) Acenaphthene	9.01	153	788072	19.182ug/ml	94
48) 2,4-Dinitrophenol	9.06	184	137969	20.461ug/ml	100
49) 4-Nitrophenol	9.17	109	138666	19.306ug/ml	80
51) Dibenzofuran	9.31	168	1041601	19.100ug/ml	97
52) 2,4-Dinitrotoluene	9.29	165	278006	18.937ug/ml	43
53) 2,3,4,6-Tetrachlorophenol	9.52	232	236802	19.690ug/mL	98
54) Diethylphthalate	9.74	149	939877	19.003ug/ml	97
55) 4-Chlorophenyl-phenylether	9.92	204	432806	19.226ug/ml	98
56) Fluorene	9.90	166	870676	19.135ug/ml	99
58) 4-Nitroaniline	9.94	138	194899	18.146ug/ml	73
60) 4,6-Dinitro-2-methylphenol	10.00	198	184750	19.479ug/ml	89
62) N-Nitrosodiphenylamine	10.13	169	651086	19.509ug/ml	94
63) 4-Bromophenyl-phenyl ether	10.79	248	240799	19.419ug/ml	99
64) Hexachlorobenzene	10.88	284	258039	19.631ug/ml	90
65) Atrazine	11.12	200	233733	18.768ug/ml	98
66) Pentachlorophenol	11.24	266	158569	20.001ug/ml	99
67) Phenanthrene	11.63	178	1233823	19.348ug/ml	100
68) Anthracene	11.72	178	1256376	19.121ug/ml	99
70) Carbazole	12.03	167	782799	15.223ug/mL	97
71) Di-n-butylphthalate	12.75	149	1653429	18.950ug/ml	100
72) Fluoranthene	13.77	202	1348111	19.310ug/ml	98
74) Pyrene	14.13	202	1403033	19.608ug/ml	98
76) Butylbenzylphthalate	15.09	149	732411	19.543ug/ml	91
77) 3,3'-Dichlorobenzidine	15.74	252	248083	14.613ug/ml	99
78) Benzo(a)anthracene	15.76	228	1300807	19.484ug/ml	99
79) Chrysene	15.81	228	1186136	19.395ug/ml	99
80) Bis-(2-ethylhexyl)phthalat	15.83	149	1078068	19.567ug/ml	96

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV05S20.D Vial: 1
Acq On : 06/20/2015 12:16 Operator: DJC
Sample : SSTD020GV 28435 DFTPPGV Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:39:18 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.77	149	1871684	19.466ug/ml	97
83) Benzo(b)fluoranthene	17.42	252	1174571	19.625ug/ml	96
84) Benzo(k)fluoranthene	17.46	252	1129002	19.557ug/ml	97
85) Benzo(a)pyrene	18.04	252	1100231	19.272ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	20.84	276	979203	20.077ug/ml	91
88) Dibenzo(a,h)anthracene	20.93	278	971499	19.666ug/ml	96
89) Benzo(g,h,i)perylene	21.68	276	947001	19.285ug/ml	96

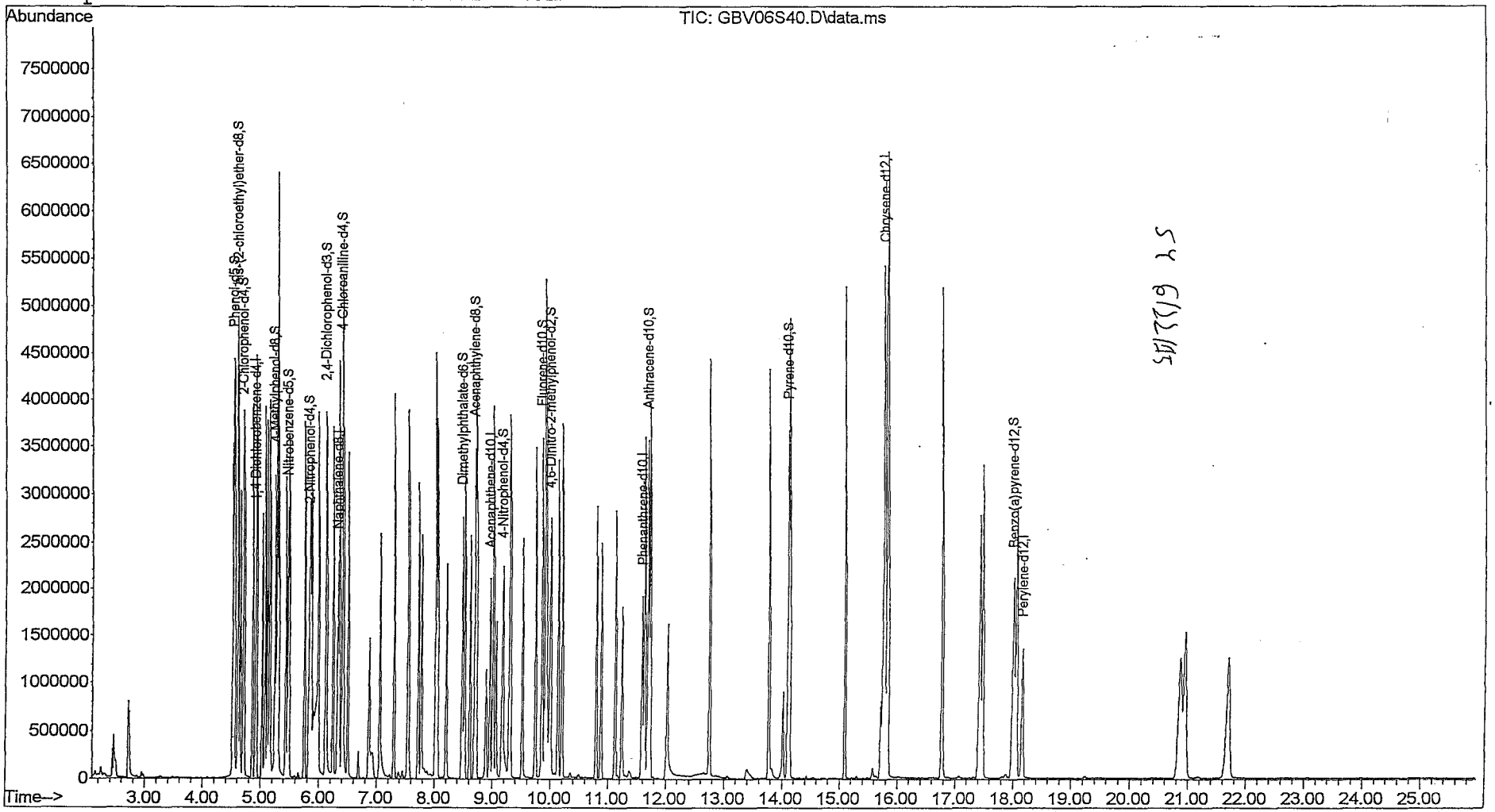
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV06S40.D Vial: 4
Acq On : 06/20/2015 12:49 Operator: DJC
Sample : SSTD040GV 28436 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 13:43:01 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV06S40.D Vial: 4
Acq On : 06/20/2015 12:49 Operator: DJC
Sample : SSTD040GV 28436 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:43:01 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.91	152	317040	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1190017	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	678332	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	1128340	20.00 ug/ml
73) Chrysene-d12	15.78	240	1086729	20.00 ug/ml
81) Perylene-d12	18.16	264	965896	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.54	99	1053993	37.978ug/ml
6) bis-(2-chloroethyl)ether-d	4.61	67	813522	37.833ug/mL
7) 2-Chlorophenol-d4	4.70	132	890751	38.035ug/ml
13) 4-Methylphenol-d8	5.25	113	717254	39.427ug/mL
17) Nitrobenzene-d5	5.47	128	394182	37.443ug/ml
21) 2-Nitrophenol-d4	5.83	143	417440	37.552ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	654443	37.885ug/mL
28) 4-Chloroaniline-d4	6.40	131	646635	31.536ug/mL
42) Dimethylphthalate-d6	8.48	166	1623618	38.160ug/mL
45) Acenaphthylene-d8	8.70	160	2178895	37.341ug/mL
50) 4-Nitrophenol-d4	9.17	143	337084	39.701ug/mL
57) Fluorene-d10	9.86	176	1378462	37.745ug/mL
61) 4,6-Dinitro-2-methylphenol	9.99	200	308621	39.806ug/mL
69) Anthracene-d10	11.69	188	2240412	36.913ug/mL
75) Pyrene-d10	14.10	212	2046995	37.601ug/mL
86) Benzo(a)pyrene-d12	18.00	264	1765776	38.551ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.52	77	808664	43.312ug/ml	84
4) Phenol	4.55	94	1148617	38.474ug/ml	84
5) Bis(2-chloroethyl)ether	4.65	93	964657	39.558ug/ml	86
8) 2-Chlorophenol	4.72	128	831786	37.368ug/ml	82
9) 2-Methylphenol	5.12	108	742723	35.722ug/ml	97
10) 2,2'-Oxybis-(1-chloropropa	5.16	45	2392860	40.019ug/ml	100
11) Acetophenone	5.30	105	1202468	39.119ug/ml	77
12) 4-methylphenol	5.27	108	834459	37.005ug/ml	98
14) N-Nitroso-di-n-propylamine	5.30	70	654182	39.299ug/ml	74
15) Hexachloroethane	5.43	117	437033	39.333ug/ml	100
18) Nitrobenzene	5.49	77	1084949	39.538ug/ml	86
19) Isophorone	5.75	82	1868247	39.786ug/ml	90
20) 2-Nitrophenol	5.85	139	471302	38.034ug/ml	63
22) 2,4-Dimethylphenol	5.86	107	892936	37.928ug/ml	87
23) Bis(2-chloroethoxy)methane	5.99	93	1129056	39.295ug/ml	99
24) 2,4-Dichlorophenol	6.13	162	707960	38.143ug/ml	96
26) Naphthalene	6.35	128	2260915	36.750ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV06S40.D Vial: 4
Acq On : 06/20/2015 12:49 Operator: DJC
Sample : SSTD040GV 28436 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:43:01 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.41	127	732626	33.118ug/ml	88
29) Hexachlorobutadiene	6.50	225	491403	38.909ug/ml	99
30) Caprolactam	6.87	113	281720	43.424ug/ml m SY	40
31) 4-Chloro-3-methylphenol	7.05	107	798754	39.818ug/ml 6/22/15	90
32) 2-Methylnaphthalene	7.30	142	1417769	36.574ug/ml	98
34) 1,2,4,5-Tetrachlorobenzene	7.55	216	709316	36.720ug/mL	99
35) Hexachlorocyclopentadiene	7.53	237	567109	41.720ug/ml	99
36) 2,4,6-Trichlorophenol	7.72	196	546717	38.578ug/ml	98
37) 2,4,5-Trichlorophenol	7.77	196	551225	40.542ug/ml	97
38) 1,1'-Biphenyl	8.02	154	1837236	39.291ug/ml	96
39) 2-Chloronaphthalene	8.05	162	1534212	38.088ug/ml	96
40) 2-Nitroaniline	8.20	65	603413	37.211ug/ml	77
41) Dimethylphthalate	8.52	163	1742090	39.358ug/ml	100
43) 2,6-Dinitrotoluene	8.62	165	397732	39.648ug/ml	91
44) Acenaphthylene	8.72	152	2322997	36.991ug/ml	100
46) 3-Nitroaniline	8.89	138	255477	31.860ug/ml	86
47) Acenaphthene	9.02	153	1397013	36.740ug/ml	94
48) 2,4-Dinitrophenol	9.06	184	277087	44.628ug/ml	100
49) 4-Nitrophenol	9.18	109	257579	38.905ug/ml	78
51) Dibenzofuran	9.31	168	1788305	35.450ug/ml	96
52) 2,4-Dinitrotoluene	9.30	165	529489	39.363ug/ml	48
53) 2,3,4,6-Tetrachlorophenol	9.52	232	440595	39.607ug/mL	98
54) Diethylphthalate	9.75	149	1852049	40.649ug/ml	95
55) 4-Chlorophenyl-phenylether	9.92	204	795096	38.025ug/ml	99
56) Fluorene	9.91	166	1534355	36.451ug/ml	99
58) 4-Nitroaniline	9.95	138	305936	30.588ug/ml	79
60) 4,6-Dinitro-2-methylphenol	10.00	198	367929	40.538ug/ml	92
62) N-Nitrosodiphenylamine	10.13	169	1236845	38.026ug/ml	93
63) 4-Bromophenyl-phenyl ether	10.80	248	469497	38.970ug/ml	98
64) Hexachlorobenzene	10.89	284	493347	38.394ug/ml	89
65) Atrazine	11.13	200	454648	37.872ug/ml	97
66) Pentachlorophenol	11.24	266	305854	39.845ug/ml	98
67) Phenanthrene	11.63	178	2250039	36.567ug/ml	99
68) Anthracene	11.73	178	2277268	35.996ug/ml	99
70) Carbazole	12.03	167	1318041	26.585ug/mL	98
71) Di-n-butylphthalate	12.75	149	3254347	38.889ug/ml	100
72) Fluoranthene	13.77	202	2480769	36.717ug/ml	98
74) Pyrene	14.13	202	2583145	36.553ug/ml	98
76) Butylbenzylphthalate	15.10	149	1466357	39.996ug/ml	92
77) 3,3'-Dichlorobenzidine	15.74	252	535793	31.707ug/ml	99
78) Benzo(a)anthracene	15.77	228	2491911	37.750ug/ml	98
79) Chrysene	15.82	228	2251803	37.487ug/ml	99
80) Bis-(2-ethylhexyl)phthalat	15.83	149	2100766	38.656ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

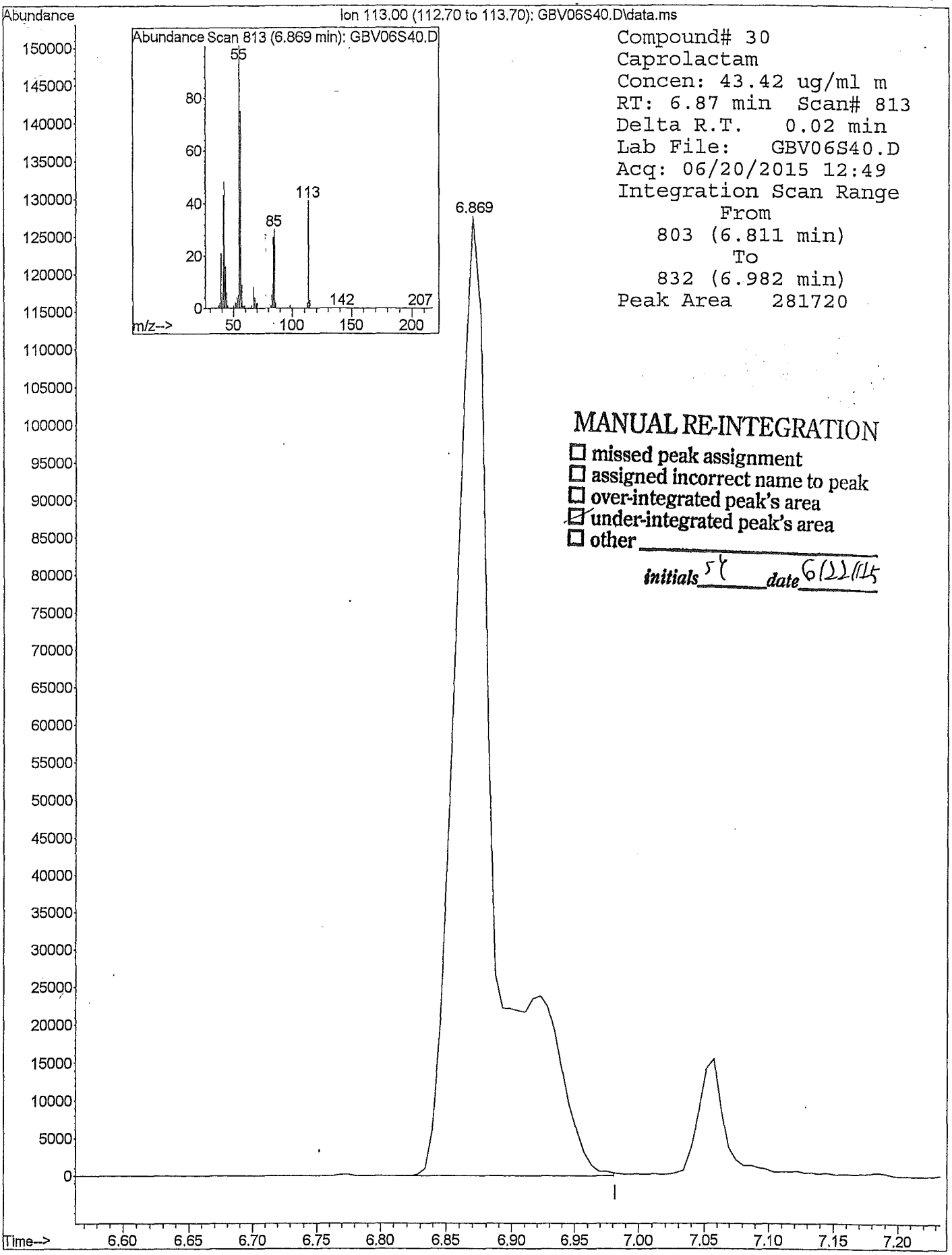
Data File : C:\msdchem\1\data\20...15\20JUN15\GBV06S40.D Vial: 4
Acq On : 06/20/2015 12:49 Operator: DJC
Sample : SSTD040GV 28436 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:43:01 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.77	149	3788412	39.486ug/ml	97
83) Benzo(b)fluoranthene	17.42	252	2227045	36.883ug/ml	97
84) Benzo(k)fluoranthene	17.47	252	2188343	38.048ug/ml	96
85) Benzo(a)pyrene	18.06	252	2160883	37.938ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	20.86	276	1952060	39.776ug/ml	90
88) Dibenzo(a,h)anthracene	20.94	278	1932994	39.011ug/ml	96
89) Benzo(g,h,i)perylene	21.70	276	1907457	39.057ug/ml	94

(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 Caprolactam



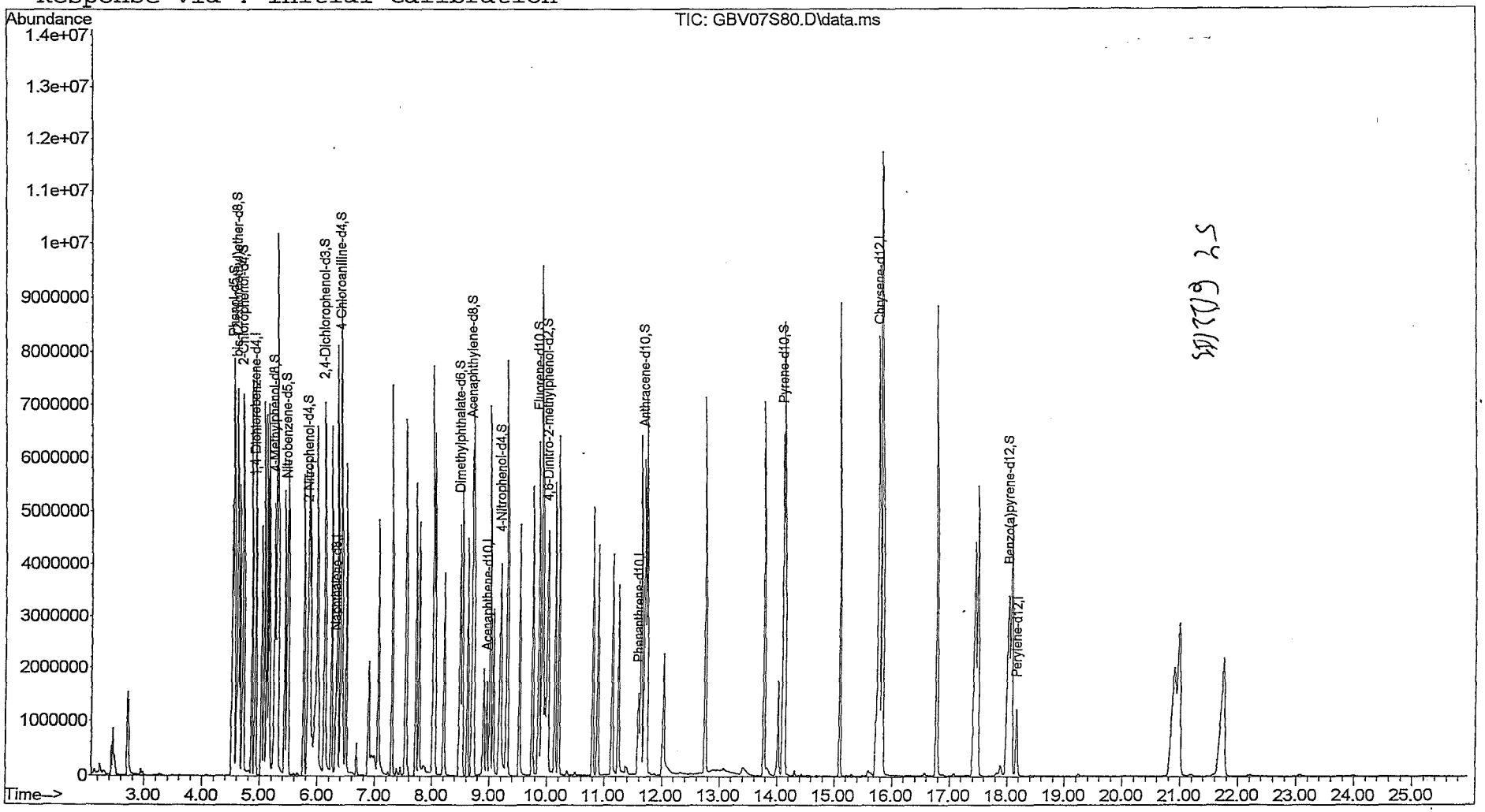
GSOM01D6.M 5975-G GSOM01D6.M SSTD040GV 28436 . X07/19/15

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV07S80.D Vial: 5
Acq On : 06/20/2015 13:22 Operator: DJC
Sample : SSTD080GV 28437 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 20 13:50:11 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV07S80.D Vial: 5
Acq On : 06/20/2015 13:22 Operator: DJC
Sample : SSTD080GV 28437 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:50:11 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.92	152	277225	20.00 ug/ml
16) Naphthalene-d8	6.32	136	1035637	20.00 ug/ml
33) Acenaphthene-d10	8.96	164	585961	20.00 ug/ml
59) Phenanthrene-d10	11.59	188	969286	20.00 ug/ml
73) Chrysene-d12	15.79	240	923361	20.00 ug/ml
81) Perylene-d12	18.17	264	834009	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.55	99	1982464	82.738ug/ml
6) bis-(2-chloroethyl)ether-d	4.62	67	1584805	85.443ug/mL
7) 2-Chlorophenol-d4	4.70	132	1675146	82.819ug/ml
13) 4-Methylphenol-d8	5.25	113	1382291	87.209ug/mL
17) Nitrobenzene-d5	5.47	128	754213	83.658ug/ml
21) 2-Nitrophenol-d4	5.83	143	798149	83.784ug/mL
25) 2,4-Dichlorophenol-d3	6.12	165	1242468	83.755ug/mL
28) 4-Chloroaniline-d4	6.40	131	1129750	66.847ug/mL
42) Dimethylphthalate-d6	8.49	166	3071539	84.543ug/mL
45) Acenaphthylene-d8	8.70	160	4111703	82.951ug/mL
50) 4-Nitrophenol-d4	9.19	143	642810	87.863ug/mL
57) Fluorene-d10	9.86	176	2598661	83.551ug/mL
61) 4,6-Dinitro-2-methylphenol	10.01	200	605664	91.085ug/mL
69) Anthracene-d10	11.70	188	4198026	82.100ug/mL
75) Pyrene-d10	14.11	212	3852147	84.547ug/mL
86) Benzo(a)pyrene-d12	18.02	264	3444382	87.887ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.52	77	1229123	73.760ug/ml	88
4) Phenol	4.56	94	2097381	81.117ug/ml	83
5) Bis(2-chloroethyl)ether	4.65	93	1785514	83.967ug/ml	87
8) 2-Chlorophenol	4.72	128	1537499	80.313ug/ml	80
9) 2-Methylphenol	5.12	108	1398916	79.059ug/ml	97
10) 2,2'-Oxybis-(1-chloropropa	5.16	45	4344811	83.091ug/ml	100
11) Acetophenone	5.31	105	2066760	77.318ug/ml	43
12) 4-methylphenol	5.28	108	1564158	80.840ug/ml	98
14) N-Nitroso-di-n-propylamine	5.32	70	1164951	80.386ug/ml	76
15) Hexachloroethane	5.43	117	792100	81.870ug/ml	99
18) Nitrobenzene	5.49	77	1943781	81.630ug/ml	86
19) Isophorone	5.76	82	3410093	83.559ug/ml	90
20) 2-Nitrophenol	5.85	139	869006	81.585ug/ml	62
22) 2,4-Dimethylphenol	5.87	107	1651866	81.680ug/ml	86
23) Bis(2-chloroethoxy)methane	5.99	93	2010222	80.748ug/ml	100
24) 2,4-Dichlorophenol	6.13	162	1289184	80.749ug/ml	96
26) Naphthalene	6.35	128	4157812	79.268ug/ml	100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\20JUN15\GBV07S80.D Vial: 5
Acq On : 06/20/2015 13:22 Operator: DJC
Sample : SSTD080GV 28437 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:50:11 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.42	127	1371977	74.468ug/ml	88
29)	Hexachlorobutadiene	6.50	225	889645	81.499ug/ml	99
30)	Caprolactam	6.90	113	488213	84.658ug/ml m 54 6/22/15	44
31)	4-Chloro-3-methylphenol	7.06	107	1488509	85.361ug/ml	90
32)	2-Methylnaphthalene	7.30	142	2688249	81.430ug/ml	98
34)	1,2,4,5-Tetrachlorobenzene	7.56	216	1297848	79.407ug/mL	98
35)	Hexachlorocyclopentadiene	7.54	237	1026104	86.457ug/ml	99
36)	2,4,6-Trichlorophenol	7.72	196	1021200	84.166ug/ml	99
37)	2,4,5-Trichlorophenol	7.78	196	1032676	87.628ug/ml	99
38)	1,1'-Biphenyl	8.02	154	3095265	76.971ug/ml	97
39)	2-Chloronaphthalene	8.05	162	2684690	78.089ug/ml	97
40)	2-Nitroaniline	8.22	65	1197493	87.522ug/ml	76
41)	Dimethylphthalate	8.53	163	3158299	82.934ug/ml	99
43)	2,6-Dinitrotoluene	8.63	165	717048	82.929ug/ml	90
44)	Acenaphthylene	8.73	152	4177815	78.491ug/ml	99
46)	3-Nitroaniline	8.91	138	486176	75.295ug/ml	82
47)	Acenaphthene	9.02	153	2557862	79.493ug/ml	94
48)	2,4-Dinitrophenol	9.07	184	537610	96.515ug/ml	100
49)	4-Nitrophenol	9.20	109	497312	87.757ug/ml	77
51)	Dibenzofuran	9.32	168	3378235	79.794ug/ml	96
52)	2,4-Dinitrotoluene	9.31	165	923150	79.764ug/ml	44
53)	2,3,4,6-Tetrachlorophenol	9.53	232	826730	86.245ug/mL	98
54)	Diethylphthalate	9.76	149	3270429	82.759ug/ml	96
55)	4-Chlorophenyl-phenylether	9.93	204	1404998	78.758ug/ml	99
56)	Fluorene	9.92	166	2723242	76.593ug/ml	99
58)	4-Nitroaniline	9.96	138	493564	61.988ug/ml	87
60)	4,6-Dinitro-2-methylphenol	10.02	198	682365	87.128ug/ml	90
62)	N-Nitrosodiphenylamine	10.15	169	2130975	77.219ug/ml	93
63)	4-Bromophenyl-phenyl ether	10.80	248	854214	83.072ug/ml	96
64)	Hexachlorobenzene	10.89	284	906280	82.937ug/ml	88
65)	Atrazine	11.14	200	722049	70.960ug/ml	98
66)	Pentachlorophenol	11.25	266	602487	91.487ug/ml	99
67)	Phenanthrene	11.64	178	4127601	79.801ug/ml	99
68)	Anthracene	11.74	178	4148218	78.288ug/ml	99
70)	Carbazole	12.03	167	1970803	50.509ug/mL	99
71)	Di-n-butylphthalate	12.76	149	5771176	80.843ug/ml	100
72)	Fluoranthene	13.78	202	4595038	80.828ug/ml	97
74)	Pyrene	14.14	202	4710269	80.173ug/ml	97
76)	Butylbenzylphthalate	15.10	149	2574119	82.636ug/ml	89
77)	3,3'-Dichlorobenzidine	15.75	252	1125502	82.673ug/ml	98
78)	Benzo(a)anthracene	15.77	228	4711068	85.193ug/ml	99
79)	Chrysene	15.82	228	4157896	82.765ug/ml	100
80)	Bis-(2-ethylhexyl)phthalat	15.84	149	3613164	78.912ug/ml	97

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

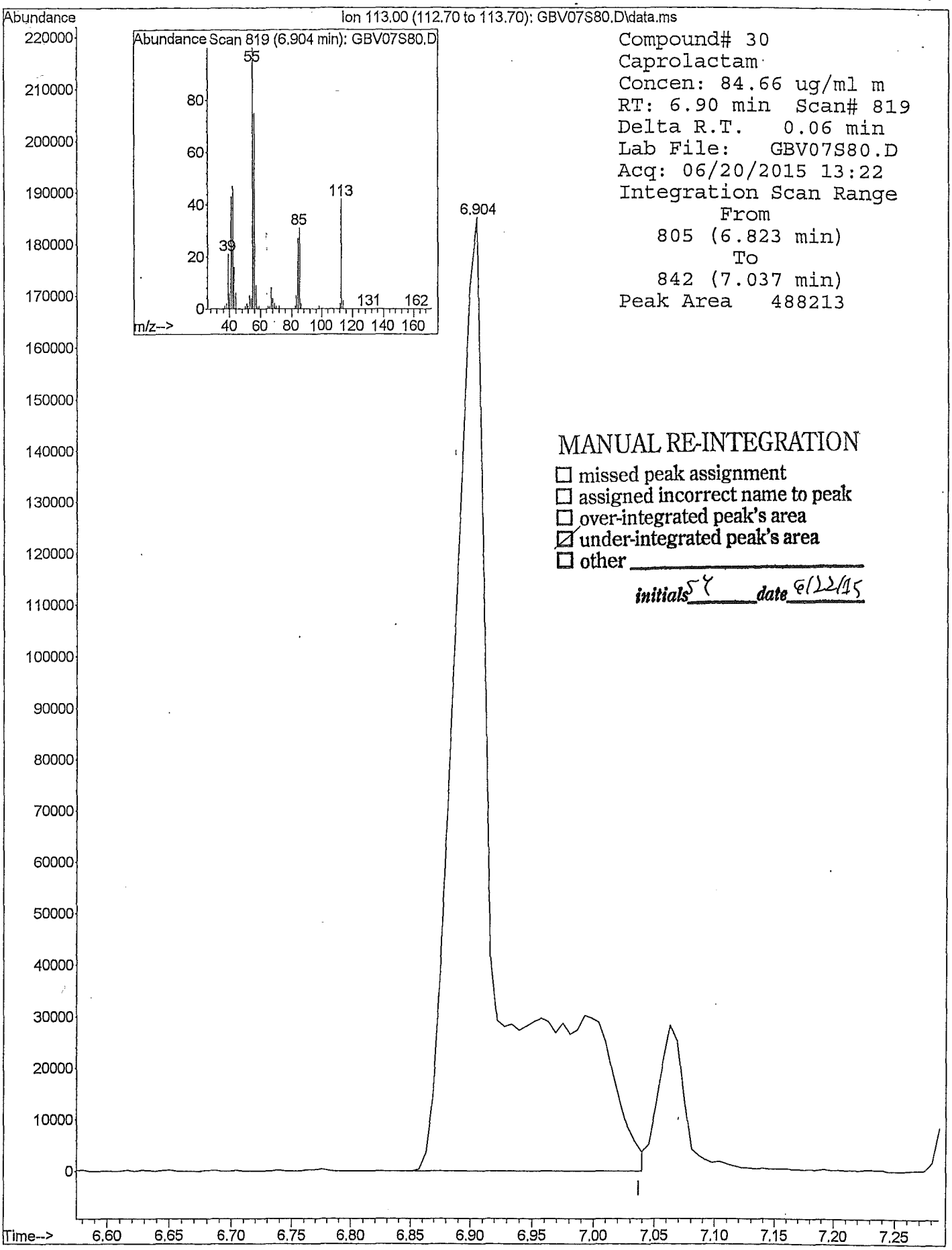
Data File : C:\msdchem\1\data\20...15\20JUN15\GBV07S80.D Vial: 5
Acq On : 06/20/2015 13:22 Operator: DJC
Sample : SSTD080GV 28437 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jun 20 13:50:11 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Sat Jun 20 13:52:34 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.78	149	6729262	81.490ug/ml	97
83) Benzo(b)fluoranthene	17.44	252	4536385	88.738ug/ml	96
84) Benzo(k)fluoranthene	17.49	252	4037347	82.300ug/ml	96
85) Benzo(a)pyrene	18.08	252	4128007	85.032ug/ml	96
87) Indeno(1,2,3-c,d)pyrene	20.90	276	3844414	90.850ug/ml	91
88) Dibenzo(a,h)anthracene	20.99	278	3791619	89.174ug/ml	95
89) Benzo(g,h,i)perylene	21.75	276	3702132	88.312ug/ml	94

(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 Caprolactam



GSOM01D6.M 5975-G GSOM01D6.M SSTD080GV 28437 . X07/19/15

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.: F9L98

Instrument ID: 5975-G Calibration Date: 06/09/2015 Time: 09:41

Lab File ID: GBG01S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GG 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	0.765	0.010	-8.5	40.0
Phenol	1.411	1.398	0.800	-0.9	25.0
Bis(2-chloroethyl)ether	1.177	1.096	0.700	-6.8	25.0
2-Chlorophenol	1.301	1.332	0.800	2.4	25.0
2-Methylphenol	1.092	1.033	0.700	-5.4	25.0
2,2'-Oxybis(1-chloropropane)	1.329	1.175	0.010	-11.6	40.0
Acetophenone	1.566	1.561	0.010	-0.3	40.0
4-Methylphenol	1.146	1.105	0.600	-3.6	25.0
N-Nitroso-di-n-propylamine	0.687	0.659	0.500	-4.1	25.0
Hexachloroethane	0.595	0.612	0.300	2.9	25.0
Nitrobenzene	0.309	0.310	0.200	0.3	25.0
Isophorone	0.535	0.536	0.400	0.2	25.0
2-Nitrophenol	0.197	0.203	0.100	2.7	25.0
2,4-Dimethylphenol	0.307	0.310	0.200	0.9	25.0
Bis(2-chloroethoxy)methane	0.354	0.350	0.300	-1.2	25.0
2,4-Dichlorophenol	0.272	0.283	0.200	3.9	25.0
Naphthalene	1.009	1.031	0.700	2.1	25.0
4-Chloroaniline	0.334	0.287	0.010	-13.9	40.0
Hexachlorobutadiene	0.173	0.185	0.010	6.8	40.0
Caprolactam	0.098	0.098	0.010	0.4	40.0
4-Chloro-3-methylphenol	0.266	0.273	0.200	2.5	25.0
2-Methylnaphthalene	0.645	0.637	0.400	-1.1	25.0
Hexachlorocyclopentadiene	0.352	0.380	0.010	8.0	40.0
2,4,6-Trichlorophenol	0.351	0.365	0.200	3.8	25.0
2,4,5-Trichlorophenol	0.377	0.372	0.200	-1.5	25.0
1,1'-Biphenyl	1.393	1.413	0.010	1.4	40.0
2-Chloronaphthalene	1.081	1.125	0.800	4.1	25.0
2-Nitroaniline	0.284	0.269	0.010	-5.2	40.0
Dimethylphthalate	1.247	1.266	0.010	1.5	40.0
2,6-Dinitrotoluene	0.288	0.300	0.200	4.3	25.0
Acenaphthylene	1.828	1.882	0.900	2.9	25.0
3-Nitroaniline	0.206	0.203	0.010	-1.6	40.0
Acenaphthene	1.126	1.158	0.900	2.9	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.: F9L98

Instrument ID: 5975-G Calibration Date: 06/09/2015 Time: 09:41

Lab File ID: GBG01S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GG 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	2.8	40.0
4-Nitrophenol	0.153	0.151	0.010	-1.3	40.0
Dibenzofuran	1.478	1.466	0.800	-0.8	25.0
2,4-Dinitrotoluene	0.388	0.408	0.200	5.1	25.0
Diethylphthalate	1.290	1.301	0.010	0.9	40.0
Fluorene	1.226	1.260	0.900	2.8	25.0
4-Chlorophenyl-phenylether	0.582	0.593	0.400	1.8	25.0
4-Nitroaniline	0.238	0.250	0.010	4.8	40.0
4,6-Dinitro-2-methylphenol	0.149	0.153	0.010	3.1	40.0
N-Nitrosodiphenylamine (1)	0.523	0.539	0.010	3.0	40.0
1,2,4,5-Tetrachlorobenzene	0.495	0.523	0.010	5.8	40.0
4-Bromophenyl-phenylether	0.203	0.211	0.100	4.0	25.0
Hexachlorobenzene	0.224	0.236	0.100	5.7	25.0
Atrazine	0.191	0.173	0.010	-9.4	40.0
Pentachlorophenol	0.141	0.151	0.050	6.8	25.0
Phenanthrene	1.094	1.115	0.700	1.9	25.0
Anthracene	1.116	1.145	0.700	2.6	25.0
Carbazole	0.675	0.814	0.010	20.6	40.0
Di-n-butylphthalate	1.380	1.502	0.010	8.8	40.0
Fluoranthene	1.128	1.171	0.600	3.8	25.0
Pyrene	1.238	1.275	0.600	2.9	25.0
Butylbenzylphthalate	0.656	0.677	0.010	3.3	40.0
3,3'-Dichlorobenzidine	0.323	0.360	0.010	11.4	40.0
Benzo(a)anthracene	1.137	1.144	0.800	0.7	25.0
Chrysene	1.032	1.051	0.700	1.8	25.0
Bis(2-ethylhexyl)phthalate	0.965	1.017	0.010	5.4	40.0
Di-n-octylphthalate	1.688	1.769	0.010	4.8	40.0
Benzo(b)fluoranthene	1.163	1.212	0.700	4.3	25.0
Benzo(k)fluoranthene	1.127	1.157	0.700	2.7	25.0
Benzo(a)pyrene	1.121	1.148	0.700	2.4	25.0
Indeno(1,2,3-cd)pyrene	1.099	1.143	0.500	4.0	25.0
Dibenzo(a,h)anthracene	1.128	1.172	0.400	3.9	25.0
Benzo(g,h,i)perylene	1.113	1.142	0.500	2.6	25.0
2,3,4,6-Tetrachlorophenol	0.284	0.300	0.100	5.5	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.: F9L98

Instrument ID: 5975-G Calibration Date: 06/09/2015 Time: 09:41

Lab File ID: GBG01S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020GG Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

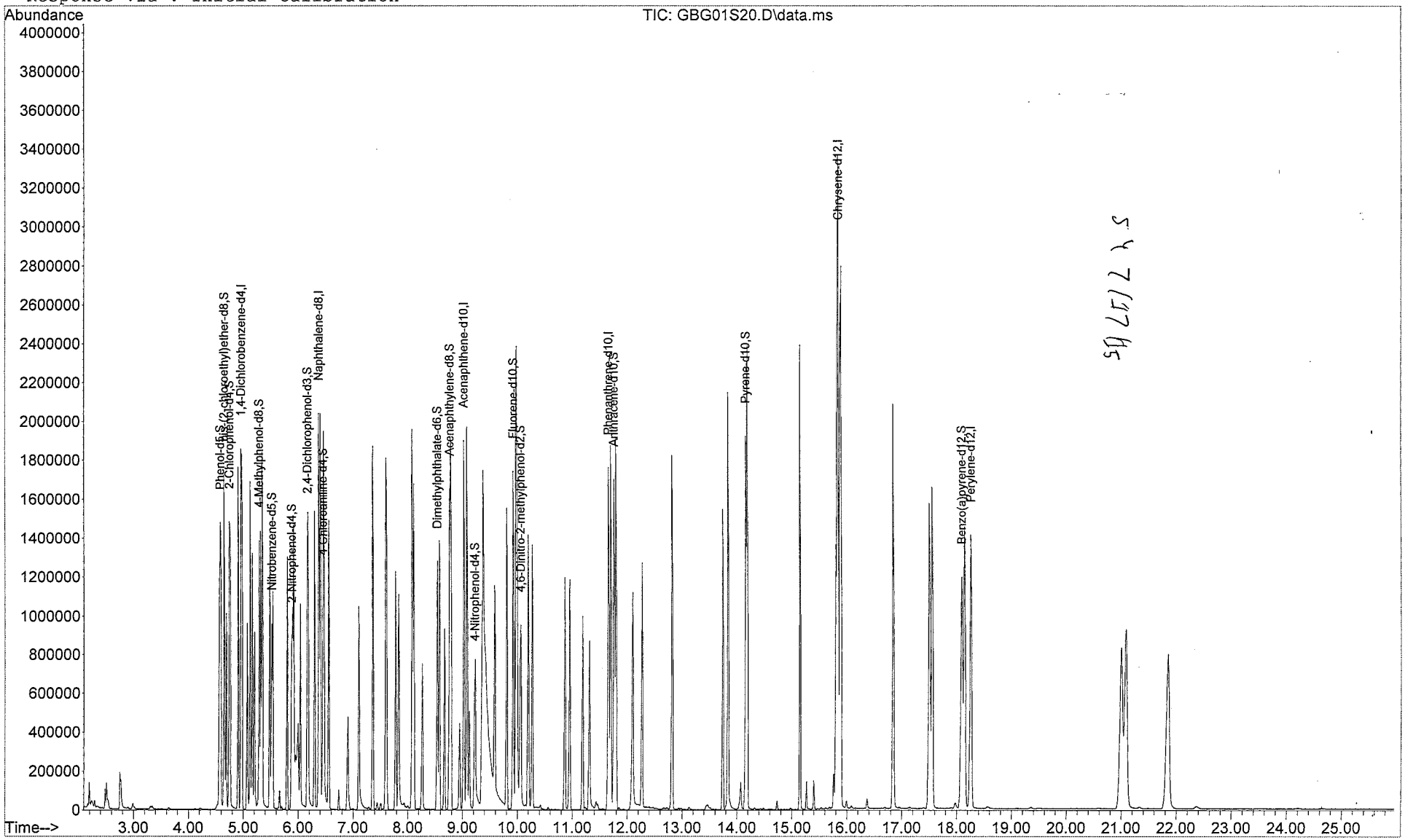
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.395	1.366	0.010	-2.1	25.0
Bis(2-chloroethyl)ether-d8	0.854	0.806	0.010	-5.7	25.0
2-Chlorophenol-d4	1.369	1.370	0.010	0.0	25.0
4-Methylphenol-d8	1.086	1.059	0.010	-2.4	25.0
Nitrobenzene-d5	0.168	0.170	0.010	1.2	25.0
2-Nitrophenol-d4	0.187	0.194	0.010	3.5	25.0
2,4-Dichlorophenol-d3	0.274	0.283	0.010	3.4	25.0
4-Chloroaniline-d4	0.297	0.247	0.010	-16.8	40.0
Dimethylphthalate-d6	1.216	1.269	0.010	4.4	40.0
Acenaphthylene-d8	1.623	1.666	0.010	2.7	25.0
4-Nitrophenol-d4	0.259	0.260	0.010	0.2	40.0
Fluorene-d10	1.056	1.089	0.010	3.0	25.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.135	0.010	3.1	40.0
Anthracene-d10	1.012	1.033	0.010	2.1	25.0
Pyrene-d10	0.909	0.930	0.010	2.3	25.0
Benzo(a)pyrene-d12	0.907	0.938	0.010	3.4	25.0

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG01S20.D Vial: 1
Acq On : 06/09/2015 09:41 Operator: DJC
Sample : SSTD020GG 28237 DFTPPGG Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 09 10:07:57 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG01S20.D Vial: 1
Acq On : 06/09/2015 09:41 Operator: DJC
Sample : SSTD020GG 28237 DFTPPGG Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 09 10:07:57 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	321173	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1187363	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	661049	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1080027	20.00 ug/ml
73) Chrysene-d12	15.84	240	1039220	20.00 ug/ml
81) Perylene-d12	18.26	264	1020606	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	438652	19.586ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	258720	18.866ug/mL
7) 2-Chlorophenol-d4	4.75	132	439919	20.006ug/ml
13) 4-Methylphenol-d8	5.29	113	340230	19.512ug/mL
17) Nitrobenzene-d5	5.52	128	201576	20.234ug/ml
21) 2-Nitrophenol-d4	5.87	143	229842	20.703ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	336286	20.677ug/mL
28) 4-Chloroaniline-d4	6.45	131	293549	16.639ug/mL
42) Dimethylphthalate-d6	8.54	166	839169	20.874ug/mL
45) Acenaphthylene-d8	8.76	160	1101613	20.532ug/mL
50) 4-Nitrophenol-d4	9.22	143	171644	20.050ug/mL
57) Fluorene-d10	9.92	176	719572	20.607ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	146243	20.614ug/mL
69) Anthracene-d10	11.76	188	1115801	20.423ug/mL
75) Pyrene-d10	14.16	212	966708	20.461ug/mL
86) Benzo(a)pyrene-d12	18.09	264	957282	20.678ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.56	77	245809	18.290ug/ml	93
4) Phenol	4.59	94	449151	19.824ug/ml	97
5) Bis(2-chloroethyl)ether	4.69	93	352146	18.637ug/ml	92
8) 2-Chlorophenol	4.76	128	427830	20.477ug/ml	92
9) 2-Methylphenol	5.16	108	331814	18.922ug/ml	97
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	377400	17.681ug/ml	100
11) Acetophenone	5.35	105	501434	19.936ug/ml	97
12) 4-methylphenol	5.31	108	354774	19.284ug/ml	95
14) N-Nitroso-di-n-propylamine	5.34	70	211634	19.179ug/ml	95
15) Hexachloroethane	5.48	117	196496	20.581ug/ml	96
18) Nitrobenzene	5.53	77	368030	20.066ug/ml	96
19) Isophorone	5.80	82	636522	20.031ug/ml	97
20) 2-Nitrophenol	5.89	139	240821	20.544ug/ml	98
22) 2,4-Dimethylphenol	5.92	107	368092	20.184ug/ml	91
23) Bis(2-chloroethoxy)methane	6.04	93	415731	19.766ug/ml	99
24) 2,4-Dichlorophenol	6.18	162	335968	20.778ug/ml	98
26) Naphthalene	6.40	128	1224162	20.426ug/ml	100
27) 4-Chloroaniline	6.46	127	341131	17.218ug/ml	96
29) Hexachlorobutadiene	6.56	225	219541	21.367ug/ml	99
30) Caprolactam	6.90	113	116439	20.074ug/ml	70
31) 4-Chloro-3-methylphenol	7.10	107	324385	20.506ug/ml	94
32) 2-Methylnaphthalene	7.36	142	756806	19.779ug/ml	96
34) 1,2,4,5-Tetrachlorobenzene	7.61	216	346047	21.161ug/mL	99
35) Hexachlorocyclopentadiene	7.60	237	251347	21.598ug/ml	98
36) 2,4,6-Trichlorophenol	7.77	196	241167	20.765ug/ml	99
37) 2,4,5-Trichlorophenol	7.83	196	245727	19.696ug/ml	99
38) 1,1'-Biphenyl	8.08	154	934243	20.287ug/ml	98
39) 2-Chloronaphthalene	8.11	162	743682	20.821ug/ml	97
40) 2-Nitroaniline	8.26	65	177819	18.964ug/ml	85
41) Dimethylphthalate	8.57	163	836828	20.298ug/ml	99
43) 2,6-Dinitrotoluene	8.67	165	198307	20.863ug/ml	88

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00928

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG01S20.D Vial: 1
Acq On : 06/09/2015 09:41 Operator: DJC
Sample : SSTD020GG 28237 DFTPPGG Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 09 10:07:57 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	8.79	152	1243907	20.587ug/ml	99
46)	3-Nitroaniline	8.95	138	134042	19.685ug/ml	94
47)	Acenaphthene	9.08	153	765648	20.574ug/ml	94
48)	2,4-Dinitrophenol	9.12	184	119811	20.553ug/ml	100
49)	4-Nitrophenol	9.23	109	100028	19.746ug/ml	90
51)	Dibenzofuran	9.37	168	969217	19.839ug/ml	98
52)	2,4-Dinitrotoluene	9.35	165	269868	21.024ug/ml	98
53)	2,3,4,6-Tetrachlorophenol	9.59	232	198072	21.091ug/mL	98
54)	Diethylphthalate	9.80	149	860311	20.181ug/ml	98
55)	4-Chlorophenyl-phenylether	9.99	204	391672	20.363ug/ml	98
56)	Fluorene	9.97	166	833066	20.555ug/ml	98
58)	4-Nitroaniline	10.00	138	165048	20.967ug/ml	59
60)	4,6-Dinitro-2-methylphenol	10.06	198	165517	20.614ug/ml	92
62)	N-Nitrosodiphenylamine	10.20	169	581901	20.601ug/ml	99
63)	4-Bromophenyl-phenyl ether	10.86	248	228369	20.796ug/ml	99
64)	Hexachlorobenzene	10.95	284	255330	21.143ug/ml	87
65)	Atrazine	11.19	200	187168	18.121ug/ml	97
66)	Pentachlorophenol	11.31	266	163105	21.363ug/ml	99
67)	Phenanthrene	11.70	178	1204058	20.386ug/ml	100
68)	Anthracene	11.79	178	1236555	20.515ug/ml	99
70)	Carbazole	12.10	167	879300	24.120ug/mL	99
71)	Di-n-butylphthalate	12.82	149	1621840	21.764ug/ml	99
72)	Fluoranthene	13.83	202	1264678	20.765ug/ml	95
74)	Pyrene	14.19	202	1324797	20.587ug/ml	95
76)	Butylbenzylphthalate	15.14	149	704002	20.659ug/ml	90
77)	3,3'-Dichlorobenzidine	15.80	252	373780	22.271ug/ml	99
78)	Benzo(a)anthracene	15.82	228	1188918	20.132ug/ml	100
79)	Chrysene	15.87	228	1091907	20.367ug/ml	100
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1056849	21.072ug/ml	98
82)	Di-n-octylphthalate	16.84	149	1805729	20.964ug/ml	100
83)	Benzo(b)fluoranthene	17.50	252	1237016	20.851ug/ml	97
84)	Benzo(k)fluoranthene	17.56	252	1181086	20.531ug/ml	98
85)	Benzo(a)pyrene	18.14	252	1171562	20.472ug/ml	97
87)	Indeno(1,2,3-c,d)pyrene	21.00	276	1166636	20.796ug/ml	91
88)	Dibenzo(a,h)anthracene	21.09	278	1195871	20.779ug/ml	96
89)	Benzo(g,h,i)perylene	21.85	276	1165996	20.523ug/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.: F9L98

Instrument ID: 5975-G Calibration Date: 06/09/2015 Time: 14:53

Lab File ID: GBG10S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020G1 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	0.722	0.010	-13.7	50.0
Phenol	1.411	1.382	0.010	-2.0	50.0
Bis(2-chloroethyl)ether	1.177	1.081	0.010	-8.1	50.0
2-Chlorophenol	1.301	1.322	0.010	1.6	50.0
2-Methylphenol	1.092	1.031	0.010	-5.6	50.0
2,2'-Oxybis(1-chloropropane)	1.329	1.148	0.010	-13.6	50.0
Acetophenone	1.566	1.568	0.010	0.1	50.0
4-Methylphenol	1.146	1.132	0.010	-1.2	50.0
N-Nitroso-di-n-propylamine	0.687	0.667	0.010	-3.0	50.0
Hexachloroethane	0.595	0.601	0.010	1.1	50.0
Nitrobenzene	0.309	0.308	0.010	-0.3	50.0
Isophorone	0.535	0.551	0.010	2.9	50.0
2-Nitrophenol	0.197	0.199	0.010	0.9	50.0
2,4-Dimethylphenol	0.307	0.319	0.010	3.7	50.0
Bis(2-chloroethoxy)methane	0.354	0.353	0.010	-0.3	50.0
2,4-Dichlorophenol	0.272	0.291	0.010	6.9	50.0
Naphthalene	1.009	1.033	0.010	2.4	50.0
4-Chloroaniline	0.334	0.373	0.010	11.8	50.0
Hexachlorobutadiene	0.173	0.185	0.010	7.1	50.0
Caprolactam	0.098	0.105	0.010	7.6	50.0
4-Chloro-3-methylphenol	0.266	0.291	0.010	9.1	50.0
2-Methylnaphthalene	0.645	0.652	0.010	1.2	50.0
Hexachlorocyclopentadiene	0.352	0.255	0.010	-27.5	50.0
2,4,6-Trichlorophenol	0.351	0.371	0.010	5.4	50.0
2,4,5-Trichlorophenol	0.377	0.382	0.010	1.1	50.0
1,1'-Biphenyl	1.393	1.406	0.010	0.9	50.0
2-Chloronaphthalene	1.081	1.113	0.010	3.0	50.0
2-Nitroaniline	0.284	0.272	0.010	-4.1	50.0
Dimethylphthalate	1.247	1.311	0.010	5.1	50.0
2,6-Dinitrotoluene	0.288	0.307	0.010	6.8	50.0
Acenaphthylene	1.828	1.870	0.010	2.3	50.0
3-Nitroaniline	0.206	0.303	0.010	47.3	50.0
Acenaphthene	1.126	1.172	0.010	4.1	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.: F9L98

Instrument ID: 5975-G Calibration Date: 06/09/2015 Time: 14:53

Lab File ID: GBG10S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020G1 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	0.141	0.010	-20.2	50.0
4-Nitrophenol	0.153	0.163	0.010	6.5	50.0
Dibenzofuran	1.478	1.483	0.010	0.4	50.0
2,4-Dinitrotoluene	0.388	0.418	0.010	7.7	50.0
Diethylphthalate	1.290	1.361	0.010	5.5	50.0
Fluorene	1.226	1.313	0.010	7.1	50.0
4-Chlorophenyl-phenylether	0.582	0.616	0.010	5.9	50.0
4-Nitroaniline	0.238	0.308	0.010	29.3	50.0
4,6-Dinitro-2-methylphenol	0.149	0.127	0.010	-14.3	50.0
N-Nitrosodiphenylamine (1)	0.523	0.544	0.010	3.9	50.0
1,2,4,5-Tetrachlorobenzene	0.495	0.513	0.010	3.7	50.0
4-Bromophenyl-phenylether	0.203	0.207	0.010	1.8	50.0
Hexachlorobenzene	0.224	0.234	0.010	4.7	50.0
Atrazine	0.191	0.172	0.010	-10.0	50.0
Pentachlorophenol	0.141	0.156	0.010	10.1	50.0
Phenanthrene	1.094	1.122	0.010	2.6	50.0
Anthracene	1.116	1.141	0.010	2.2	50.0
Carbazole	0.675	0.932	0.010	38.1	50.0
Di-n-butylphthalate	1.380	1.450	0.010	5.1	50.0
Fluoranthene	1.128	1.204	0.010	6.7	50.0
Pyrene	1.238	1.242	0.010	0.3	50.0
Butylbenzylphthalate	0.656	0.670	0.010	2.2	50.0
3,3'-Dichlorobenzidine	0.323	0.419	0.010	29.7	50.0
Benzo(a)anthracene	1.137	1.147	0.010	0.9	50.0
Chrysene	1.032	1.047	0.010	1.5	50.0
Bis(2-ethylhexyl)phthalate	0.965	0.987	0.010	2.2	50.0
Di-n-octylphthalate	1.688	1.803	0.010	6.8	50.0
Benzo(b)fluoranthene	1.163	1.210	0.010	4.1	50.0
Benzo(k)fluoranthene	1.127	1.163	0.010	3.2	50.0
Benzo(a)pyrene	1.121	1.138	0.010	1.5	50.0
Indeno(1,2,3-cd)pyrene	1.099	1.052	0.010	-4.3	50.0
Dibenzo(a,h)anthracene	1.128	1.108	0.010	-1.8	50.0
Benzo(g,h,i)perylene	1.113	0.993	0.010	-10.8	50.0
2,3,4,6-Tetrachlorophenol	0.284	0.321	0.010	12.9	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.: F9L98

Instrument ID: 5975-G Calibration Date: 06/09/2015 Time: 14:53

Lab File ID: GBG10S20 Init. Calib. Date(s): 05/27/2015 05/27/2015

EPA Sample No.(SSTD020##): SSTD020G1 Init. Calib. Time(s): 15:49 19:02

GC Column: DB5MS ID: 0.32 (mm)

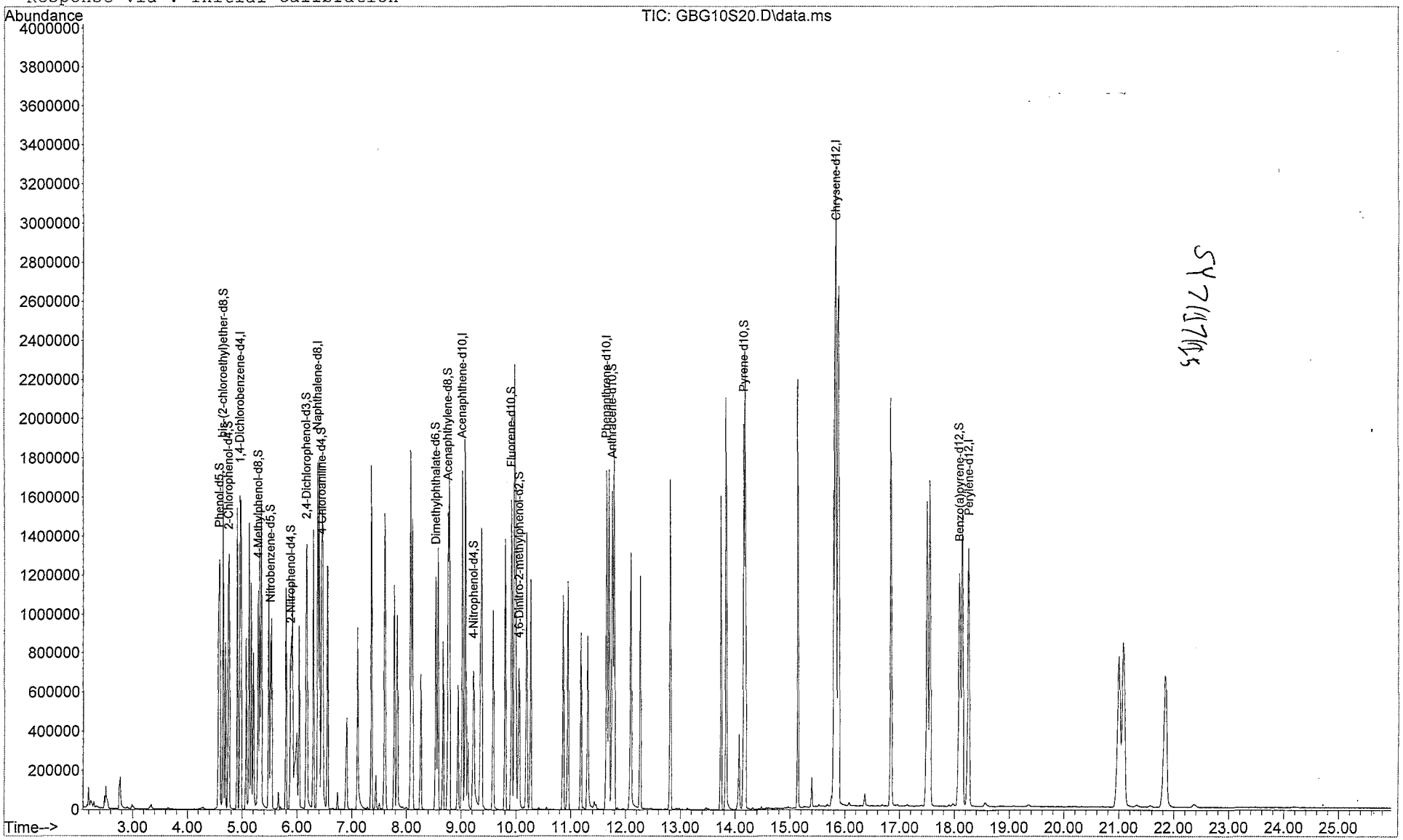
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.395	1.367	0.010	-2.0	50.0
Bis(2-chloroethyl)ether-d8	0.854	0.805	0.010	-5.7	50.0
2-Chlorophenol-d4	1.369	1.364	0.010	-0.4	50.0
4-Methylphenol-d8	1.086	1.061	0.010	-2.3	50.0
Nitrobenzene-d5	0.168	0.168	0.010	0.2	50.0
2-Nitrophenol-d4	0.187	0.189	0.010	0.9	50.0
2,4-Dichlorophenol-d3	0.274	0.288	0.010	5.1	50.0
4-Chloroaniline-d4	0.297	0.336	0.010	13.1	50.0
Dimethylphthalate-d6	1.216	1.300	0.010	6.9	50.0
Acenaphthylene-d8	1.623	1.667	0.010	2.7	50.0
4-Nitrophenol-d4	0.259	0.273	0.010	5.3	50.0
Fluorene-d10	1.056	1.115	0.010	5.6	50.0
4,6-Dinitro-2-methylphenol-d2	0.131	0.112	0.010	-14.7	50.0
Anthracene-d10	1.012	1.033	0.010	2.1	50.0
Pyrene-d10	0.909	0.916	0.010	0.8	50.0
Benzo(a)pyrene-d12	0.907	0.943	0.010	4.0	50.0

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG10S20.D Vial: 1
Acq On : 06/09/2015 14:53 Operator: DJC
Sample : SSTD020G1 28237 DFTPPG1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 09 15:20:04 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



SY7/17/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG10S20.D Vial: 1
Acq On : 06/09/2015 14:53 Operator: DJC
Sample : SSTD020G1 28237 DFTPPG1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 09 15:20:04 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	279965	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1039226	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	601431	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1034504	20.00 ug/ml
73) Chrysene-d12	15.83	240	1039829	20.00 ug/ml
81) Perylene-d12	18.26	264	1004797	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	382714	19.603ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	225483	18.862ug/mL
7) 2-Chlorophenol-d4	4.75	132	381831	19.920ug/ml
13) 4-Methylphenol-d8	5.29	113	297037	19.542ug/mL
17) Nitrobenzene-d5	5.51	128	174812	20.049ug/ml
21) 2-Nitrophenol-d4	5.87	143	196131	20.185ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	299171	21.017ug/mL
28) 4-Chloroaniline-d4	6.44	131	349221	22.616ug/mL
42) Dimethylphthalate-d6	8.53	166	781645	21.370ug/mL
45) Acenaphthylene-d8	8.76	160	1002720	20.542ug/mL
50) 4-Nitrophenol-d4	9.22	143	164070	21.065ug/mL
57) Fluorene-d10	9.92	176	670891	21.117ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	115921	17.059ug/mL
69) Anthracene-d10	11.76	188	1068384	20.416ug/mL
75) Pyrene-d10	14.16	212	952630	20.152ug/mL
86) Benzo(a)pyrene-d12	18.09	264	947779	20.795ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.56	77	202162	17.257ug/ml	95
4) Phenol	4.59	94	387033	19.597ug/ml	97
5) Bis(2-chloroethyl)ether	4.69	93	302757	18.382ug/ml	91
8) 2-Chlorophenol	4.76	128	370095	20.321ug/ml	92
9) 2-Methylphenol	5.16	108	288688	18.885ug/ml	99
10) 2,2'-Oxybis-(1-chloropropa	5.20	45	321419	17.275ug/ml	100
11) Acetophenone	5.35	105	439074	20.026ug/ml	97
12) 4-methylphenol	5.31	108	316898	19.761ug/ml	99
14) N-Nitroso-di-n-propylamine	5.33	70	186611	19.400ug/ml	95
15) Hexachloroethane	5.48	117	168324	20.225ug/ml	96
18) Nitrobenzene	5.53	77	320202	19.947ug/ml	95
19) Isophorone	5.79	82	572339	20.578ug/ml	97
20) 2-Nitrophenol	5.89	139	206938	20.170ug/ml	99
22) 2,4-Dimethylphenol	5.91	107	331070	20.742ug/ml	91
23) Bis(2-chloroethoxy)methane	6.03	93	367061	19.940ug/ml	99
24) 2,4-Dichlorophenol	6.17	162	302445	21.371ug/ml	98
26) Naphthalene	6.40	128	1073829	20.472ug/ml	99
27) 4-Chloroaniline	6.45	127	387555	22.350ug/ml	95
29) Hexachlorobutadiene	6.56	225	192624	21.419ug/ml	99
30) Caprolactam	6.90	113	109278	21.524ug/ml	69
31) 4-Chloro-3-methylphenol	7.10	107	302240	21.829ug/ml	95
32) 2-Methylnaphthalene	7.36	142	677938	20.243ug/ml	97
34) 1,2,4,5-Tetrachlorobenzene	7.61	216	308617	20.742ug/mL	98
35) Hexachlorocyclopentadiene	7.59	237	153515	14.499ug/ml	99
36) 2,4,6-Trichlorophenol	7.77	196	222854	21.090ug/ml	100
37) 2,4,5-Trichlorophenol	7.83	196	229470	20.217ug/ml	99
38) 1,1'-Biphenyl	8.07	154	845463	20.179ug/ml	96
39) 2-Chloronaphthalene	8.10	162	669410	20.599ug/ml	98
40) 2-Nitroaniline	8.26	65	163592	19.176ug/ml	82
41) Dimethylphthalate	8.57	163	788611	21.025ug/ml	99
43) 2,6-Dinitrotoluene	8.67	165	184719	21.359ug/ml	88

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG10S20.D Vial: 1
Acq On : 06/09/2015 14:53 Operator: DJC
Sample : SSTD020G1 28237 DFTPPG1 Inst : 5975-G
Misc : . X06/19/15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 09 15:20:04 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	Acenaphthylene	8.78	152	1124640	20.458ug/ml	99
46)	3-Nitroaniline	8.94	138	182453	29.451ug/ml	90
47)	Acenaphthene	9.07	153	705148	20.827ug/ml	93
48)	2,4-Dinitrophenol	9.12	184	84609	15.953ug/ml	100
49)	4-Nitrophenol	9.23	109	98205	21.307ug/ml	90
51)	Dibenzofuran	9.37	168	892159	20.072ug/ml	98
52)	2,4-Dinitrotoluene	9.35	165	251650	21.548ug/ml	98
53)	2,3,4,6-Tetrachlorophenol	9.58	232	192971	22.584ug/mL	99
54)	Diethylphthalate	9.80	149	818343	21.099ug/ml	98
55)	4-Chlorophenyl-phenylether	9.99	204	370772	21.187ug/ml	98
56)	Fluorene	9.97	166	789593	21.414ug/ml	99
58)	4-Nitroaniline	10.00	138	185162	25.853ug/ml	78
60)	4,6-Dinitro-2-methylphenol	10.06	198	131825	17.141ug/ml	93
62)	N-Nitrosodiphenylamine	10.19	169	562480	20.790ug/ml	100
63)	4-Bromophenyl-phenyl ether	10.86	248	214071	20.351ug/ml	99
64)	Hexachlorobenzene	10.95	284	242108	20.931ug/ml	87
65)	Atrazine	11.19	200	178100	18.002ug/ml	97
66)	Pentachlorophenol	11.30	266	160989	22.014ug/ml	99
67)	Phenanthrene	11.70	178	1160459	20.512ug/ml	99
68)	Anthracene	11.79	178	1179999	20.439ug/ml	99
70)	Carbazole	12.09	167	964612	27.624ug/mL	98
71)	Di-n-butylphthalate	12.82	149	1500469	21.021ug/ml	99
72)	Fluoranthene	13.83	202	1245249	21.345ug/ml	95
74)	Pyrene	14.18	202	1291147	20.052ug/ml	95
76)	Butylbenzylphthalate	15.14	149	697047	20.442ug/ml	89
77)	3,3'-Dichlorobenzidine	15.79	252	435594	25.939ug/ml	99
78)	Benzo(a)anthracene	15.82	228	1192261	20.177ug/ml	99
79)	Chrysene	15.87	228	1088512	20.292ug/ml	100
80)	Bis-(2-ethylhexyl)phthalat	15.89	149	1026196	20.448ug/ml	98
82)	Di-n-octylphthalate	16.84	149	1811645	21.363ug/ml	99
83)	Benzo(b)fluoranthene	17.50	252	1216303	20.824ug/ml	98
84)	Benzo(k)fluoranthene	17.55	252	1168802	20.637ug/ml	97
85)	Benzo(a)pyrene	18.14	252	1143272	20.292ug/ml	97
87)	Indeno(1,2,3-c,d)pyrene	21.00	276	1057526	19.148ug/ml	91
88)	Dibenzo(a,h)anthracene	21.08	278	1113101	19.645ug/ml	95
89)	Benzo(g,h,i)perylene	21.84	276	997600	17.836ug/ml	94

(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.: F9L98

Instrument ID: 5975-G Calibration Date: 07/07/2015 Time: 14:43

Lab File ID: GCN01S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GN Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	1.183	0.948	0.010	-19.9	40.0
Phenol	1.871	1.772	0.800	-5.3	25.0
Bis(2-chloroethyl)ether	1.549	1.636	0.700	5.6	25.0
2-Chlorophenol	1.382	1.357	0.800	-1.9	25.0
2-Methylphenol	1.274	1.433	0.700	12.5	25.0
2,2'-Oxybis(1-chloropropane)	3.802	3.746	0.010	-1.5	40.0
Acetophenone	1.916	1.935	0.010	1.0	40.0
4-Methylphenol	1.399	1.326	0.600	-5.2	25.0
N-Nitroso-di-n-propylamine	1.047	1.041	0.500	-0.5	25.0
Hexachloroethane	0.701	0.720	0.300	2.6	25.0
Nitrobenzene	0.462	0.424	0.200	-8.3	25.0
Isophorone	0.795	0.770	0.400	-3.2	25.0
2-Nitrophenol	0.207	0.192	0.100	-6.9	25.0
2,4-Dimethylphenol	0.392	0.376	0.200	-4.1	25.0
Bis(2-chloroethoxy)methane	0.482	0.456	0.300	-5.3	25.0
2,4-Dichlorophenol	0.309	0.306	0.200	-0.9	25.0
Naphthalene	1.011	1.015	0.700	0.4	25.0
4-Chloroaniline	0.351	0.300	0.010	-14.6	40.0
Hexachlorobutadiene	0.212	0.210	0.010	-0.8	40.0
Caprolactam	0.113	0.114	0.010	1.4	40.0
4-Chloro-3-methylphenol	0.341	0.333	0.200	-2.4	25.0
2-Methylnaphthalene	0.640	0.635	0.400	-0.7	25.0
Hexachlorocyclopentadiene	0.412	0.389	0.010	-5.5	40.0
2,4,6-Trichlorophenol	0.418	0.396	0.200	-5.3	25.0
2,4,5-Trichlorophenol	0.410	0.413	0.200	0.7	25.0
1,1'-Biphenyl	1.362	1.329	0.010	-2.4	40.0
2-Chloronaphthalene	1.168	1.105	0.800	-5.4	25.0
2-Nitroaniline	0.478	0.472	0.010	-1.3	40.0
Dimethylphthalate	1.309	1.311	0.010	0.2	40.0
2,6-Dinitrotoluene	0.297	0.293	0.200	-1.4	25.0
Acenaphthylene	1.810	1.838	0.900	1.6	25.0
3-Nitroaniline	0.217	0.250	0.010	14.9	40.0
Acenaphthene	1.097	1.118	0.900	1.9	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.: F9L98

Instrument ID: 5975-G Calibration Date: 07/07/2015 Time: 14:43

Lab File ID: GCN01S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GN Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.200	0.193	0.010	-3.3	40.0
4-Nitrophenol	0.198	0.215	0.010	8.7	40.0
Dibenzofuran	1.444	1.421	0.800	-1.6	25.0
2,4-Dinitrotoluene	0.395	0.401	0.200	1.4	25.0
Diethylphthalate	1.358	1.374	0.010	1.2	40.0
Fluorene	1.203	1.245	0.900	3.5	25.0
4-Chlorophenyl-phenylether	0.607	0.605	0.400	-0.3	25.0
4-Nitroaniline	0.256	0.274	0.010	6.7	40.0
4,6-Dinitro-2-methylphenol	0.165	0.152	0.010	-7.8	40.0
N-Nitrosodiphenylamine (1)	0.565	0.544	0.010	-3.8	40.0
1,2,4,5-Tetrachlorobenzene	0.557	0.515	0.010	-7.6	40.0
4-Bromophenyl-phenylether	0.214	0.197	0.100	-7.9	25.0
Hexachlorobenzene	0.227	0.208	0.100	-8.4	25.0
Atrazine	0.205	0.200	0.010	-2.4	40.0
Pentachlorophenol	0.141	0.110	0.050	-22.1	25.0
Phenanthrene	1.067	1.051	0.700	-1.5	25.0
Anthracene	1.089	1.072	0.700	-1.5	25.0
Carbazole	0.746	0.912	0.010	22.4	40.0
Di-n-butylphthalate	1.476	1.562	0.010	5.8	40.0
Fluoranthene	1.175	1.189	0.600	1.2	25.0
Pyrene	1.273	1.239	0.600	-2.7	25.0
Butylbenzylphthalate	0.679	0.683	0.010	0.5	40.0
3,3'-Dichlorobenzidine	0.297	0.367	0.010	23.6	40.0
Benzo(a)anthracene	1.213	1.211	0.800	-0.2	25.0
Chrysene	1.096	1.081	0.700	-1.4	25.0
Bis(2-ethylhexyl)phthalate	0.989	1.031	0.010	4.3	40.0
Di-n-octylphthalate	1.988	1.974	0.010	-0.7	40.0
Benzo(b)fluoranthene	1.253	1.283	0.700	2.4	25.0
Benzo(k)fluoranthene	1.183	1.143	0.700	-3.4	25.0
Benzo(a)pyrene	1.179	1.183	0.700	0.4	25.0
Indeno(1,2,3-cd)pyrene	1.042	1.079	0.500	3.5	25.0
Dibenzo(a,h)anthracene	1.043	1.087	0.400	4.2	25.0
Benzo(g,h,i)perylene	1.026	1.083	0.500	5.6	25.0
2,3,4,6-Tetrachlorophenol	0.332	0.314	0.100	-5.4	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.: F9L98

Instrument ID: 5975-G Calibration Date: 07/07/2015 Time: 14:43

Lab File ID: GCN01S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020GN Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

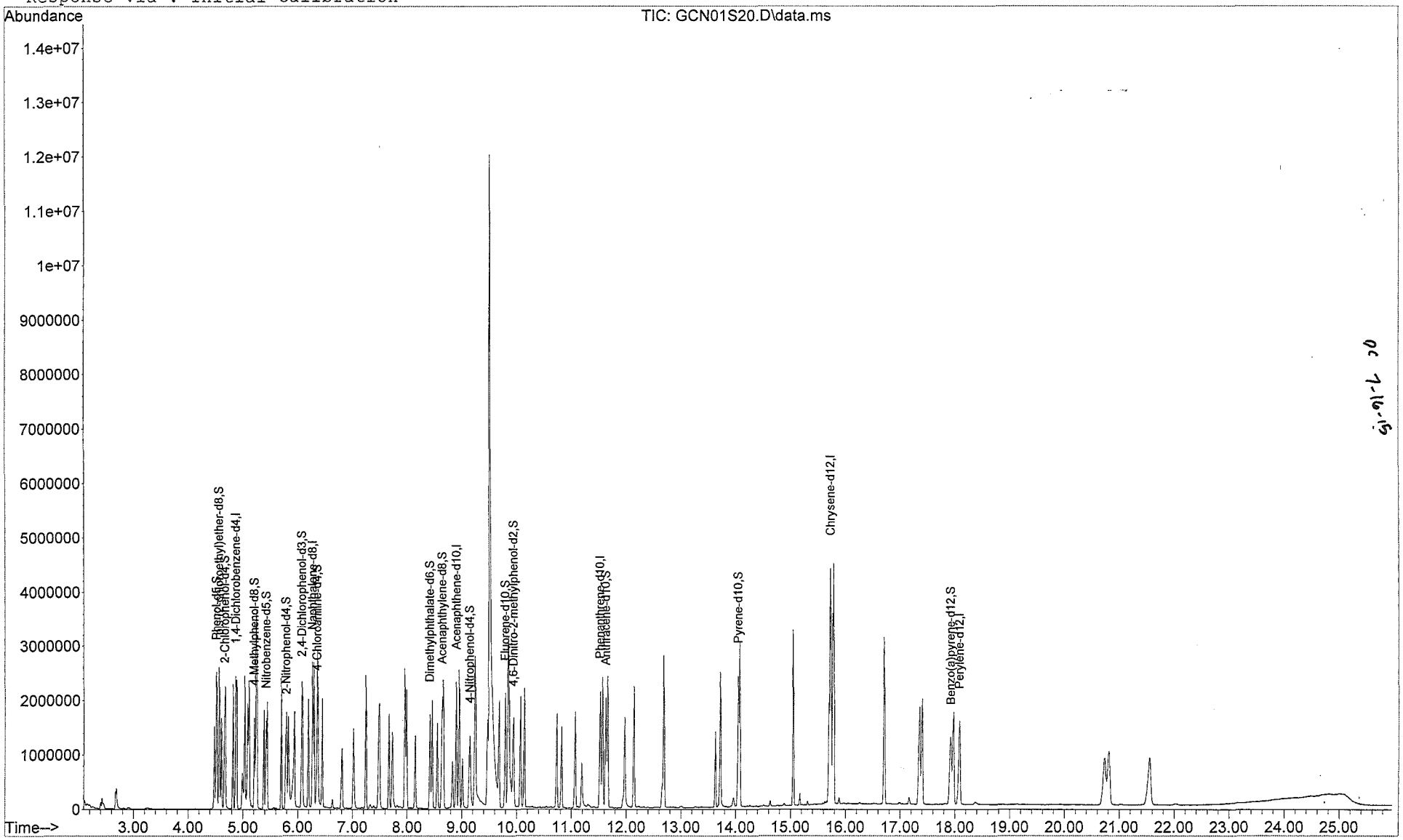
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.740	1.675	0.010	-3.7	25.0
Bis(2-chloroethyl)ether-d8	1.356	1.269	0.010	-6.5	25.0
2-Chlorophenol-d4	1.470	1.421	0.010	-3.3	25.0
4-Methylphenol-d8	1.164	1.195	0.010	2.6	25.0
Nitrobenzene-d5	0.176	0.164	0.010	-6.9	25.0
2-Nitrophenol-d4	0.186	0.170	0.010	-8.2	25.0
2,4-Dichlorophenol-d3	0.289	0.282	0.010	-2.3	25.0
4-Chloroaniline-d4	0.316	0.247	0.010	-21.9	40.0
Dimethylphthalate-d6	1.254	1.229	0.010	-2.0	40.0
Acenaphthylene-d8	1.704	1.663	0.010	-2.4	25.0
4-Nitrophenol-d4	0.256	0.239	0.010	-6.4	40.0
Fluorene-d10	1.071	1.039	0.010	-3.0	25.0
4,6-Dinitro-2-methylphenol-d2	0.142	0.130	0.010	-8.7	40.0
Anthracene-d10	1.061	0.985	0.010	-7.1	25.0
Pyrene-d10	0.998	0.938	0.010	-6.0	25.0
Benzo(a)pyrene-d12	0.958	0.911	0.010	-5.0	25.0

Quantitation Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN01S20.D Vial: 1
Acq On : 07/07/2015 14:43 Operator: TJM
Sample : SSTD020GN 28543 DFTPPGN Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS

Quant Time: Jul 15 19:59:43 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration



7-16-15

Quantitation Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN01S20.D Vial: 1
Acq On : 07/07/2015 14:43 Operator: TJM
Sample : SSTD020GN 28543 DFTPPGN Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 19:59:43 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	325237	20.00 ug/ml
16) Naphthalene-d8	6.27	136	1270588	20.00 ug/ml
33) Acenaphthene-d10	8.90	164	736346	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1264476	20.00 ug/ml
73) Chrysene-d12	15.73	240	1249905	20.00 ug/ml
81) Perylene-d12	18.08	264	1085532	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	544886	19.252ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	412661	18.709ug/mL
7) 2-Chlorophenol-d4	4.66	132	462250	19.344ug/ml
13) 4-Methylphenol-d8	5.21	113	388522	20.523ug/mL
17) Nitrobenzene-d5	5.42	128	207797	18.617ug/ml
21) 2-Nitrophenol-d4	5.78	143	216541	18.354ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	358888	19.536ug/mL
28) 4-Chloroaniline-d4	6.35	131	313407	15.629ug/mL
42) Dimethylphthalate-d6	8.42	166	904860	19.597ug/mL
45) Acenaphthylene-d8	8.63	160	1224779	19.519ug/mL
50) 4-Nitrophenol-d4	9.14	143	176248	18.711ug/mL
57) Fluorene-d10	9.79	176	764848	19.397ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	163866	18.258ug/mL
69) Anthracene-d10	11.63	188	1245970	18.581ug/mL
75) Pyrene-d10	14.04	212	1172115	18.791ug/mL
86) Benzo(a)pyrene-d12	17.92	264	988412	19.002ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.47	77	308346	16.022ug/ml	87
4) Phenol	4.52	94	576232	18.943ug/ml	73
5) Bis(2-chloroethyl)ether	4.60	93	532071	21.118ug/ml	93
8) 2-Chlorophenol	4.67	128	441202	19.629ug/ml	84
9) 2-Methylphenol	5.08	108	466093	22.506ug/ml	95
10) 2,2'-Oxybis-(1-chloropropa	5.11	45	1218341	19.708ug/ml	100
11) Acetophenone	5.25	105	629413	20.206ug/ml	42
12) 4-methylphenol	5.23	108	431298	18.960ug/ml	98
14) N-Nitroso-di-n-propylamine	5.25	70	338628	19.898ug/ml	65
15) Hexachloroethane	5.38	117	234028	20.522ug/ml	98
18) Nitrobenzene	5.44	77	538244	18.349ug/ml	86
19) Isophorone	5.70	82	978078	19.362ug/ml	87
20) 2-Nitrophenol	5.79	139	244348	18.624ug/ml	77
22) 2,4-Dimethylphenol	5.83	107	478101	19.189ug/ml	82
23) Bis(2-chloroethoxy)methane	5.94	93	579393	18.934ug/ml	99
24) 2,4-Dichlorophenol	6.08	162	389014	19.823ug/ml	98
26) Naphthalene	6.29	128	1290118	20.085ug/ml	99
27) 4-Chloroaniline	6.36	127	380795	17.083ug/ml	86
29) Hexachlorobutadiene	6.45	225	266578	19.831ug/ml	99
30) Caprolactam	6.81	113	145116	20.274ug/ml	34
31) 4-Chloro-3-methylphenol	7.02	107	423192	19.519ug/ml	91
32) 2-Methylnaphthalene	7.25	142	807105	19.856ug/ml	97
34) 1,2,4,5-Tetrachlorobenzene	7.49	216	379136	18.487ug/mL	98
35) Hexachlorocyclopentadiene	7.47	237	286362	18.895ug/ml	99
36) 2,4,6-Trichlorophenol	7.67	196	291679	18.933ug/ml	99
37) 2,4,5-Trichlorophenol	7.73	196	303984	20.143ug/ml	99
38) 1,1'-Biphenyl	7.96	154	978877	19.518ug/ml	98
39) 2-Chloronaphthalene	7.99	162	813751	18.926ug/ml	98
40) 2-Nitroaniline	8.15	65	347474	19.745ug/ml	75
41) Dimethylphthalate	8.46	163	965685	20.032ug/ml	98
43) 2,6-Dinitrotoluene	8.55	165	215731	19.710ug/ml	87

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : Z:\DJC\Data\2015\F9L98\07JUL15\GCN01S20.D Vial: 1
Acq On : 07/07/2015 14:43 Operator: TJM
Sample : SSTD020GN 28543 DFTPPGN Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p Column Identifier: DB-5MS
Quant Time: Jul 15 19:59:43 2015 Results File: GSOM01D6.RES

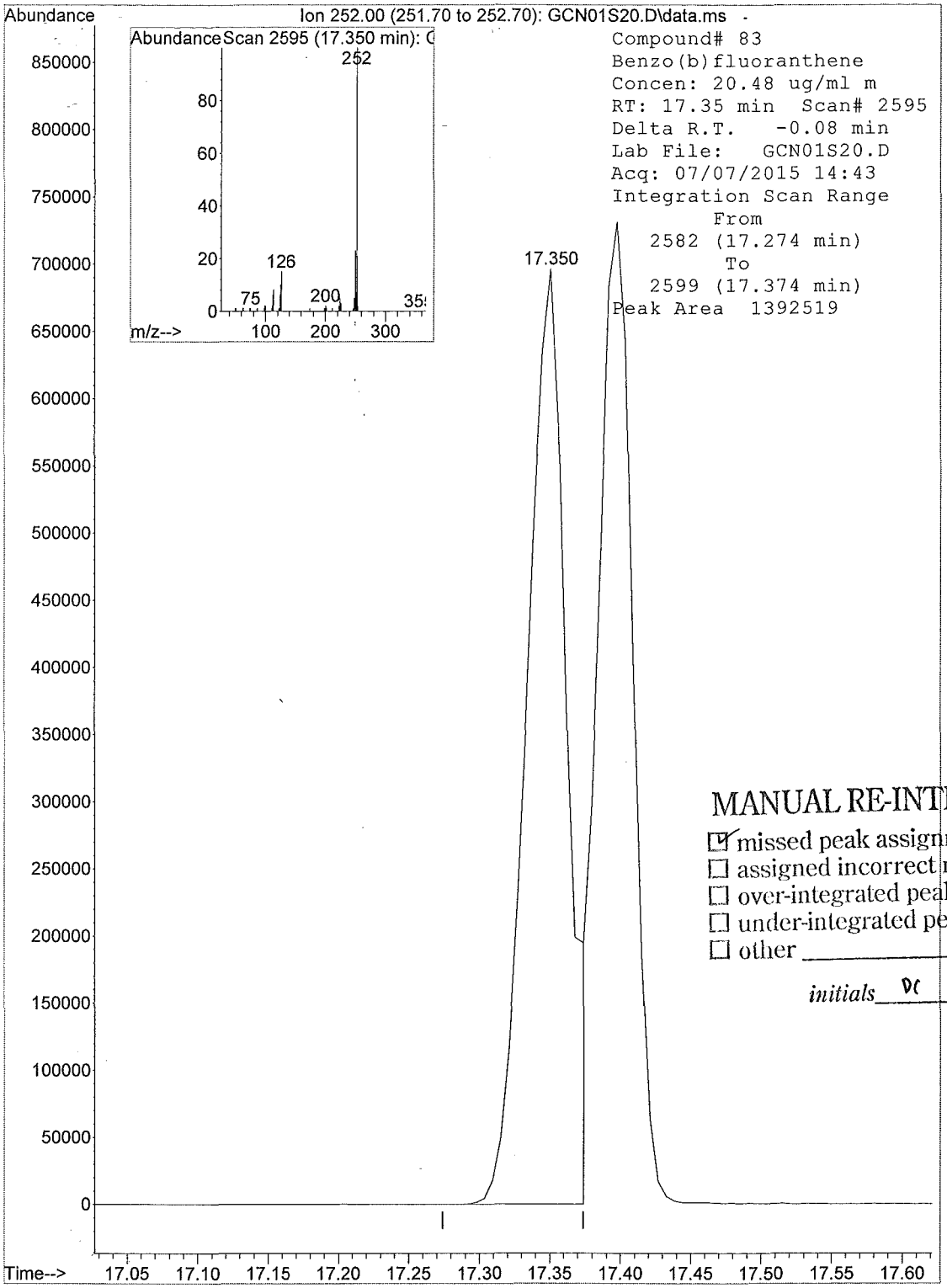
Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 15 20:00:44 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
44)	Acenaphthylene	8.66	152	1353441	20.311ug/ml		99
46)	3-Nitroaniline	8.83	138	183738	22.982ug/ml		89
47)	Acenaphthene	8.95	153	823212	20.385ug/ml		94
48)	2,4-Dinitrophenol	9.01	184	142370	19.341ug/ml		100
49)	4-Nitrophenol	9.15	109	158533	21.735ug/ml		78
51)	Dibenzofuran	9.25	168	1046649	19.683ug/ml		93
52)	2,4-Dinitrotoluene	9.23	165	294913	20.290ug/ml		35
53)	2,3,4,6-Tetrachlorophenol	9.47	232	231567	18.928ug/mL		96
54)	Diethylphthalate	9.68	149	1011723	20.234ug/ml		96
55)	4-Chlorophenyl-phenylether	9.86	204	445763	19.946ug/ml		99
56)	Fluorene	9.85	166	916575	20.691ug/ml		98
58)	4-Nitroaniline	9.89	138	201555	21.345ug/ml		89
60)	4,6-Dinitro-2-methylphenol	9.95	198	192539	18.435ug/ml		82
62)	N-Nitrosodiphenylamine	10.07	169	687817	19.239ug/ml		94
63)	4-Bromophenyl-phenyl ether	10.73	248	249095	18.428ug/ml		96
64)	Hexachlorobenzene	10.82	284	263132	18.324ug/ml		93
65)	Atrazine	11.07	200	253190	19.515ug/ml		97
66)	Pentachlorophenol	11.19	266	138683	15.583ug/ml		98
67)	Phenanthrene	11.57	178	1329090	19.707ug/ml		99
68)	Anthracene	11.66	178	1355607	19.696ug/ml		99
70)	Carbazole	11.97	167	1153781	24.471ug/mL		99
71)	Di-n-butylphthalate	12.69	149	1974623	21.159ug/ml		99
72)	Fluoranthene	13.72	202	1503713	20.234ug/ml		95
74)	Pyrene	14.07	202	1548841	19.467ug/ml		95
76)	Butylbenzylphthalate	15.04	149	853261	20.103ug/ml		92
77)	3,3'-Dichlorobenzidine	15.70	252	458598	24.720ug/ml		98
78)	Benzo(a)anthracene	15.72	228	1513717	19.963ug/ml		97
79)	Chrysene	15.77	228	1350634	19.725ug/ml		99
80)	Bis-(2-ethylhexyl)phthalat	15.79	149	1289016	20.854ug/ml		95
82)	Di-n-octylphthalate	16.70	149	2142426	19.859ug/ml		96
83)	Benzo(b)fluoranthene	17.35	252	1392519	20.481ug/ml	m	96
84)	Benzo(k)fluoranthene	17.40	252	1240714	19.320ug/ml	DC 7-16-15	96
85)	Benzo(a)pyrene	17.97	252	1284368	20.074ug/ml		95
87)	Indeno(1,2,3-c,d)pyrene	20.73	276	1170889	20.697ug/ml		89
88)	Dibenzo(a,h)anthracene	20.81	278	1180011	20.844ug/ml		95
89)	Benzo(g,h,i)perylene	21.55	276	1175864	21.112ug/ml		93

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00944

M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene



GSOM01D6.M 5975-G GSOM01D6.M SSTD020GN 28543 DFTPPGN . X07/19/15

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.: F9L98

Instrument ID: 5975-G Calibration Date: 07/08/2015 Time: 08:11

Lab File ID: GC001S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020G0 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	1.183	0.968	0.010	-18.2	40.0
Phenol	1.871	1.744	0.800	-6.8	25.0
Bis(2-chloroethyl)ether	1.549	1.517	0.700	-2.1	25.0
2-Chlorophenol	1.382	1.351	0.800	-2.3	25.0
2-Methylphenol	1.274	1.391	0.700	9.2	25.0
2,2'-Oxybis(1-chloropropane)	3.802	3.700	0.010	-2.7	40.0
Acetophenone	1.916	1.872	0.010	-2.3	40.0
4-Methylphenol	1.399	1.304	0.600	-6.8	25.0
N-Nitroso-di-n-propylamine	1.047	0.987	0.500	-5.7	25.0
Hexachloroethane	0.701	0.716	0.300	2.1	25.0
Nitrobenzene	0.462	0.438	0.200	-5.2	25.0
Isophorone	0.795	0.751	0.400	-5.5	25.0
2-Nitrophenol	0.207	0.194	0.100	-6.2	25.0
2,4-Dimethylphenol	0.392	0.371	0.200	-5.4	25.0
Bis(2-chloroethoxy)methane	0.482	0.462	0.300	-4.0	25.0
2,4-Dichlorophenol	0.309	0.308	0.200	-0.2	25.0
Naphthalene	1.011	1.028	0.700	1.6	25.0
4-Chloroaniline	0.351	0.331	0.010	-5.7	40.0
Hexachlorobutadiene	0.212	0.212	0.010	0.4	40.0
Caprolactam	0.113	0.110	0.010	-2.1	40.0
4-Chloro-3-methylphenol	0.341	0.329	0.200	-3.6	25.0
2-Methylnaphthalene	0.640	0.644	0.400	0.7	25.0
Hexachlorocyclopentadiene	0.412	0.401	0.010	-2.7	40.0
2,4,6-Trichlorophenol	0.418	0.401	0.200	-4.3	25.0
2,4,5-Trichlorophenol	0.410	0.413	0.200	0.7	25.0
1,1'-Biphenyl	1.362	1.351	0.010	-0.8	40.0
2-Chloronaphthalene	1.168	1.121	0.800	-4.0	25.0
2-Nitroaniline	0.478	0.473	0.010	-1.1	40.0
Dimethylphthalate	1.309	1.297	0.010	-1.0	40.0
2,6-Dinitrotoluene	0.297	0.293	0.200	-1.4	25.0
Acenaphthylene	1.810	1.846	0.900	2.0	25.0
3-Nitroaniline	0.217	0.266	0.010	22.5	40.0
Acenaphthene	1.097	1.118	0.900	1.9	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.: F9L98

Instrument ID: 5975-G Calibration Date: 07/08/2015 Time: 08:11

Lab File ID: GC001S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020G0 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.200	0.183	0.010	-8.6	40.0
4-Nitrophenol	0.198	0.211	0.010	6.5	40.0
Dibenzofuran	1.444	1.417	0.800	-1.9	25.0
2,4-Dinitrotoluene	0.395	0.395	0.200	0.1	25.0
Diethylphthalate	1.358	1.513	0.010	11.4	40.0
Fluorene	1.203	1.245	0.900	3.5	25.0
4-Chlorophenyl-phenylether	0.607	0.594	0.400	-2.2	25.0
4-Nitroaniline	0.256	0.272	0.010	6.2	40.0
4,6-Dinitro-2-methylphenol	0.165	0.154	0.010	-6.6	40.0
N-Nitrosodiphenylamine (1)	0.565	0.560	0.010	-0.9	40.0
1,2,4,5-Tetrachlorobenzene	0.557	0.525	0.010	-5.8	40.0
4-Bromophenyl-phenylether	0.214	0.203	0.100	-5.1	25.0
Hexachlorobenzene	0.227	0.213	0.100	-6.0	25.0
Atrazine	0.205	0.206	0.010	0.4	40.0
Pentachlorophenol	0.141	0.110	0.050	-22.1	25.0
Phenanthrene	1.067	1.076	0.700	0.8	25.0
Anthracene	1.089	1.095	0.700	0.6	25.0
Carbazole	0.746	0.942	0.010	26.3	40.0
Di-n-butylphthalate	1.476	1.550	0.010	5.0	40.0
Fluoranthene	1.175	1.189	0.600	1.1	25.0
Pyrene	1.273	1.232	0.600	-3.3	25.0
Butylbenzylphthalate	0.679	0.664	0.010	-2.2	40.0
3,3'-Dichlorobenzidine	0.297	0.366	0.010	23.2	40.0
Benzo(a)anthracene	1.213	1.188	0.800	-2.1	25.0
Chrysene	1.096	1.077	0.700	-1.7	25.0
Bis(2-ethylhexyl)phthalate	0.989	0.998	0.010	0.9	40.0
Di-n-octylphthalate	1.988	2.033	0.010	2.3	40.0
Benzo(b)fluoranthene	1.253	1.287	0.700	2.7	25.0
Benzo(k)fluoranthene	1.183	1.194	0.700	0.9	25.0
Benzo(a)pyrene	1.179	1.206	0.700	2.3	25.0
Indeno(1,2,3-cd)pyrene	1.042	1.103	0.500	5.8	25.0
Dibenzo(a,h)anthracene	1.043	1.112	0.400	6.6	25.0
Benzo(g,h,i)perylene	1.026	1.090	0.500	6.3	25.0
2,3,4,6-Tetrachlorophenol	0.332	0.321	0.100	-3.5	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.: F9L98

Instrument ID: 5975-G Calibration Date: 07/08/2015 Time: 08:11

Lab File ID: GC001S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020G0 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

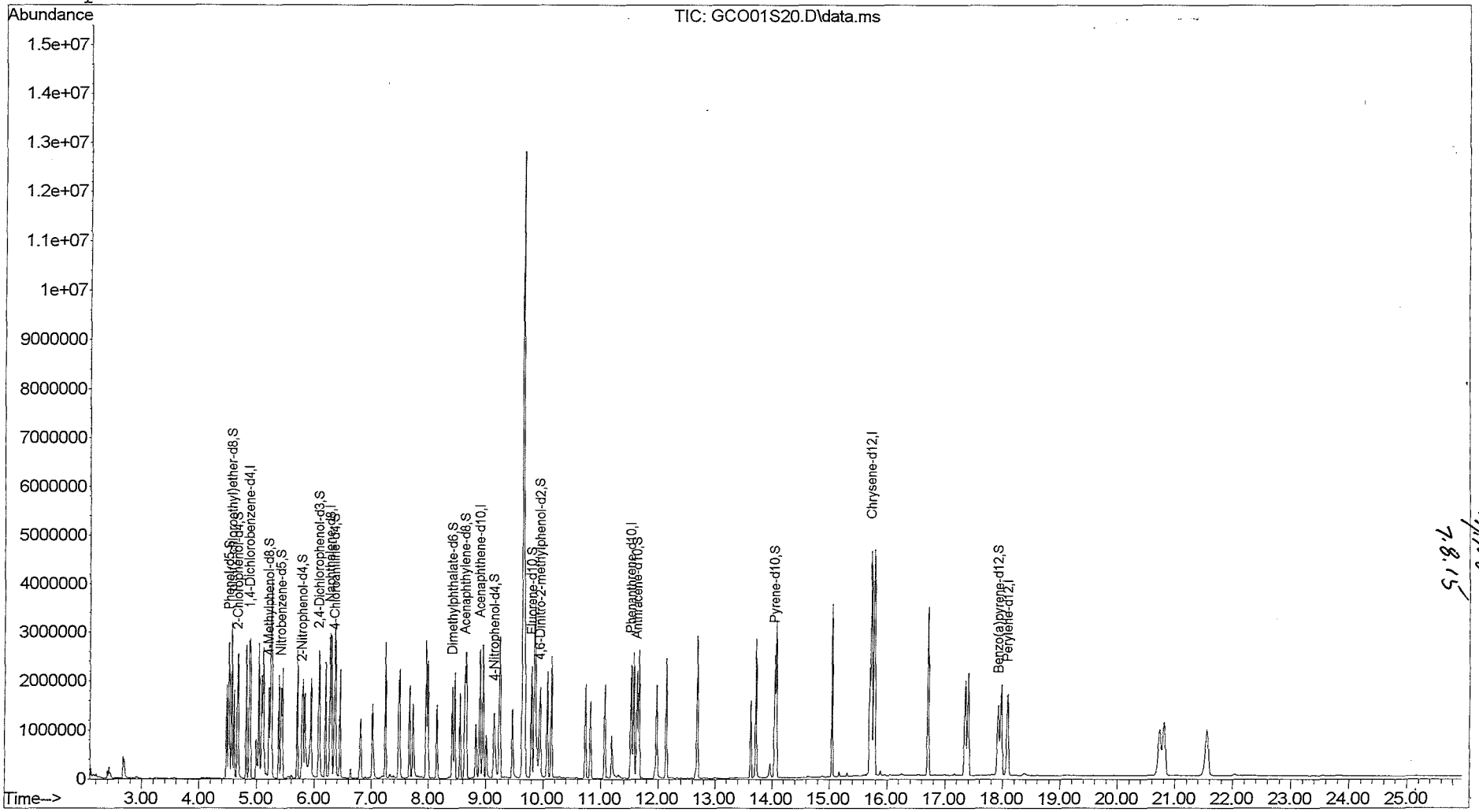
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.740	1.630	0.010	-6.3	25.0
Bis(2-chloroethyl)ether-d8	1.356	1.259	0.010	-7.2	25.0
2-Chlorophenol-d4	1.470	1.416	0.010	-3.7	25.0
4-Methylphenol-d8	1.164	1.157	0.010	-0.6	25.0
Nitrobenzene-d5	0.176	0.167	0.010	-5.1	25.0
2-Nitrophenol-d4	0.186	0.177	0.010	-4.5	25.0
2,4-Dichlorophenol-d3	0.289	0.288	0.010	-0.3	25.0
4-Chloroaniline-d4	0.316	0.277	0.010	-12.3	40.0
Dimethylphthalate-d6	1.254	1.236	0.010	-1.5	40.0
Acenaphthylene-d8	1.704	1.664	0.010	-2.4	25.0
4-Nitrophenol-d4	0.256	0.230	0.010	-10.1	40.0
Fluorene-d10	1.071	1.039	0.010	-3.0	25.0
4,6-Dinitro-2-methylphenol-d2	0.142	0.131	0.010	-7.5	40.0
Anthracene-d10	1.061	1.016	0.010	-4.2	25.0
Pyrene-d10	0.998	0.913	0.010	-8.5	25.0
Benzo(a)pyrene-d12	0.958	0.909	0.010	-5.1	25.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\08JUL15\GCO01S20.D Vial: 1
Acq On : 07/08/2015 08:11 Operator: TJM
Sample : SSTD020GO 28543 DFTPPGO Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 08 08:42:11 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 08 08:42:01 2015
Response via : Initial Calibration



7.8.15

Quantitation Report

Data File : C:\msdchem\1\data\20...15\08JUL15\GCO01S20.D Vial: 1
Acq On : 07/08/2015 08:11 Operator: TJM
Sample : SSTD020GO 28543 DFTPPGO Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 08 08:42:11 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 08 08:42:01 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	376995	20.00 ug/ml
16) Naphthalene-d8	6.27	136	1417420	20.00 ug/ml
33) Acenaphthene-d10	8.90	164	811566	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1355063	20.00 ug/ml
73) Chrysene-d12	15.73	240	1384777	20.00 ug/ml
81) Perylene-d12	18.08	264	1185014	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	614569	18.733ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	474638	18.565ug/mL
7) 2-Chlorophenol-d4	4.66	132	533757	19.269ug/ml
13) 4-Methylphenol-d8	5.21	113	436210	19.879ug/mL
17) Nitrobenzene-d5	5.42	128	236440	18.988ug/ml
21) 2-Nitrophenol-d4	5.78	143	251353	19.098ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	408485	19.932ug/mL
28) 4-Chloroaniline-d4	6.35	131	392311	17.537ug/mL
42) Dimethylphthalate-d6	8.42	166	1002861	19.706ug/mL
45) Acenaphthylene-d8	8.64	160	1350318	19.525ug/mL
50) 4-Nitrophenol-d4	9.14	143	186618	17.975ug/mL
57) Fluorene-d10	9.80	176	843218	19.402ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	177990	18.506ug/mL
69) Anthracene-d10	11.63	188	1377073	19.163ug/mL
75) Pyrene-d10	14.05	212	1264832	18.303ug/mL
86) Benzo(a)pyrene-d12	17.92	264	1077387	18.974ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.48	77	365015	16.363ug/ml	86
4) Phenol	4.52	94	657466	18.646ug/ml	73
5) Bis(2-chloroethyl)ether	4.60	93	572083	19.589ug/ml	91
8) 2-Chlorophenol	4.68	128	509258	19.546ug/ml	83
9) 2-Methylphenol	5.08	108	524214	21.837ug/ml	94
10) 2,2'-Oxybis-(1-chloropropa	5.11	45	1394892	19.466ug/ml	100
11) Acetophenone	5.26	105	705601	19.542ug/ml	40
12) 4-methylphenol	5.23	108	491441	18.638ug/ml	99
14) N-Nitroso-di-n-propylamine	5.25	70	372220	18.869ug/ml	64
15) Hexachloroethane	5.38	117	270021	20.427ug/ml	99
18) Nitrobenzene	5.44	77	620447	18.961ug/ml	85
19) Isophorone	5.70	82	1065085	18.900ug/ml	87
20) 2-Nitrophenol	5.79	139	274688	18.768ug/ml	73
22) 2,4-Dimethylphenol	5.83	107	526148	18.929ug/ml	82
23) Bis(2-chloroethoxy)methane	5.94	93	655471	19.202ug/ml	100
24) 2,4-Dichlorophenol	6.09	162	436939	19.959ug/ml	98
26) Naphthalene	6.29	128	1456579	20.327ug/ml	99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\08JUL15\GCO01S20.D Vial: 1
Acq On : 07/08/2015 08:11 Operator: TJM
Sample : SSTD020GO 28543 DFTPPGO Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 08 08:42:11 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 08 08:42:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27) 4-Chloroaniline	6.36	127	469051	18.863ug/ml	89
29) Hexachlorobutadiene	6.45	225	301102	20.079ug/ml	100
30) Caprolactam	6.81	113	156382	19.585ug/ml	32
31) 4-Chloro-3-methylphenol	7.02	107	466450	19.286ug/ml	91
32) 2-Methylnaphthalene	7.25	142	913169	20.138ug/ml	99
34) 1,2,4,5-Tetrachlorobenzene	7.49	216	425989	18.846ug/mL	98
35) Hexachlorocyclopentadiene	7.47	237	325130	19.465ug/ml	98
36) 2,4,6-Trichlorophenol	7.67	196	325134	19.148ug/ml	97
37) 2,4,5-Trichlorophenol	7.73	196	334886	20.133ug/ml	100
38) 1,1'-Biphenyl	7.96	154	1096679	19.841ug/ml	98
39) 2-Chloronaphthalene	7.99	162	909764	19.198ug/ml	97
40) 2-Nitroaniline	8.15	65	383796	19.788ug/ml	74
41) Dimethylphthalate	8.46	163	1052294	19.806ug/ml	99
43) 2,6-Dinitrotoluene	8.55	165	237778	19.711ug/ml	87
44) Acenaphthylene	8.66	152	1497961	20.396ug/ml	100
46) 3-Nitroaniline	8.83	138	215968	24.510ug/ml	87
47) Acenaphthene	8.95	153	907506	20.389ug/ml	93
48) 2,4-Dinitrophenol	9.01	184	148362	18.287ug/ml	100
49) 4-Nitrophenol	9.15	109	171248	21.302ug/ml	78
51) Dibenzofuran	9.25	168	1150093	19.624ug/ml	93
52) 2,4-Dinitrotoluene	9.24	165	320609	20.013ug/ml	32
53) 2,3,4,6-Tetrachlorophenol	9.47	232	260307	19.305ug/mL	99
54) Diethylphthalate	9.68	149	1227517	22.274ug/ml	95
55) 4-Chlorophenyl-phenylether	9.86	204	481748	19.559ug/ml	98
56) Fluorene	9.85	166	1010318	20.693ug/ml	99
58) 4-Nitroaniline	9.88	138	221043	21.240ug/ml	89
60) 4,6-Dinitro-2-methylphenol	9.95	198	209102	18.682ug/ml	84
62) N-Nitrosodiphenylamine	10.07	169	759319	19.819ug/ml	94
63) 4-Bromophenyl-phenyl ether	10.73	248	274925	18.979ug/ml	98
64) Hexachlorobenzene	10.82	284	289255	18.797ug/ml	93
65) Atrazine	11.07	200	279182	20.080ug/ml	97
66) Pentachlorophenol	11.19	266	148520	15.573ug/ml	98
67) Phenanthrene	11.57	178	1457689	20.169ug/ml	99
68) Anthracene	11.66	178	1484440	20.126ug/ml	99
70) Carbazole	11.97	167	1276356	25.261ug/mL	99
71) Di-n-butylphthalate	12.69	149	2099835	20.996ug/ml	99
72) Fluoranthene	13.72	202	1611022	20.229ug/ml	95
74) Pyrene	14.07	202	1705499	19.348ug/ml	95
76) Butylbenzylphthalate	15.04	149	919812	19.560ug/ml	90
77) 3,3'-Dichlorobenzidine	15.70	252	506289	24.633ug/ml	98
78) Benzo(a)anthracene	15.72	228	1645166	19.583ug/ml	98
79) Chrysene	15.77	228	1490864	19.652ug/ml	99
80) Bis-(2-ethylhexyl)phthalat	15.79	149	1381539	20.174ug/ml	96

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\08JUL15\GCO01S20.D Vial: 1
Acq On : 07/08/2015 08:11 Operator: TJM
Sample : SSTD020GO 28543 DFTPPGO Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 08 08:42:11 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 08 08:42:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.71	149	2408860	20.454ug/ml	96
83) Benzo(b)fluoranthene	17.35	252	1524938	20.545ug/ml	96
84) Benzo(k)fluoranthene	17.40	252	1414724	20.181ug/ml	95
85) Benzo(a)pyrene	17.97	252	1428955	20.459ug/ml	95
87) Indeno(1,2,3-c,d)pyrene	20.74	276	1306627	21.158ug/ml	87
88) Dibenzo(a,h)anthracene	20.81	278	1317894	21.325ug/ml	95
89) Benzo(g,h,i)perylene	21.56	276	1292163	21.252ug/ml	93

(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.: F9L98

Instrument ID: 5975-G Calibration Date: 07/08/2015 Time: 16:27

Lab File ID: GC016S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD02001 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	1.183	0.945	0.010	-20.2	50.0
Phenol	1.871	1.815	0.010	-2.9	50.0
Bis(2-chloroethyl)ether	1.549	1.459	0.010	-5.8	50.0
2-Chlorophenol	1.382	1.346	0.010	-2.6	50.0
2-Methylphenol	1.274	1.433	0.010	12.5	50.0
2,2'-Oxybis(1-chloropropane)	3.802	3.826	0.010	0.6	50.0
Acetophenone	1.916	1.978	0.010	3.3	50.0
4-Methylphenol	1.399	1.349	0.010	-3.6	50.0
N-Nitroso-di-n-propylamine	1.047	0.999	0.010	-4.5	50.0
Hexachloroethane	0.701	0.537	0.010	-23.4	50.0
Nitrobenzene	0.462	0.452	0.010	-2.2	50.0
Isophorone	0.795	0.807	0.010	1.5	50.0
2-Nitrophenol	0.207	0.182	0.010	-11.9	50.0
2,4-Dimethylphenol	0.392	0.391	0.010	-0.4	50.0
Bis(2-chloroethoxy)methane	0.482	0.486	0.010	0.8	50.0
2,4-Dichlorophenol	0.309	0.316	0.010	2.3	50.0
Naphthalene	1.011	1.034	0.010	2.3	50.0
4-Chloroaniline	0.351	0.405	0.010	15.3	50.0
Hexachlorobutadiene	0.212	0.218	0.010	3.1	50.0
Caprolactam	0.113	0.119	0.010	5.9	50.0
4-Chloro-3-methylphenol	0.341	0.356	0.010	4.2	50.0
2-Methylnaphthalene	0.640	0.664	0.010	3.7	50.0
Hexachlorocyclopentadiene	0.412	0.050	0.010	-87.8	50.0
2,4,6-Trichlorophenol	0.418	0.401	0.010	-4.2	50.0
2,4,5-Trichlorophenol	0.410	0.421	0.010	2.8	50.0
1,1'-Biphenyl	1.362	1.340	0.010	-1.6	50.0
2-Chloronaphthalene	1.168	1.098	0.010	-5.9	50.0
2-Nitroaniline	0.478	0.479	0.010	0.1	50.0
Dimethylphthalate	1.309	1.308	0.010	-0.1	50.0
2,6-Dinitrotoluene	0.297	0.278	0.010	-6.4	50.0
Acenaphthylene	1.810	1.836	0.010	1.4	50.0
3-Nitroaniline	0.217	0.324	0.010	49.1	50.0
Acenaphthene	1.097	1.119	0.010	2.1	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.: F9L98

Instrument ID: 5975-G Calibration Date: 07/08/2015 Time: 16:27

Lab File ID: GC016S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD02001 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.200	0.014	0.010	-93.2	50.0
4-Nitrophenol	0.198	0.222	0.010	12.3	50.0
Dibenzofuran	1.444	1.450	0.010	0.4	50.0
2,4-Dinitrotoluene	0.395	0.375	0.010	-5.0	50.0
Diethylphthalate	1.358	1.411	0.010	3.9	50.0
Fluorene	1.203	1.273	0.010	5.8	50.0
4-Chlorophenyl-phenylether	0.607	0.615	0.010	1.2	50.0
4-Nitroaniline	0.256	0.324	0.010	26.3	50.0
4,6-Dinitro-2-methylphenol	0.165	0.017	0.010	-89.6	50.0
N-Nitrosodiphenylamine (1)	0.565	0.572	0.010	1.2	50.0
1,2,4,5-Tetrachlorobenzene	0.557	0.507	0.010	-8.9	50.0
4-Bromophenyl-phenylether	0.214	0.206	0.010	-3.7	50.0
Hexachlorobenzene	0.227	0.220	0.010	-3.1	50.0
Atrazine	0.205	0.193	0.010	-6.1	50.0
Pentachlorophenol	0.141	0.119	0.010	-15.5	50.0
Phenanthrene	1.067	1.100	0.010	3.1	50.0
Anthracene	1.089	1.117	0.010	2.6	50.0
Carbazole	0.746	0.977	0.010	31.0	50.0
Di-n-butylphthalate	1.476	1.532	0.010	3.8	50.0
Fluoranthene	1.175	1.238	0.010	5.3	50.0
Pyrene	1.273	1.349	0.010	6.0	50.0
Butylbenzylphthalate	0.679	0.724	0.010	6.7	50.0
3,3'-Dichlorobenzidine	0.297	0.386	0.010	30.2	50.0
Benzo(a)anthracene	1.213	1.236	0.010	1.9	50.0
Chrysene	1.096	1.106	0.010	1.0	50.0
Bis(2-ethylhexyl)phthalate	0.989	1.071	0.010	8.3	50.0
Di-n-octylphthalate	1.988	3.240	0.010	63.0	50.0
Benzo(b)fluoranthene	1.253	1.490	0.010	19.0	50.0
Benzo(k)fluoranthene	1.183	1.389	0.010	17.4	50.0
Benzo(a)pyrene	1.179	1.199	0.010	1.7	50.0
Indeno(1,2,3-cd)pyrene	1.042	0.604	0.010	-42.1	50.0
Dibenzo(a,h)anthracene	1.043	0.659	0.010	-36.8	50.0
Benzo(g,h,i)perylene	1.026	0.487	0.010	-52.6	50.0
2,3,4,6-Tetrachlorophenol	0.332	0.331	0.010	-0.4	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.: F9L98

Instrument ID: 5975-G Calibration Date: 07/08/2015 Time: 16:27

Lab File ID: GC016S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD02001 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

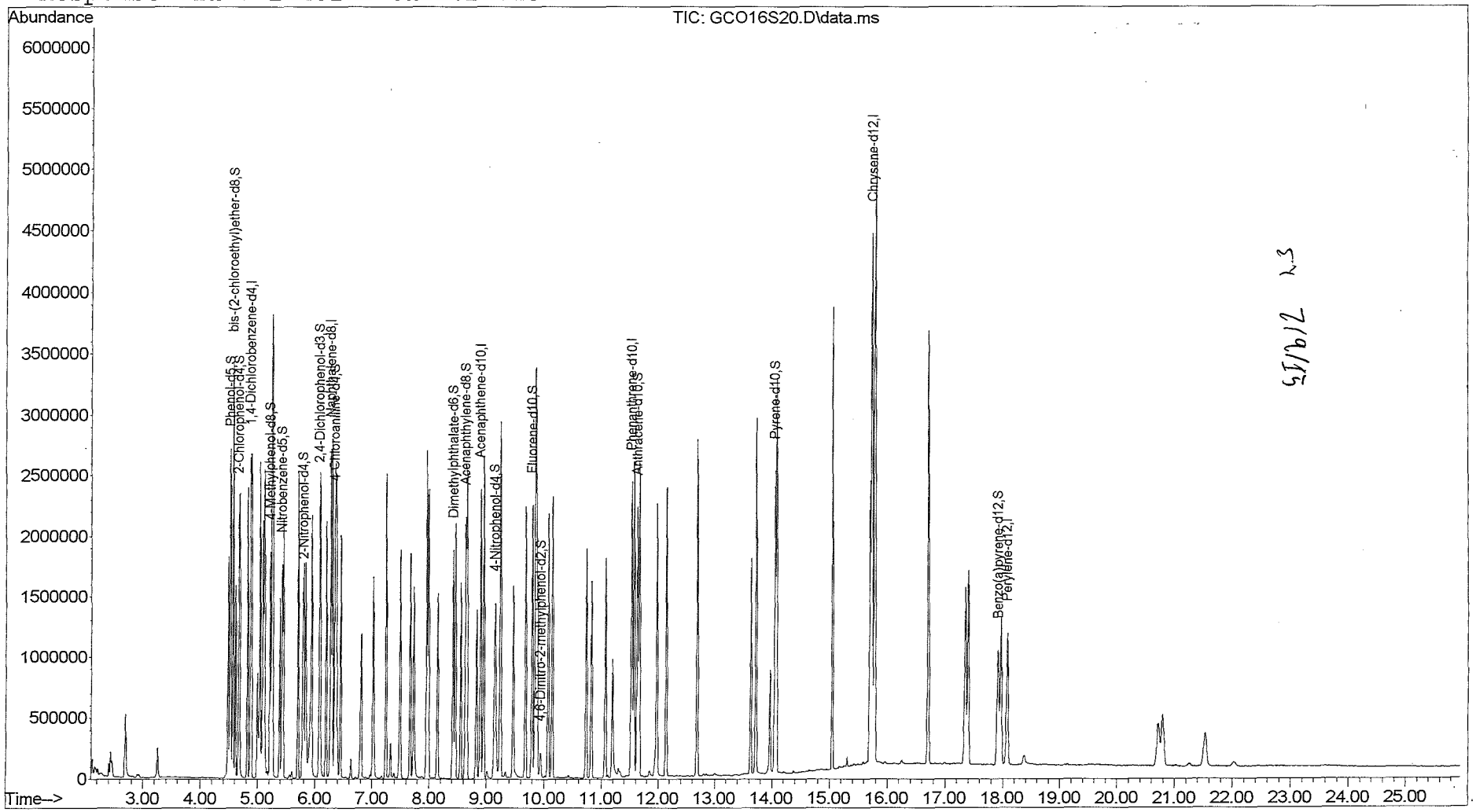
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.740	1.672	0.010	-3.9	50.0
Bis(2-chloroethyl)ether-d8	1.356	1.291	0.010	-4.8	50.0
2-Chlorophenol-d4	1.470	1.409	0.010	-4.1	50.0
4-Methylphenol-d8	1.164	1.185	0.010	1.8	50.0
Nitrobenzene-d5	0.176	0.168	0.010	-4.7	50.0
2-Nitrophenol-d4	0.186	0.164	0.010	-11.7	50.0
2,4-Dichlorophenol-d3	0.289	0.290	0.010	0.4	50.0
4-Chloroaniline-d4	0.316	0.392	0.010	24.3	50.0
Dimethylphthalate-d6	1.254	1.236	0.010	-1.4	50.0
Acenaphthylene-d8	1.704	1.649	0.010	-3.2	50.0
4-Nitrophenol-d4	0.256	0.239	0.010	-6.5	50.0
Fluorene-d10	1.071	1.058	0.010	-1.2	50.0
4,6-Dinitro-2-methylphenol-d2	0.142	0.015	0.010	-89.5	50.0
Anthracene-d10	1.061	1.014	0.010	-4.4	50.0
Pyrene-d10	0.998	0.992	0.010	-0.6	50.0
Benzo(a)pyrene-d12	0.958	0.949	0.010	-1.0	50.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\08JUL15\GCO16S20.D Vial: 1
Acq On : 07/08/2015 16:27 Operator: TJM
Sample : SSTD02001 28543 DFTPPO1 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 08 16:53:23 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jul 09 07:08:07 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\20...15\08JUL15\GC016S20.D Vial: 1
Acq On : 07/08/2015 16:27 Operator: TJM
Sample : SSTD020O1 28543 DFTPPO1 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 08 16:53:23 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jul 09 07:08:07 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	346758	20.00 ug/ml
16) Naphthalene-d8	6.27	136	1296195	20.00 ug/ml
33) Acenaphthene-d10	8.90	164	784130	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1343172	20.00 ug/ml
73) Chrysene-d12	15.73	240	1291651	20.00 ug/ml
81) Perylene-d12	18.07	264	747538	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	579850	19.216ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	447704	19.038ug/mL
7) 2-Chlorophenol-d4	4.66	132	488428	19.171ug/ml
13) 4-Methylphenol-d8	5.21	113	410932	20.360ug/mL
17) Nitrobenzene-d5	5.42	128	217127	19.068ug/ml
21) 2-Nitrophenol-d4	5.78	143	212621	17.666ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	376476	20.088ug/mL
28) 4-Chloroaniline-d4	6.33	131	508363	24.850ug/mL
42) Dimethylphthalate-d6	8.42	166	969148	19.710ug/mL
45) Acenaphthylene-d8	8.63	160	1293105	19.352ug/mL
50) 4-Nitrophenol-d4	9.14	143	187670	18.709ug/mL
57) Fluorene-d10	9.79	176	829972	19.765ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	20109	2.109ug/mL
69) Anthracene-d10	11.62	188	1362021	19.122ug/mL
75) Pyrene-d10	14.04	212	1281465	19.880ug/mL
86) Benzo(a)pyrene-d12	17.91	264	709328	19.802ug/mL
Target Compounds				Qvalue
3) Benzaldehyde	4.48	77	327638	15.968ug/ml 88
4) Phenol	4.52	94	629528	19.411ug/ml 74
5) Bis(2-chloroethyl)ether	4.61	93	505972	18.836ug/ml 87
8) 2-Chlorophenol	4.68	128	466797	19.479ug/ml 81
9) 2-Methylphenol	5.09	108	496889	22.503ug/ml 95
10) 2,2'-Oxybis-(1-chloropropa	5.11	45	1326627	20.128ug/ml 100
11) Acetophenone	5.26	105	686053	20.657ug/ml 41
12) 4-methylphenol	5.23	108	467695	19.284ug/ml 100
14) N-Nitroso-di-n-propylamine	5.25	70	346433	19.093ug/ml 64
15) Hexachloroethane	5.38	117	186163	15.311ug/ml 99
18) Nitrobenzene	5.44	77	585254	19.558ug/ml 85
19) Isophorone	5.70	82	1046512	20.308ug/ml 86
20) 2-Nitrophenol	5.79	139	235704	17.611ug/ml 73
22) 2,4-Dimethylphenol	5.82	107	506267	19.918ug/ml 81
23) Bis(2-chloroethoxy)methane	5.93	93	629437	20.164ug/ml 99
24) 2,4-Dichlorophenol	6.09	162	409507	20.455ug/ml 98
26) Naphthalene	6.29	128	1340802	20.461ug/ml 99

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 00954

Quantitation Report

Data File : C:\msdchem\1\data\20...15\08JUL15\GC016S20.D Vial: 1
Acq On : 07/08/2015 16:27 Operator: TJM
Sample : SSTD02001 28543 DFTPP01 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 08 16:53:23 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jul 09 07:08:07 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.35	127	524515	23.066ug/ml	86
29)	Hexachlorobutadiene	6.45	225	282667	20.612ug/ml	99
30)	Caprolactam	6.81	113	154590	21.171ug/ml	29
31)	4-Chloro-3-methylphenol	7.02	107	461092	20.847ug/ml	90
32)	2-Methylnaphthalene	7.25	142	860026	20.740ug/ml	99
34)	1,2,4,5-Tetrachlorobenzene	7.49	216	397776	18.214ug/mL	99
35)	Hexachlorocyclopentadiene	7.47	237	39245	2.432ug/ml	97
36)	2,4,6-Trichlorophenol	7.67	196	314197	19.152ug/ml	99
37)	2,4,5-Trichlorophenol	7.73	196	330484	20.564ug/ml	97
38)	1,1'-Biphenyl	7.96	154	1050994	19.679ug/ml	99
39)	2-Chloronaphthalene	7.99	162	861360	18.812ug/ml	97
40)	2-Nitroaniline	8.15	65	375342	20.029ug/ml	74
41)	Dimethylphthalate	8.46	163	1025795	19.982ug/ml	99
43)	2,6-Dinitrotoluene	8.55	165	218199	18.721ug/ml	85
44)	Acenaphthylene	8.66	152	1439279	20.283ug/ml	100
46)	3-Nitroaniline	8.82	138	253945	29.828ug/ml	84
47)	Acenaphthene	8.95	153	877745	20.410ug/ml	95
48)	2,4-Dinitrophenol	9.01	184	10734	1.369ug/ml	100
49)	4-Nitrophenol	9.15	109	174452	22.460ug/ml	76
51)	Dibenzofuran	9.25	168	1137319	20.085ug/ml	93
52)	2,4-Dinitrotoluene	9.23	165	294226	19.009ug/ml	27
53)	2,3,4,6-Tetrachlorophenol	9.46	232	259545	19.922ug/mL	96
54)	Diethylphthalate	9.67	149	1106515	20.781ug/ml	96
55)	4-Chlorophenyl-phenylether	9.86	204	481879	20.248ug/ml	98
56)	Fluorene	9.85	166	997908	21.154ug/ml	98
58)	4-Nitroaniline	9.88	138	253927	25.253ug/ml	91
60)	4,6-Dinitro-2-methylphenol	9.95	198	23035	2.076ug/ml	48
62)	N-Nitrosodiphenylamine	10.07	169	768438	20.235ug/ml	93
63)	4-Bromophenyl-phenyl ether	10.73	248	276558	19.261ug/ml	96
64)	Hexachlorobenzene	10.82	284	295612	19.380ug/ml	93
65)	Atrazine	11.06	200	258846	18.782ug/ml	97
66)	Pentachlorophenol	11.19	266	159681	16.892ug/ml	97
67)	Phenanthrene	11.56	178	1477323	20.622ug/ml	99
68)	Anthracene	11.66	178	1499865	20.515ug/ml	99
70)	Carbazole	11.97	167	1312165	26.200ug/mL	99
71)	Di-n-butylphthalate	12.69	149	2057920	20.759ug/ml	99
72)	Fluoranthene	13.72	202	1663250	21.069ug/ml	95
74)	Pyrene	14.07	202	1742549	21.194ug/ml	95
76)	Butylbenzylphthalate	15.04	149	935628	21.331ug/ml	90
77)	3,3'-Dichlorobenzidine	15.69	252	499120	26.035ug/ml	98
78)	Benzo(a)anthracene	15.72	228	1596679	20.376ug/ml	98
79)	Chrysene	15.76	228	1429112	20.196ug/ml	99
80)	Bis-(2-ethylhexyl)phthalat	15.78	149	1383000	21.651ug/ml	96

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

00055

Quantitation Report

Data File : C:\msdchem\1\data\20...15\08JUL15\GC016S20.D Vial: 1
Acq On : 07/08/2015 16:27 Operator: TJM
Sample : SSTD020O1 28543 DFTPPO1 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 08 16:53:23 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Thu Jul 09 07:08:07 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.70	149	2421653	32.597ug/ml	96
83) Benzo(b)fluoranthene	17.34	252	1113952	23.791ug/ml	96
84) Benzo(k)fluoranthene	17.39	252	1038661	23.487ug/ml	95
85) Benzo(a)pyrene	17.96	252	896110	20.338ug/ml	95
87) Indeno(1,2,3-c,d)pyrene	20.72	276	451470	11.589ug/ml	90
88) Dibenzo(a,h)anthracene	20.79	278	492843	12.642ug/ml	96
89) Benzo(g,h,i)perylene	21.53	276	363933	9.488ug/ml	94

(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.: F9L98

Instrument ID: 5975-G Calibration Date: 07/07/2015 Time: 18:32

Lab File ID: GCN08S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020N1 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Benzaldehyde	1.183	0.982	0.010	-17.1	50.0
Phenol	1.871	1.822	0.010	-2.6	50.0
Bis(2-chloroethyl)ether	1.549	1.498	0.010	-3.3	50.0
2-Chlorophenol	1.382	1.361	0.010	-1.6	50.0
2-Methylphenol	1.274	1.419	0.010	11.4	50.0
2,2'-Oxybis(1-chloropropane)	3.802	3.853	0.010	1.4	50.0
Acetophenone	1.916	1.983	0.010	3.5	50.0
4-Methylphenol	1.399	1.374	0.010	-1.8	50.0
N-Nitroso-di-n-propylamine	1.047	1.053	0.010	0.6	50.0
Hexachloroethane	0.701	0.688	0.010	-1.9	50.0
Nitrobenzene	0.462	0.444	0.010	-3.8	50.0
Isophorone	0.795	0.797	0.010	0.2	50.0
2-Nitrophenol	0.207	0.203	0.010	-1.5	50.0
2,4-Dimethylphenol	0.392	0.402	0.010	2.6	50.0
Bis(2-chloroethoxy)methane	0.482	0.475	0.010	-1.5	50.0
2,4-Dichlorophenol	0.309	0.312	0.010	1.1	50.0
Naphthalene	1.011	1.022	0.010	1.1	50.0
4-Chloroaniline	0.351	0.385	0.010	9.8	50.0
Hexachlorobutadiene	0.212	0.215	0.010	1.5	50.0
Caprolactam	0.113	0.118	0.010	4.6	50.0
4-Chloro-3-methylphenol	0.341	0.353	0.010	3.5	50.0
2-Methylnaphthalene	0.640	0.662	0.010	3.5	50.0
Hexachlorocyclopentadiene	0.412	0.177	0.010	-57.0	50.0
2,4,6-Trichlorophenol	0.418	0.406	0.010	-3.0	50.0
2,4,5-Trichlorophenol	0.410	0.413	0.010	0.7	50.0
1,1'-Biphenyl	1.362	1.354	0.010	-0.6	50.0
2-Chloronaphthalene	1.168	1.084	0.010	-7.2	50.0
2-Nitroaniline	0.478	0.477	0.010	-0.3	50.0
Dimethylphthalate	1.309	1.298	0.010	-0.9	50.0
2,6-Dinitrotoluene	0.297	0.293	0.010	-1.5	50.0
Acenaphthylene	1.810	1.821	0.010	0.6	50.0
3-Nitroaniline	0.217	0.313	0.010	44.3	50.0
Acenaphthene	1.097	1.093	0.010	-0.3	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.: F9L98

Instrument ID: 5975-G Calibration Date: 07/07/2015 Time: 18:32

Lab File ID: GCN08S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020N1 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
2,4-Dinitrophenol	0.200	0.121	0.010	-39.5	50.0
4-Nitrophenol	0.198	0.211	0.010	6.5	50.0
Dibenzofuran	1.444	1.419	0.010	-1.7	50.0
2,4-Dinitrotoluene	0.395	0.394	0.010	-0.2	50.0
Diethylphthalate	1.358	1.385	0.010	2.0	50.0
Fluorene	1.203	1.239	0.010	3.0	50.0
4-Chlorophenyl-phenylether	0.607	0.607	0.010	-0.1	50.0
4-Nitroaniline	0.256	0.305	0.010	18.9	50.0
4,6-Dinitro-2-methylphenol	0.165	0.113	0.010	-31.7	50.0
N-Nitrosodiphenylamine (1)	0.565	0.572	0.010	1.1	50.0
1,2,4,5-Tetrachlorobenzene	0.557	0.506	0.010	-9.1	50.0
4-Bromophenyl-phenylether	0.214	0.208	0.010	-2.9	50.0
Hexachlorobenzene	0.227	0.218	0.010	-4.1	50.0
Atrazine	0.205	0.206	0.010	0.3	50.0
Pentachlorophenol	0.141	0.114	0.010	-19.2	50.0
Phenanthrene	1.067	1.090	0.010	2.1	50.0
Anthracene	1.089	1.121	0.010	2.9	50.0
Carbazole	0.746	0.935	0.010	25.4	50.0
Di-n-butylphthalate	1.476	1.488	0.010	0.8	50.0
Fluoranthene	1.175	1.206	0.010	2.6	50.0
Pyrene	1.273	1.296	0.010	1.8	50.0
Butylbenzylphthalate	0.679	0.698	0.010	2.7	50.0
3,3'-Dichlorobenzidine	0.297	0.385	0.010	29.6	50.0
Benzo(a)anthracene	1.213	1.232	0.010	1.5	50.0
Chrysene	1.096	1.091	0.010	-0.4	50.0
Bis(2-ethylhexyl)phthalate	0.989	1.032	0.010	4.4	50.0
Di-n-octylphthalate	1.988	2.339	0.010	17.7	50.0
Benzo(b)fluoranthene	1.253	1.310	0.010	4.6	50.0
Benzo(k)fluoranthene	1.183	1.274	0.010	7.7	50.0
Benzo(a)pyrene	1.179	1.210	0.010	2.6	50.0
Indeno(1,2,3-cd)pyrene	1.042	0.808	0.010	-22.5	50.0
Dibenzo(a,h)anthracene	1.043	0.851	0.010	-18.4	50.0
Benzo(g,h,i)perylene	1.026	0.722	0.010	-29.6	50.0
2,3,4,6-Tetrachlorophenol	0.332	0.320	0.010	-3.7	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.: F9L98

Instrument ID: 5975-G Calibration Date: 07/07/2015 Time: 18:32

Lab File ID: GCN08S20 Init. Calib. Date(s): 06/20/2015 06/20/2015

EPA Sample No.(SSTD020##): SSTD020N1 Init. Calib. Time(s): 11:10 13:22

GC Column: DB5MS ID: 0.32 (mm)

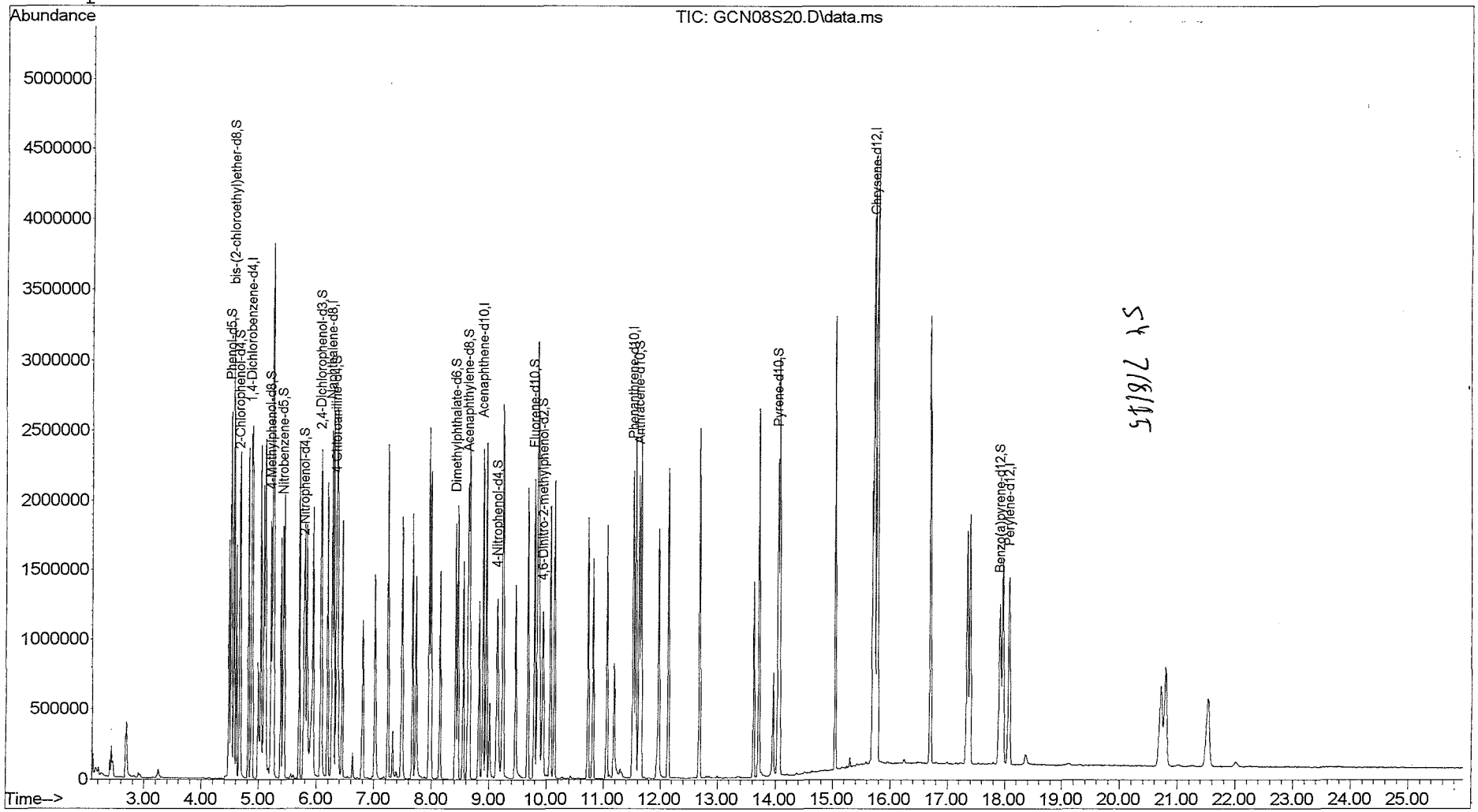
COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Phenol-d5	1.740	1.677	0.010	-3.7	50.0
Bis(2-chloroethyl)ether-d8	1.356	1.321	0.010	-2.6	50.0
2-Chlorophenol-d4	1.470	1.439	0.010	-2.1	50.0
4-Methylphenol-d8	1.164	1.214	0.010	4.3	50.0
Nitrobenzene-d5	0.176	0.167	0.010	-4.9	50.0
2-Nitrophenol-d4	0.186	0.179	0.010	-3.5	50.0
2,4-Dichlorophenol-d3	0.289	0.288	0.010	-0.3	50.0
4-Chloroaniline-d4	0.316	0.357	0.010	13.2	50.0
Dimethylphthalate-d6	1.254	1.222	0.010	-2.5	50.0
Acenaphthylene-d8	1.704	1.677	0.010	-1.6	50.0
4-Nitrophenol-d4	0.256	0.241	0.010	-6.0	50.0
Fluorene-d10	1.071	1.042	0.010	-2.7	50.0
4,6-Dinitro-2-methylphenol-d2	0.142	0.096	0.010	-32.3	50.0
Anthracene-d10	1.061	1.027	0.010	-3.2	50.0
Pyrene-d10	0.998	0.964	0.010	-3.4	50.0
Benzo(a)pyrene-d12	0.958	0.940	0.010	-1.9	50.0

Quantitation Report

Data File : C:\msdchem\1\data\20...15\07JUL15\GCN08S20.D Vial: 1
Acq On : 07/07/2015 18:32 Operator: TJM
Sample : SSTD020N1 28543 DFTPPN1 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 08 06:55:17 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 08 06:55:25 2015
Response via : Initial Calibration



SY 7/6/15

Quantitation Report

Data File : C:\msdchem\1\data\20...15\07JUL15\GCN08S20.D Vial: 1
Acq On : 07/07/2015 18:32 Operator: TJM
Sample : SSTD020N1 28543 DFTPPN1 Inst : 5975-G
Misc : , X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 08 06:55:17 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 08 06:55:25 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.87	152	329798	20.00 ug/ml
16) Naphthalene-d8	6.26	136	1260461	20.00 ug/ml
33) Acenaphthene-d10	8.89	164	755225	20.00 ug/ml
59) Phenanthrene-d10	11.52	188	1250157	20.00 ug/ml
73) Chrysene-d12	15.73	240	1220337	20.00 ug/ml
81) Perylene-d12	18.07	264	949598	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.51	99	552944	19.267ug/ml
6) bis-(2-chloroethyl)ether-d	4.56	67	435716	19.481ug/mL
7) 2-Chlorophenol-d4	4.66	132	474427	19.579ug/ml
13) 4-Methylphenol-d8	5.20	113	400484	20.863ug/mL
17) Nitrobenzene-d5	5.42	128	210573	19.017ug/ml
21) 2-Nitrophenol-d4	5.77	143	225947	19.305ug/mL
25) 2,4-Dichlorophenol-d3	6.07	165	363348	19.937ug/mL
28) 4-Chloroaniline-d4	6.33	131	450573	22.650ug/mL
42) Dimethylphthalate-d6	8.42	166	923088	19.492ug/mL
45) Acenaphthylene-d8	8.63	160	1266846	19.684ug/mL
50) 4-Nitrophenol-d4	9.13	143	181709	18.808ug/mL
57) Fluorene-d10	9.79	176	787240	19.465ug/mL
61) 4,6-Dinitro-2-methylphenol	9.93	200	120194	13.545ug/mL
69) Anthracene-d10	11.62	188	1283830	19.365ug/mL
75) Pyrene-d10	14.04	212	1176120	19.312ug/mL
86) Benzo(a)pyrene-d12	17.91	264	892480	19.614ug/mL

Target Compounds					Qvalue
3) Benzaldehyde	4.47	77	323742	16.590ug/ml	87
4) Phenol	4.52	94	600862	19.480ug/ml	73
5) Bis(2-chloroethyl)ether	4.60	93	494089	19.340ug/ml	87
8) 2-Chlorophenol	4.67	128	448730	19.688ug/ml	82
9) 2-Methylphenol	5.08	108	467984	22.284ug/ml	96
10) 2,2'-Oxybis-(1-chloropropa	5.11	45	1270804	20.272ug/ml	100
11) Acetophenone	5.25	105	653883	20.701ug/ml	41
12) 4-methylphenol	5.23	108	453155	19.646ug/ml	100
14) N-Nitroso-di-n-propylamine	5.25	70	347208	20.120ug/ml	64
15) Hexachloroethane	5.38	117	226994	19.630ug/ml	97
18) Nitrobenzene	5.44	77	559988	19.244ug/ml	86
19) Isophorone	5.70	82	1004245	20.040ug/ml	86
20) 2-Nitrophenol	5.79	139	256481	19.706ug/ml	76
22) 2,4-Dimethylphenol	5.82	107	507056	20.514ug/ml	81
23) Bis(2-chloroethoxy)methane	5.93	93	598277	19.709ug/ml	99
24) 2,4-Dichlorophenol	6.08	162	393677	20.222ug/ml	97
26) Naphthalene	6.29	128	1288748	20.224ug/ml	100

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\20...15\07JUL15\GCN08S20.D Vial: 1
Acq On : 07/07/2015 18:32 Operator: TJM
Sample : SSTD020N1 28543 DFTPPN1 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 08 06:55:17 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 08 06:55:25 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
27)	4-Chloroaniline	6.35	127	485792	21.969ug/ml	86
29)	Hexachlorobutadiene	6.45	225	270675	20.297ug/ml	98
30)	Caprolactam	6.80	113	148529	20.918ug/ml	30
31)	4-Chloro-3-methylphenol	7.01	107	445048	20.692ug/ml	90
32)	2-Methylnaphthalene	7.24	142	834594	20.697ug/ml	99
34)	1,2,4,5-Tetrachlorobenzene	7.49	216	382383	18.179ug/mL	97
35)	Hexachlorocyclopentadiene	7.47	237	133553	8.592ug/ml	98
36)	2,4,6-Trichlorophenol	7.66	196	306673	19.409ug/ml	97
37)	2,4,5-Trichlorophenol	7.73	196	311699	20.137ug/ml	100
38)	1,1'-Biphenyl	7.96	154	1022648	19.881ug/ml	99
39)	2-Chloronaphthalene	7.99	162	818499	18.560ug/ml	98
40)	2-Nitroaniline	8.15	65	359993	19.945ug/ml	74
41)	Dimethylphthalate	8.46	163	980281	19.827ug/ml	98
43)	2,6-Dinitrotoluene	8.55	165	221224	19.707ug/ml	86
44)	Acenaphthylene	8.66	152	1375292	20.123ug/ml	99
46)	3-Nitroaniline	8.82	138	236600	28.855ug/ml	84
47)	Acenaphthene	8.95	153	825748	19.936ug/ml	95
48)	2,4-Dinitrophenol	9.00	184	91296	12.093ug/ml	100
49)	4-Nitrophenol	9.15	109	159396	21.307ug/ml	76
51)	Dibenzofuran	9.25	168	1071721	19.651ug/ml	92
52)	2,4-Dinitrotoluene	9.23	165	297441	19.952ug/ml	33
53)	2,3,4,6-Tetrachlorophenol	9.46	232	241757	19.267ug/mL	98
54)	Diethylphthalate	9.67	149	1045738	20.391ug/ml	96
55)	4-Chlorophenyl-phenylether	9.86	204	458105	19.986ug/ml	98
56)	Fluorene	9.84	166	935865	20.598ug/ml	98
58)	4-Nitroaniline	9.87	138	230324	23.782ug/ml	95
60)	4,6-Dinitro-2-methylphenol	9.95	198	140968	13.652ug/ml	86
62)	N-Nitrosodiphenylamine	10.07	169	714548	20.216ug/ml	93
63)	4-Bromophenyl-phenyl ether	10.73	248	259500	19.417ug/ml	97
64)	Hexachlorobenzene	10.82	284	272402	19.187ug/ml	92
65)	Atrazine	11.06	200	257311	20.060ug/ml	96
66)	Pentachlorophenol	11.19	266	142107	16.151ug/ml	98
67)	Phenanthrene	11.56	178	1362139	20.428ug/ml	100
68)	Anthracene	11.66	178	1401001	20.588ug/ml	99
70)	Carbazole	11.97	167	1169312	25.084ug/mL	99
71)	Di-n-butylphthalate	12.68	149	1860173	20.161ug/ml	99
72)	Fluoranthene	13.72	202	1507079	20.511ug/ml	95
74)	Pyrene	14.07	202	1581768	20.362ug/ml	95
76)	Butylbenzylphthalate	15.04	149	851216	20.541ug/ml	89
77)	3,3'-Dichlorobenzidine	15.69	252	469610	25.927ug/ml	97
78)	Benzo(a)anthracene	15.72	228	1503450	20.308ug/ml	98
79)	Chrysene	15.76	228	1331505	19.917ug/ml	98
80)	Bis-(2-ethylhexyl)phthalat	15.78	149	1259927	20.877ug/ml	96

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

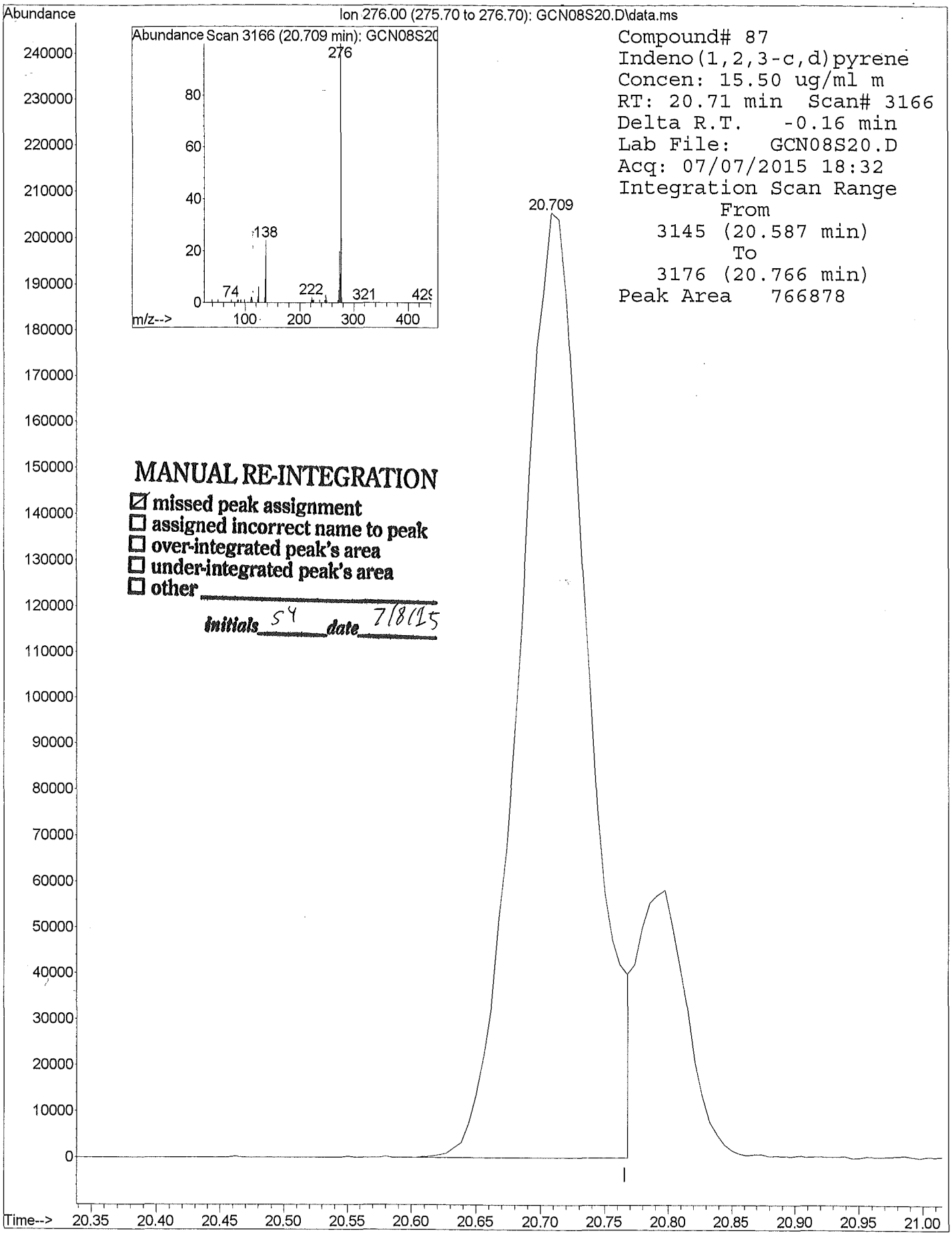
Data File : C:\msdchem\1\data\20...15\07JUL15\GCN08S20.D Vial: 1
Acq On : 07/07/2015 18:32 Operator: TJM
Sample : SSTD020N1 28543 DFTPPN1 Inst : 5975-G
Misc : . X07/19/15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 08 06:55:17 2015 Results File: GSOM01D6.RES

Method : C:\msdchem\1\methods\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Wed Jul 08 06:55:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) Di-n-octylphthalate	16.70	149	2221360	23.538ug/ml	96
83) Benzo(b)fluoranthene	17.34	252	1243875	20.913ug/ml	96
84) Benzo(k)fluoranthene	17.39	252	1210193	21.543ug/ml	95
85) Benzo(a)pyrene	17.96	252	1148844	20.526ug/ml	95
87) Indeno(1,2,3-c,d)pyrene	20.71	276	766878	15.496ug/ml m 57	43
88) Dibenzo(a,h)anthracene	20.79	278	807949	16.315ug/ml 7/8/15	96
89) Benzo(g,h,i)perylene	21.53	276	685910	14.078ug/ml	93

(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 Indeno(1,2,3-c,d)pyrene



GSOM01D6.M 5975-G GSOM01D6.M SSTD020N1 28543 DFTPPN1 . X07/19

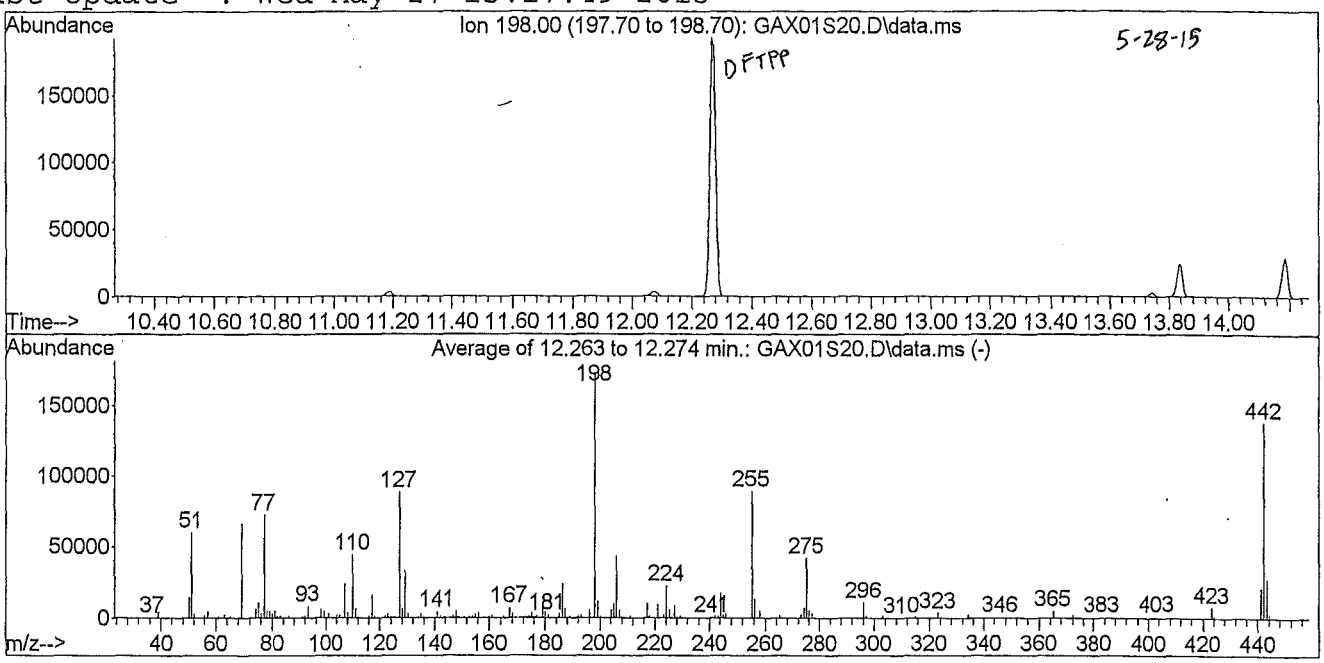
DFTPP

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

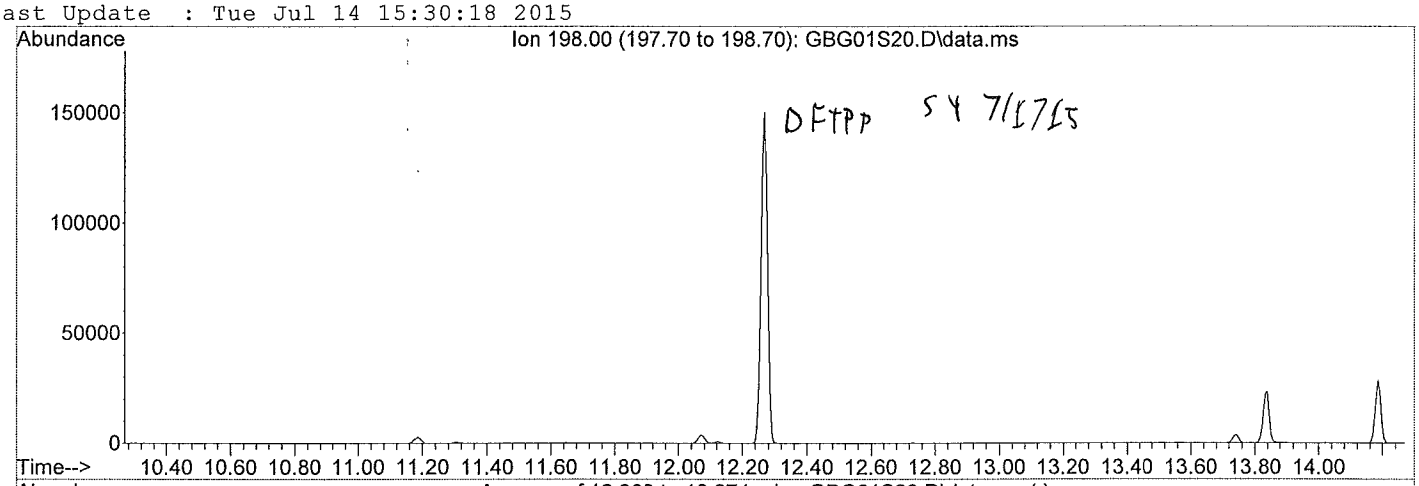
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
352.10	905	391.00	160	435.60	65		
353.05	737	392.10	57	436.50	117		
354.10	1171	401.00	58	437.20	97		
355.05	280	402.05	729	437.65	154		
365.05	4828	403.05	1106	438.40	153		
366.05	628	404.10	388	439.70	145		
371.05	343	421.05	1065	441.10	20965		
372.10	2005	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		

DFTPP

Data Path : C:\msdchem\1\data\F9L98(45316)\09JUN15\
Data File : GBG01S20.D
Acq On : 06/09/2015 09:41
Operator : DJC
Sample : SSTD020GG 28237 DFTPPGG
Inst : 5975-G
Misc : . X06/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : R:\G\METHODS\GSOM01D6.M
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015



Average of scans 1730, 1731, 1732

Background subtracted 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	30.8	40666	PASS
68	69	0.00	2	2.0	951	PASS
69	198	0.00	100	36.0	47581	PASS
70	69	0.00	2	0.5	232	PASS
127	198	10	80	49.5	65323	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	132043	PASS
199	198	5	9	6.7	8808	PASS
275	198	10	60	25.6	33808	PASS
365	198	1	100	2.9	3874	PASS
441	443	0.01	100	77.5	17452	PASS
442	198	50	100	89.7	118496	PASS
443	442	15	24	19.0	22520	PASS

Average of 12.263 to 12.274 min.: GBG01S20.D\data.ms
SSTD020GG 28237 DFTPPGG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	67	53.05	113	65.90	54	78.05	3372
38.00	470	55.05	292	68.10	951	79.00	3142
39.05	2475	56.00	1402	69.00	47581	80.00	2784
40.00	30	57.00	3111	69.90	219	81.00	3668
41.05	116	57.90	57	70.10	99	82.00	997
43.05	197	58.10	62	70.65	232	82.90	589
49.00	97	61.00	501	73.05	455	83.30	672
49.20	112	61.95	514	74.00	4619	85.00	748
50.05	10213	63.00	1512	75.00	6978	86.00	778
51.05	40666	64.05	324	76.05	2682	86.95	394
52.10	2107	65.00	938	77.05	50560	88.00	96

Average of 12.263 to 12.274 min.: GBG01S20.D\data.ms
SSTD020GG 28237 DFTPPGG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.05	1073	101.00	2373	111.00	5042	124.95	810
92.05	907	101.90	58	112.00	575	127.00	65323
93.00	5679	102.10	145	113.00	56	128.05	5020
93.95	388	103.05	696	116.05	1034	129.00	24912
94.90	76	104.00	1437	117.00	11815	130.00	2022
95.95	268	105.00	1339	117.95	963	131.00	495
96.90	64	106.10	511	118.95	204	131.90	212
97.10	147	107.00	17420	120.05	271	133.00	159
98.00	4641	108.00	2527	122.00	1264	134.00	742
99.00	3156	109.10	199	123.00	1817	135.05	1912
99.95	352	110.00	32443	123.95	893	135.95	842

Average of 12.263 to 12.274 min.: GBG01S20.D\data.ms
SSTD020GG 28237 DFTPPGG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.00	787	149.95	248	157.95	580	169.00	356
138.05	118	150.20	83	159.05	438	170.10	245
141.00	3093	150.90	155	160.00	1128	171.05	302
142.05	1048	151.15	287	161.05	1406	171.95	606
142.95	829	151.75	317	162.05	417	173.05	686
144.00	209	152.20	157	163.20	51	174.05	1389
144.95	109	152.95	1122	163.95	148	175.00	2506
146.00	596	154.00	803	165.00	968	175.95	741
147.00	1724	155.05	1870	166.10	37	176.95	1221
148.00	3418	156.00	2480	167.10	692	178.05	434
149.05	620	157.00	540	168.05	1609	179.00	4628

Average of 12.263 to 12.274 min.: GBG01S20.D\data.ms
SSTD020GG 28237 DFTPPGG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
180.05	3293	190.95	391	203.05	889	215.00	352
181.00	1728	192.00	1556	204.05	4625	216.10	740
182.00	273	193.05	1621	205.05	7666	217.00	8187
182.80	94	193.95	231	206.10	32469	218.00	1107
184.00	484	194.20	82	207.10	4092	219.00	60
185.00	2275	195.00	182	208.05	1017	221.10	6926
186.10	17675	196.00	3972	209.05	344	222.10	401
187.05	4958	198.00	132043	210.15	557	223.05	1788
188.00	533	199.00	8808	210.95	1368	224.10	17108
189.00	1061	200.05	735	211.85	175	225.10	4221
189.90	53	201.45	669	212.10	157	226.05	296

Average of 12.263 to 12.274 min.: GBG01S20.D\data.ms
SSTD020GG 28237 DFTPPGG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
227.05	6811	238.95	232	252.00	76	265.00	1531
228.05	1101	239.90	65	252.20	56	266.00	255
229.00	1595	240.05	151	253.10	391	271.20	58
230.05	195	240.95	438	255.10	69789	271.80	67
231.00	697	242.05	894	256.10	9719	272.00	166
231.90	121	243.10	1033	257.00	767	273.05	2131
232.90	121	244.10	13580	258.00	3783	274.10	5808
234.05	404	245.10	1918	259.00	624	275.10	33808
235.00	507	246.05	2436	260.10	81	276.10	4193
235.95	289	247.00	538	261.00	52	277.05	2558

237.00	589	248.95	520	264.00	112	277.90	372

Average of 12.263 to 12.274 min.: GBG01S20.D\data.ms
SSTD020GG 28237 DFTPPGG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
283.00	293	301.95	196	327.00	412	354.10	920
284.00	138	303.10	1055	328.05	288	355.10	131
285.00	398	304.05	231	332.05	186	365.05	3874
289.00	50	310.00	62	333.10	293	365.95	548
290.00	53	314.05	450	334.10	1804	370.00	65
292.00	52	315.05	977	335.05	584	370.90	59
293.05	470	316.05	582	341.10	346	371.15	191
294.10	64	321.00	260	346.10	632	372.05	1523
295.10	103	322.00	153	347.00	61	373.05	376
296.10	7995	323.10	3006	352.05	888	383.05	591
297.05	1180	324.05	590	353.05	679	390.10	162

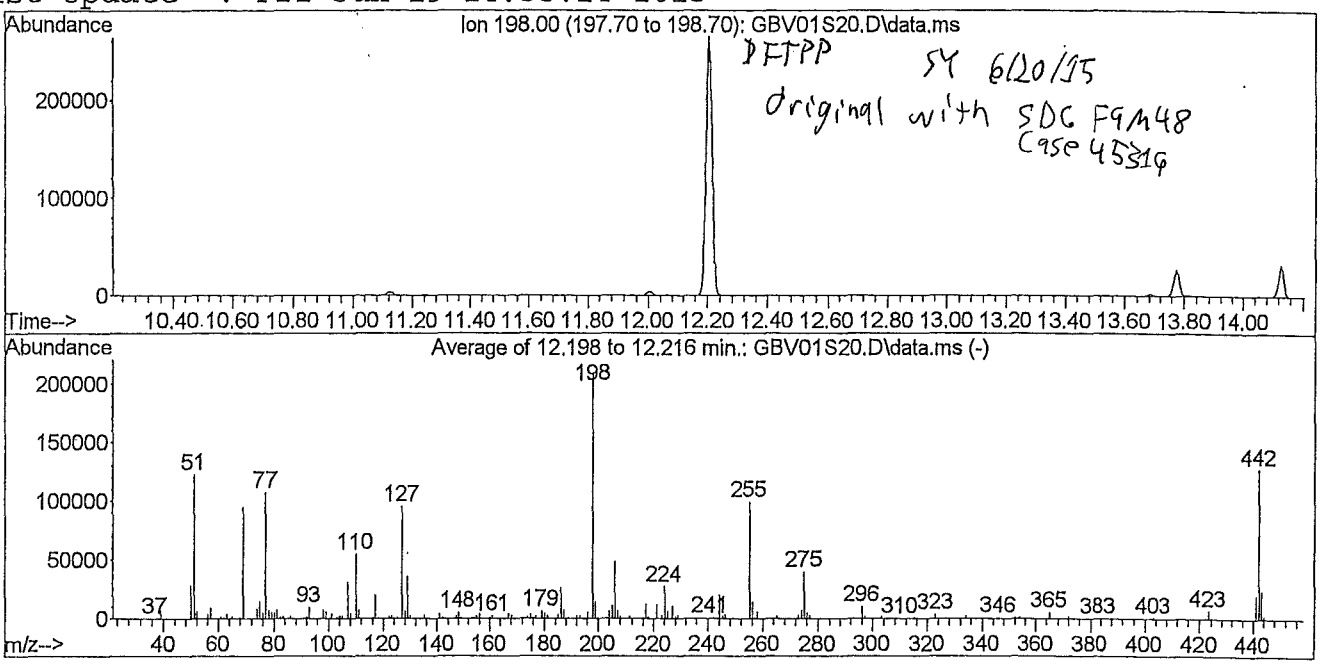
Average of 12.263 to 12.274 min.: GBG01S20.D\data.ms
SSTD020GG 28237 DFTPPGG
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
390.90	147	436.70	52	445.00	78		
392.00	66	437.70	80				
401.00	51	438.00	71				
402.05	673	438.30	80				
403.05	956	438.60	117				
404.05	410	439.00	383				
421.05	887	440.00	186				
422.10	901	441.10	17452				
423.10	6474	442.10	118496				
424.05	1270	443.10	22520				
425.10	57	444.10	2237				

Data Path : C:\msdchem\1\data\2015\JUN15\20JUN15\
Data File : GBV01S20.D
Acq On : 06/20/2015 10:04
Operator : DJC
Sample : SSTD020GT DFTPPGT
Inst : 5975-G
Misc : . X07/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\GSOM01D6.M
Title : EPA/CLP SOM01
Last Update : Fri Jun 19 14:55:14 2015



Average of scans 1720, 1721, 1722 Background corrected with scan 1713

Spectrum Information: Average of 12.198 to 12.216 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	58.4	122479	PASS
68	69	0.00	2	1.4	1289	PASS
69	198	0.00	100	45.3	94995	PASS
70	69	0.00	2	0.4	347	PASS
127	198	10	80	45.5	95459	PASS
197	198	0.00	2	0.5	1028	PASS
198	198	100	100	100.0	209680	PASS
199	198	5	9	6.9	14453	PASS
275	198	10	60	19.0	39760	PASS
365	198	1	100	2.4	5047	PASS
441	443	0.01	100	83.5	19783	PASS
442	198	50	100	60.7	127242	PASS
443	442	15	24	18.6	23684	PASS

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	48	53.05	286	65.00	2025	77.05	107389
36.95	234	54.90	435	66.05	202	78.10	7197
38.00	808	56.00	3303	67.00	59	79.00	5878
39.00	7424	57.00	8693	68.00	1289	80.00	4851
39.95	227	58.00	420	69.00	94995	81.00	7426
41.00	312	59.00	119	70.05	347	82.05	1707
45.00	164	60.10	41	71.10	61	83.15	2066
49.05	776	61.00	1404	73.05	682	85.00	1428
50.00	28409	62.00	1360	74.00	8419	85.95	1577
51.00	122479	63.00	4047	75.00	14491	86.95	661
52.00	6047	63.90	457	76.00	4815	88.00	566

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
88.95	153	100.05	572	109.95	54862	122.05	1496
89.90	56	101.00	4023	110.95	7425	123.05	2352
91.00	1543	102.05	206	112.00	924	123.95	1193
92.05	1527	103.05	1153	113.05	320	125.10	1199
93.00	9816	104.00	2093	114.00	80	125.70	42
94.05	625	105.00	2050	115.00	23	126.10	601
95.00	280	106.05	771	116.00	1538	127.00	95459
96.10	507	107.00	30980	117.00	19717	128.05	6969
97.00	166	108.00	4749	118.05	1499	129.00	35978
98.00	7395	109.00	629	118.95	136	130.00	2936
99.00	5871	109.20	233	120.05	406	130.80	118

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
131.05	729	140.95	4291	151.50	162	161.95	586
132.00	470	142.05	1388	152.05	201	163.00	184
133.05	100	142.95	935	153.00	1332	164.20	78
134.00	1027	144.05	230	154.05	1001	165.00	1573
135.00	2719	144.95	246	155.05	2319	167.10	4023
136.00	1240	146.05	747	156.05	3776	168.05	2944
136.95	681	147.05	2125	157.00	728	169.05	728
137.20	416	148.00	5018	157.95	625	169.95	252
138.00	41	148.95	935	159.00	615	170.60	56
138.20	127	150.00	398	159.95	1372	170.90	63
140.05	258	151.10	593	161.05	2364	171.05	328

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
171.95	790	181.05	2187	191.00	635	201.60	611
173.00	1084	182.05	392	192.00	2216	202.00	41
174.00	1961	183.05	233	193.05	2415	203.05	1328
175.05	3478	184.00	417	194.00	707	204.10	7054
176.00	1255	184.20	157	195.05	612	205.10	10902
177.00	1626	185.00	3332	196.05	5932	206.10	48658
177.70	122	186.10	26216	196.95	1028	207.10	6594
178.00	463	187.05	7136	198.00	209680	208.05	1917
178.20	82	188.00	786	199.00	14453	209.00	571
179.00	6203	189.00	1282	200.00	1162	210.15	418
180.05	4703	190.05	173	201.35	555	211.10	1907

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
212.00	200	222.00	765	232.20	135	243.05	1388
213.00	193	223.05	2928	232.90	135	244.10	20149
215.00	428	224.10	27360	233.95	597	245.10	2608
216.05	1006	225.05	6886	234.90	658	246.05	3494
217.00	12284	226.00	712	236.00	700	246.95	732
218.00	1720	227.00	10737	237.05	761	248.05	142
218.90	47	228.00	1696	238.95	428	249.00	789
219.20	93	229.00	2440	239.90	245	249.80	144
220.05	155	229.95	261	240.10	156	250.10	38
221.05	11517	231.00	986	240.95	572	251.00	206
221.70	701	231.90	82	242.05	1492	251.60	48

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
252.00	317	264.05	197	275.10	39760	289.80	91
253.00	630	265.05	2079	276.05	4922	292.00	39
254.00	683	265.95	334	277.00	3151	292.20	54
255.05	99234	268.85	84	278.00	436	293.00	787
256.05	14608	269.75	93	278.90	85	293.95	240
257.05	987	271.00	55	282.00	42	294.90	97
258.00	5424	271.20	52	283.00	362	295.10	50
258.95	754	271.80	69	283.90	125	296.00	10333
259.90	81	272.15	245	285.00	742	297.00	1668
260.80	50	273.00	2948	286.05	93	297.90	101
261.00	53	274.05	7091	288.90	128	301.05	167

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
301.95	235	323.05	3552	346.90	50	372.05	2035
303.05	1378	324.05	615	351.20	42	373.05	403
304.00	274	326.95	651	352.05	1098	382.95	491
307.95	115	327.95	384	353.10	891	383.95	154
309.85	140	332.05	179	354.00	1269	389.95	275
314.00	582	332.90	123	355.05	178	391.05	243
315.00	1328	333.05	191	359.05	88	402.00	751
315.80	98	334.05	2148	365.05	5047	403.05	1062
316.10	573	335.05	519	366.00	592	403.80	48
321.00	414	341.05	346	369.80	58	403.90	79
322.10	163	346.00	623	371.10	246	404.05	165

Average of 12.198 to 12.216 min.: GBV01S20.D\data.ms
SSTD020GT DFTPPGT
Modified:subtracted

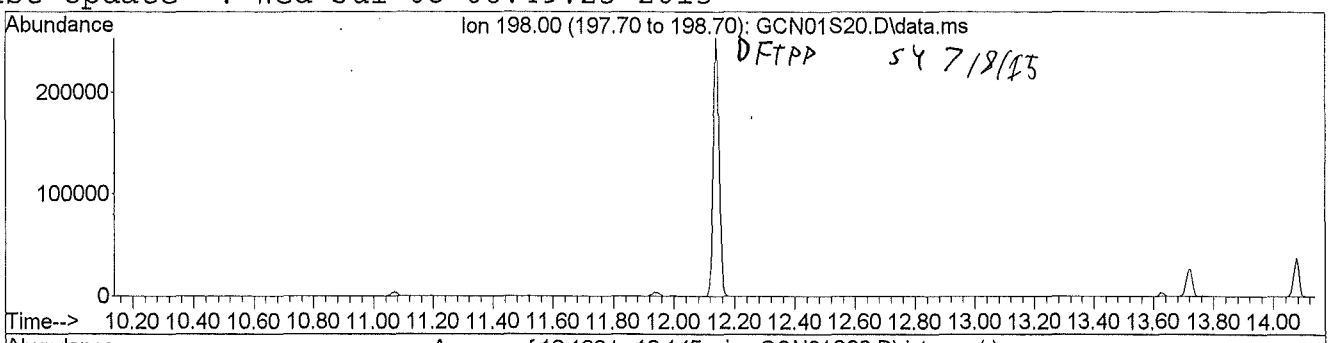
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
420.90	955	434.80	135	444.90	90		
422.00	1008	435.40	48				
423.05	7009	435.65	141				
424.00	1280	436.00	60				
425.05	147	436.90	118				
430.00	43	438.10	66				
432.30	59	438.60	45				
432.60	94	441.05	19783				
433.60	80	442.10	127242				
434.00	40	443.10	23684				
434.20	48	444.05	2251				

DFTPP

Data Path : C:\msdchem\1\data\2015\JUL15\07JUL15\
Data File : GCN01S20.D
Acq On : 07/07/2015 14:43
Operator : TJM
Sample : SSTD020GN 28543 DFTPPGN
Inst : 5975-G
Misc : . X07/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\GSOM01D6.M
Title : EPA/CLP SOM01
Last Update : Wed Jul 08 06:49:23 2015



Average of scans 1708, 1709, 1710

Background subtracted with scan 1701

Spectrum Information: Average of 12.133 to 12.145 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	67.5	150298	PASS
68	69	0.00	2	1.1	1164	PASS
69	198	0.00	100	48.5	107971	PASS
70	69	0.00	2	0.4	405	PASS
127	198	10	80	47.0	104624	PASS
197	198	0.00	2	0.6	1378	PASS
198	198	100	100	100.0	222635	PASS
199	198	5	9	6.8	15060	PASS
275	198	10	60	18.7	41701	PASS
365	198	1	100	2.3	5124	PASS
441	443	0.01	100	81.5	19359	PASS
442	198	50	100	54.1	120389	PASS
443	442	15	24	19.7	23741	PASS

Average of 12.133 to 12.145 min.: GCN01S20.D\data.ms
SSTD020GN 28543 DFTPPGN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	143	51.00	150298	61.90	1827	73.00	368
36.95	522	51.95	8161	62.95	4551	74.00	10004
38.00	1302	52.95	690	64.00	835	75.00	15841
39.00	9997	53.90	84	65.00	2470	76.05	5399
39.90	476	55.00	281	66.05	299	77.10	121360
41.90	68	56.00	4363	67.00	147	78.00	7505
43.00	99	57.00	10336	68.05	1164	78.95	6580
43.95	3	57.95	522	69.00	107971	80.00	5761
44.90	202	59.20	75	70.00	405	81.00	8473
48.95	904	60.00	243	70.95	246	82.05	2165
49.95	37291	61.00	1511	72.00	59	83.00	2588

Average of 12.133 to 12.145 min.: GCN01S20.D\data.ms
SSTD020GN 28543 DFTPPGN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
84.00	388	93.95	829	105.00	2609	114.80	101
85.00	1552	95.05	148	106.05	824	116.00	2010
86.00	2327	96.00	508	107.00	37315	117.00	25675
87.00	800	97.05	267	108.00	5509	118.00	1984
87.80	110	98.00	9454	109.00	759	118.95	236
88.00	199	99.00	6867	109.95	59660	120.05	371
88.90	99	100.00	689	111.00	9002	120.70	61
89.10	299	101.00	4604	112.05	1114	121.95	1918
90.95	2079	101.95	389	113.05	46	123.00	2995
91.95	2010	103.00	1121	113.90	88	124.00	1260
93.00	12096	104.00	2656	114.10	63	125.00	1426

Average of 12.133 to 12.145 min.: GCN01S20.D\data.ms
SSTD020GN 28543 DFTPPGN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
126.05	734	137.05	1694	147.05	2469	157.10	277
127.05	104624	137.95	143	148.00	6346	158.00	705
128.00	7877	138.20	161	149.05	1375	158.95	643
129.00	41128	139.95	100	150.00	497	160.05	1525
130.00	3130	141.00	5094	151.05	1120	161.05	2552
130.95	682	142.05	1721	152.05	555	161.95	817
132.10	336	143.05	1300	153.05	1653	163.05	360
132.95	261	144.05	342	154.05	1499	164.05	278
134.00	1267	144.95	496	155.00	3136	164.95	1622
135.05	3464	145.80	190	156.05	4606	166.05	1085
135.95	1369	146.05	717	156.90	720	167.10	9223

Average of 12.133 to 12.145 min.: GCN01S20.D\data.ms
SSTD020GN 28543 DFTPPGN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
168.05	4139	178.00	544	186.10	29936	196.05	6039
169.05	1106	179.00	7425	187.05	7924	196.95	1378
169.95	311	180.05	5588	188.05	905	198.00	222635
170.40	184	180.90	641	189.00	1738	199.00	15060
171.05	515	181.05	2021	190.00	279	200.05	1451
172.00	769	181.90	123	191.00	958	200.70	116
172.95	1385	182.05	371	192.05	2273	201.40	334
174.05	2299	182.80	71	193.00	2621	201.60	727
175.05	4587	183.15	274	194.00	181	202.10	196
176.00	950	184.00	802	194.15	420	203.00	1403
177.00	1801	185.00	3946	195.00	638	204.05	7608

Average of 12.133 to 12.145 min.: GCN01S20.D\data.ms
SSTD020GN 28543 DFTPPGN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
205.10	12525	215.95	1224	226.05	949	235.00	857
206.10	52712	217.00	14366	227.00	12565	236.00	589
207.00	6882	218.00	1885	227.95	1873	237.00	914
208.00	1554	218.90	321	229.05	2517	238.95	500
209.05	458	219.50	77	229.90	258	240.00	412
209.90	235	220.05	379	231.00	1065	241.00	702
210.25	740	221.05	10162	231.80	85	242.05	1763
211.10	2037	221.95	1466	232.00	213	243.10	1548
212.00	242	223.00	3306	232.90	111	244.05	20667
213.00	157	224.10	31352	233.10	259	245.05	2412
215.05	601	225.10	7952	234.05	805	246.00	3773

Average of 12.133 to 12.145 min.: GCN01S20.D\data.ms
SSTD020GN 28543 DFTPPGN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
247.05	855	257.00	1218	269.85	214	282.05	113
248.15	363	258.05	6131	271.05	284	283.10	473
249.00	847	259.00	1032	272.05	341	283.95	191
249.70	67	260.00	112	273.00	3086	285.10	632
249.90	223	261.00	141	274.05	7695	288.90	92
251.00	309	263.95	262	275.05	41701	289.05	217
251.95	428	265.05	2619	276.05	5733	290.10	59
252.95	678	265.80	155	277.00	3459	292.00	69
254.00	791	266.05	387	277.95	625	293.00	883
255.00	108933	266.85	168	279.00	56	294.10	185
256.00	16352	268.70	51	280.95	147	294.95	201

Average of 12.133 to 12.145 min.: GCN01S20.D\data.ms
SSTD020GN 28543 DFTPPGN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
296.00	12090	313.00	189	327.90	249	352.05	1163
297.05	1744	314.05	608	328.10	154	353.00	871
298.10	51	315.00	1331	328.90	66	354.10	1308
301.00	168	316.00	545	332.05	195	355.05	224
302.00	240	317.05	106	332.95	512	358.80	87
303.00	1579	321.05	448	334.05	2395	365.00	5124
304.05	423	322.00	193	335.05	491	366.00	700
308.00	143	323.05	4139	340.80	174	370.10	50
309.05	132	324.05	673	341.10	268	371.05	341
309.80	59	326.00	52	346.00	716	372.05	2078
310.10	52	327.00	647	346.90	75	373.05	496

Average of 12.133 to 12.145 min.: GCN01S20.D\data.ms
SSTD020GN 28543 DFTPPGN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
377.10	55	422.05	1008	434.00	228	444.10	2374
383.00	543	423.05	6746	434.65	220	461.10	60
383.90	88	423.90	342	435.80	93		
390.05	285	424.10	1075	436.20	80		
390.95	226	425.00	55	436.80	160		
400.95	155	428.60	66	437.30	156		
401.90	747	430.50	60	437.60	66		
403.10	1069	431.20	67	438.10	84		
403.90	115	432.10	68	441.05	19359		
404.05	301	432.90	68	442.05	120389		
420.95	973	433.30	67	443.05	23741		

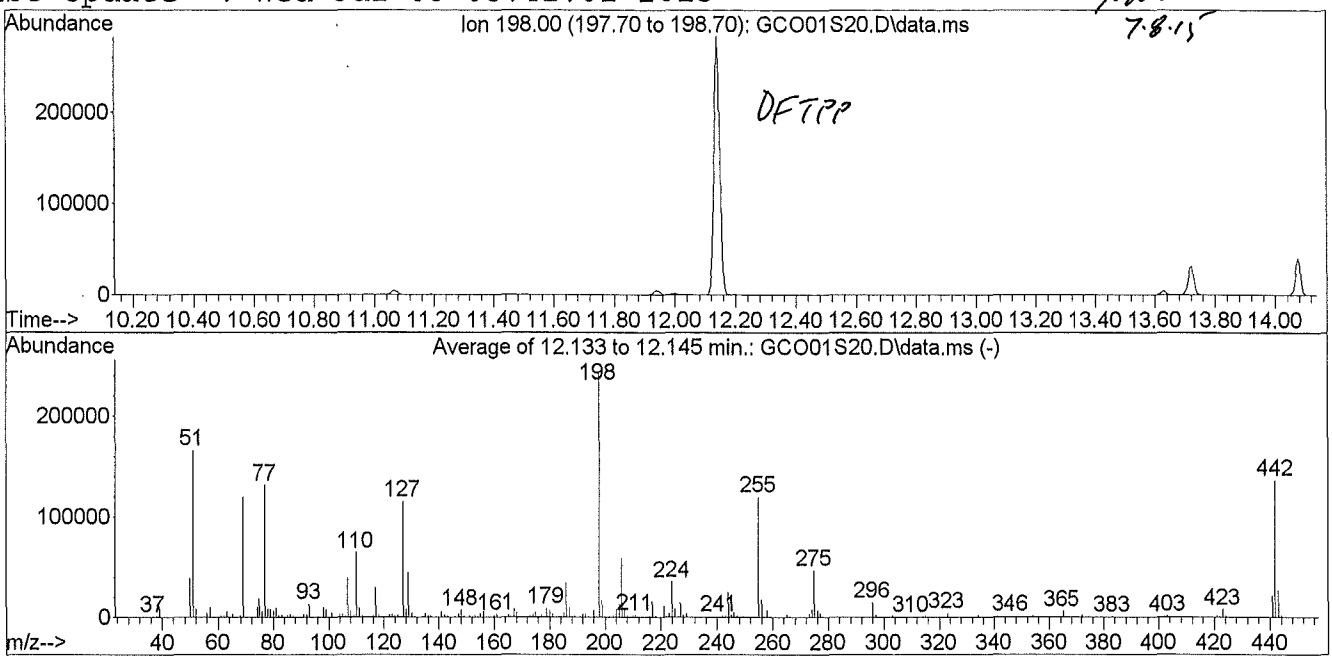
DFTPP

Data Path : C:\msdchem\1\data\2015\JUL15\08JUL15\
Data File : GCO01S20.D
Acq On : 07/08/2015 08:11
Operator : TJM
Sample : SSTD020GO 28543 DFTPPGO
Inst : 5975-G
Misc : . X07/19/15
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\GSOM01D6.M
Title : EPA/CLP SOM01
Last Update : Wed Jul 08 08:42:01 2015

7-8-15



Avg. of Scans: 1708, 1709, and 1710; BACKGROUND SUBTRACTED SCAN 1696

Spectrum Information: Average of 12.133 to 12.145 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	67.8	165853	PASS
68	69	0.00	2	1.4	1619	PASS
69	198	0.00	100	48.8	119364	PASS
70	69	0.00	2	0.4	465	PASS
127	198	10	80	47.1	115184	PASS
197	198	0.00	2	0.2	507	PASS
198	198	100	100	100.0	244587	PASS
199	198	5	9	6.8	16651	PASS
275	198	10	60	19.0	46357	PASS
365	198	1	100	2.3	5665	PASS
441	443	0.01	100	82.1	21481	PASS
442	198	50	100	55.8	136600	PASS
443	442	15	24	19.1	26152	PASS

: 00976

Average of 12.133 to 12.145 min.: GCO01S20.D\data.ms
SSTD020GO 28543 DFTPPGO
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.95	545	50.00	39067	61.95	1775	73.00	792
38.05	1762	51.00	165853	63.00	5469	74.00	10655
39.00	10254	52.00	8625	64.05	841	74.95	18326
40.05	398	52.90	141	65.00	2779	76.00	6038
41.00	370	54.95	518	65.90	49	77.05	131387
41.90	85	55.95	4294	67.00	75	78.10	8432
43.05	141	57.00	10029	67.95	1619	79.00	7939
44.95	256	57.90	307	69.00	119364	80.00	6575
47.90	76	58.90	274	70.00	465	81.00	9028
48.90	397	59.95	86	71.05	144	82.00	2287
49.05	776	60.90	1664	72.10	57	83.05	2194

Average of 12.133 to 12.145 min.: GCO01S20.D\data.ms
SSTD020GO 28543 DFTPPGO
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
85.05	2015	95.95	415	106.05	1115	118.05	2075
86.00	2475	96.95	384	107.00	38822	119.00	333
86.95	1110	97.95	9838	108.00	5869	120.05	543
87.90	138	99.00	7611	109.00	1250	121.05	236
88.10	111	100.05	792	110.00	63968	122.00	2133
90.10	66	101.00	4793	111.00	9121	123.00	3150
91.00	2755	101.85	128	112.05	1263	123.95	1348
92.00	2708	102.10	161	113.05	511	125.05	1874
93.00	13063	103.00	1196	114.15	211	126.10	548
94.05	967	104.05	2785	115.95	1612	127.00	115184
95.00	277	105.00	2628	117.00	29195	128.05	8677

Average of 12.133 to 12.145 min.: GCO01S20.D\data.ms
SSTD020GO 28543 DFTPPGO
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.00	44653	137.70	168	148.00	6977	158.95	730
130.00	3725	138.00	400	149.00	1424	160.00	1784
131.05	740	140.00	225	150.00	399	161.00	2530
131.90	157	140.95	5185	151.05	1361	162.05	654
132.05	446	142.05	1881	151.95	433	162.90	214
132.90	136	142.95	1187	153.00	1586	165.00	1824
133.90	437	143.95	358	154.05	1265	165.95	661
134.05	919	145.00	193	155.00	3246	167.10	7672
135.00	3504	145.20	79	156.05	4946	168.05	4475
136.00	1671	146.00	1041	157.10	1099	169.05	1027
137.05	1641	147.05	3491	157.95	948	170.00	494

Average of 12.133 to 12.145 min.: GCO01S20.D\data.ms
SSTD020GO 28543 DFTPPGO
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
170.95	454	182.05	446	192.05	2591	199.95	1209
171.95	1033	182.95	282	193.05	2894	200.80	127
173.00	1528	184.05	653	194.00	780	201.20	244
174.05	2680	185.00	4405	194.60	118	201.55	725
175.05	4563	186.05	34229	195.00	272	202.10	199
176.05	1054	187.10	9385	195.15	571	202.95	1744
177.05	1888	188.10	991	196.05	6483	204.05	8346
177.95	679	188.95	1681	196.70	507	205.05	13399
179.00	8425	189.90	227	196.90	493	206.10	58635
180.05	6164	190.10	90	198.00	244587	207.10	7508
181.00	3336	191.05	834	199.00	16651	208.00	1893

: 00977

Average of 12.133 to 12.145 min.: GCO01S20.D\data.ms
SSTD020GO 28543 DFTPPGO
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
208.95	590	217.00	15665	227.00	14133	238.00	154
209.95	1076	218.00	1732	228.00	1902	238.95	585
211.00	2501	218.95	302	229.00	3368	240.00	344
212.05	274	219.80	318	229.95	337	240.90	811
212.30	89	220.20	400	231.05	1153	242.05	1543
212.80	171	221.05	11211	232.05	263	243.05	1684
213.05	137	222.05	1239	233.00	169	244.10	24693
214.10	70	223.00	3348	234.00	663	245.05	2883
214.80	168	224.10	35288	235.00	951	246.00	4703
215.00	572	225.05	8488	236.00	629	247.00	1445
216.05	1319	226.05	738	237.05	925	247.80	125

Average of 12.133 to 12.145 min.: GCO01S20.D\data.ms
SSTD020GO 28543 DFTPPGO
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
248.00	226	257.05	1147	270.95	339	285.70	76
249.05	862	258.00	6984	272.00	400	286.05	162
250.05	148	259.05	1014	273.05	3425	288.90	55
250.70	102	260.00	89	274.00	8042	290.00	74
251.00	361	261.10	137	275.05	46357	290.90	59
252.05	291	263.10	68	276.05	6346	292.00	392
252.50	95	263.80	120	277.00	4175	292.90	920
253.00	675	265.00	2614	278.05	669	293.95	344
253.95	772	265.95	521	283.00	347	294.95	290
255.00	119848	268.80	65	284.05	364	296.00	14536
256.05	17125	270.10	171	285.05	867	297.00	1790

Average of 12.133 to 12.145 min.: GCO01S20.D\data.ms
SSTD020GO 28543 DFTPPGO
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
297.70	81	316.00	918	333.00	470	354.90	115
300.80	84	321.00	581	334.05	2455	355.10	252
301.80	74	321.90	70	335.05	605	360.85	107
302.00	119	322.10	286	336.00	93	365.00	5665
303.05	1621	323.05	4081	341.00	531	365.95	730
303.95	442	324.05	1003	342.10	58	369.80	63
307.90	77	326.00	70	345.95	918	371.00	284
309.75	131	326.85	625	352.00	1265	372.05	2125
313.05	199	327.10	193	352.90	256	372.95	606
314.05	592	328.00	312	353.05	791	374.00	68
314.95	1364	331.95	403	354.05	1360	382.80	176

Average of 12.133 to 12.145 min.: GCO01S20.D\data.ms
SSTD020GO 28543 DFTPPGO
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
383.00	476	423.05	7607	436.00	122		
384.05	158	424.05	1602	436.40	71		
390.00	288	424.95	133	437.90	90		
391.00	62	430.90	55	441.05	21481		
391.90	80	432.80	182	442.00	136600		
401.00	59	433.60	107	443.05	26152		
402.00	890	434.10	192	444.05	2109		
403.05	1247	434.50	64				
404.00	320	434.70	51				
420.95	1186	435.30	187				
421.95	1008	435.50	66				

: 00978

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: SBLK65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 449965

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBG02BLK

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/09/2015

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.: SBLK65

Lab Name: ALS Environmental Contract: EPW11037
Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98
Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 449965
Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBG02BLK
Level: (LOW/MED) LOW Extraction: (Type) SONC
% Moisture: Decanted: (Y/N) Date Received:
Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015
Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/09/2015
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.

SBLK65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 449965

Sample wt/vol: 30.0 (g/mL) g Lab File ID: GBG02BLK

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/09/2015

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	78-95-5	2-Propanone, 1-chloro-	2.35	75.	JN
02		Unknown Furan, 2,5-dimethyl-	2.49	74.	J
03		Unknown 4-Chloro-2-butanone	3.39	76.	J
04		Unknown 2-Pentanone, 4-hydroxy-4-methyl-	3.57	1900	J
05		Unknown 2(5H)-Furanone, 5,5-dimethyl-	4.35	290	J
06	629-54-9	Hexadecanamide	12.89	86.	JN
07	638-58-4	Tetradecanamide	14.26	270	JN
08	301-02-0	9-Octadecenamide, (Z)-	15.18	2100	JN
09	629-54-9	Hexadecanamide	15.27	100	JN
10		Unknown 9-Octadecenamide, (Z)-	15.97	88.	J
11		Unknown 9-Octadecenamide, (Z)-	16.04	96.	J
12		Unknown 3-Pentenoic acid, methyl ester	16.32	190	J
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	390	J

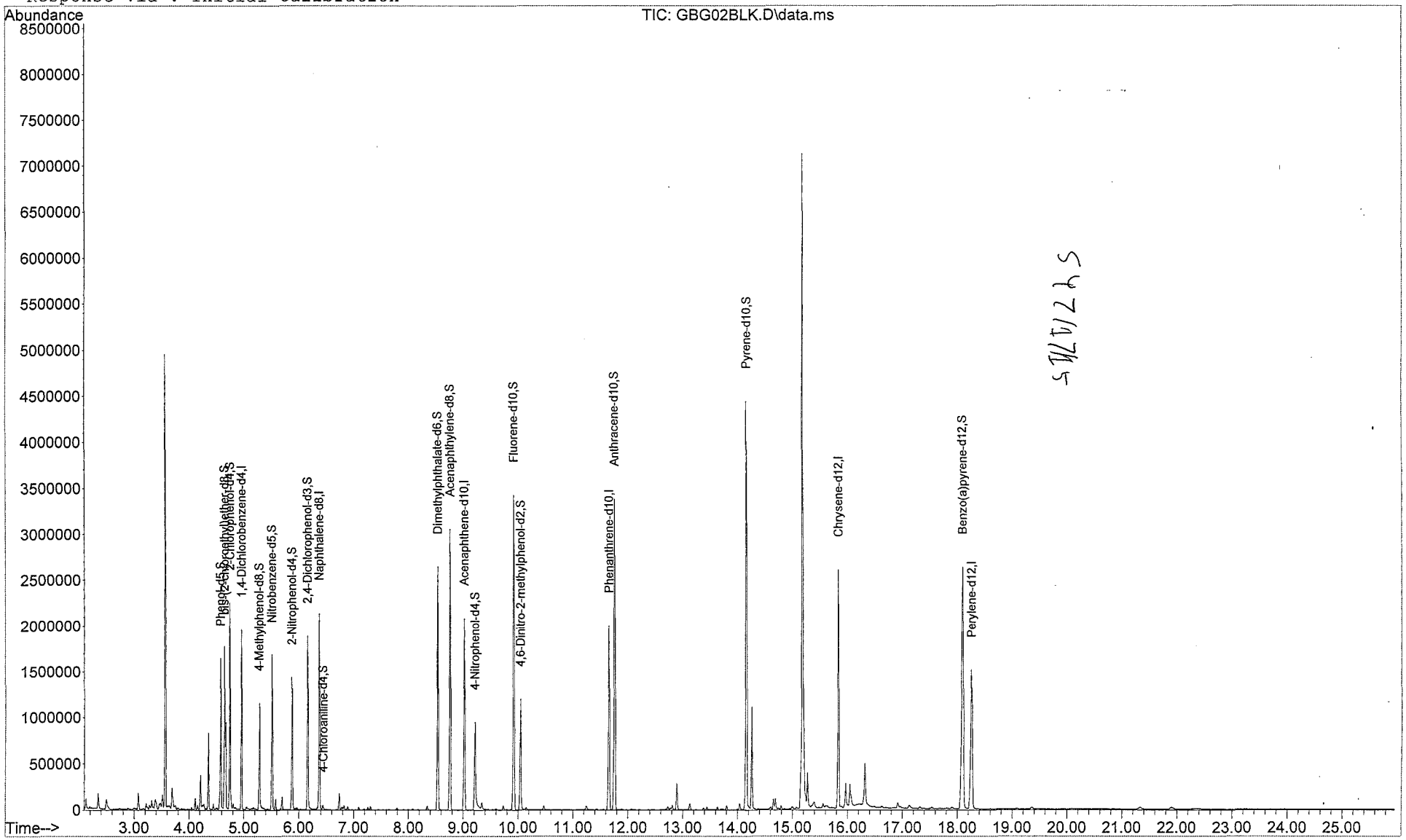
[2] EPA-designated Registry Number.

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 15 07:39:23 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



S 7/14/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 15 07:39:23 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	337273	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1274619	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	721445	20.00 ug/ml
59) Phenanthrene-d10	11.66	188	1191573	20.00 ug/ml
73) Chrysene-d12	15.83	240	1154951	20.00 ug/ml
81) Perylene-d12	18.26	264	1120640	20.00 ug/ml
System Monitoring Compounds				
2) Phenol-d5	4.57	99	656747	27.924ug/ml
6) bis-(2-chloroethyl)ether-d	4.65	67	396262	27.516ug/mL
7) 2-Chlorophenol-d4	4.75	132	703217	30.453ug/ml
13) 4-Methylphenol-d8	5.28	113	315802	17.246ug/mL
17) Nitrobenzene-d5	5.52	128	341852	31.966ug/ml
21) 2-Nitrophenol-d4	5.87	143	389929	32.718ug/mL
25) 2,4-Dichlorophenol-d3	6.16	165	521029	29.843ug/mL
28) 4-Chloroaniline-d4	6.44	131	24672	1.303ug/mL
42) Dimethylphthalate-d6	8.54	166	1667597	38.008ug/mL
45) Acenaphthylene-d8	8.76	160	2007791	34.289ug/mL
50) 4-Nitrophenol-d4	9.22	143	356986	38.208ug/mL
57) Fluorene-d10	9.92	176	1397312	36.666ug/mL
61) 4,6-Dinitro-2-methylphenol	10.05	200	303196	38.737ug/mL
69) Anthracene-d10	11.76	188	2265840	37.591ug/mL
75) Pyrene-d10	14.16	212	2116706	40.313ug/mL
86) Benzo(a)pyrene-d12	18.10	264	2054293	40.413ug/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 : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 15 07:39:23 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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)

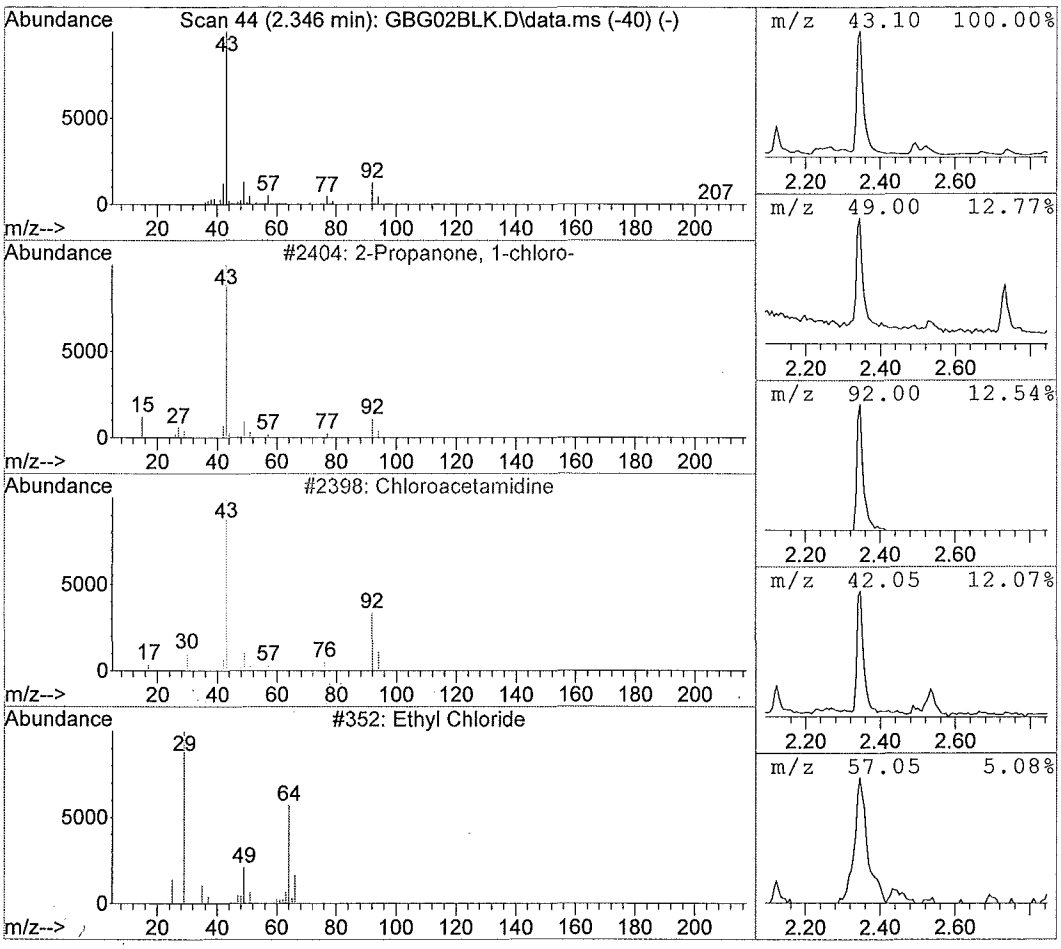
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.35	2.26 ug/ml	212379	1,4-Dichlorobenzene-d4	1878944

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, 1-chloro-	2404	000078-95-5	90.00
2	Chloroacetamidine	2398	020846-52-0	72.00
3	Ethyl Chloride	352	000075-00-3	9.00
4	2-Propanone, 1,1-dichloro-	10955	000513-88-2	9.00
5	Acetic acid, chloro-, ethyl ester	9748	000105-39-5	9.00



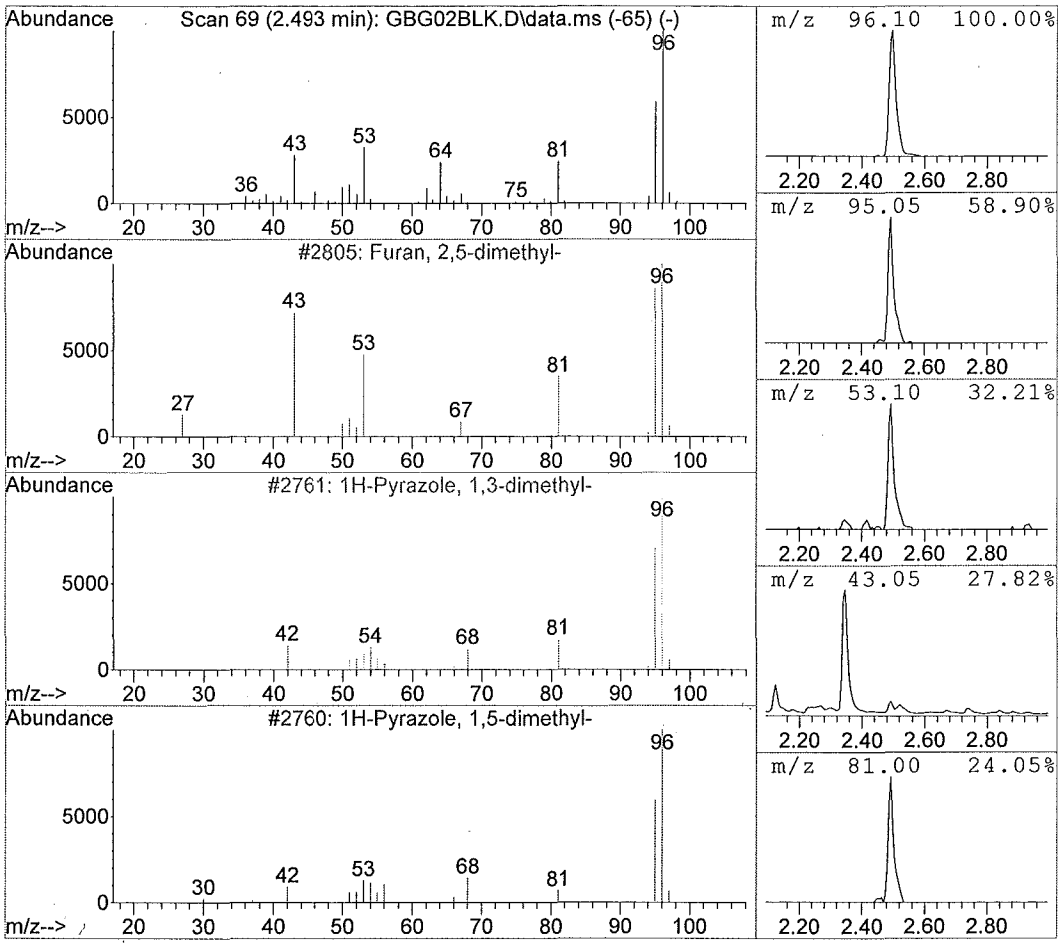
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
2.49	2.22 ug/ml	208733	1,4-Dichlorobenzene-d4	1878944

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, 2,5-dimethyl-	2805	000625-86-5	81.00
2	1H-Pyrazole, 1,3-dimethyl-	2761	000694-48-4	58.00
3	1H-Pyrazole, 1,5-dimethyl-	2760	000694-31-5	53.00
4	1-Silacyclohexa-2,5-diene	2782	081200-77-3	50.00
5	3,5-Dimethylpyrazole	2747	000067-51-6	40.00



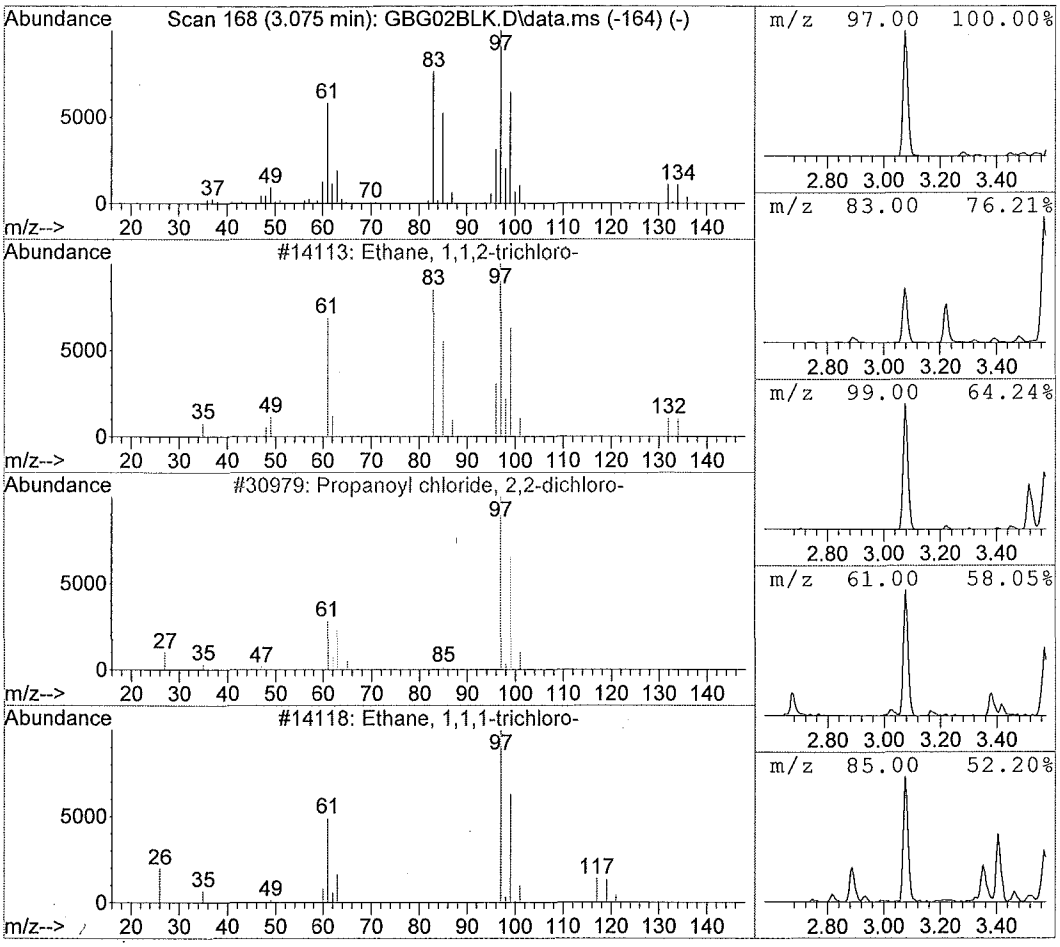
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.07	2.11 ug/ml	198612	1,4-Dichlorobenzene-d4	1878944

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2-trichloro- VOA	14113	000079-00-5	98.00
2	Propanoyl chloride, 2,2-dichloro-	30979	026073-26-7	43.00
3	Ethane, 1,1,1-trichloro-	14118	000071-55-6	38.00
4	Ethane, 1,1-dichloro-1-nitro-	20115	000594-72-9	38.00
5	Propane, 1,2,2-trichloro-	21708	003175-23-3	16.00



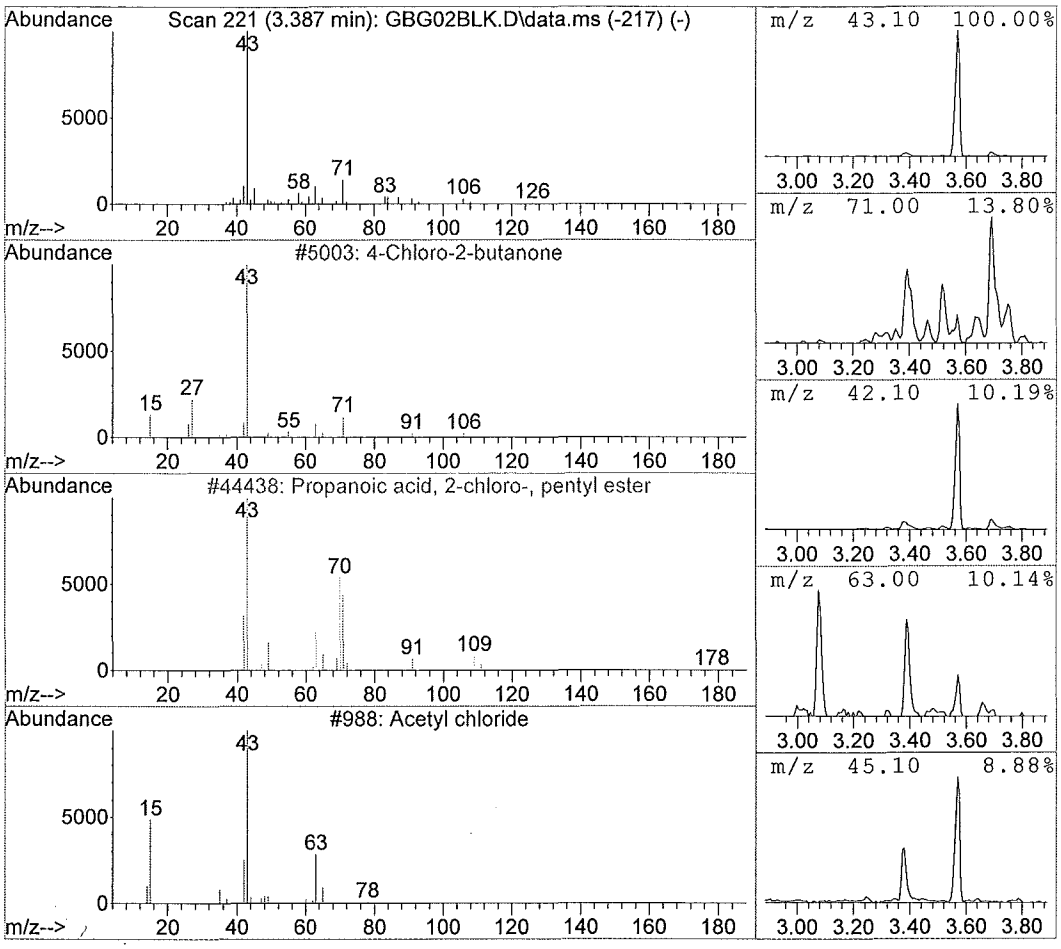
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.39	2.29 ug/ml	214731	1,4-Dichlorobenzene-d4	1878944

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	4-Chloro-2-butanone	5003	006322-49-2	64.00
2	Propanoic acid, 2-chloro-, pentyl e	44438	086711-71-9	23.00
3	Acetyl chloride	988	000075-36-5	10.00
4	2-Propanone, 1,1-dichloro-	10955	000513-88-2	10.00
5	Propanoic acid, 2-chloro-	5219	000598-78-7	9.00



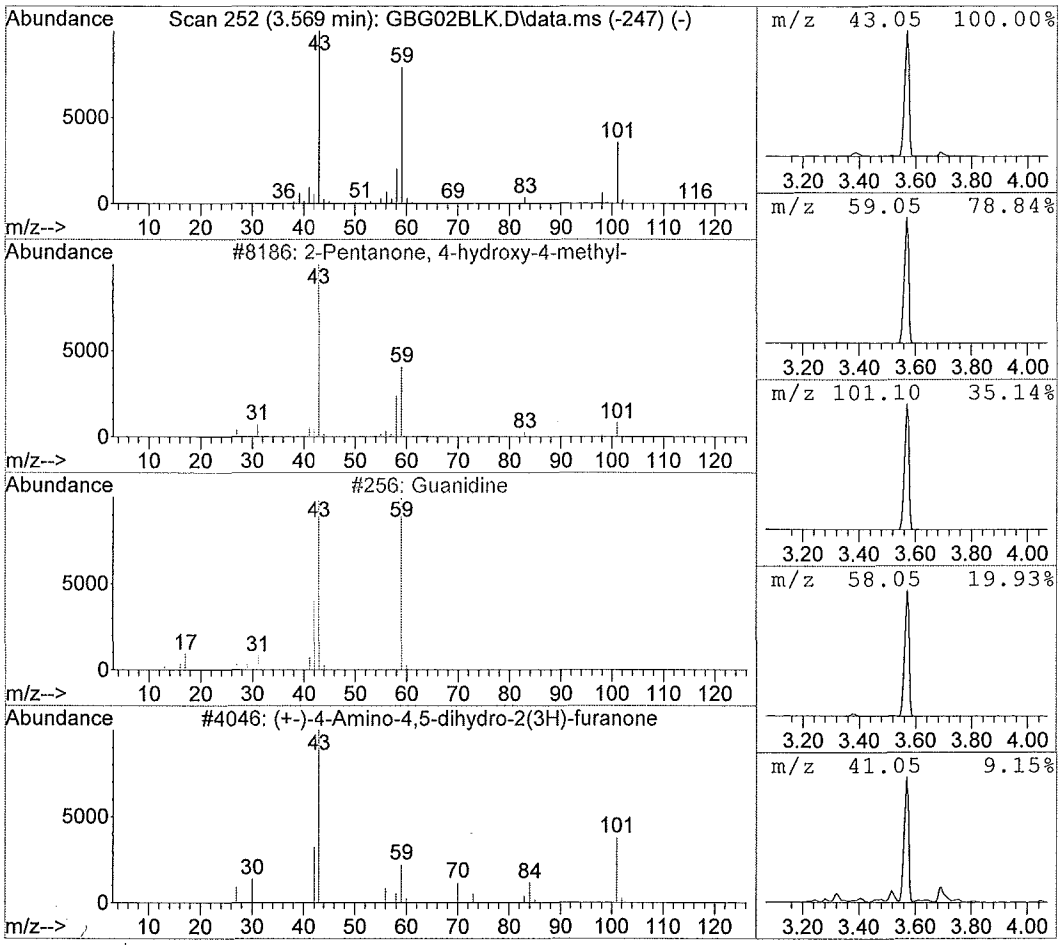
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.57	55.98 ug/ml	5259410	1,4-Dichlorobenzene-d4	1878944

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	5-Hexen-2-one	3152	000109-49-9	9.00



Library Search Compound Report

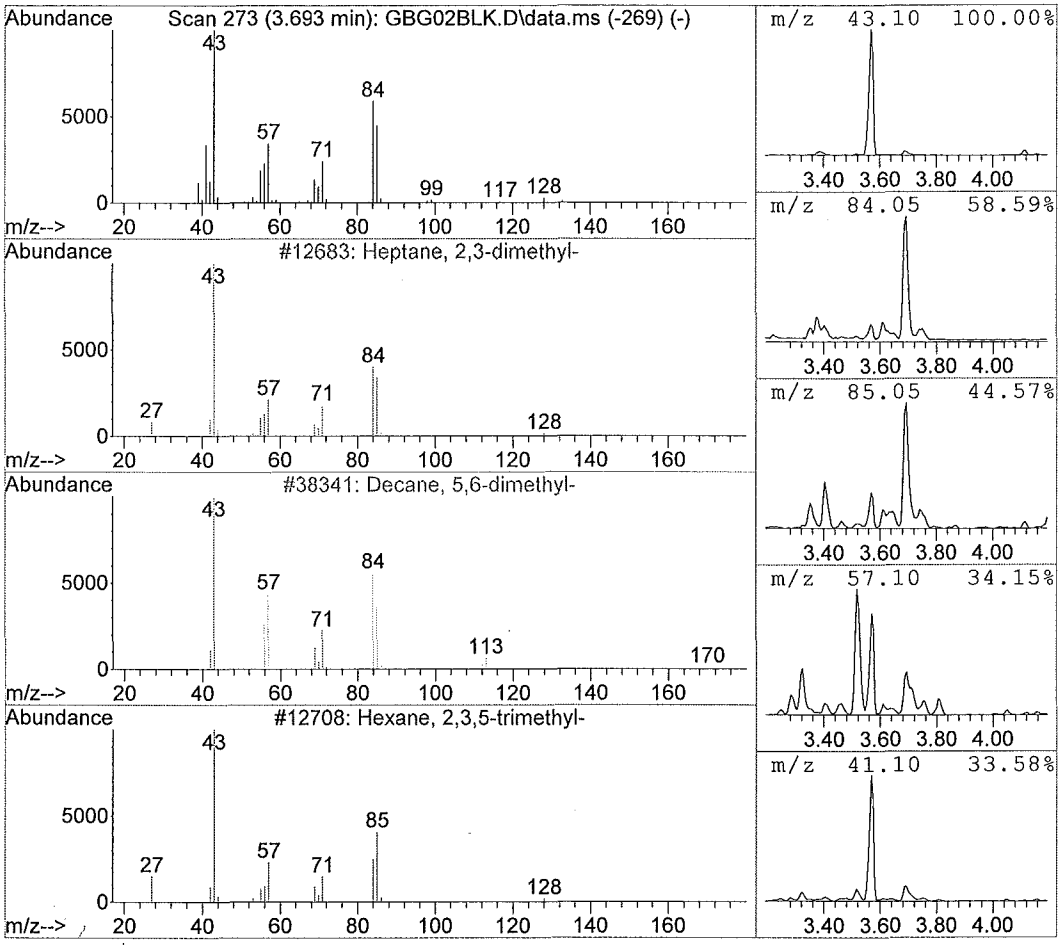
Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.69	3.58 ug/ml	336419	1,4-Dichlorobenzene-d4	1878944

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	64.00
3	Hexane, 2,3,5-trimethyl-	12708	001069-53-0	58.00
4	Hexane, 3-ethyl-2-methyl-	12726	016789-46-1	56.00
5	Nonane	12662	000111-84-2	50.00

BA



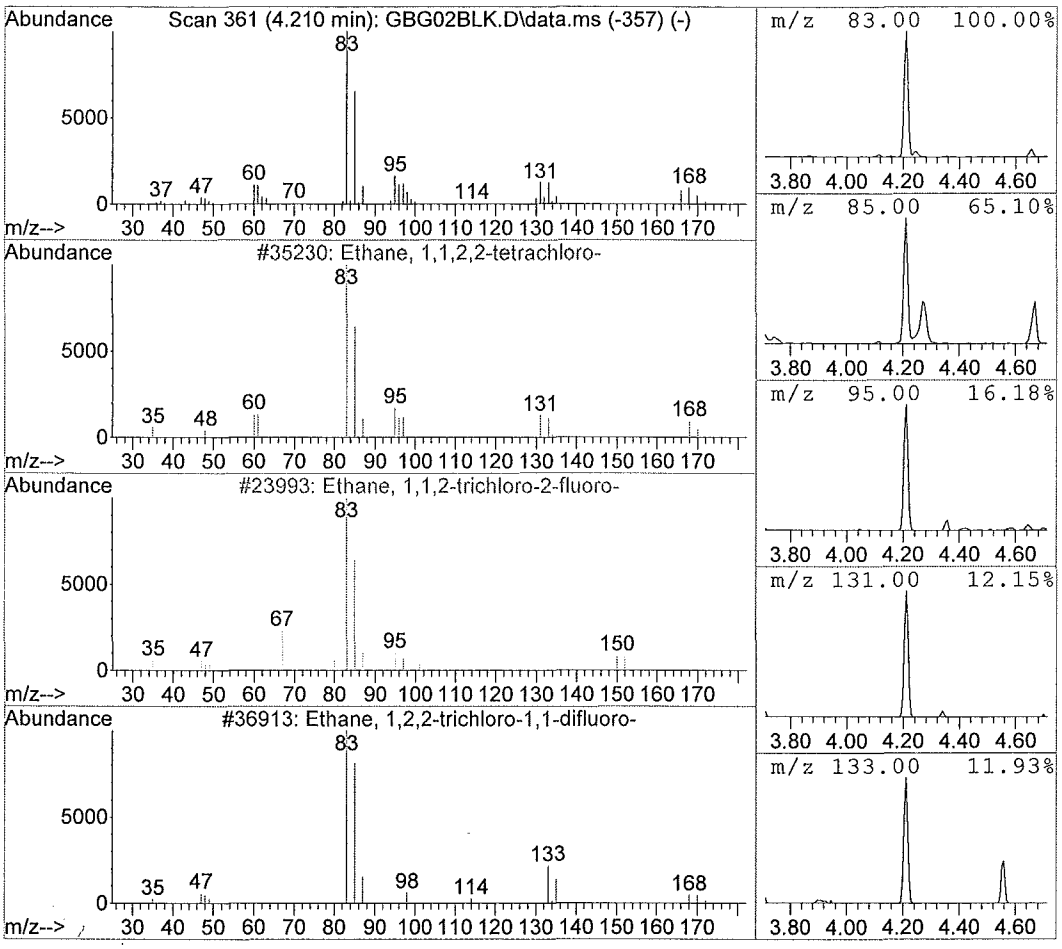
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.21	3.99 ug/ml	374693	1,4-Dichlorobenzene-d4	1878944

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Ethane, 1,1,2,2-tetrachloro- VOA	35230	000079-34-5	97.00
2	Ethane, 1,1,2-trichloro-2-fluoro-	23993	000359-28-4	59.00
3	Ethane, 1,2,2-trichloro-1,1-difluor	36913	000354-21-2	55.00
4	Ethane, 1,1-dichloro-2,2-difluoro-	14943	000471-43-2	42.00
5	Methane, dichloronitro-	13083	007119-89-3	40.00



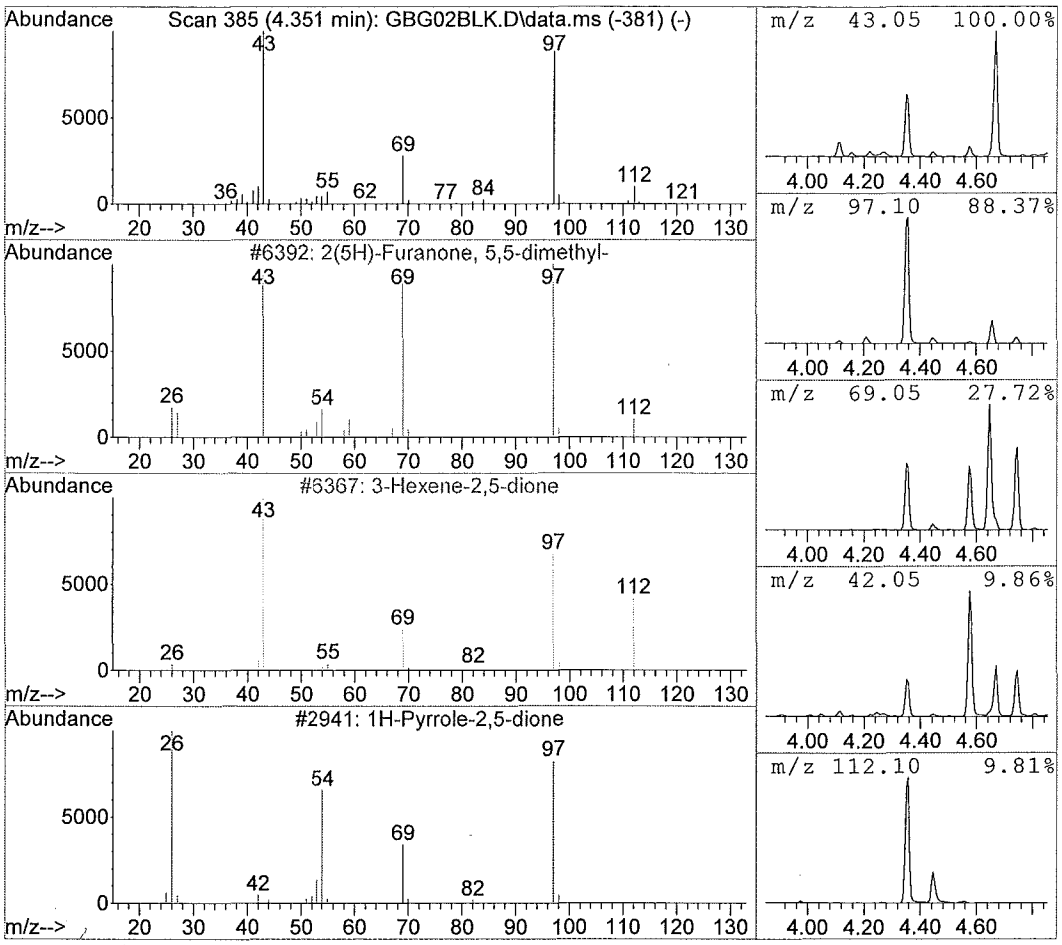
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.35	8.81 ug/ml	827242	1,4-Dichlorobenzene-d4	1878944

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	43.00
3	1H-Pyrrole-2,5-dione	2941	000541-59-3	40.00
4	Sulfurous acid, cyclohexylmethyl do	181207	1000309-22-0	33.00
5	2-Pyrazoline, 1,4,5-trimethyl-	6304	007423-11-2	10.00



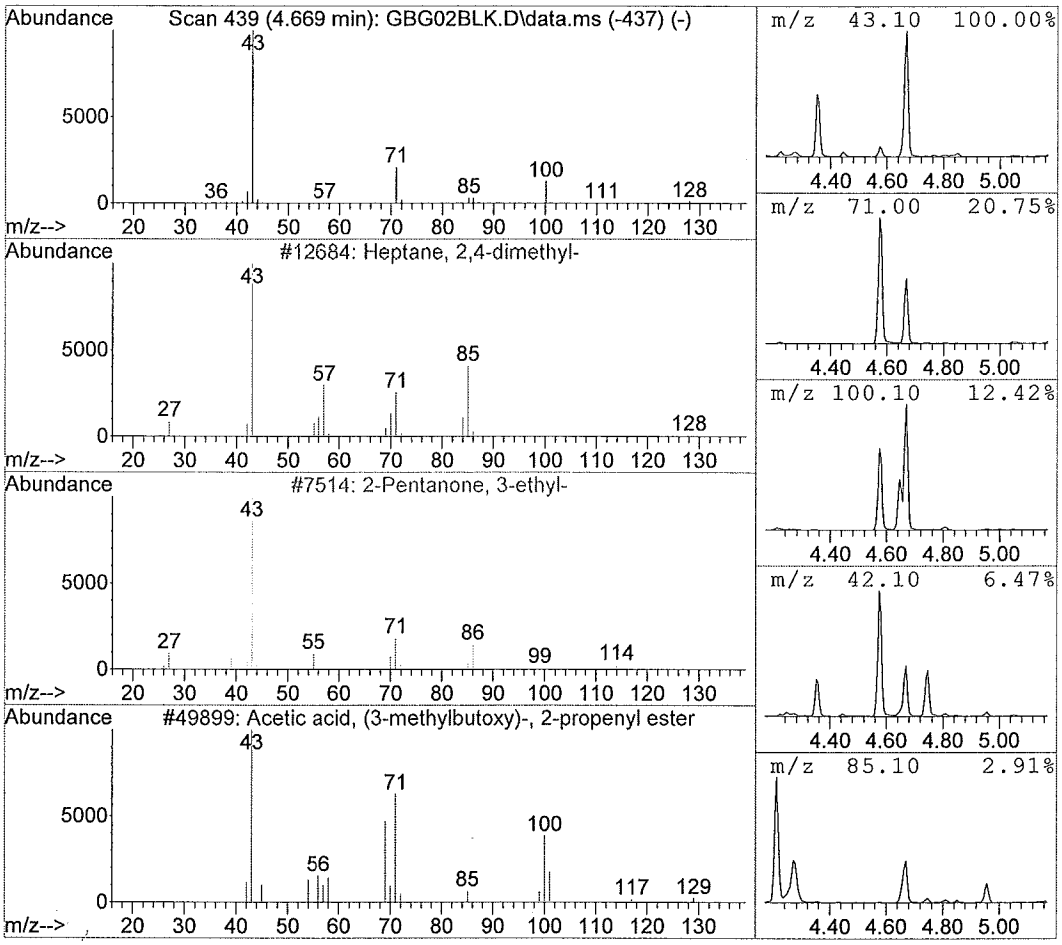
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.67	8.25 ug/ml	775408	1,4-Dichlorobenzene-d4	1878944

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,4-dimethyl- BA	12684	002213-23-2	45.00
2	2-Pentanone, 3-ethyl-	7514	006137-03-7	9.00
3	Acetic acid, (3-methylbutoxy)-, 2-p	49899	067634-00-8	9.00
4	3-Hexanone, 5-hydroxy-2-methyl-	13493	059357-07-2	9.00
5	Octane, 2-methyl-	12672	003221-61-2	7.00



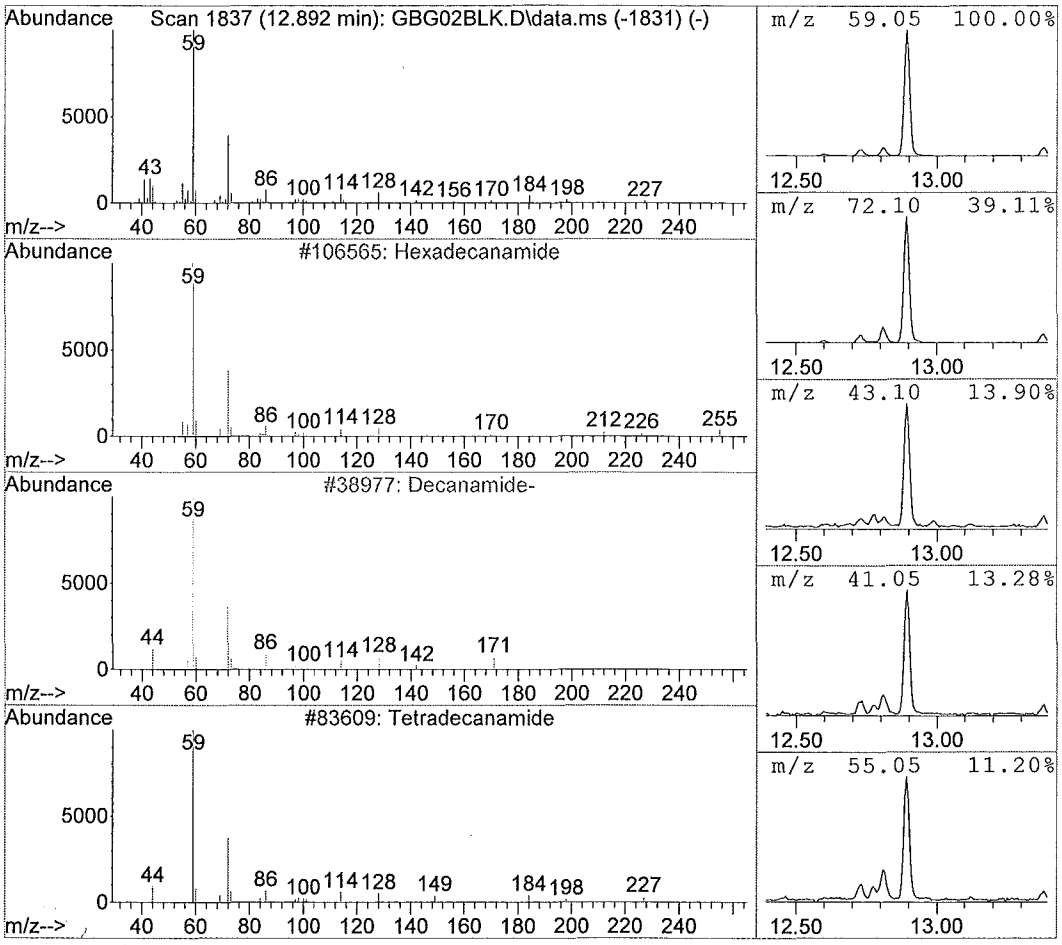
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.89	2.57 ug/ml	387136	Phenanthrene-d10	3009637

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	91.00
2	Decanamide-	38977	002319-29-1	90.00
3	Tetradecanamide	83609	000638-58-4	90.00
4	Dodecanamide	60439	001120-16-7	86.00
5	Undecanamide, 11-bromo-	112862	005875-26-3	64.00



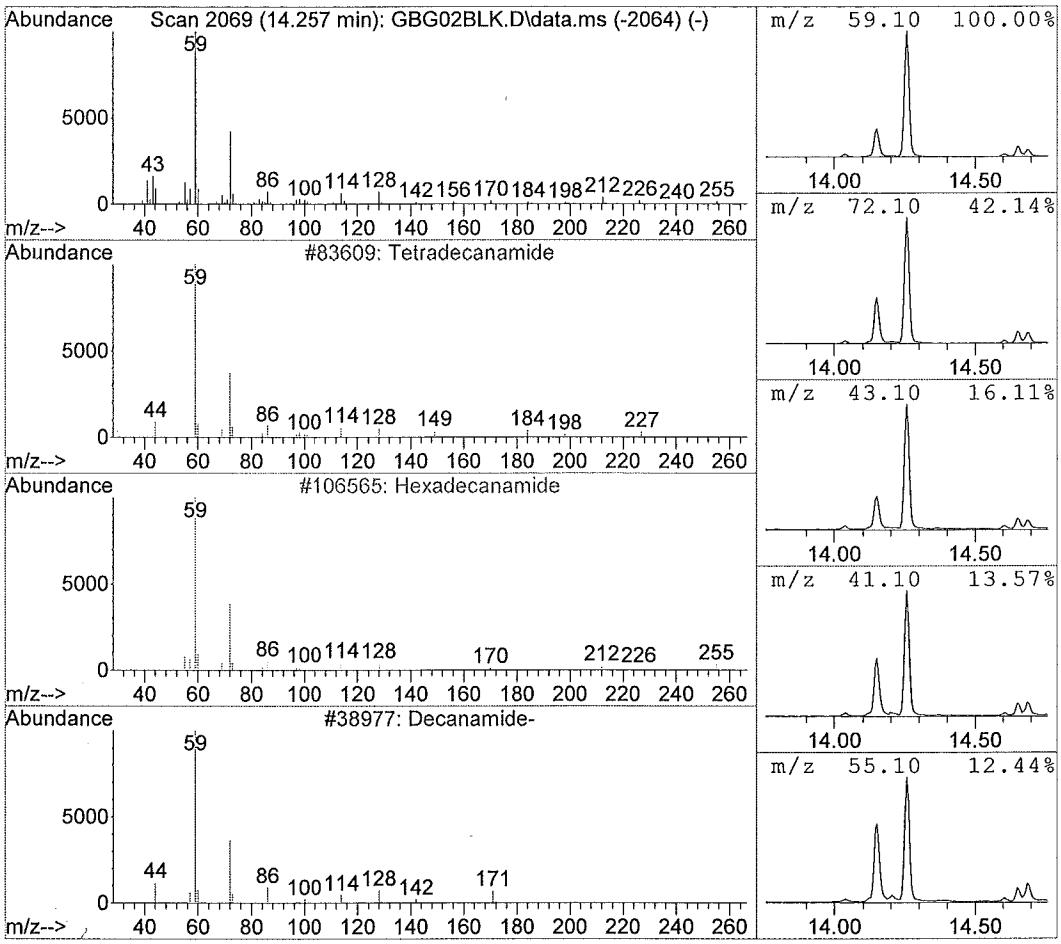
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
14.26	8.11 ug/ml	1320621	Chrysene-d12	3255015

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetradecanamide	83609	000638-58-4	86.00
2	Hexadecanamide	106565	000629-54-9	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



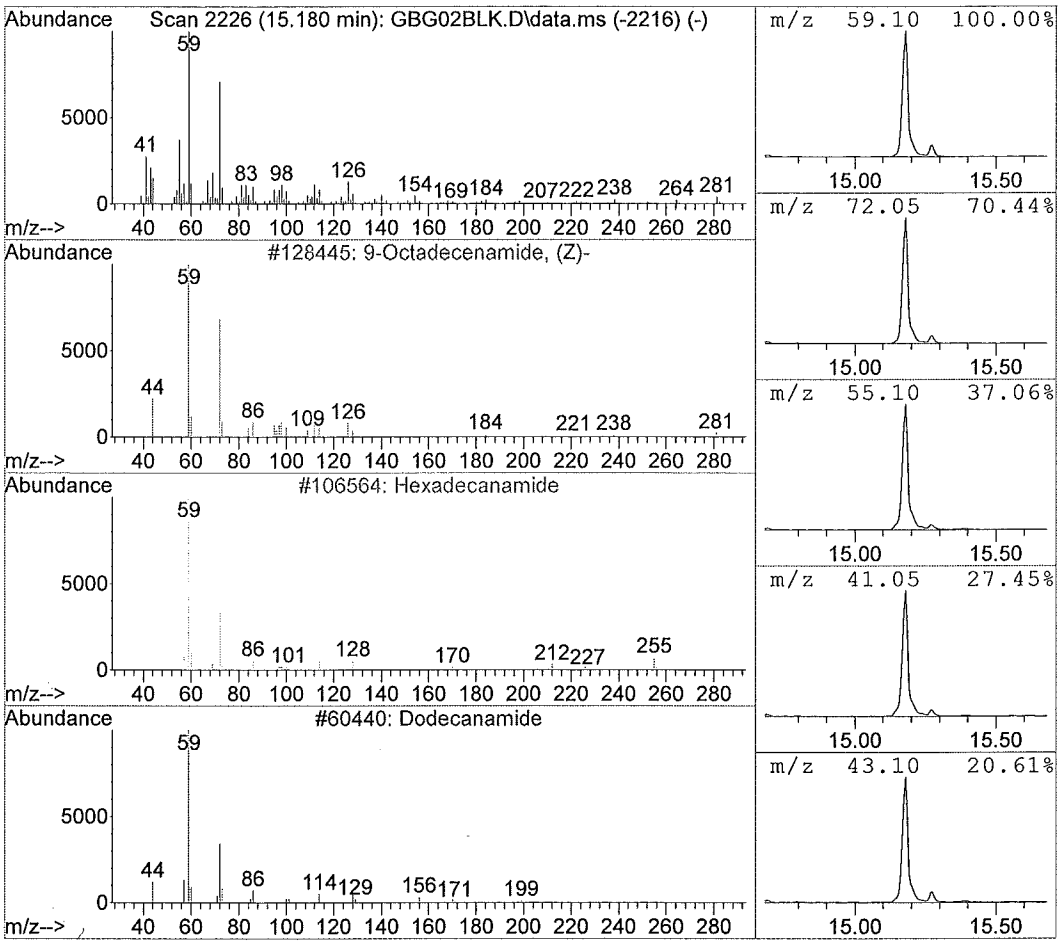
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.18	64.37 ug/ml	10476777	Chrysene-d12	3255015

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	Dodecanamide	60440	001120-16-7	53.00
4	Pentanamide	4064	000626-97-1	53.00
5	Pentanamide, 4-methyl-	7815	001119-29-5	50.00



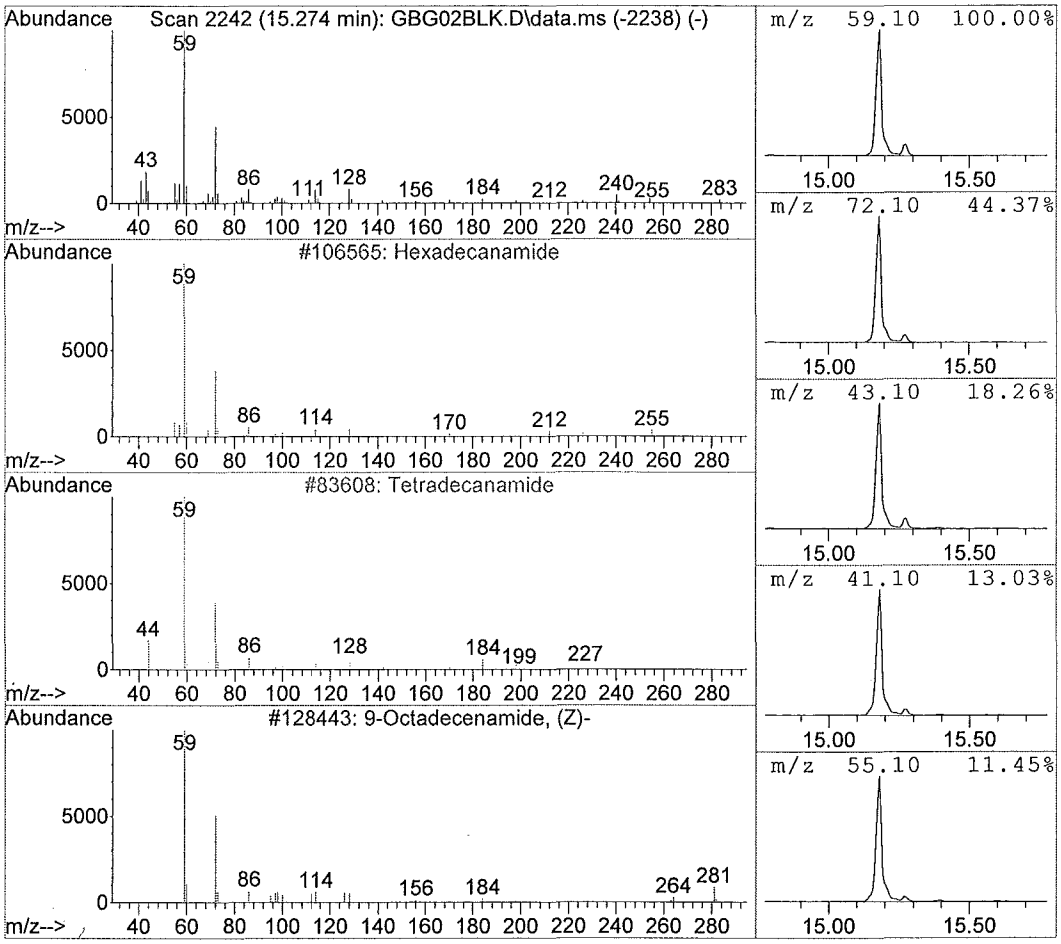
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.27	3.09 ug/ml	503270	Chrysene-d12	3255015

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanamide	106565	000629-54-9	86.00
2	Tetradecanamide	83608	000638-58-4	86.00
3	9-Octadecenamide, (Z)-	128443	000301-02-0	83.00
4	Dodecanamide	60439	001120-16-7	72.00
5	Nonadecanamide	142051	058185-32-3	64.00



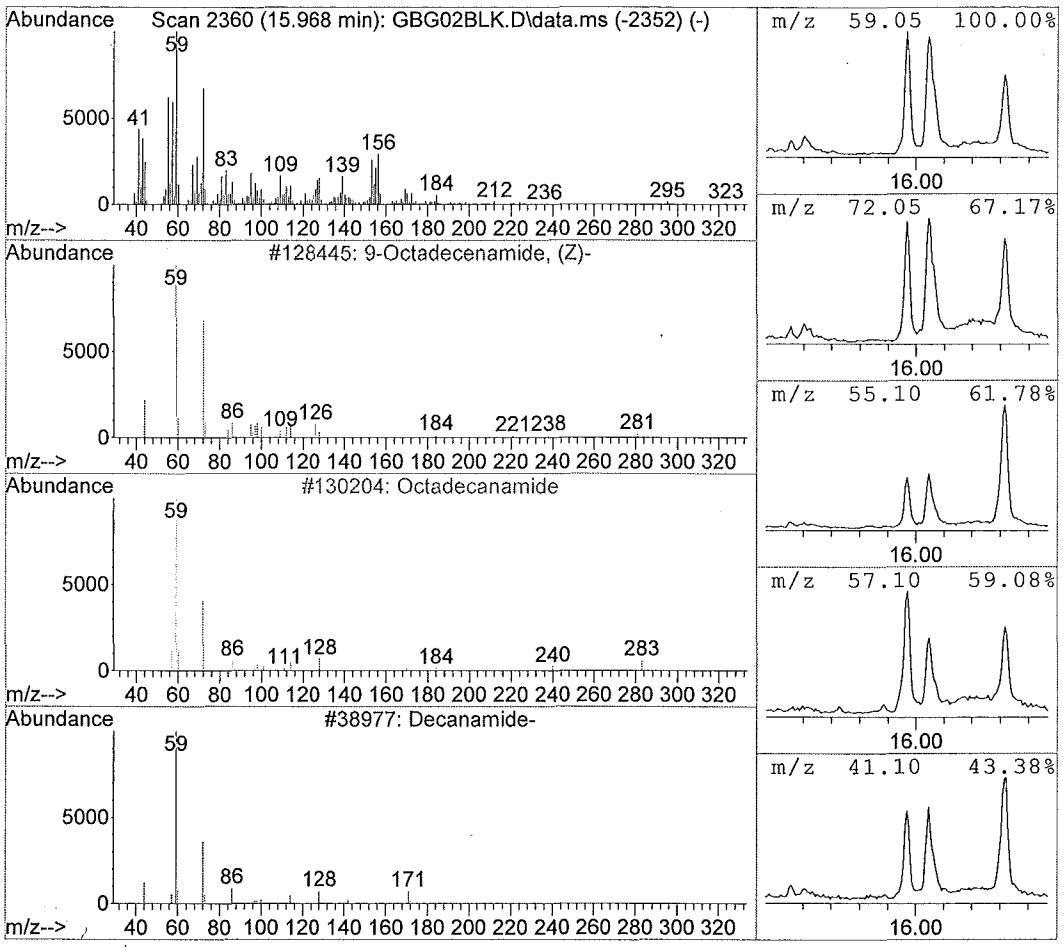
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.97	2.64 ug/ml	430251	Chrysene-d12	3255015

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	53.00
2	Octadecanamide	130204	000124-26-5	47.00
3	Decanamide-	38977	002319-29-1	47.00
4	Dodecanamide	60439	001120-16-7	43.00
5	Heptanamide, 4-ethyl-5-methyl-	38995	054789-40-1	43.00



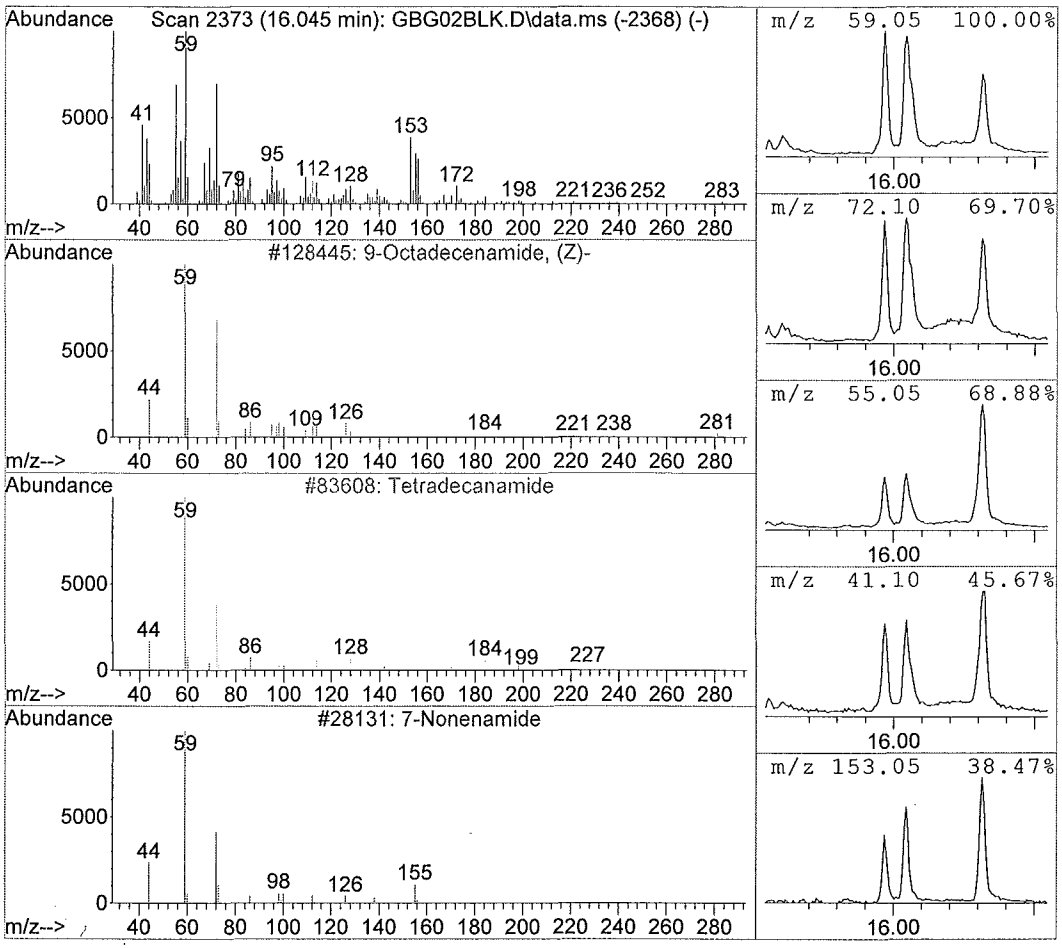
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.04	2.87 ug/ml	467047	Chrysene-d12	3255015

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	128445	000301-02-0	46.00
2	Tetradecanamide	83608	000638-58-4	43.00
3	7-Nonenamide	28131	090949-53-4	43.00
4	Decanamide-	38977	002319-29-1	38.00
5	Dodecanamide	60440	001120-16-7	30.00



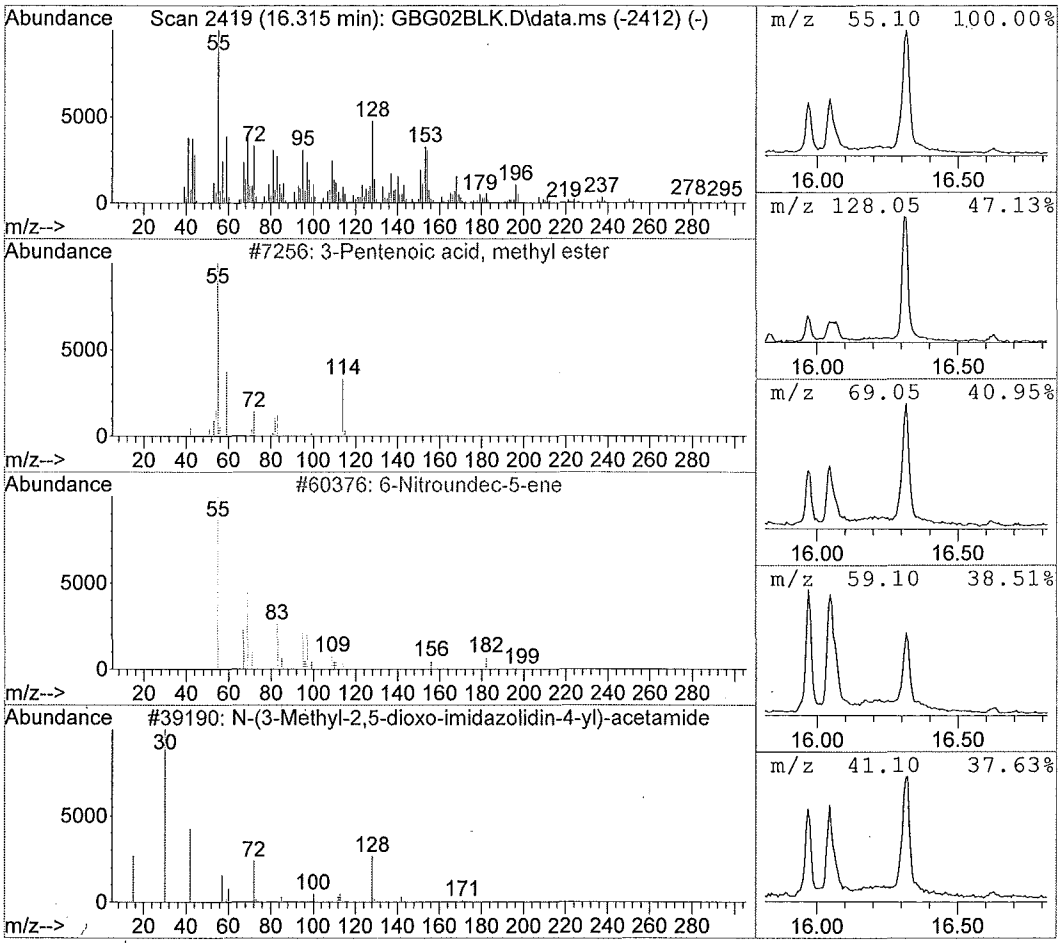
Library Search Compound Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG02BLK.D Vial: 2
Acq On : 06/09/2015 10:25 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Library : C:\Database\NIST11.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.32	5.84 ug/ml	950550	Chrysene-d12	3255015

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Pentenoic acid, methyl ester	7256	000818-58-6	18.00
2	6-Nitroundec-5-ene	60376	1000192-40-3	11.00
3	N-(3-Methyl-2,5-dioxo-imidazolidin-	39190	1000287-36-8	11.00
4	2(1H)-Naphthalenone, octahydro-, tr	25231	016021-08-2	10.00
5	4-Pentenoic acid, methyl ester	7248	000818-57-5	10.00

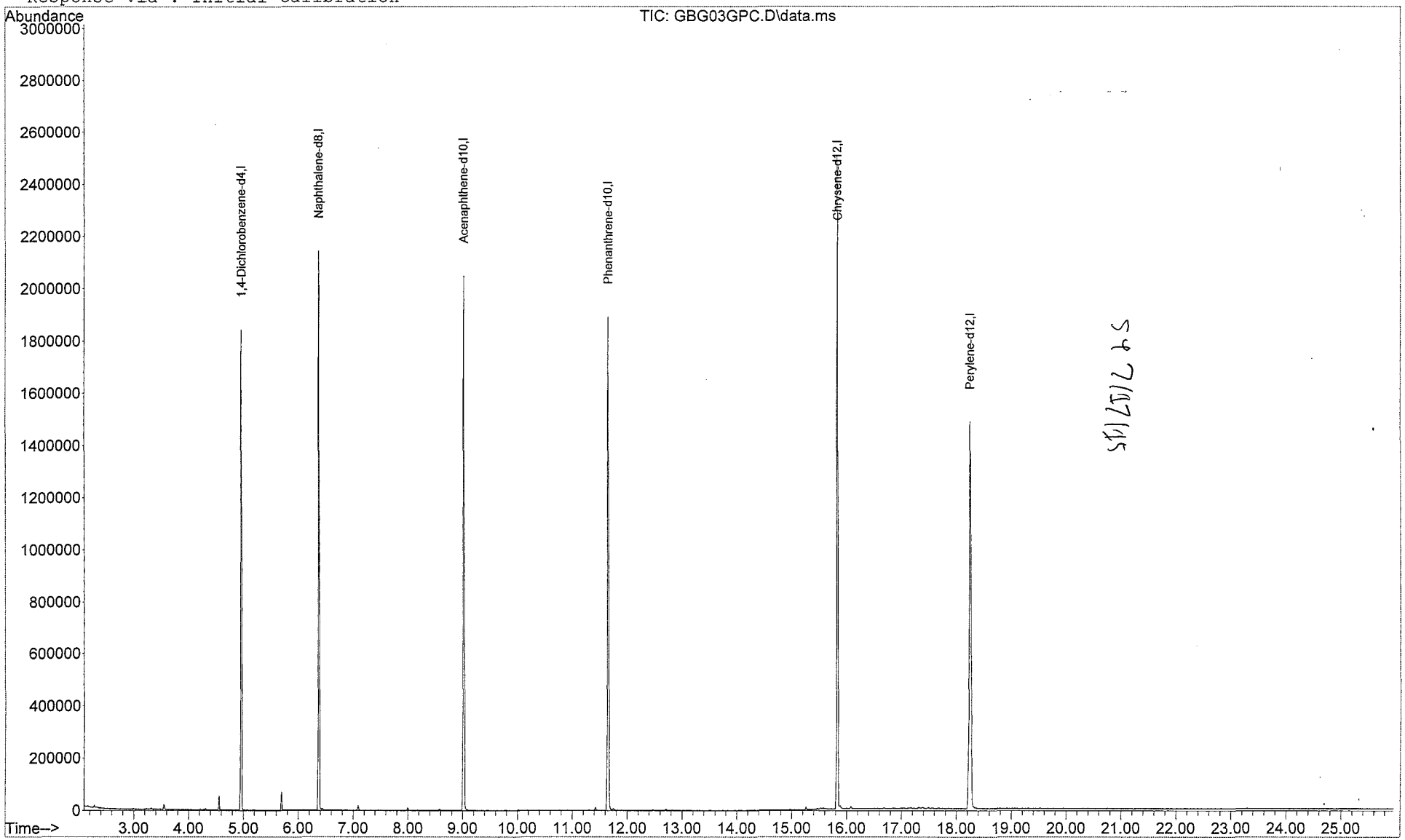


Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG03GPC.D Vial: 3
Acq On : 06/09/2015 10:58 Operator: DJC
Sample : 450197 GBLK97 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 15 07:40:15 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration



SY 7/17/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...6)\09JUN15\GBG03GPC.D Vial: 3
Acq On : 06/09/2015 10:58 Operator: DJC
Sample : 450197 GBLK97 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 15 07:40:15 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) 1,4-Dichlorobenzene-d4	4.96	152	353350	20.00 ug/ml
16) Naphthalene-d8	6.37	136	1314223	20.00 ug/ml
33) Acenaphthene-d10	9.02	164	727461	20.00 ug/ml
59) Phenanthrene-d10	11.65	188	1147762	20.00 ug/ml
73) Chrysene-d12	15.83	240	1138859	20.00 ug/ml
81) Perylene-d12	18.25	264	1133885	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	5.19	113	237	0.012ug/mL
17) Nitrobenzene-d5	0.00	128	0	0.000ug/ml
21) 2-Nitrophenol-d4	5.84	143	318	0.026ug/mL
25) 2,4-Dichlorophenol-d3	0.00	165	0	0.000ug/mL
28) 4-Chloroaniline-d4	0.00	131	0	0.000ug/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	108	0.003ug/mL
61) 4,6-Dinitro-2-methylphenol	0.00	200	0	0.000ug/mL
69) Anthracene-d10	0.00	188	0	0.000ug/mL
75) Pyrene-d10	0.00	212	0	0.000ug/mL
86) Benzo(a)pyrene-d12	0.00	264	0	0.000ug/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 : C:\msdchem\1\data\F9...6)\09JUN15\GBG03GPC.D Vial: 3
Acq On : 06/09/2015 10:58 Operator: DJC
Sample : 450197 GBLK97 Inst : 5975-G
Misc : . SOIL SOM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 15 07:40:15 2015 Results File: GSOM01D4.RES

Method : R:\G\METHODS\GSOM01D6.M (RTE Integrator)
Title : EPA/CLP SOM01
Last Update : Tue Jul 14 15:30:18 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.: F9L98

	EPA SAMPLE NO.	SDMC17 (FLN) #	SDMC18 (2MN) #	TOT OUT
01	F9L98	0 D	0 D	0
02	F9L99	0 D	0 D	0
03	F9M00	0 D	0 D	0
04	F9M01	0 D	0 D	0
05	F9M02	0 D	0 D	0
06	F9M02DL	0 D	0 D	0
07	F9M03	139	0 D	0
08	F9M04	101	83	0
09	F9M05	164 D	224 D	0
10	F9M06	0 D	0 D	0
11	F9M07	398 D	669 D	0
12	F9M07DL	390 D	724 D	0
13	F9M08	158 D	183 D	0
14	F9M09	161 D	0 D	0
15	F9M10	0 D	1873 D	0
16	F9M11	473 D	663 D	0
17	F9M12	0 D	331 D	0
18	F9M12DL	0 D	0 D	0
19	F9M13	167 D	0 D	0
20	F9M14	145	118	0
21	F9M17	93	91	0
22	F9M18	93	81	0
23	F9M19	82	65	0
24	SBLK65	89	78	0
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.

SBLK65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Lab File ID: DGA03BLK Lab Sample ID: 449965

Instrument ID: 5975-D Date Extracted: 06/04/2015

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 06/12/2015

Time Analyzed: 13:17 Extraction: (Type) SONC GPC Cleanup: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	F9L98	1515375001	DFL04F01	07/14/2015
02	F9L99	1515375004	DFL05F04	07/14/2015
03	F9M00	1515375005	DFL06F05	07/14/2015
04	F9M01	1515375006	DFL07F06	07/14/2015
05	F9M02	1515375007	DFL08F07	07/14/2015
06	F9M02DL	1515375007DL	DFM02F07	07/15/2015
07	F9M03	1515375008	DFL09F08	07/14/2015
08	F9M04	1515375009	DFL10F09	07/14/2015
09	F9M05	1515375010	DGA13F10	06/12/2015
10	F9M06	1515375011	DFL11F11	07/14/2015
11	F9M07	1515375012	DFL12F12	07/14/2015
12	F9M07DL	1515375012DL	DFM03F12	07/15/2015
13	F9M08	1515375013	DGA16F13	06/12/2015
14	F9M09	1515375014	DFL13F14	07/14/2015
15	F9M10	1515375015	DFL14F15	07/14/2015
16	F9M11	1515375016	DFL15F16	07/14/2015
17	F9M12	1515375017	DFL16F17	07/14/2015
18	F9M12DL	1515375017DL	DFM04F17	07/15/2015
19	F9M13	1515375018	DFL17F18	07/14/2015
20	F9M14	1515375019	DFL18F19	07/14/2015
21	F9M17	1515375020	DFL19F20	07/14/2015
22	F9M18	1515375021	DFL20F21	07/14/2015
23	F9M19	1515375022	DFL21F22	07/15/2015
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.: F9L98

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.

SSTD0.4DA

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Lab File ID: DGA02SP4 DFTPP Injection Date: 06/12/2015

Instrument ID: 5975-D DFTPP Injection Time: 12:47

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	SSTD0.4DA	SSTD0.4DA	DGA02SP4	06/12/2015	12:47
02	SBLK65	449965	DGA03BLK	06/12/2015	13:17
03	SSTD0.4D1	SSTD0.4D1	DGA11SP4	06/12/2015	17:16
04					
05					
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.: SSTD0.4D1

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Lab File ID: DGA11SP4 DFTPP Injection Date: 06/12/2015

Instrument ID: 5975-D DFTPP Injection Time: 17:16

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	SSTD0.4D1	SSTD0.4D1	DGA11SP4	06/12/2015	17:16
02	F9M05	1515375010	DGA13F10	06/12/2015	18:16
03	F9M08	1515375013	DGA16F13	06/12/2015	19:46
04	SSTD0.4D2	SSTD0.4D2	DGA26SP4	06/13/2015	00:43
05					
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.

SSTD0.4DL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Lab File ID: DFL01SP4 DFTPP Injection Date: 07/14/2015

Instrument ID: 5975-D DFTPP Injection Time: 13:31

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	SSTD0.4DL	SSTD0.4DL	DFL01SP4	07/14/2015	13:31
02	F9L98	1515375001	DFL04F01	07/14/2015	15:45
03	F9L99	1515375004	DFL05F04	07/14/2015	16:15
04	F9M00	1515375005	DFL06F05	07/14/2015	16:45
05	F9M01	1515375006	DFL07F06	07/14/2015	17:15
06	F9M02	1515375007	DFL08F07	07/14/2015	17:45
07	F9M03	1515375008	DFL09F08	07/14/2015	18:15
08	F9M04	1515375009	DFL10F09	07/14/2015	18:45
09	F9M06	1515375011	DFL11F11	07/14/2015	19:15
10	F9M07	1515375012	DFL12F12	07/14/2015	19:45
11	F9M09	1515375014	DFL13F14	07/14/2015	20:15
12	F9M10	1515375015	DFL14F15	07/14/2015	20:45
13	F9M11	1515375016	DFL15F16	07/14/2015	21:15
14	F9M12	1515375017	DFL16F17	07/14/2015	21:44
15	F9M13	1515375018	DFL17F18	07/14/2015	22:14
16	F9M14	1515375019	DFL18F19	07/14/2015	22:44
17	F9M17	1515375020	DFL19F20	07/14/2015	23:14
18	F9M18	1515375021	DFL20F21	07/14/2015	23:44
19	F9M19	1515375022	DFL21F22	07/15/2015	00:14
20	SSTD0.4L1	SSTD0.4L1	DFL22SP4	07/15/2015	00:44
21					

5B - FORM V SV
SEMIVOLATILE ORGANIC SIM INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

EPA SAMPLE NO.

SSTD0.4DM

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Lab File ID: DFM01SP4 DFTPP Injection Date: 07/15/2015

Instrument ID: 5975-D DFTPP Injection Time: 11:02

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	SSTD0.4DM	SSTD0.4DM	DFM01SP4	07/15/2015	11:02
02	F9M02DL	1515375007DL	DFM02F07	07/15/2015	11:36
03	F9M07DL	1515375012DL	DFM03F12	07/15/2015	12:06
04	F9M12DL	1515375017DL	DFM04F17	07/15/2015	12:36
05	SSTD0.4M1	SSTD0.4M1	DFM05SP4	07/15/2015	13:06
06					
07					
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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.: F9L98

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DA Date Analyzed: 06/12/2015

Lab File ID (Standard): DGA02SP4 Time Analyzed: 12:47

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD			182015	6.06	117299	8.72
	UPPER LIMIT			364030	6.56	234598	9.22
	LOWER LIMIT			91008	5.56	58650	8.22
	EPA SAMPLE NO.						
01	SBLK65			235447	6.06	170704	8.72
02							
03							
04							
05							
06							
07							
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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.: F9L98

EPA Sample No.(SSTD0.4##): SSTD0.4DA Date Analyzed: 06/12/2015

Lab File ID (Standard): DGA02SP4 Time Analyzed: 12:47

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	207521	11.36	232095	15.51	216853	18.00
	UPPER LIMIT	415042	11.86	464190	16.01	433706	18.50
	LOWER LIMIT	103761	10.86	116048	15.01	108427	17.50
	EPA SAMPLE NO.						
01	SBLK65	297901	11.36	292683	15.51	302624	18.00
02							
03							
04							
05							
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.

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.: F9L98

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4D1 Date Analyzed: 06/12/2015

Lab File ID (Standard): DGA11SP4 Time Analyzed: 17:16

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD			174784	6.06	108269	8.72
	UPPER LIMIT			349568	6.56	216538	9.22
	LOWER LIMIT			87392	5.56	54135	8.22
	EPA SAMPLE NO.						
01	F9M05			198212	6.06	148557	8.72
02	F9M08			185384	6.06	133159	8.72
03							
04							
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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.: F9L98

EPA Sample No.(SSTD0.4##): SSTD0.4D1 Date Analyzed: 06/12/2015

Lab File ID (Standard): DGA11SP4 Time Analyzed: 17:16

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	186175	11.36	195362	15.51	179654	18.00
	UPPER LIMIT	372350	11.86	390724	16.01	359308	18.50
	LOWER LIMIT	93088	10.86	97681	15.01	89827	17.50
	EPA SAMPLE NO.						
01	F9M05	241108	11.36	270672	15.51	255416	18.01
02	F9M08	226095	11.36	252770	15.51	243743	18.01
03							
04							
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06							
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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.

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.: F9L98

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DL Date Analyzed: 07/14/2015

Lab File ID (Standard): DFL01SP4 Time Analyzed: 13:31

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD			167021	5.82	110021	8.44
	UPPER LIMIT			334042	6.32	220042	8.94
	LOWER LIMIT			83511	5.32	55011	7.94
	EPA SAMPLE NO.						
01	F9L98			165416	5.83	103575	8.44
02	F9L99			153151	5.83	96010	8.44
03	F9M00			159871	5.83	99627	8.44
04	F9M01			158170	5.83	100379	8.44
05	F9M02			160157	5.83	101289	8.44
06	F9M03			155143	5.83	98775	8.44
07	F9M04			160497	5.83	107499	8.44
08	F9M06			158596	5.83	101451	8.44
09	F9M07			172068	5.83	123046	8.45
10	F9M09			154687	5.83	101539	8.44
11	F9M10			169605	5.83	119360	8.44
12	F9M11			157625	5.83	108353	8.44
13	F9M12			165318	5.83	109932	8.44
14	F9M13			189550	5.83	122225	8.44
15	F9M14			161176	5.83	105752	8.44
16	F9M17			155307	5.83	99386	8.44
17	F9M18			157503	5.83	106448	8.44
18	F9M19			200007	5.83	142127	8.44
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.: F9L98

EPA Sample No.(SSTD0.4##): SSTD0.4DL Date Analyzed: 07/14/2015

Lab File ID (Standard): DFL01SP4 Time Analyzed: 13:31

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	177854	11.06	187760	15.27	175609	17.57
	UPPER LIMIT	355708	11.56	375520	15.77	351218	18.07
	LOWER LIMIT	88927	10.56	93880	14.77	87805	17.07
	EPA SAMPLE NO.						
01	F9L98	180950	11.06	208528	15.26	211069	17.56
02	F9L99	166086	11.06	191989	15.27	193623	17.56
03	F9M00	173135	11.06	198365	15.26	200430	17.56
04	F9M01	172961	11.06	206583	15.26	212510	17.56
05	F9M02	176607	11.06	202613	15.26	208830	17.56
06	F9M03	174269	11.06	206745	15.27	212308	17.57
07	F9M04	183967	11.06	211103	15.26	223955	17.57
08	F9M06	179364	11.06	212863	15.26	224367	17.57
09	F9M07	201698	11.06	264873	15.27	271396	17.58
10	F9M09	177102	11.06	219729	15.27	231722	17.57
11	F9M10	190838	11.06	235234	15.27	232004	17.57
12	F9M11	179883	11.06	221965	15.27	228188	17.57
13	F9M12	188838	11.06	223949	15.26	232474	17.57
14	F9M13	213887	11.06	250865	15.26	256903	17.57
15	F9M14	186367	11.06	231237	15.27	247623	17.57
16	F9M17	174273	11.06	203909	15.27	219365	17.57
17	F9M18	178967	11.06	217307	15.27	233965	17.57
18	F9M19	231716	11.06	280273	15.27	289287	17.57
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.: F9L98

GC Column: DB5MS ID: 0.32 (mm) Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DM Date Analyzed: 07/15/2015

Lab File ID (Standard): DFM01SP4 Time Analyzed: 11:02

Instrument ID: 5975-D

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD			173602	5.82	109872	8.44
	UPPER LIMIT			347204	6.32	219744	8.94
	LOWER LIMIT			86801	5.32	54936	7.94
	EPA SAMPLE NO.						
01	F9M02DL			160732	5.83	99786	8.44
02	F9M07DL			178903	5.83	128407	8.44
03	F9M12DL			167618	5.83	109367	8.44
04							
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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.: F9L98

EPA Sample No.(SSTD0.4##): SSTD0.4DM Date Analyzed: 07/15/2015

Lab File ID (Standard): DFM01SP4 Time Analyzed: 11:02

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	196845	11.06	207163	15.27	199131	17.57
	UPPER LIMIT	393690	11.56	414326	15.77	398262	18.07
	LOWER LIMIT	98423	10.56	103582	14.77	99566	17.07
	EPA SAMPLE NO.						
01	F9M02DL	173742	11.06	184258	15.27	170697	17.57
02	F9M07DL	212239	11.06	235837	15.27	217415	17.57
03	F9M12DL	188362	11.06	203799	15.27	192476	17.57
04							
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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.

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9L98

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375001

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFL04F01

Extraction: (Type) SONC

% Moisture: 21. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/14/2015

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 40.0

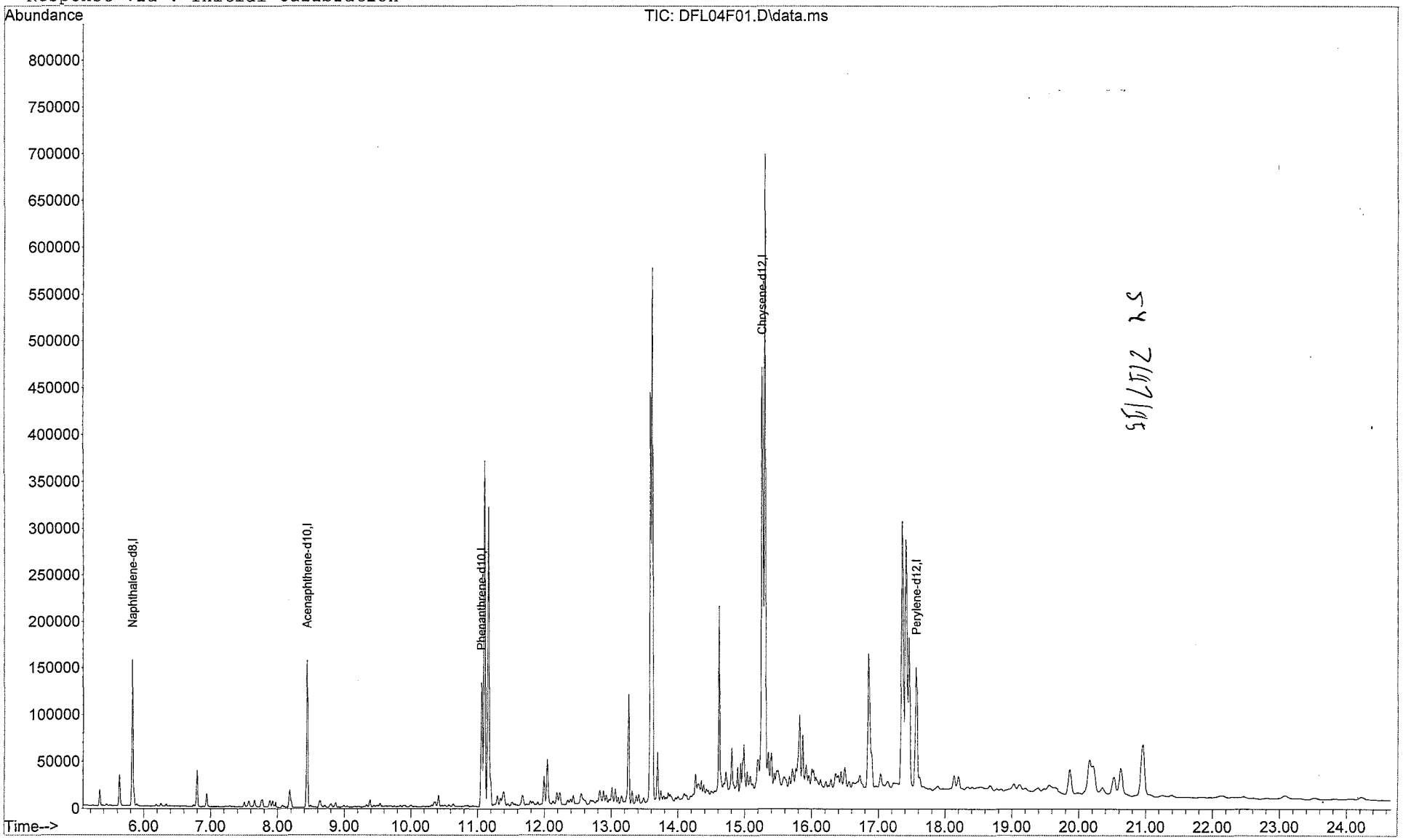
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	35.	J
91-57-6	2-Methylnaphthalene	110	J
208-96-8	Acenaphthylene	170	U
83-32-9	Acenaphthene	170	U
86-73-7	Fluorene	170	U
87-86-5	Pentachlorophenol	340	U
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	94.	J
206-44-0	Fluoranthene	270	
129-00-0	Pyrene	1100	
56-55-3	Benzo(a)anthracene	800	
218-01-9	Chrysene	1400	
205-99-2	Benzo(b)fluoranthene	460	
207-08-9	Benzo(k)fluoranthene	66.	J
50-32-8	Benzo(a)pyrene	460	
193-39-5	Indeno(1,2,3-cd)pyrene	260	
53-70-3	Dibenzo(a,h)anthracene	150	J
191-24-2	Benzo(g,h,i)perylene	380	

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL04F01.D Vial: 4
Acq On : 07/14/2015 15:45 Operator: DJC
Sample : 1515375001 F9L98 (40) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 11:54:01 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



DFL04F01.D DSOM_SIMJ2.M Fri Jul 17 12:32:48 2015 Page 2

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL04F01.D Vial: 4
Acq On : 07/14/2015 15:45 Operator: DJC
Sample : 1515375001 F9L98 (40) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 11:54:01 2015 Results File: DSOM_SIMJ2.RES

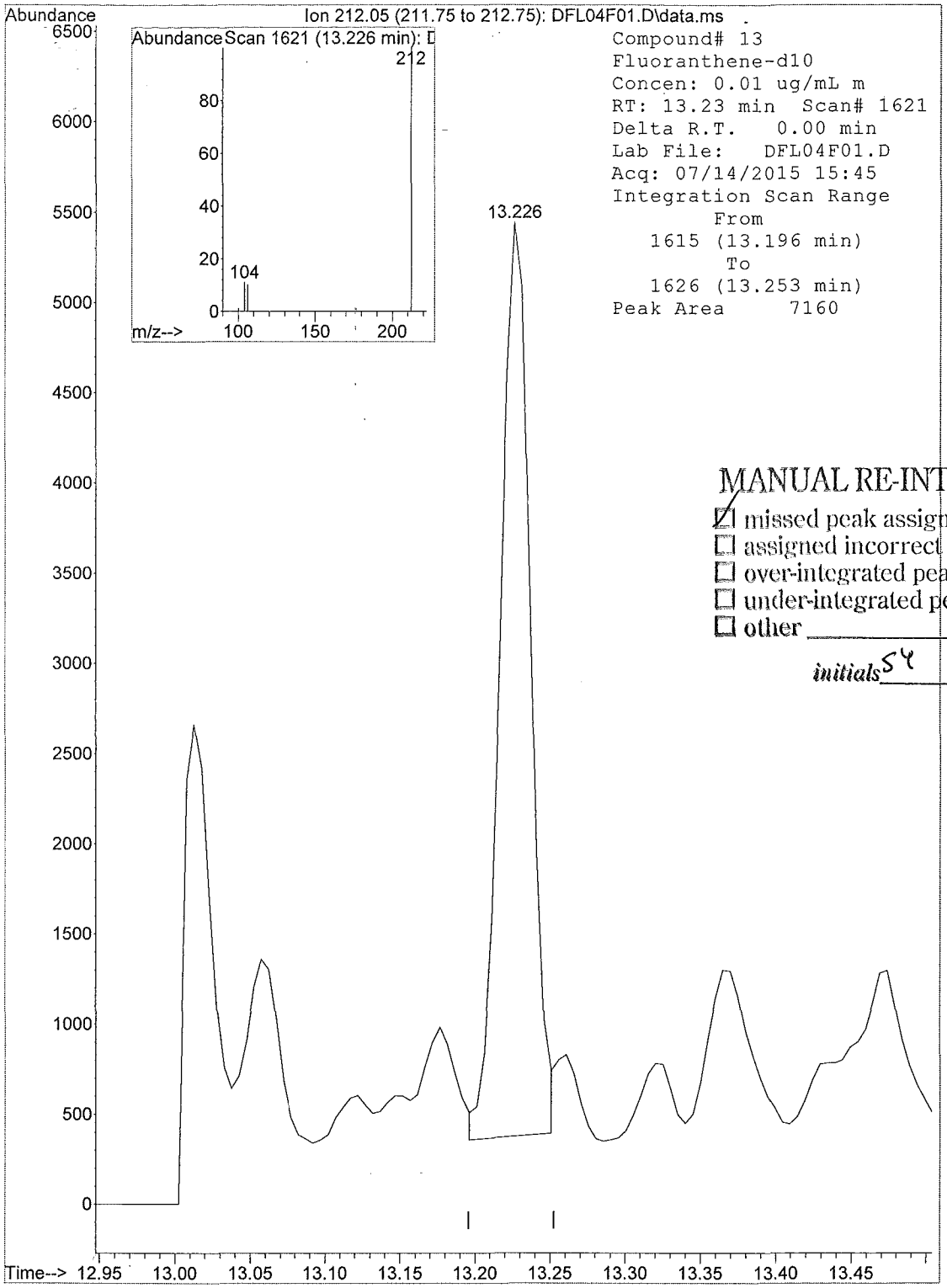
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	165416	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	103575	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	180950	0.40 ug/ml	
15) Chrysene-d12	15.26	240	208528	0.40 ug/ml	
19) Perylene-d12	17.56	264	211069	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	3524	0.013ug/mL	
13) Fluoranthene-d10	13.23	212	7160	0.014ug/mL m	54 7/17/15
Target Compounds					Qvalue
2) Naphthalene	5.85	128	9056	0.021ug/ml	95
4) 2-Methylnaphthalene	6.80	142	18752	0.068ug/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	11.10	178	388338	0.745ug/ml	98
12) Anthracene	11.19	178	28646	0.057ug/ml	90
14) Fluoranthene	13.26	202	95151	0.160ug/ml	89
16) Pyrene	13.61	202	423120	0.647ug/ml	89
17) Benzo(a)anthracene	15.25	228	266732	0.480ug/ml	88
18) Chrysene	15.30	228	488652	0.832ug/ml	96
20) Benzo(b)fluoranthene	16.85	252	180801	0.275ug/ml m	97
21) Benzo(k)fluoranthene	16.89	252	27043	0.040ug/ml m	54 96
22) Benzo(a)pyrene	17.45	252	174276	0.277ug/ml	7/17/15 95
23) Indeno(1,2,3-c,d)pyrene	20.15	276	86234	0.157ug/ml	100
24) Dibenzo(a,h)anthracene	20.22	278	55581	0.091ug/ml	36
25) Benzo(g,h,i)perylene	20.96	276	139109	0.225ug/ml	70

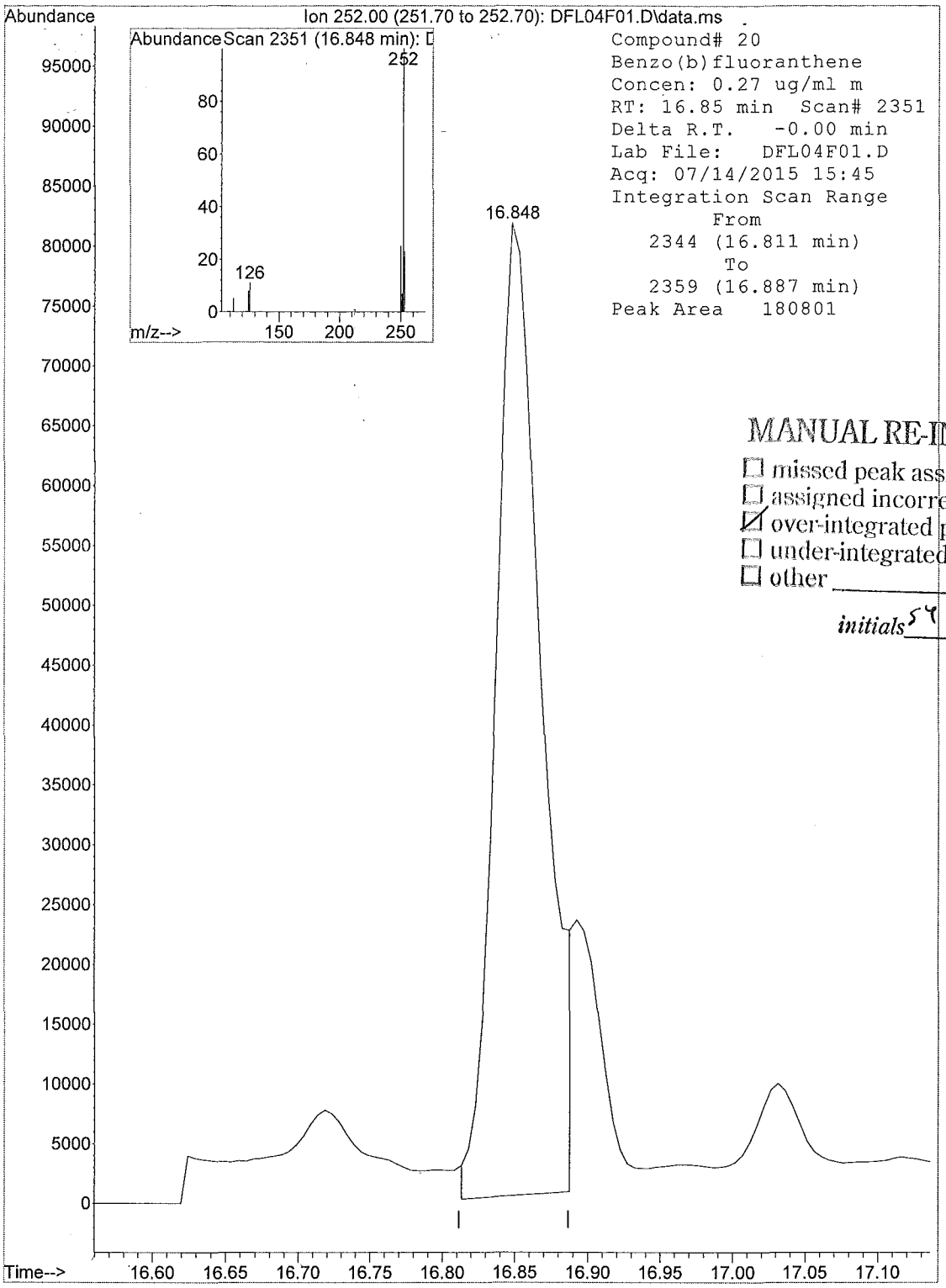
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 010021

M A N U A L I N T E G R A T I O N FOR Fluoranthene-d10



M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene

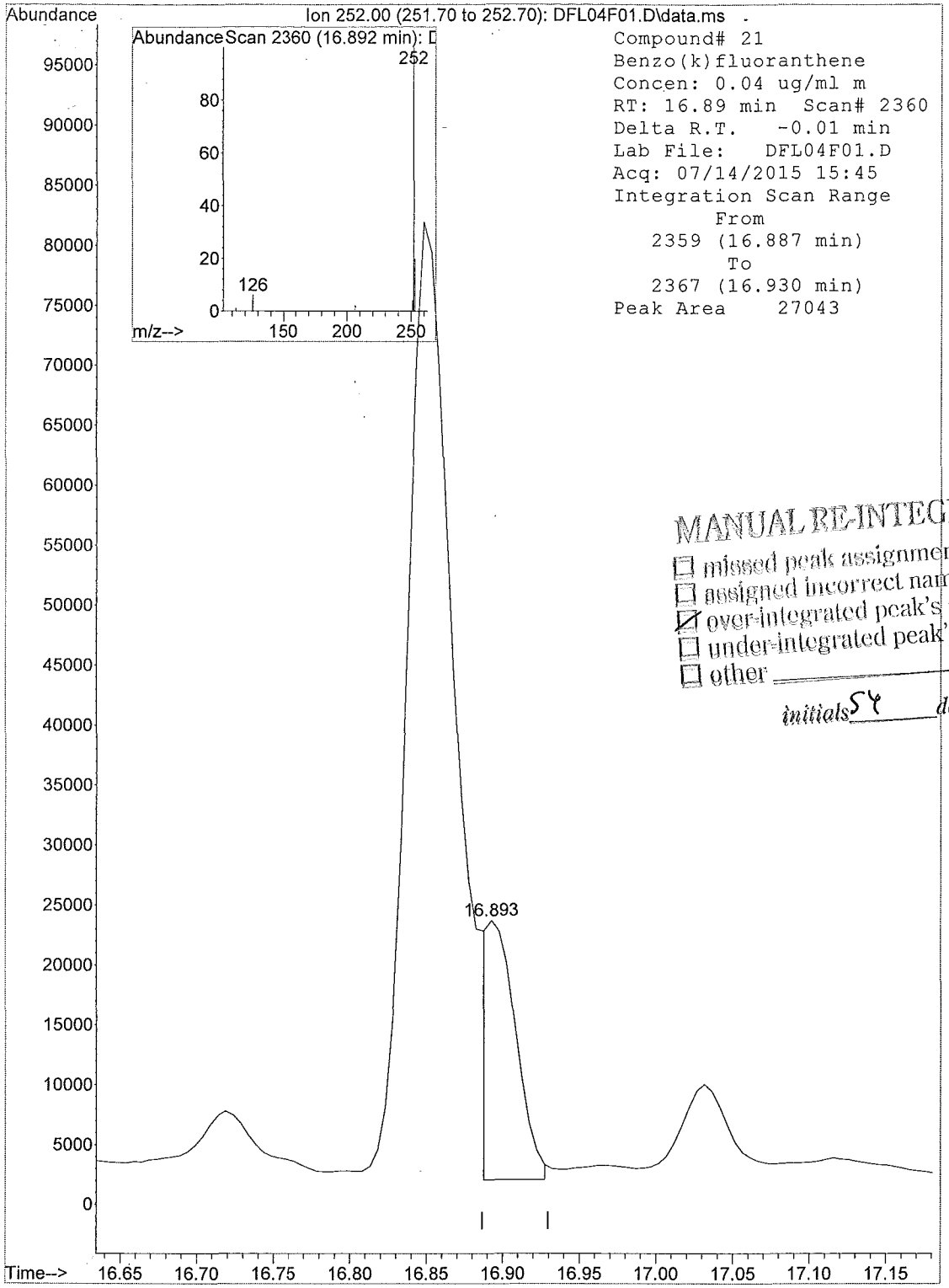


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 7/17/15

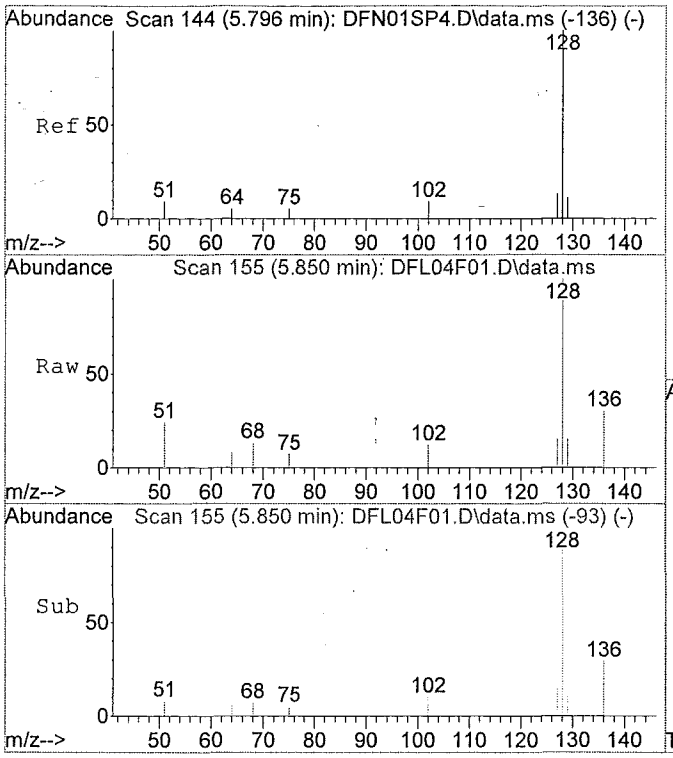
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☒ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

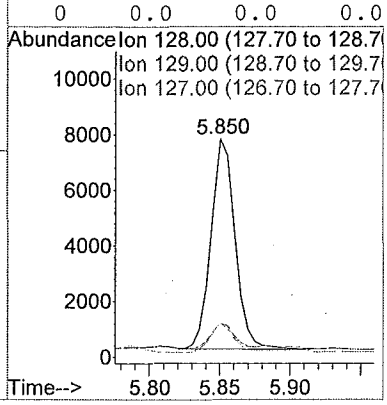
initials SY date 7/17/15

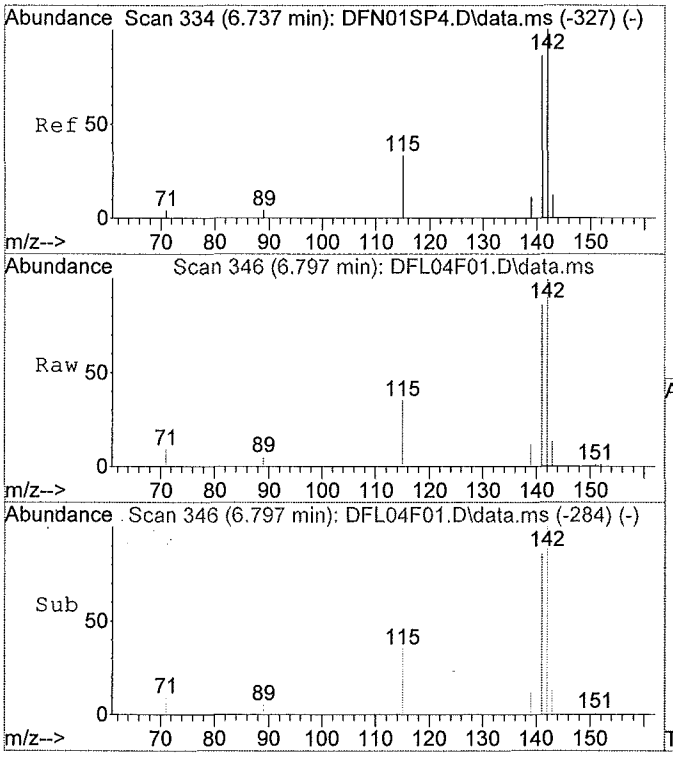


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 5.85 min Scan# 155
Delta R.T. 0.01 min
Lab File: DFL04F01.D
Acq: 07/14/2015 15:45

Tgt Ion:128 Resp: 9056

Ion	Ratio	Lower	Upper
128	100		
129	11.9	0.0	0.0#
127	13.6	11.1	20.5
0	0.0	0.0	0.0

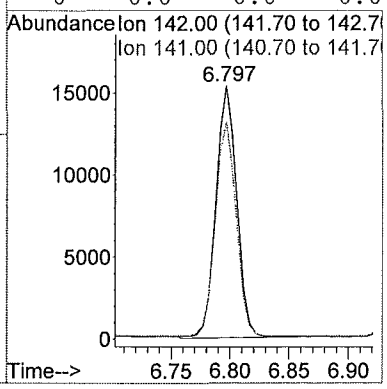


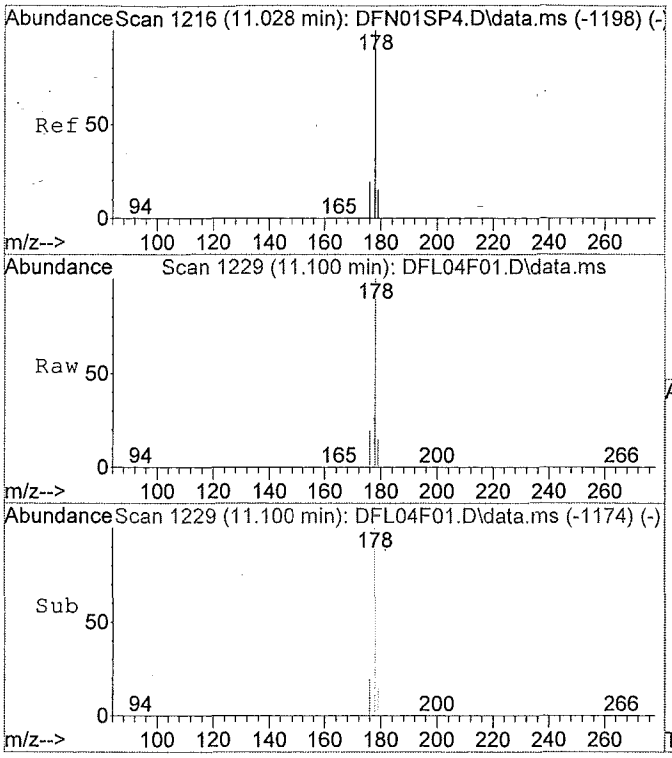


#4
2-Methylnaphthalene
Concen: 0.07 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.01 min
Lab File: DFL04F01.D
Acq: 07/14/2015 15:45

Tgt Ion:142 Resp: 18752

Ion	Ratio	Lower	Upper
142	100		
141	84.6	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

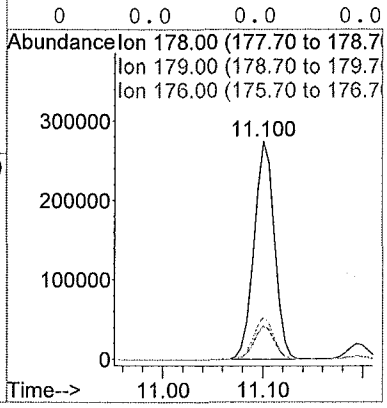


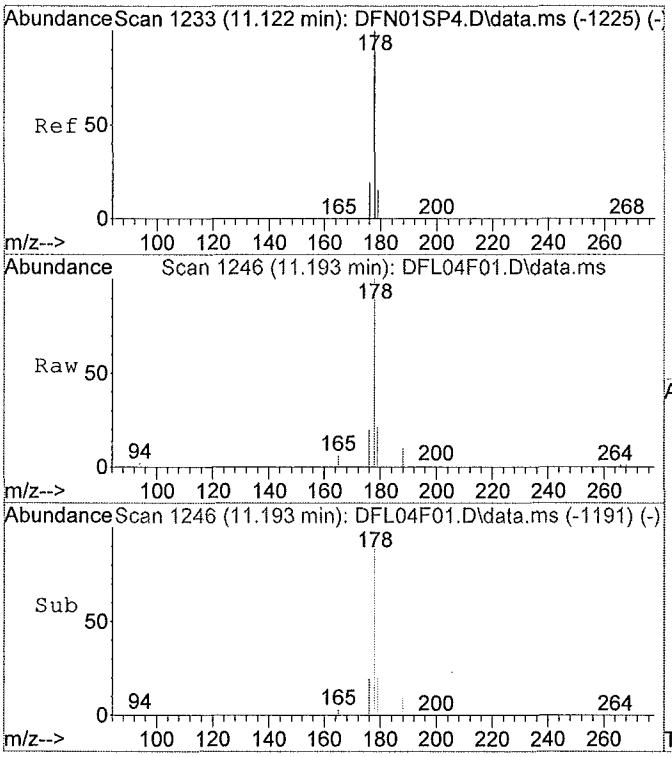


#11
Phenanthrene
Concen: 0.75 ug/ml
RT: 11.10 min Scan# 1229
Delta R.T. 0.00 min
Lab File: DFL04F01.D
Acq: 07/14/2015 15:45

Tgt Ion:178 Resp: 388338

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

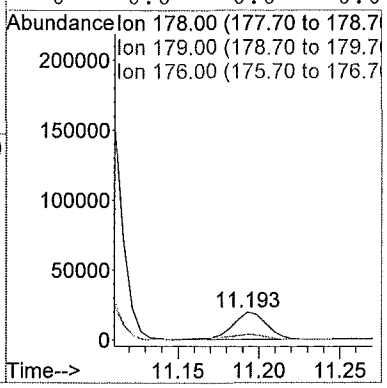


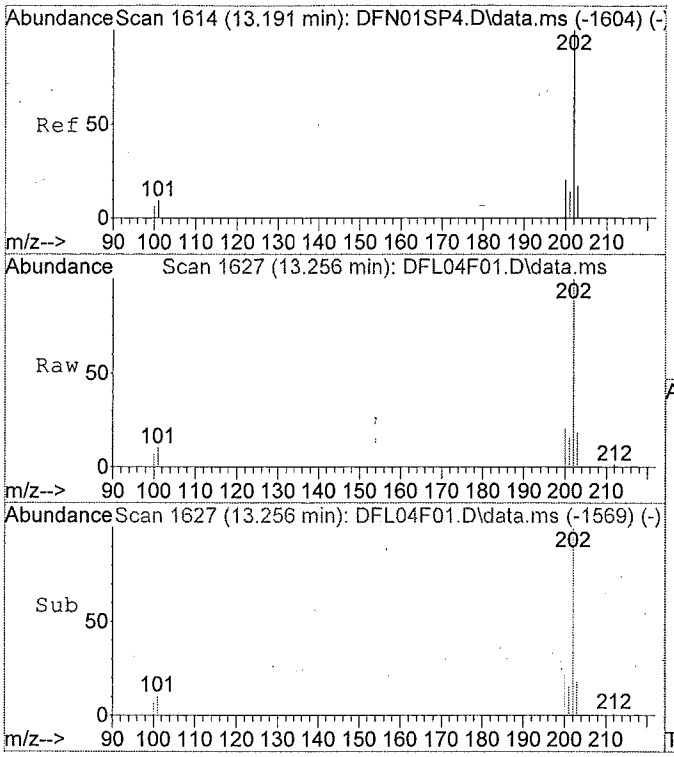


#12
Anthracene
Concen: 0.06 ug/ml
RT: 11.19 min Scan# 1246
Delta R.T. 0.00 min
Lab File: DFL04F01.D
Acq: 07/14/2015 15:45

Tgt Ion:178 Resp: 28646

Ion	Ratio	Lower	Upper
178	100		
179	25.3	11.6	21.6#
176	18.8	13.9	25.7
0	0.0	0.0	0.0

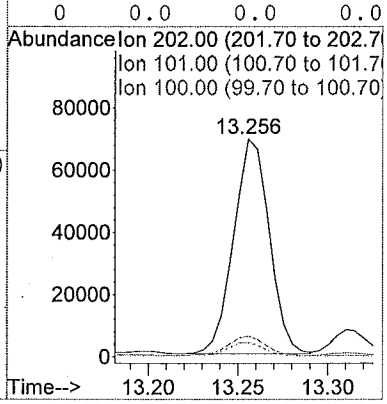


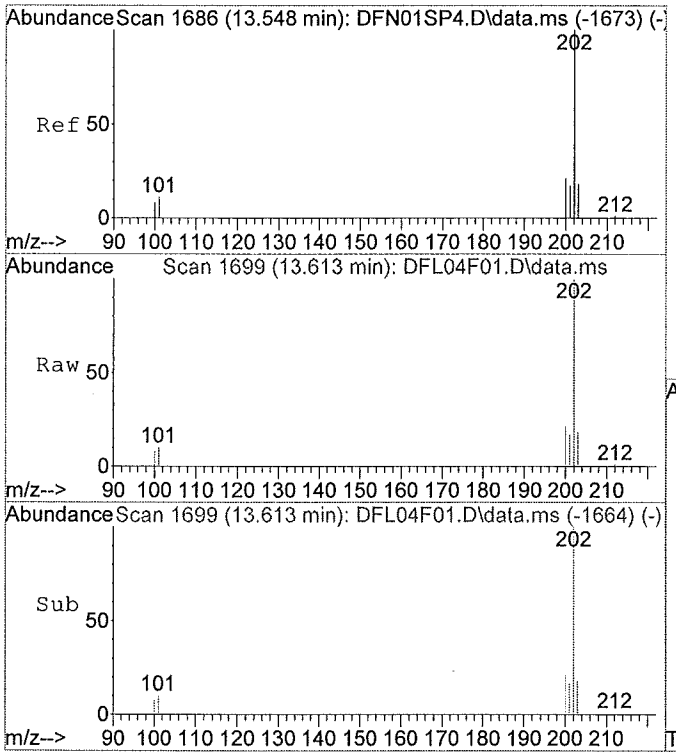


#14
Fluoranthene
Concen: 0.16 ug/ml
RT: 13.26 min Scan# 1627
Delta R.T. 0.00 min
Lab File: DFL04F01.D
Acq: 07/14/2015 15:45

Tgt Ion:202 Resp: 95151

Ion	Ratio	Lower	Upper
202	100		
101	9.2	9.4	17.6#
100	6.5	0.0	0.0#
0	0.0	0.0	0.0

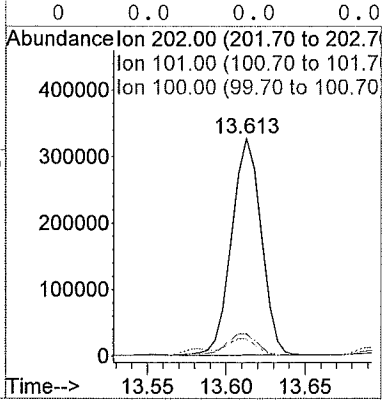


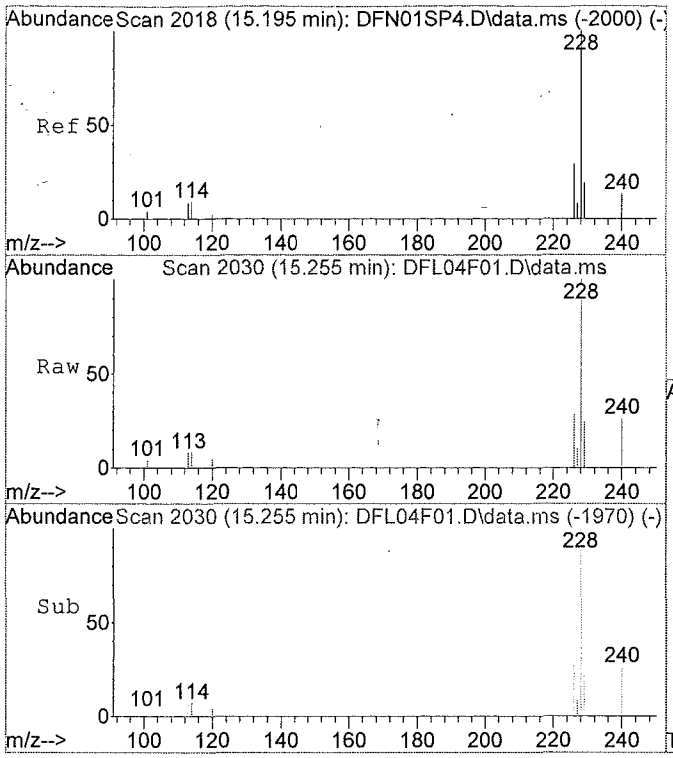


#16
Pyrene
Concen: 0.65 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. 0.00 min
Lab File: DFL04F01.D
Acq: 07/14/2015 15:45

Tgt Ion:202 Resp: 423120

Ion	Ratio	Lower	Upper
202	100		
101	11.3	10.6	19.6
100	8.1	9.4	17.4#
0	0.0	0.0	0.0

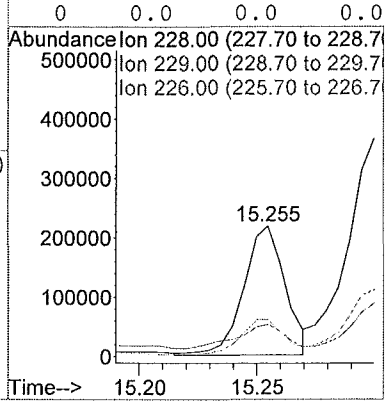


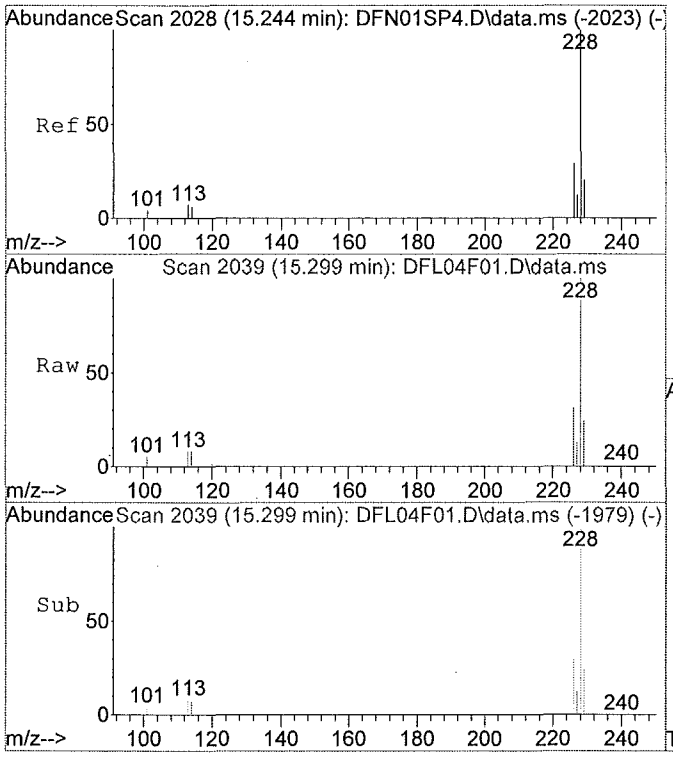


#17
Benzo(a)anthracene
Concen: 0.48 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. 0.00 min
Lab File: DFL04F01.D
Acq: 07/14/2015 15:45

Tgt Ion:228 Resp: 266732

Ion	Ratio	Lower	Upper
228	100		
229	30.8	14.5	26.9#
226	28.4	18.5	34.3
0	0.0	0.0	0.0

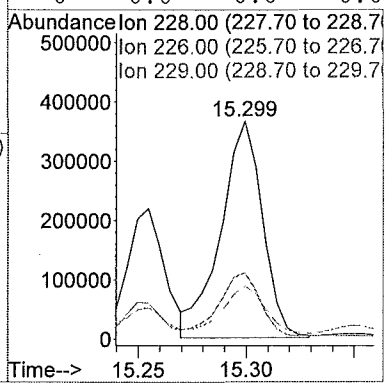


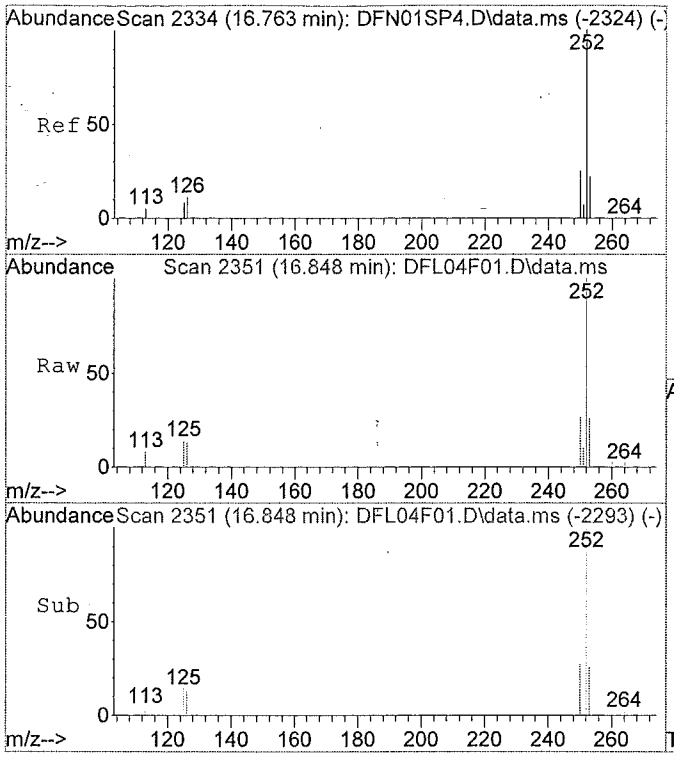


#18
Chrysene
Concen: 0.83 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFL04F01.D
Acq: 07/14/2015 15:45

Tgt Ion:228 Resp: 488652

Ion	Ratio	Lower	Upper
228	100		
226	28.7	19.7	36.7
229	24.7	14.5	26.9
0	0.0	0.0	0.0

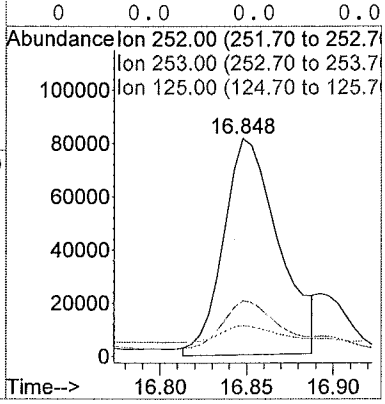


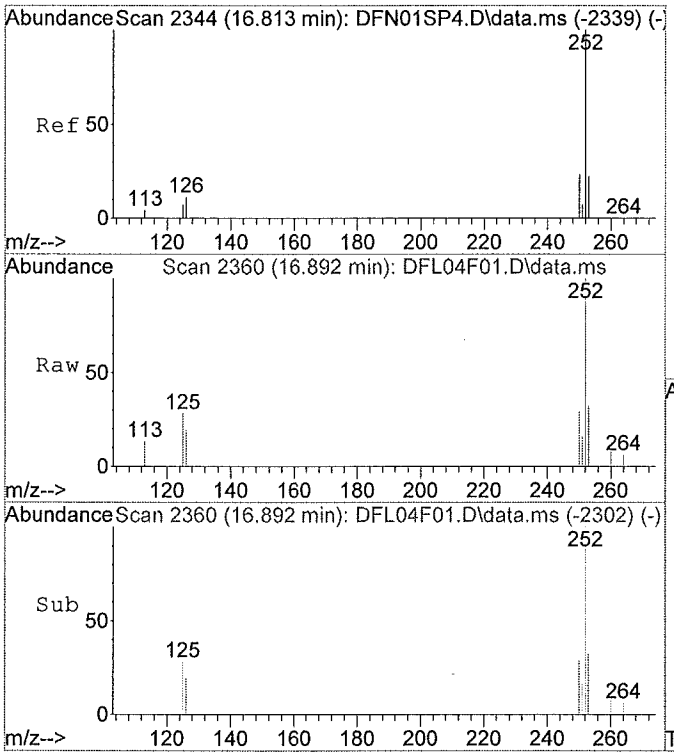


#20
Benzo(b)fluoranthene
Concen: 0.27 ug/ml m
RT: 16.85 min Scan# 2351
Delta R.T. -0.00 min
Lab File: DFL04F01.D
Acq: 07/14/2015 15:45

Tgt Ion:252 Resp: 180801

Ion	Ratio	Lower	Upper
252	100		
253	25.4	15.3	28.3
125	8.0	0.0	0.0#
0	0.0	0.0	0.0

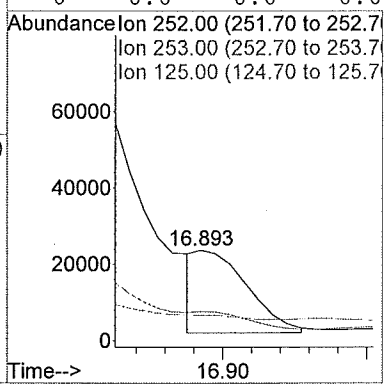


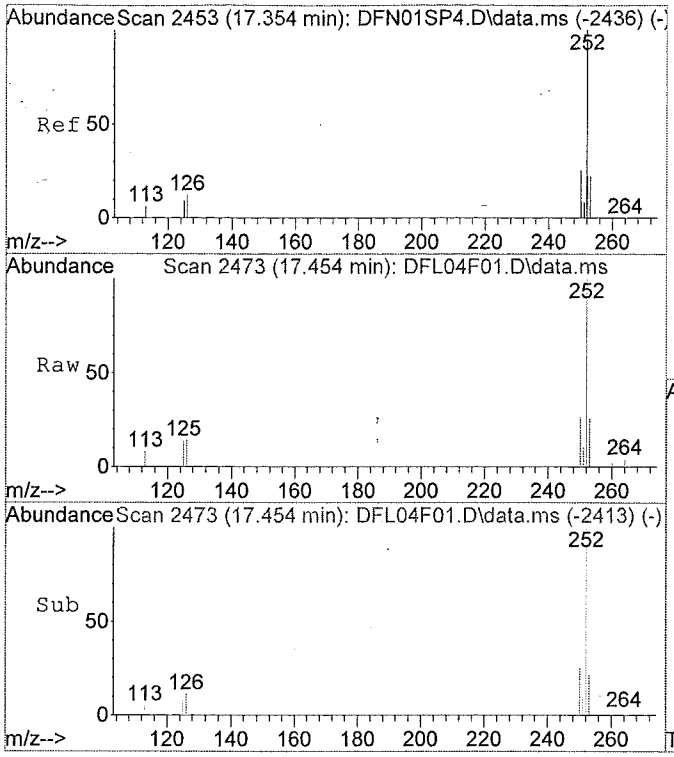


#21
Benzo(k)fluoranthene
Concen: 0.04 ug/ml m
RT: 16.89 min Scan# 2360
Delta R.T. -0.01 min
Lab File: DFL04F01.D
Acq: 07/14/2015 15:45

Tgt Ion:252 Resp: 27043

Ion	Ratio	Lower	Upper
252	100		
253	169.7	15.0	27.8#
125	53.4	0.0	0.0#
0	0.0	0.0	0.0

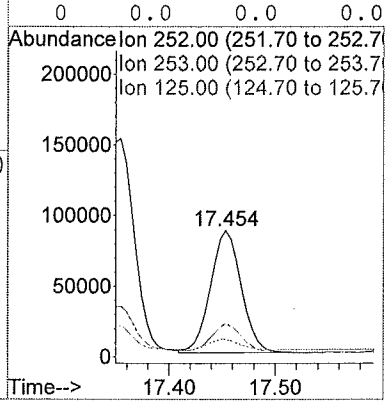


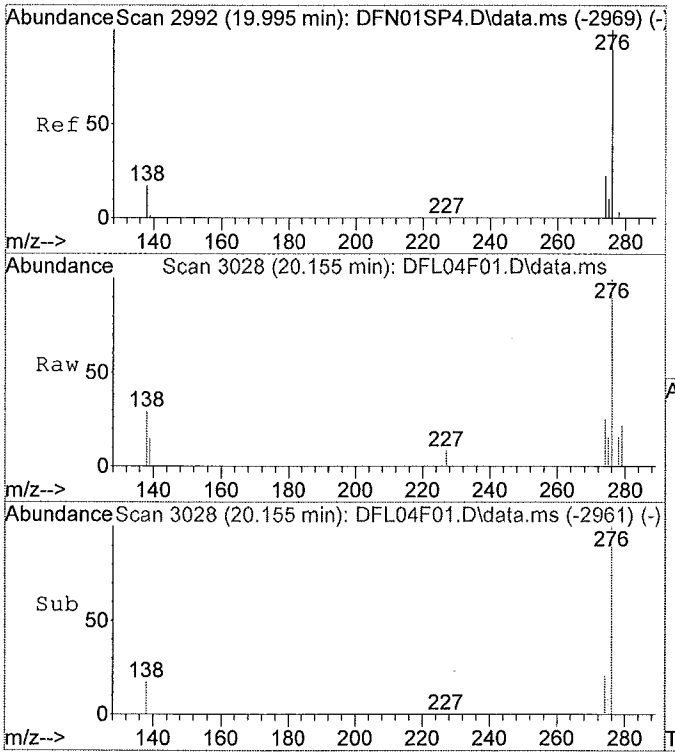


#22
Benzo(a)pyrene
Concen: 0.28 ug/ml
RT: 17.45 min Scan# 2473
Delta R.T. 0.00 min
Lab File: DFL04F01.D
Acq: 07/14/2015 15:45

Tgt Ion:252 Resp: 174276

Ion	Ratio	Lower	Upper
252	100		
253	24.0	15.0	27.8
125	8.5	0.0	0.0#
0	0.0	0.0	0.0

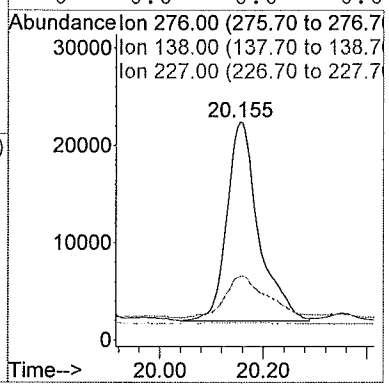


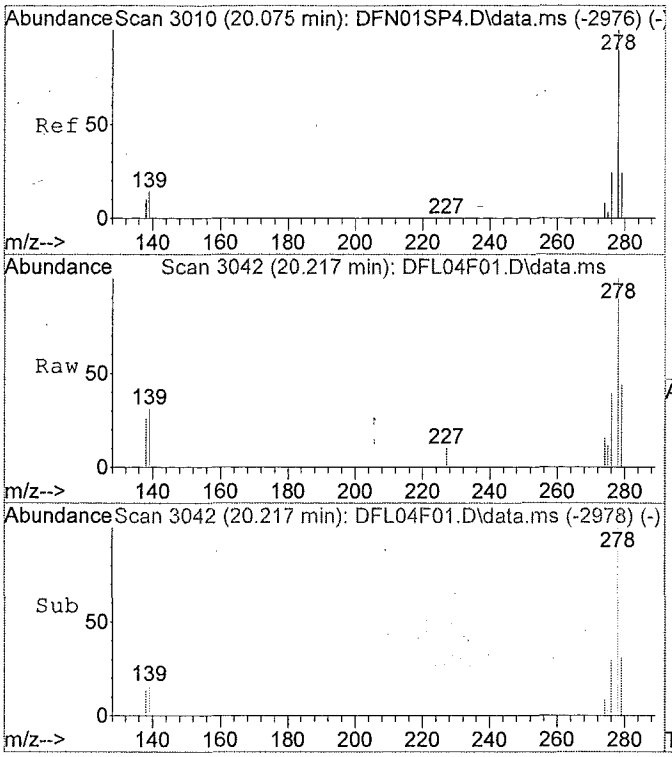


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.16 ug/ml
RT: 20.15 min Scan# 3028
Delta R.T. 0.00 min
Lab File: DFL04F01.D
Acq: 07/14/2015 15:45

Tgt Ion:276 Resp: 86234

Ion	Ratio	Lower	Upper
276	100		
138	28.5	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

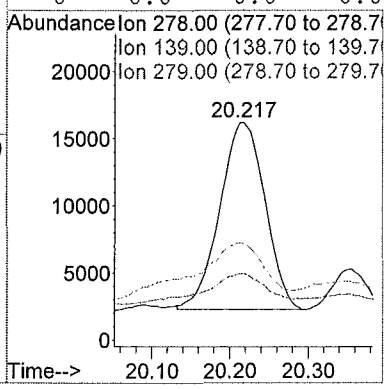


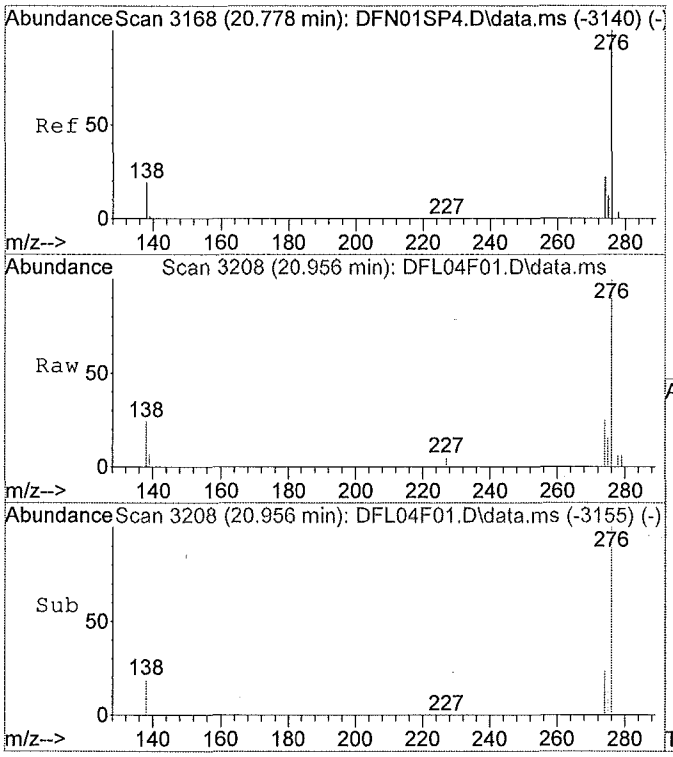


#24
Dibenzo(a,h)anthracene
Concen: 0.09 ug/ml
RT: 20.22 min Scan# 3042
Delta R.T. -0.01 min
Lab File: DFL04F01.D
Acq: 07/14/2015 15:45

Tgt Ion:278 Resp: 55581

Ion	Ratio	Lower	Upper
278	100		
139	24.0	0.0	0.0#
279	53.1	15.8	29.3#
0	0.0	0.0	0.0

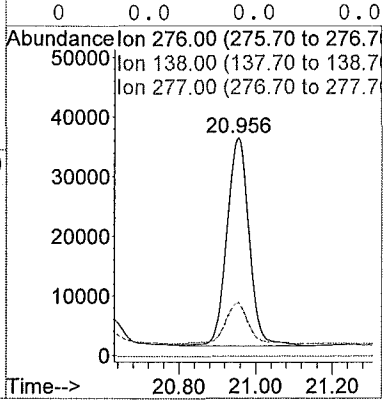




#25
Benzo(g,h,i)perylene
Concen: 0.22 ug/ml
RT: 20.96 min Scan# 3208
Delta R.T. 0.00 min
Lab File: DFL04F01.D
Acq: 07/14/2015 15:45

Tgt Ion:276 Resp: 139109

Ion	Ratio	Lower	Upper
276	100		
138	17.7	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.

F9L99

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375004

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL05F04

Extraction: (Type) SONC

% Moisture: 18. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/14/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 40.0

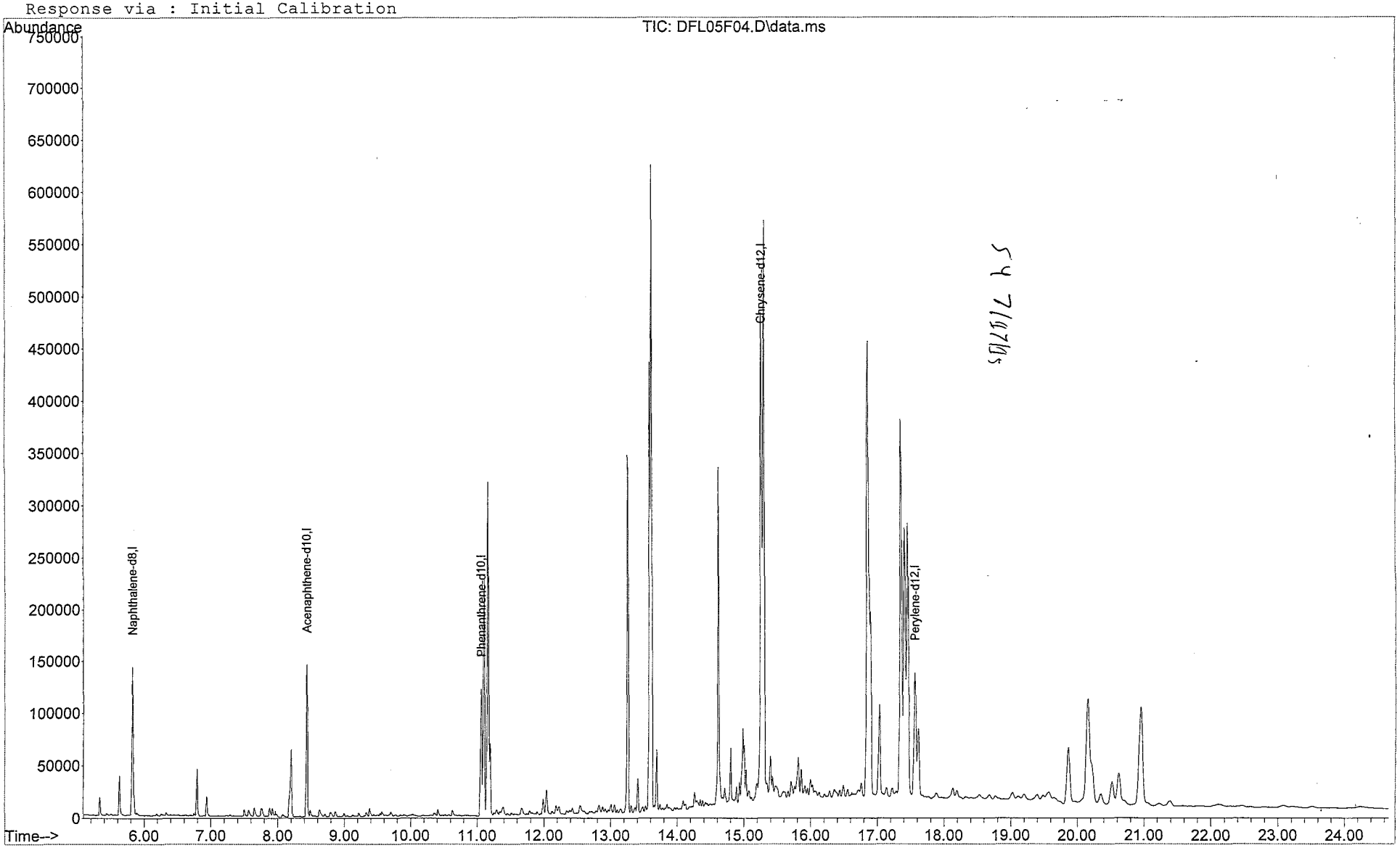
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	52.	J
91-57-6	2-Methylnaphthalene	130	J
208-96-8	Acenaphthylene	230	
83-32-9	Acenaphthene	160	U
86-73-7	Fluorene	160	U
87-86-5	Pentachlorophenol	320	U
85-01-8	Phenanthrene	810	
120-12-7	Anthracene	250	
206-44-0	Fluoranthene	810	
129-00-0	Pyrene	1200	
56-55-3	Benzo(a)anthracene	880	
218-01-9	Chrysene	1300	
205-99-2	Benzo(b)fluoranthene	1500	
207-08-9	Benzo(k)fluoranthene	380	
50-32-8	Benzo(a)pyrene	810	
193-39-5	Indeno(1,2,3-cd)pyrene	770	
53-70-3	Dibenzo(a,h)anthracene	200	
191-24-2	Benzo(g,h,i)perylene	660	

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL05F04.D Vial: 5
Acq On : 07/14/2015 16:15 Operator: DJC
Sample : 1515375004 F9L99 (40) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 11:54:24 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL05F04.D Vial: 5
Acq On : 07/14/2015 16:15 Operator: DJC
Sample : 1515375004 F9L99 (40) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 11:54:24 2015 Results File: DSOM_SIMJ2.RES

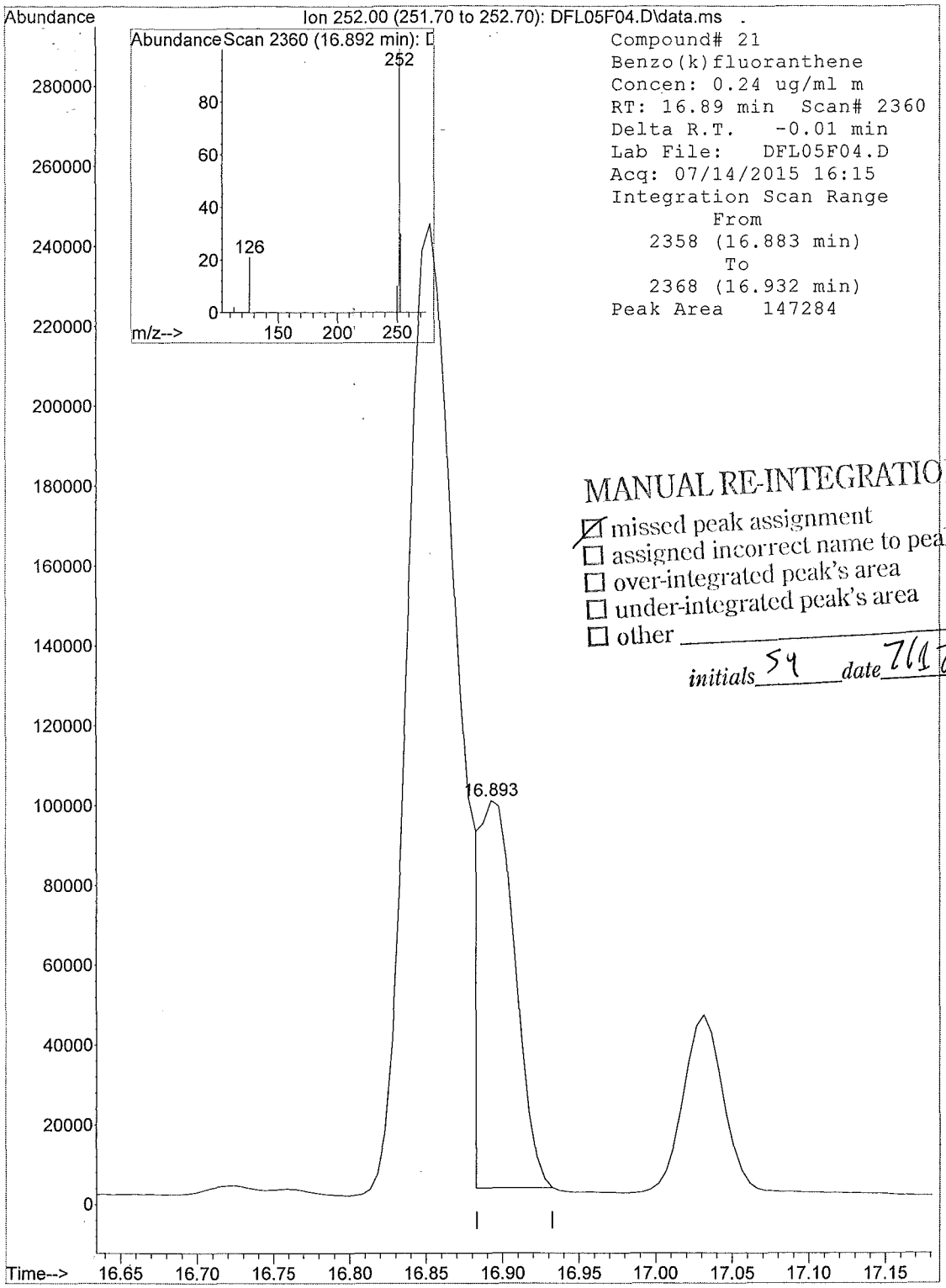
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	153151	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	96010	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	166086	0.40 ug/ml	
15) Chrysene-d12	15.27	240	191989	0.40 ug/ml	
19) Perylene-d12	17.56	264	193623	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	2663	0.011ug/mL	
13) Fluoranthene-d10	13.23	212	6219	0.014ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.85	128	12812	0.032ug/ml	94
4) 2-Methylnaphthalene	6.80	142	21203	0.082ug/ml	100
6) Acenaphthylene	8.20	152	58738	0.140ug/ml	97
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.10	178	241017	0.504ug/ml	99
12) Anthracene	11.19	178	72024	0.155ug/ml	97
14) Fluoranthene	13.26	202	272466	0.501ug/ml	89
16) Pyrene	13.61	202	454585	0.755ug/ml	90
17) Benzo(a)anthracene	15.25	228	278313	0.544ug/ml	82
18) Chrysene	15.30	228	427722	0.791ug/ml	95
20) Benzo(b)fluoranthene	16.85	252	554296	0.918ug/ml	99
21) Benzo(k)fluoranthene	16.89	252	147284	0.236ug/ml m	98
22) Benzo(a)pyrene	17.45	252	289316	0.502ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.15	276	239626	0.475ug/ml	100
24) Dibenzo(a,h)anthracene	20.22	278	70828	0.127ug/ml	91
25) Benzo(g,h,i)perylene	20.95	276	232130	0.409ug/ml	71

SY 7/17/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

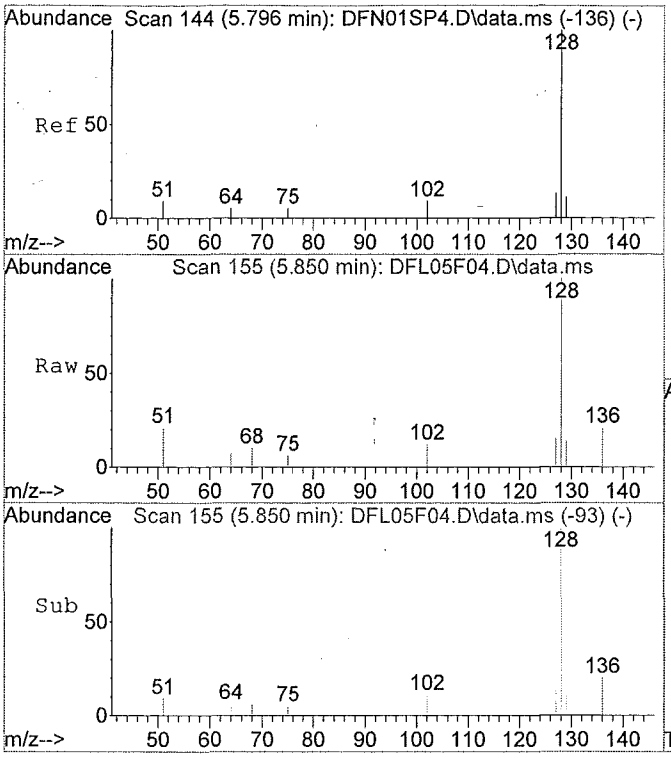
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☒ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

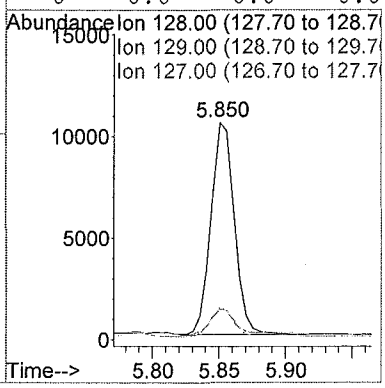
initials SY *date* 7/17/15

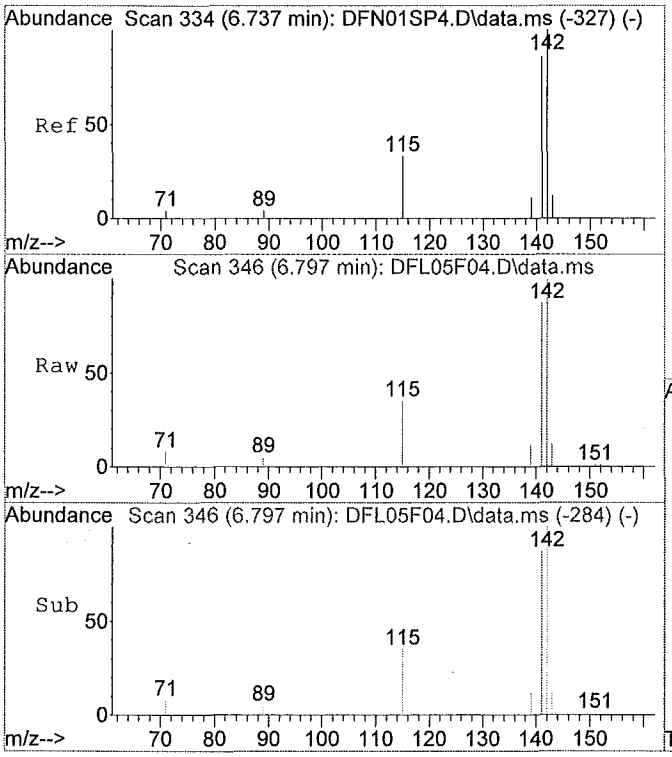


#2
Naphthalene
Concen: 0.03 ug/ml
RT: 5.85 min Scan# 155
Delta R.T. 0.01 min
Lab File: DFL05F04.D
Acq: 07/14/2015 16:15

Tgt Ion:128 Resp: 12812

Ion	Ratio	Lower	Upper
128	100		
129	11.8	0.0	0.0#
127	13.2	11.1	20.5
0	0.0	0.0	0.0

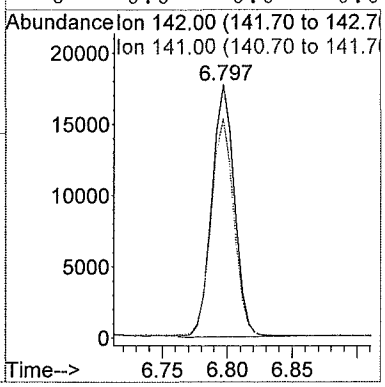


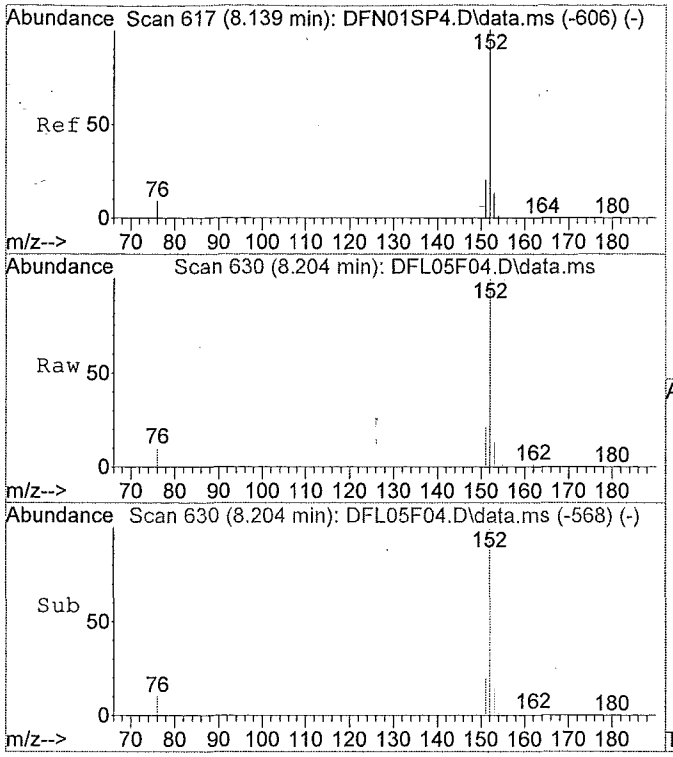


#4
2-Methylnaphthalene
Concen: 0.08 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.01 min
Lab File: DFL05F04.D
Acq: 07/14/2015 16:15

Tgt Ion:142 Resp: 21203

Ion	Ratio	Lower	Upper
142	100		
141	87.0	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

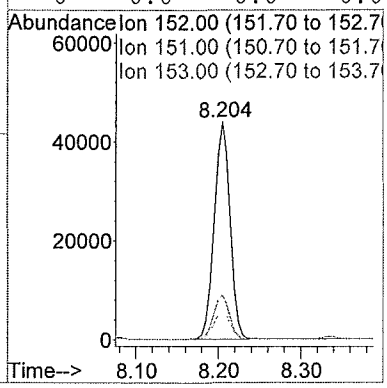


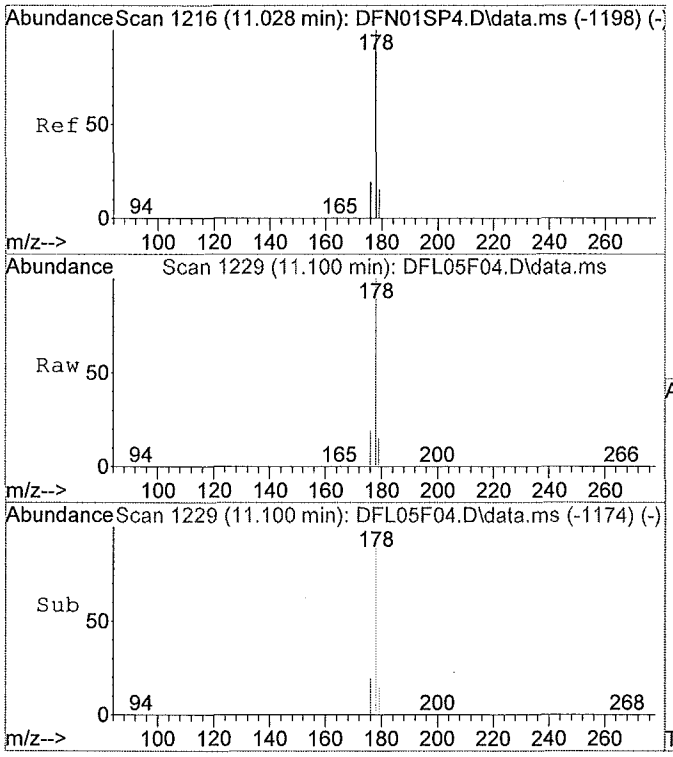


#6
Acenaphthylene
Concen: 0.14 ug/ml
RT: 8.20 min Scan# 630
Delta R.T. 0.01 min
Lab File: DFL05F04.D
Acq: 07/14/2015 16:15

Tgt Ion:152 Resp: 58738

Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.5	28.7
153	13.7	8.8	16.4
0	0.0	0.0	0.0

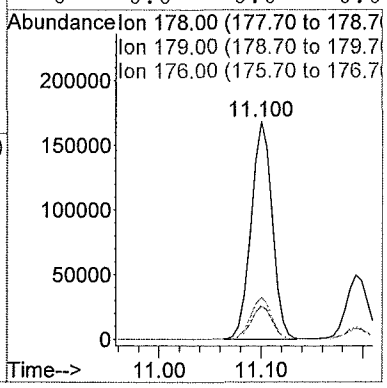


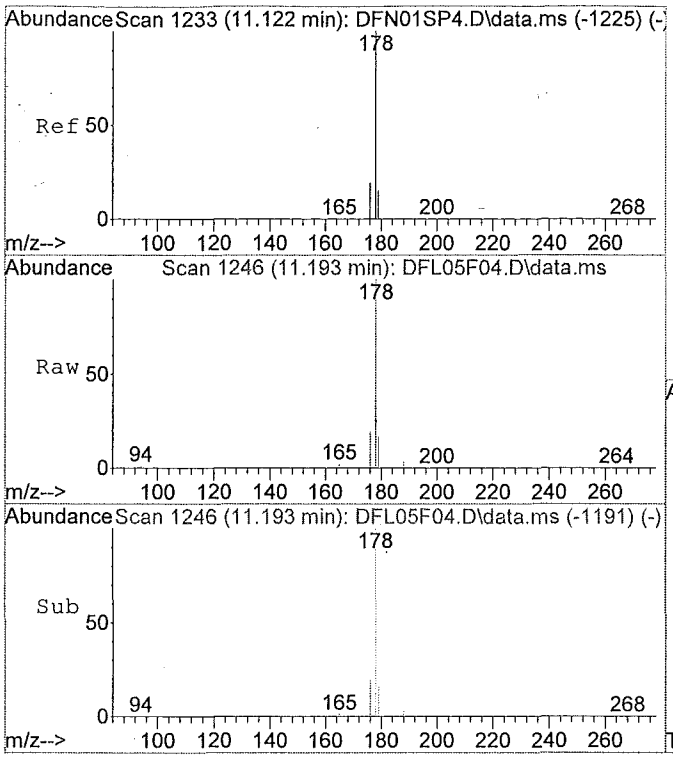


#11
Phenanthrene
Concen: 0.50 ug/ml
RT: 11.10 min Scan# 1229
Delta R.T. 0.00 min
Lab File: DFL05F04.D
Acq: 07/14/2015 16:15

Tgt Ion:178 Resp: 241017

Ion	Ratio	Lower	Upper
178	100		
179	15.4	11.1	20.5
176	19.2	14.1	26.1
0	0.0	0.0	0.0

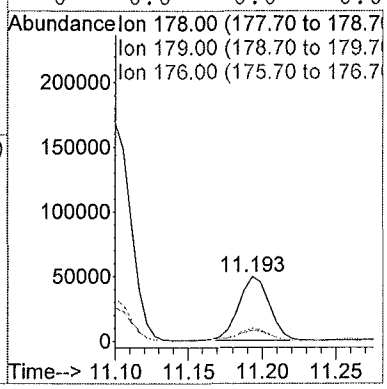


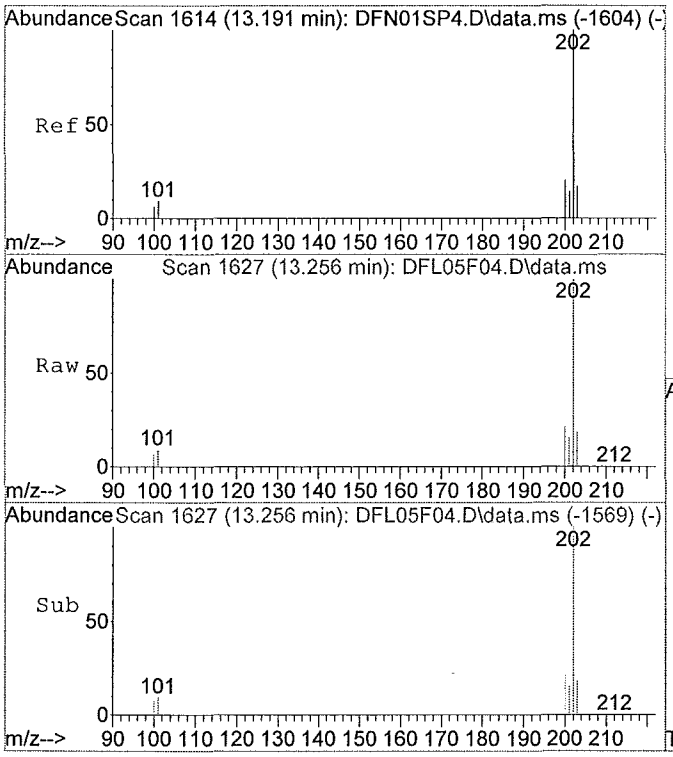


#12
Anthracene
Concen: 0.15 ug/ml
RT: 11.19 min Scan# 1246
Delta R.T. 0.00 min
Lab File: DFL05F04.D
Acq: 07/14/2015 16:15

Tgt Ion:178 Resp: 72024

Ion	Ratio	Lower	Upper
178	100		
179	17.7	11.6	21.6
176	18.5	13.9	25.7
0	0.0	0.0	0.0

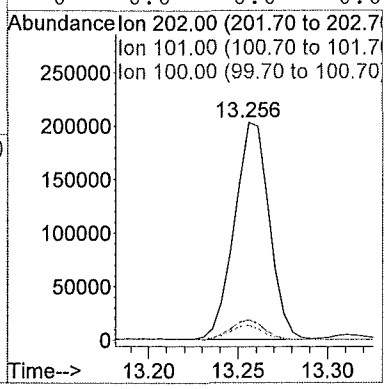


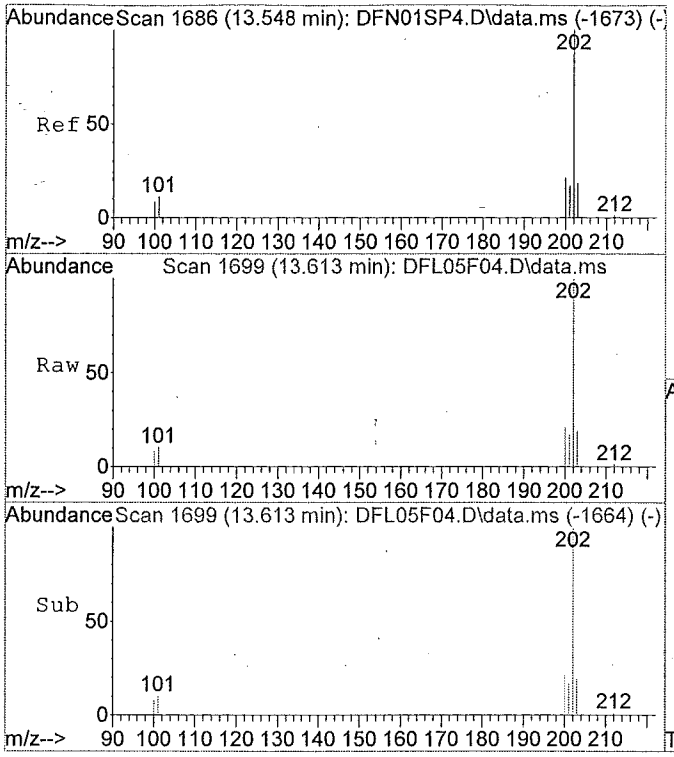


#14
Fluoranthene
Concen: 0.50 ug/ml
RT: 13.26 min Scan# 1627
Delta R.T. 0.00 min
Lab File: DFL05F04.D
Acq: 07/14/2015 16:15

Tgt Ion:202 Resp: 272466

Ion	Ratio	Lower	Upper
202	100		
101	8.9	9.4	17.6#
100	6.6	0.0	0.0#
0	0.0	0.0	0.0

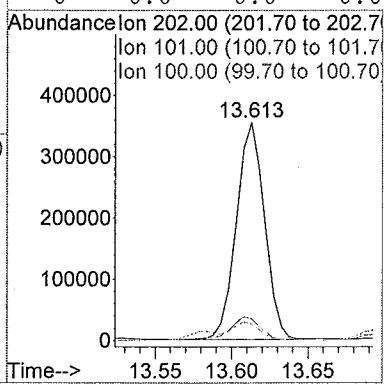


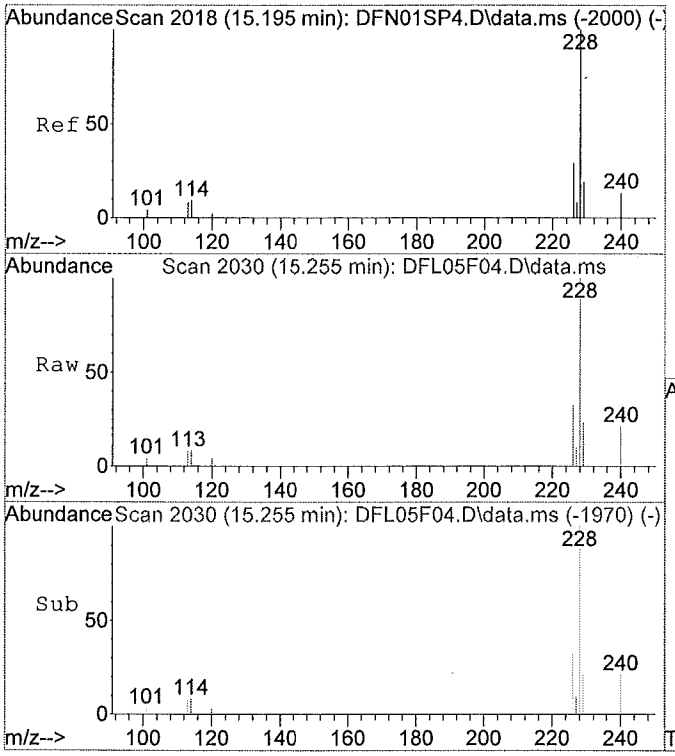


#16
Pyrene
Concen: 0.75 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. 0.00 min
Lab File: DFL05F04.D
Acq: 07/14/2015 16:15

Tgt Ion:202 Resp: 454585

Ion	Ratio	Lower	Upper
202	100		
101	11.8	10.6	19.6
100	8.3	9.4	17.4#
0	0.0	0.0	0.0

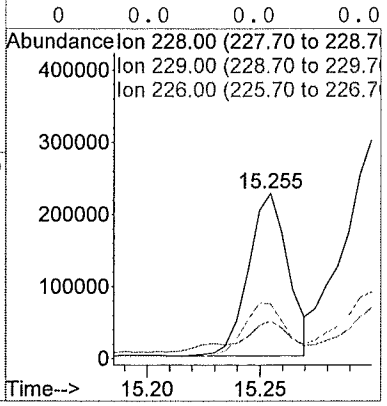


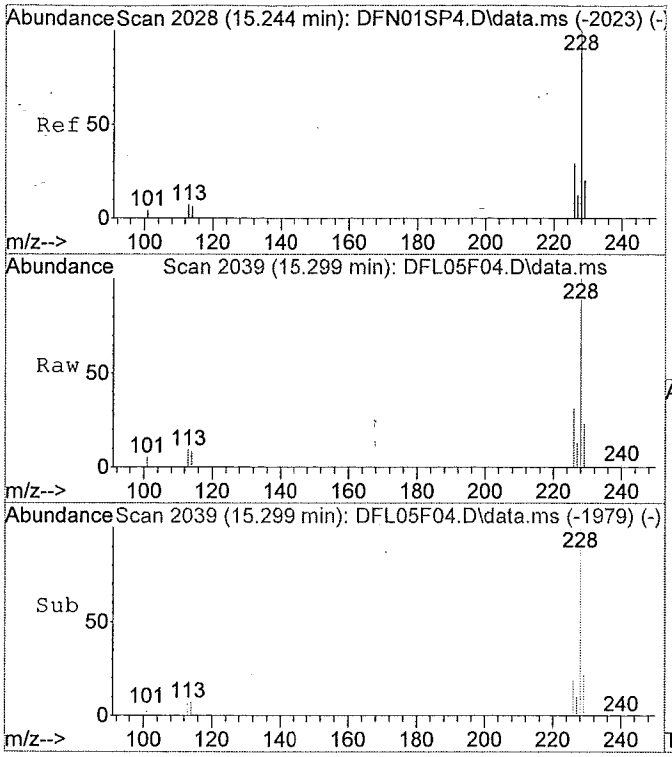


#17
Benzo(a)anthracene
Concen: 0.54 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. 0.00 min
Lab File: DFL05F04.D
Acq: 07/14/2015 16:15

Tgt Ion:228 Resp: 278313

Ion	Ratio	Lower	Upper
228	100		
229	29.8	14.5	26.9#
226	35.2	18.5	34.3#
0	0.0	0.0	0.0

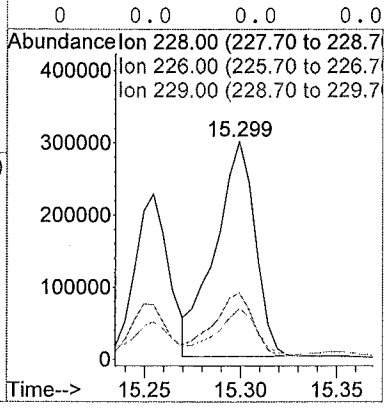


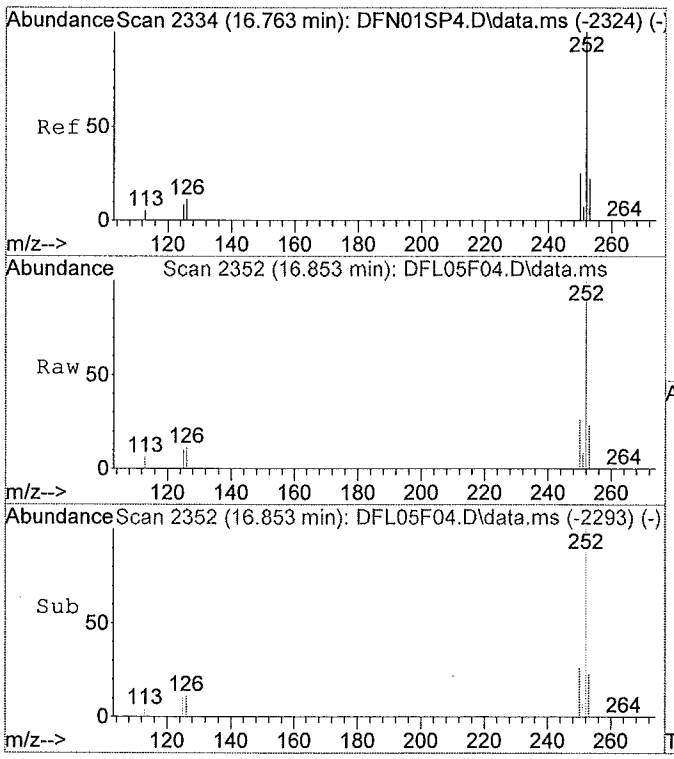


#18
Chrysene
Concen: 0.79 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFL05F04.D
Acq: 07/14/2015 16:15

Tgt Ion:228 Resp: 427722

Ion	Ratio	Lower	Upper
228	100		
226	31.6	19.7	36.7
229	22.6	14.5	26.9
0	0.0	0.0	0.0

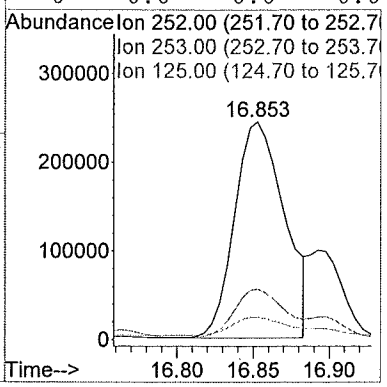


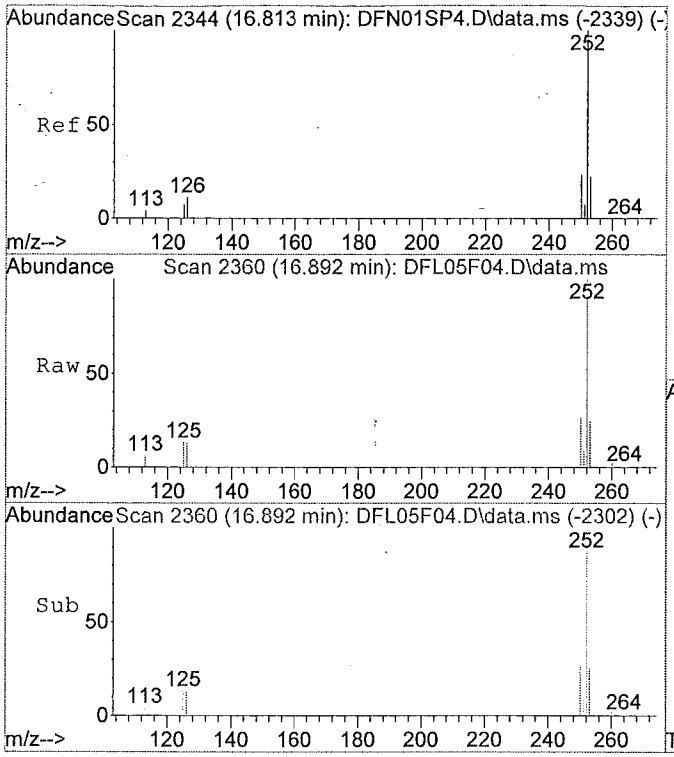


#20
Benzo(b)fluoranthene
Concen: 0.92 ug/ml
RT: 16.85 min Scan# 2352
Delta R.T. 0.00 min
Lab File: DFL05F04.D
Acq: 07/14/2015 16:15

Tgt Ion:252 Resp: 554296

Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.3	28.3
125	11.2	0.0	0.0#
0	0.0	0.0	0.0

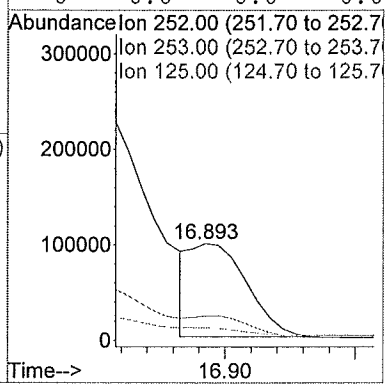


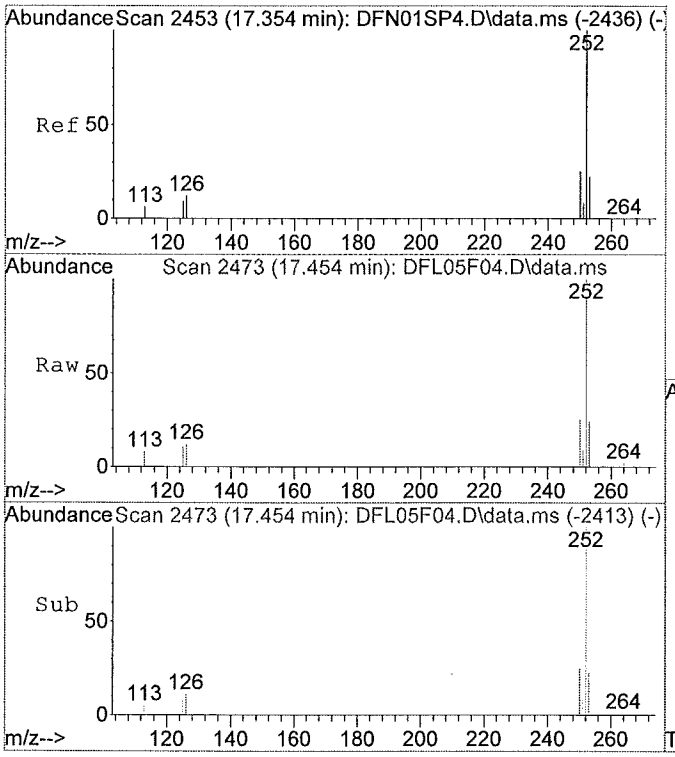


#21
Benzo(k)fluoranthene
Concen: 0.24 ug/ml m
RT: 16.89 min Scan# 2360
Delta R.T. -0.01 min
Lab File: DFL05F04.D
Acq: 07/14/2015 16:15

Tgt Ion:252 Resp: 147284

Ion	Ratio	Lower	Upper
252	100		
253	84.0	15.0	27.8#
125	42.1	0.0	0.0#
0	0.0	0.0	0.0

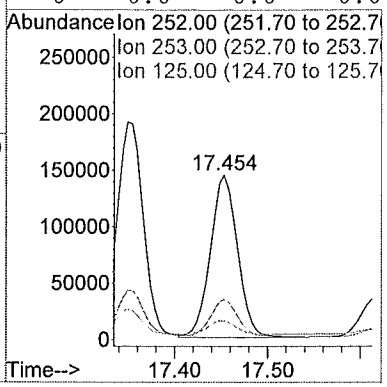


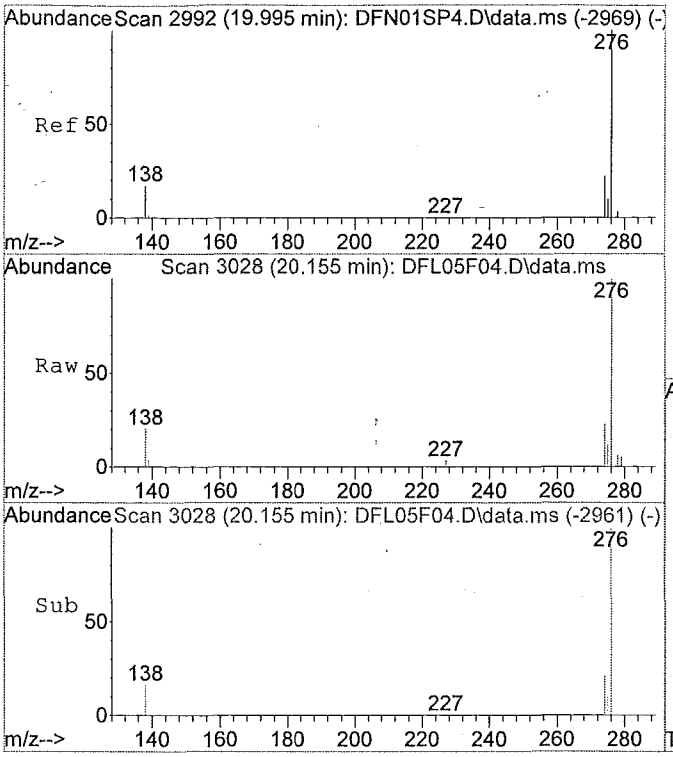


#22
Benzo(a)pyrene
Concen: 0.50 ug/ml
RT: 17.45 min Scan# 2473
Delta R.T. 0.00 min
Lab File: DFL05F04.D
Acq: 07/14/2015 16:15

Tgt Ion:252 Resp: 289316

Ion	Ratio	Lower	Upper
252	100		
253	23.3	15.0	27.8
125	8.2	0.0	0.0#
0	0.0	0.0	0.0

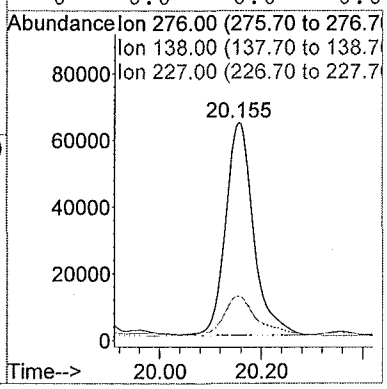


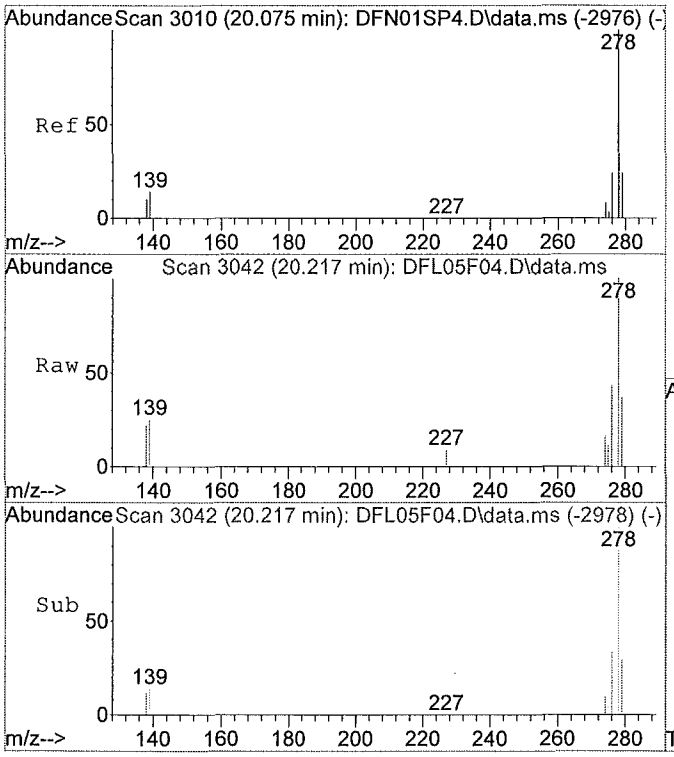


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.47 ug/ml
RT: 20.15 min Scan# 3028
Delta R.T. 0.00 min
Lab File: DFL05F04.D
Acq: 07/14/2015 16:15

Tgt Ion:276 Resp: 239626

Ion	Ratio	Lower	Upper
276	100		
138	20.0	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

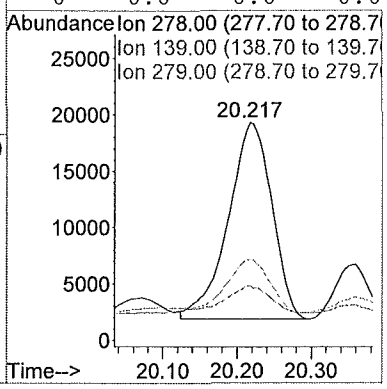


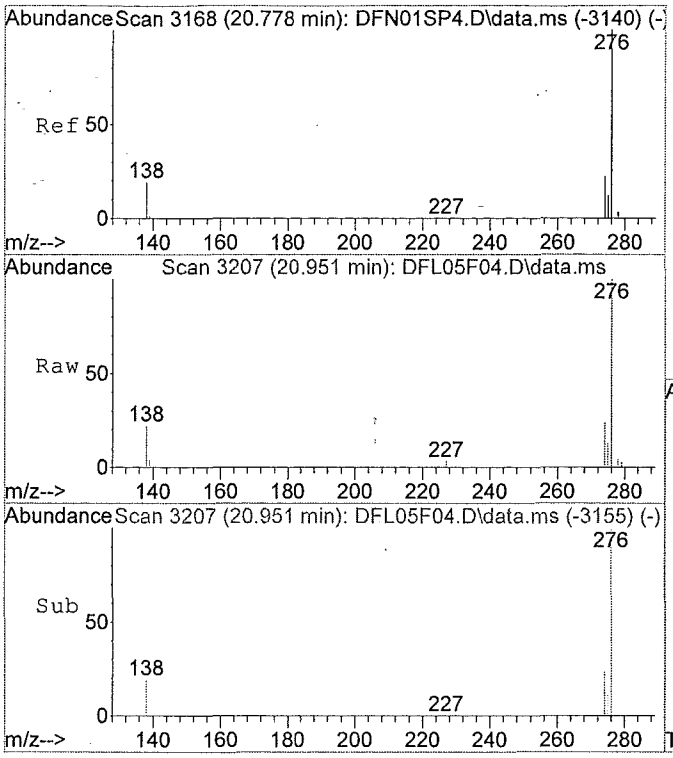


#24
Dibenzo(a,h)anthracene
Concen: 0.13 ug/ml
RT: 20.22 min Scan# 3042
Delta R.T. -0.01 min
Lab File: DFL05F04.D
Acq: 07/14/2015 16:15

Tgt Ion:278 Resp: 70828

Ion	Ratio	Lower	Upper
278	100		
139	14.6	0.0	0.0#
279	26.8	15.8	29.3
0	0.0	0.0	0.0

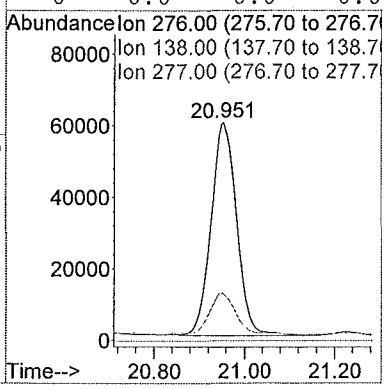




#25
Benzo(g,h,i)perylene
Concen: 0.41 ug/ml
RT: 20.95 min Scan# 3207
Delta R.T. 0.00 min
Lab File: DFL05F04.D
Acq: 07/14/2015 16:15

Tgt Ion:276 Resp: 232130

Ion	Ratio	Lower	Upper
276	100		
138	18.6	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.

F9M00

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375005

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFL06F05

Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/14/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 50.0

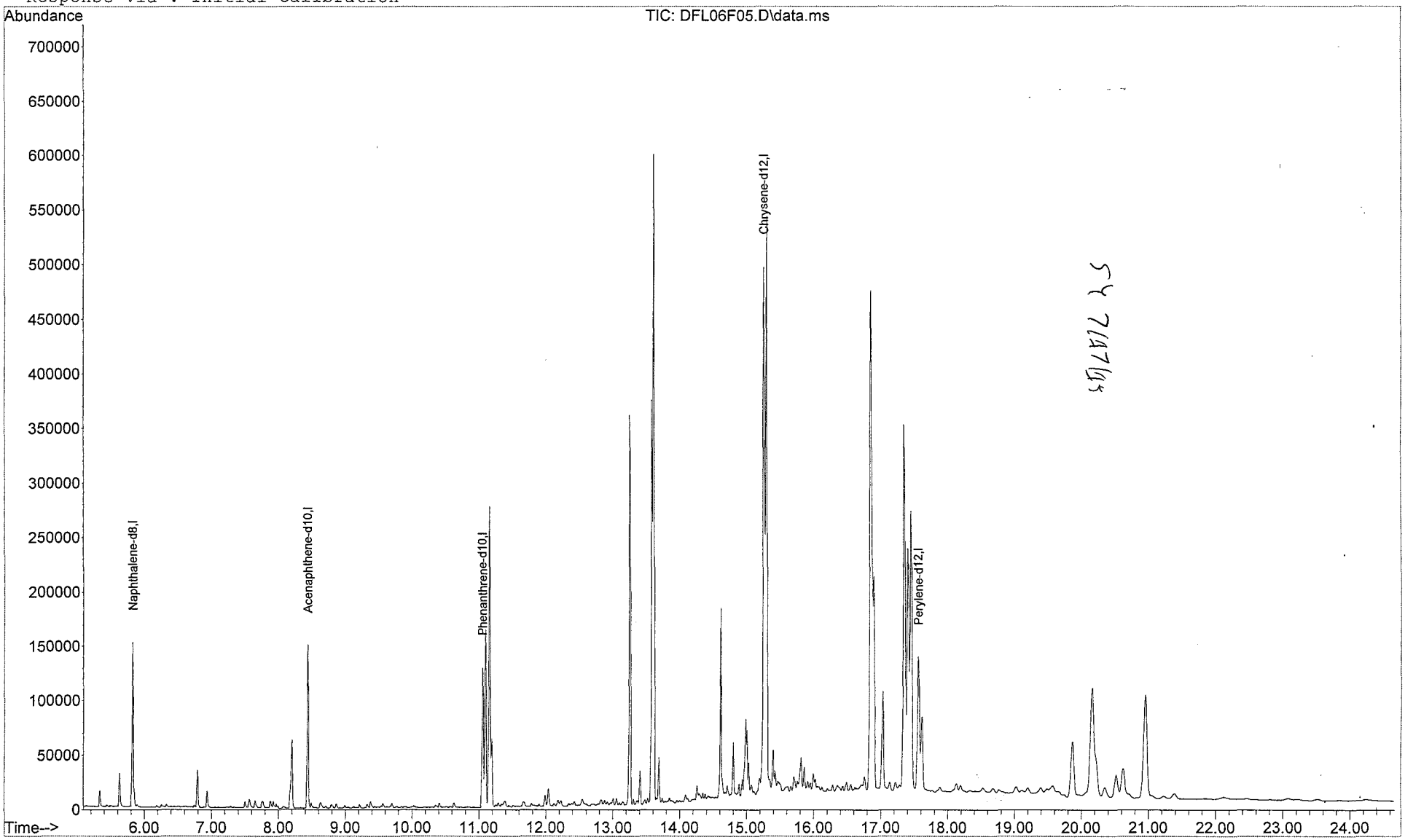
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	51.	J
91-57-6	2-Methylnaphthalene	130	J
208-96-8	Acenaphthylene	270	
83-32-9	Acenaphthene	200	U
86-73-7	Fluorene	200	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	720	
120-12-7	Anthracene	280	
206-44-0	Fluoranthene	1000	
129-00-0	Pyrene	1400	
56-55-3	Benzo(a)anthracene	1100	
218-01-9	Chrysene	1500	
205-99-2	Benzo(b)fluoranthene	1800	
207-08-9	Benzo(k)fluoranthene	530	
50-32-8	Benzo(a)pyrene	980	
193-39-5	Indeno(1,2,3-cd)pyrene	940	
53-70-3	Dibenzo(a,h)anthracene	240	
191-24-2	Benzo(g,h,i)perylene	770	

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL06F05.D Vial: 6
Acq On : 07/14/2015 16:45 Operator: DJC
Sample : 1515375005 F9M00 (50) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 11:54:46 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



SY 7/17/15

Quantitation Report

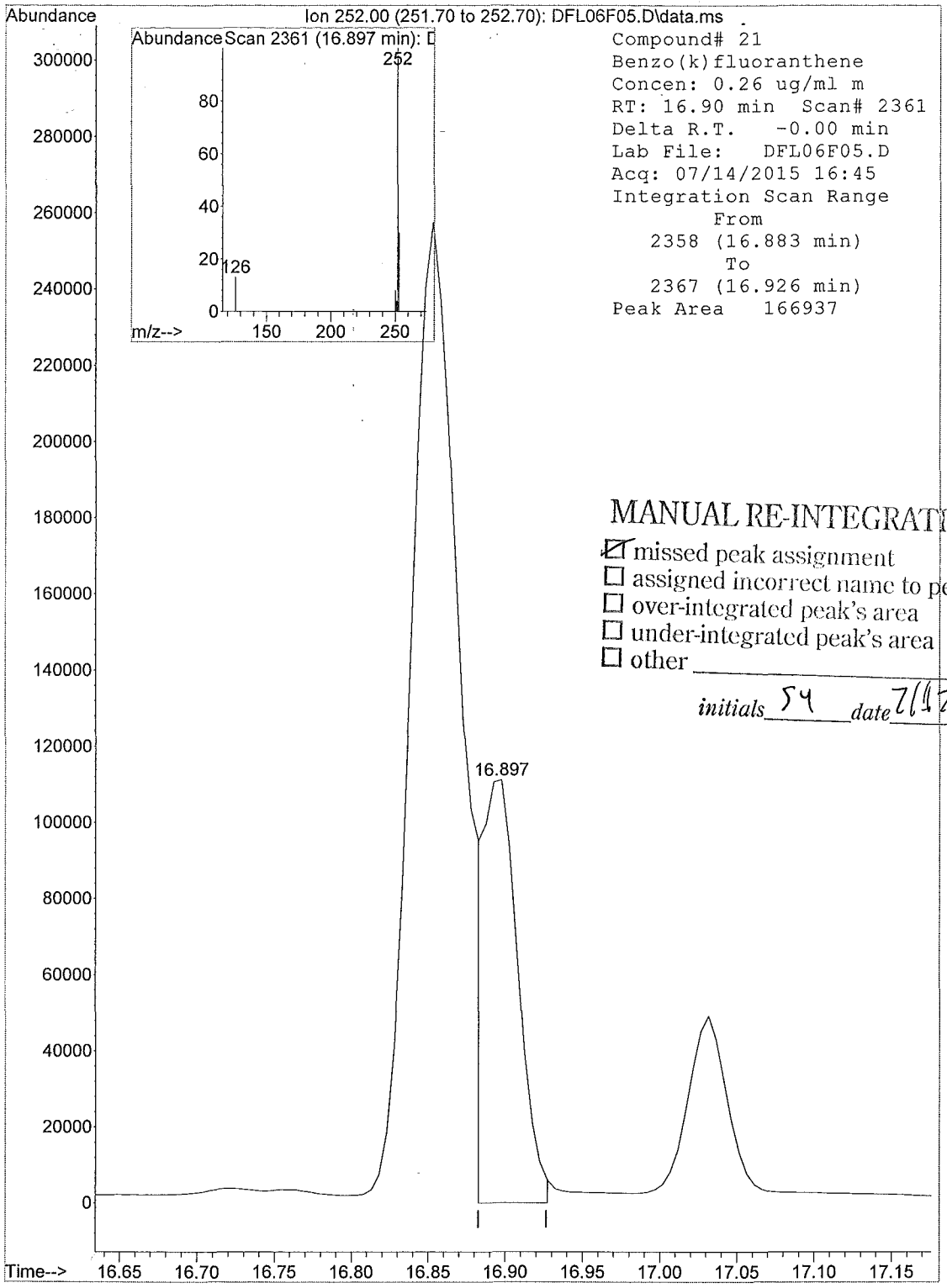
Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL06F05.D Vial: 6
Acq On : 07/14/2015 16:45 Operator: DJC
Sample : 1515375005 F9M00 (50) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 11:54:46 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	159871	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	99627	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	173135	0.40 ug/ml	
15) Chrysene-d12	15.26	240	198365	0.40 ug/ml	
19) Perylene-d12	17.56	264	200430	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	2382	0.009ug/mL	
13) Fluoranthene-d10	13.23	212	5321	0.011ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.85	128	10470	0.025ug/ml	95
4) 2-Methylnaphthalene	6.80	142	16493	0.061ug/ml	99
6) Acenaphthylene	8.20	152	58144	0.133ug/ml	96
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.10	178	176640	0.354ug/ml	98
12) Anthracene	11.19	178	66523	0.137ug/ml	98
14) Fluoranthene	13.26	202	290444	0.512ug/ml	89
16) Pyrene	13.61	202	430515	0.692ug/ml	90
17) Benzo(a)anthracene	15.25	228	278463	0.526ug/ml	83
18) Chrysene	15.30	228	409157	0.732ug/ml	94
20) Benzo(b)fluoranthene	16.85	252	561566	0.899ug/ml	99
21) Benzo(k)fluoranthene	16.90	252	166937	0.258ug/ml m SY	98
22) Benzo(a)pyrene	17.45	252	287504	0.482ug/ml 7/17/15	96
23) Indeno(1,2,3-c,d)pyrene	20.16	276	240588	0.460ug/ml	100
24) Dibenzo(a,h)anthracene	20.22	278	67175	0.116ug/ml	91
25) Benzo(g,h,i)perylene	20.95	276	222722	0.379ug/ml	72

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

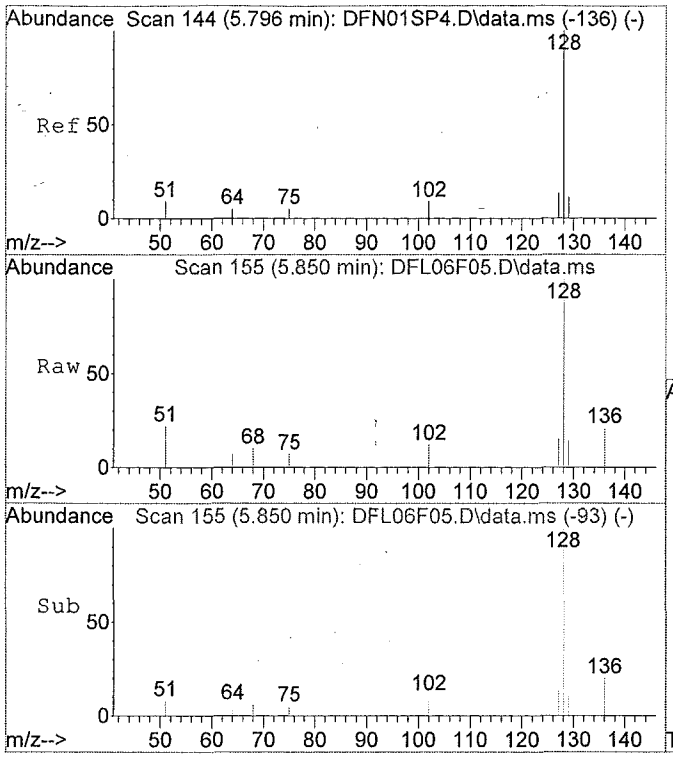
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- [x] missed peak assignment
- [ ] assigned incorrect name to peak
- [ ] over-integrated peak's area
- [ ] under-integrated peak's area
- [ ] other _____

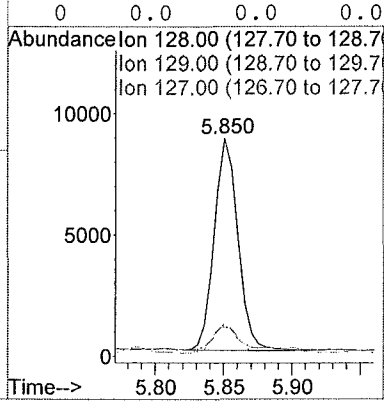
initials SY *date* 7/17/15

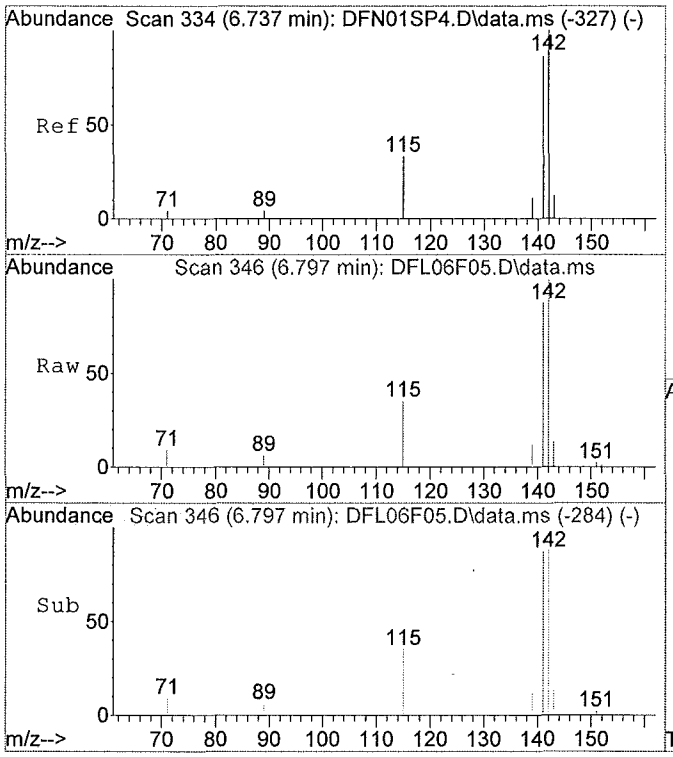


#2
Naphthalene
Concen: 0.03 ug/ml
RT: 5.85 min Scan# 155
Delta R.T. 0.01 min
Lab File: DFL06F05.D
Acq: 07/14/2015 16:45

Tgt Ion:128 Resp: 10470

Ion	Ratio	Lower	Upper
128	100		
129	11.8	0.0	0.0#
127	13.6	11.1	20.5
0	0.0	0.0	0.0

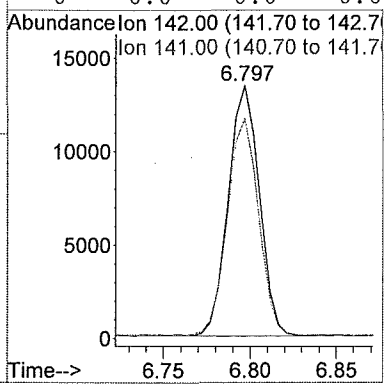


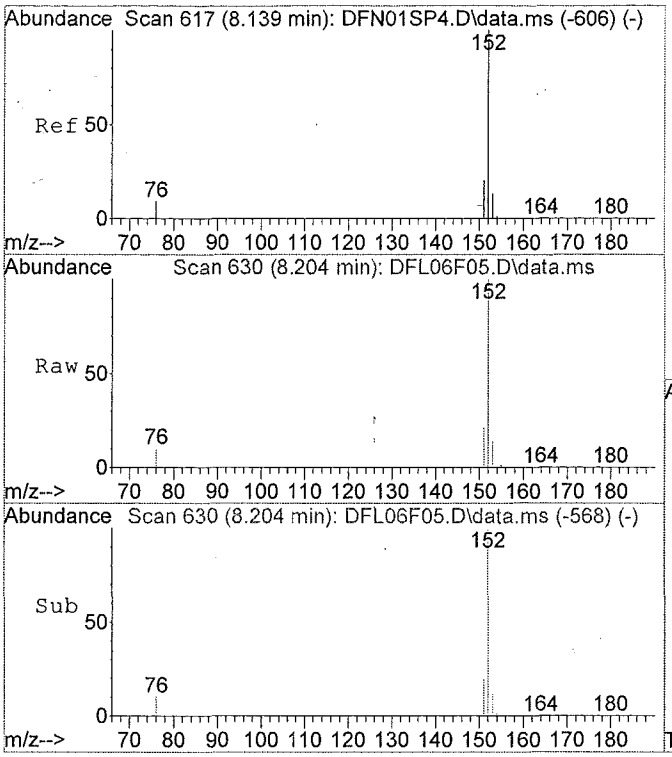


#4
2-Methylnaphthalene
Concen: 0.06 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.01 min
Lab File: DFL06F05.D
Acq: 07/14/2015 16:45

Tgt Ion:142 Resp: 16493

Ion	Ratio	Lower	Upper
142	100		
141	88.4	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

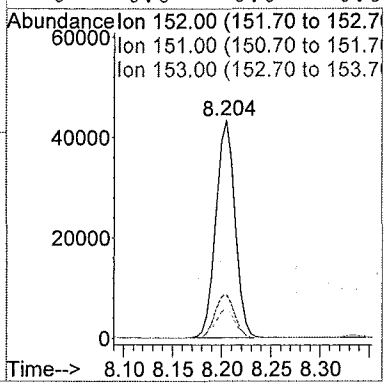


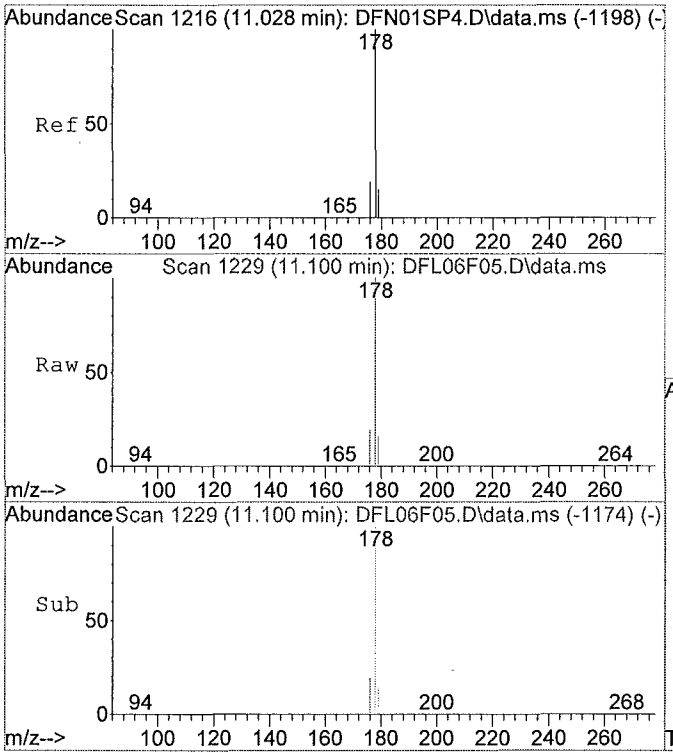


#6
Acenaphthylene
Concen: 0.13 ug/ml
RT: 8.20 min Scan# 630
Delta R.T. 0.01 min
Lab File: DFL06F05.D
Acq: 07/14/2015 16:45

Tgt Ion:152 Resp: 58144

Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.5	28.7
153	13.9	8.8	16.4
0	0.0	0.0	0.0

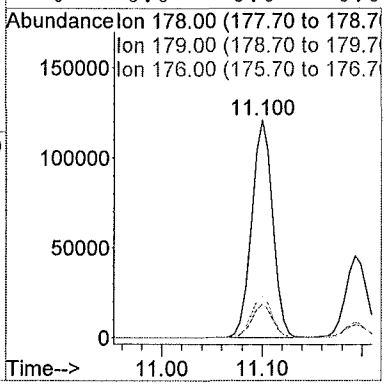


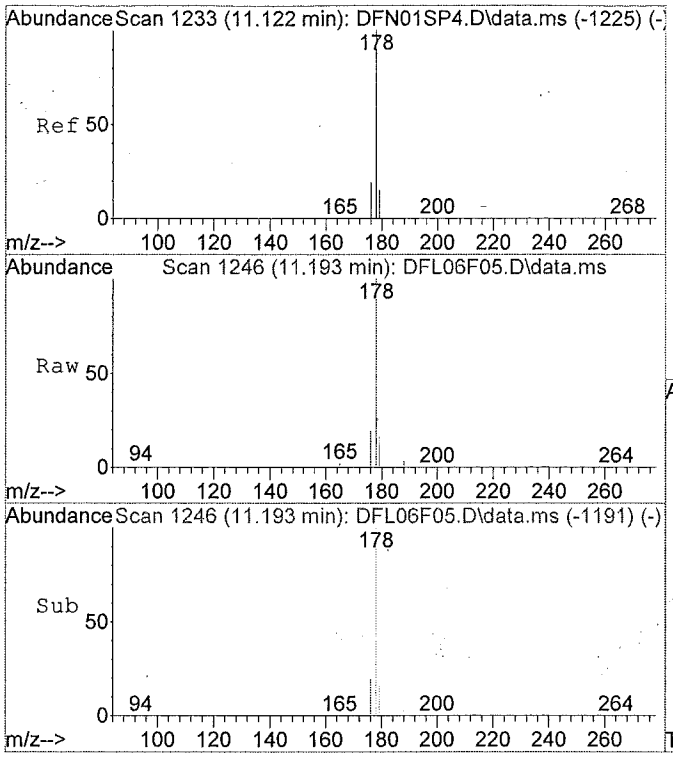


#11
Phenanthrene
Concen: 0.35 ug/ml
RT: 11.10 min Scan# 1229
Delta R.T. 0.00 min
Lab File: DFL06F05.D
Acq: 07/14/2015 16:45

Tgt Ion:178 Resp: 176640

Ion	Ratio	Lower	Upper
178	100		
179	15.4	11.1	20.5
176	19.2	14.1	26.1
0	0.0	0.0	0.0

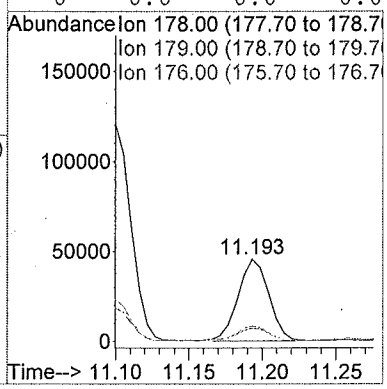


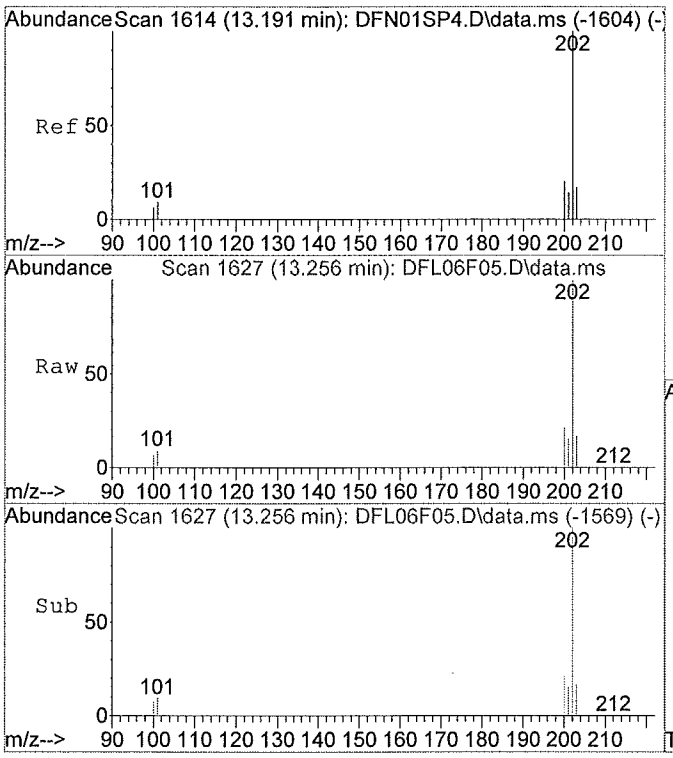


#12
Anthracene
Concen: 0.14 ug/ml
RT: 11.19 min Scan# 1246
Delta R.T. 0.00 min
Lab File: DFL06F05.D
Acq: 07/14/2015 16:45

Tgt Ion:178 Resp: 66523

Ion	Ratio	Lower	Upper
178	100		
179	17.0	11.6	21.6
176	18.6	13.9	25.7
0	0.0	0.0	0.0

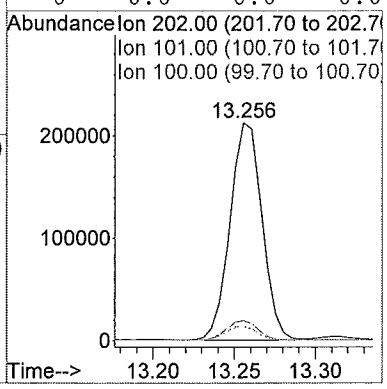


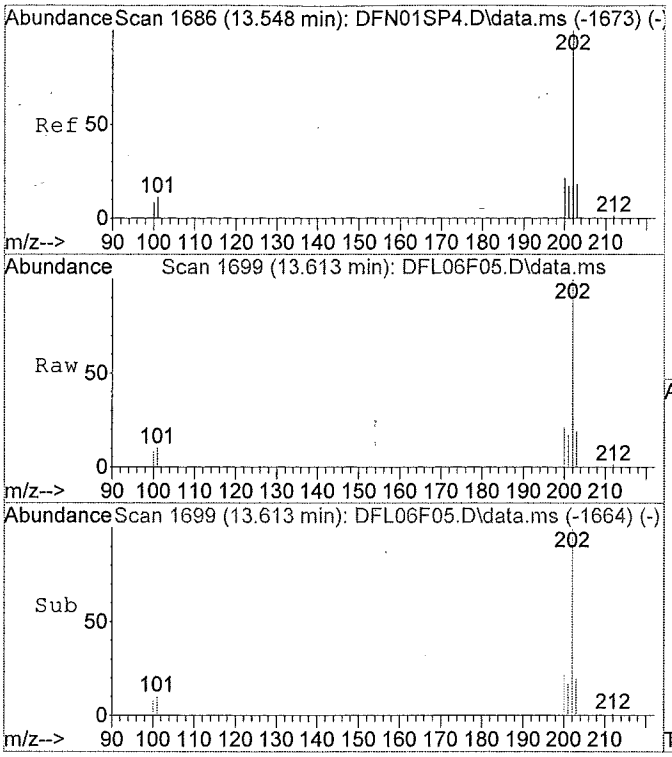


#14
Fluoranthene
Concen: 0.51 ug/ml
RT: 13.26 min Scan# 1627
Delta R.T. 0.00 min
Lab File: DFL06F05.D
Acq: 07/14/2015 16:45

Tgt Ion:202 Resp: 290444

Ion	Ratio	Lower	Upper
202	100		
101	9.1	9.4	17.6#
100	6.5	0.0	0.0#
0	0.0	0.0	0.0

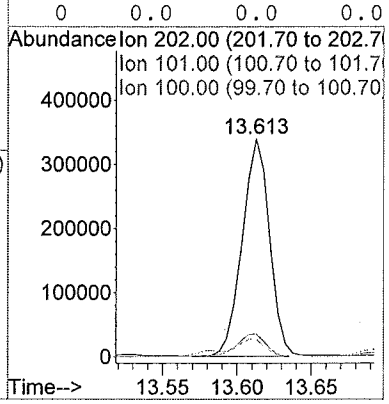


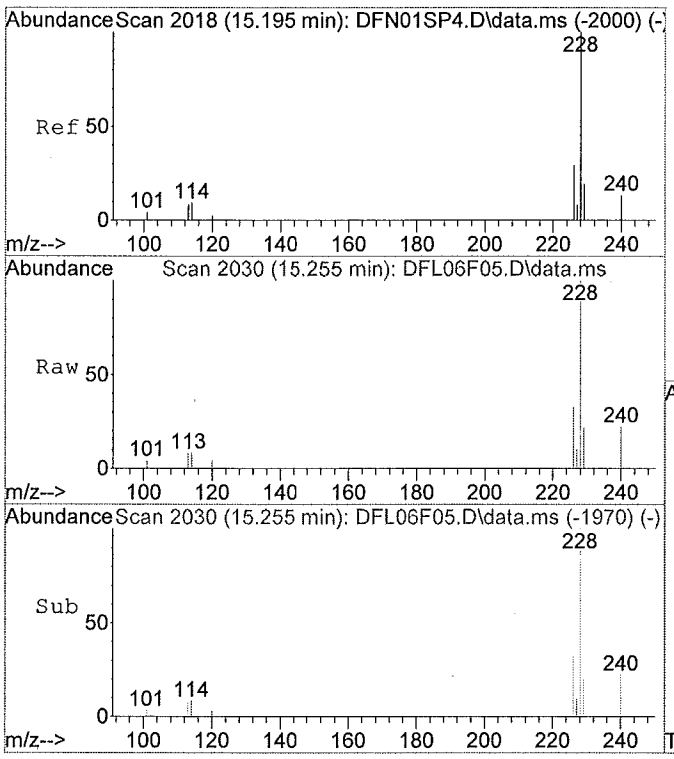


#16
Pyrene
Concen: 0.69 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. 0.00 min
Lab File: DFL06F05.D
Acq: 07/14/2015 16:45

Tgt Ion:202 Resp: 430515

Ion	Ratio	Lower	Upper
202	100		
101	11.4	10.6	19.6
100	8.6	9.4	17.4#
0	0.0	0.0	0.0

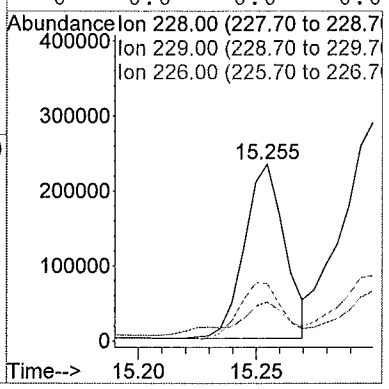


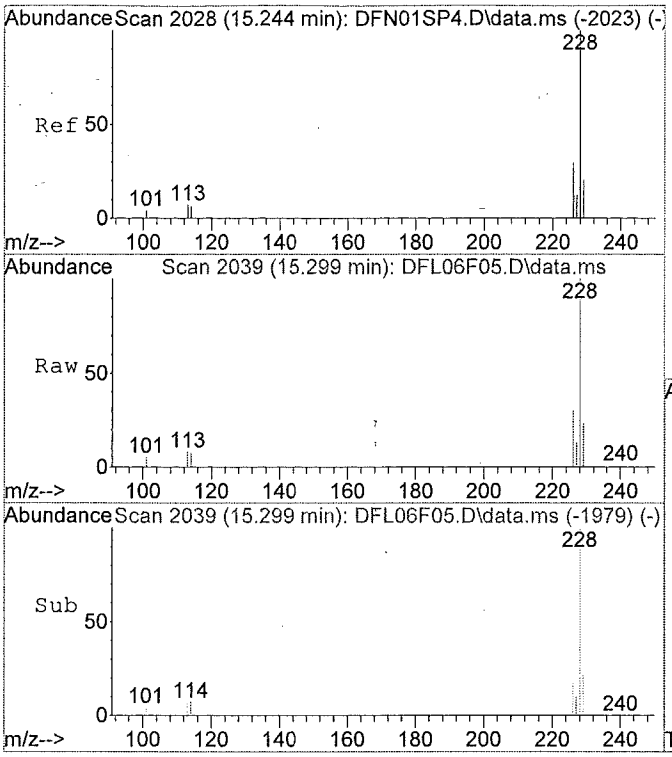


#17
Benzo(a)anthracene
Concen: 0.53 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. 0.00 min
Lab File: DFL06F05.D
Acq: 07/14/2015 16:45

Tgt Ion:228 Resp: 278463

Ion	Ratio	Lower	Upper
228	100		
229	29.1	14.5	26.9#
226	35.1	18.5	34.3#
0	0.0	0.0	0.0

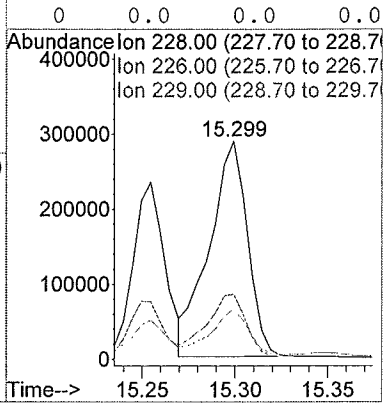


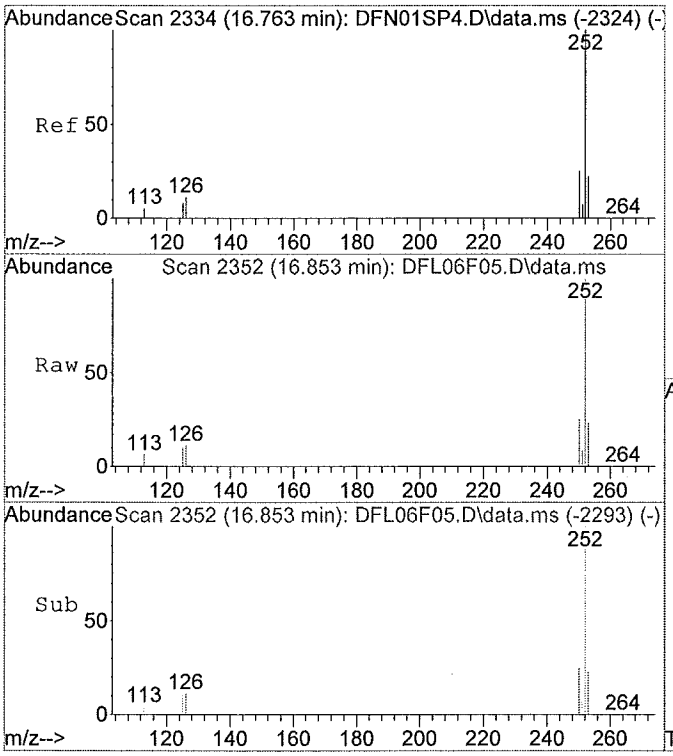


#18
Chrysene
Concen: 0.73 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFL06F05.D
Acq: 07/14/2015 16:45

Tgt Ion:228 Resp: 409157

Ion	Ratio	Lower	Upper
228	100		
226	31.5	19.7	36.7
229	23.3	14.5	26.9
0	0.0	0.0	0.0

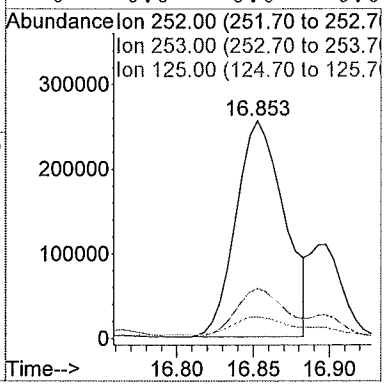


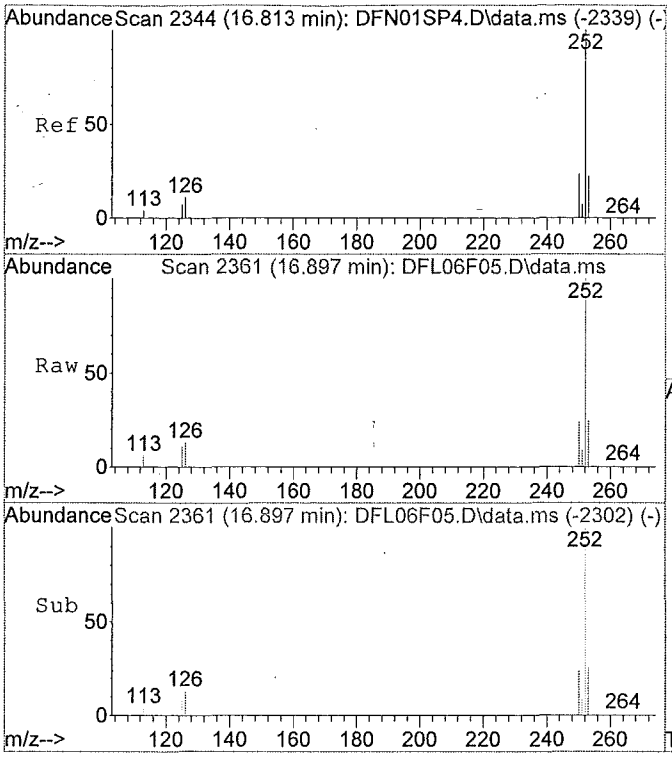


#20
Benzo(b)fluoranthene
Concen: 0.90 ug/ml
RT: 16.85 min Scan# 2352
Delta R.T. 0.00 min
Lab File: DFL06F05.D
Acq: 07/14/2015 16:45

Tgt Ion:252 Resp: 561566

Ion	Ratio	Lower	Upper
252	100		
253	22.3	15.3	28.3
125	11.3	0.0	0.0#
0	0.0	0.0	0.0

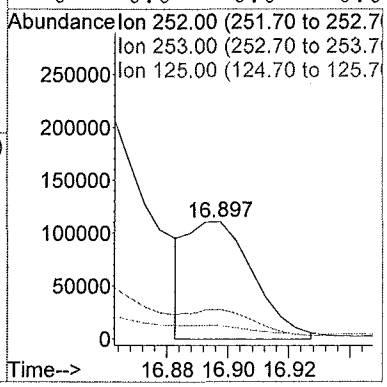


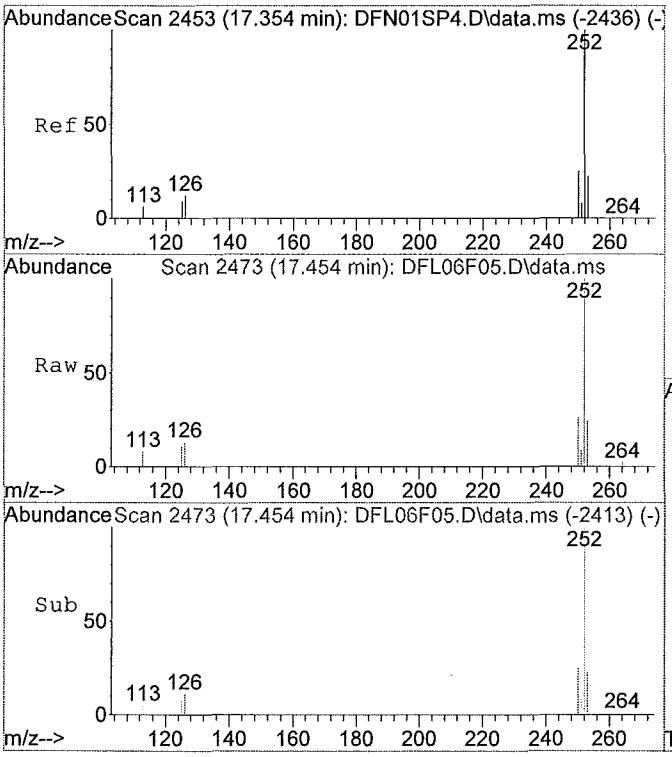


#21
Benzo(k)fluoranthene
Concen: 0.26 ug/ml m
RT: 16.90 min Scan# 2361
Delta R.T. -0.00 min
Lab File: DFL06F05.D
Acq: 07/14/2015 16:45

Tgt Ion:252 Resp: 166937

Ion	Ratio	Lower	Upper
252	100		
253	75.0	15.0	27.8#
125	37.9	0.0	0.0#
0	0.0	0.0	0.0

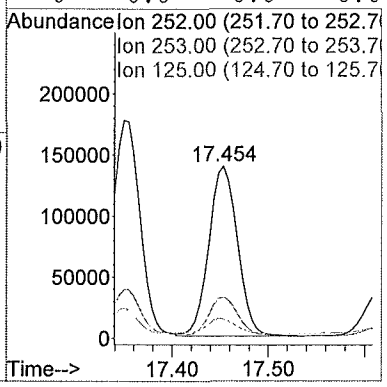


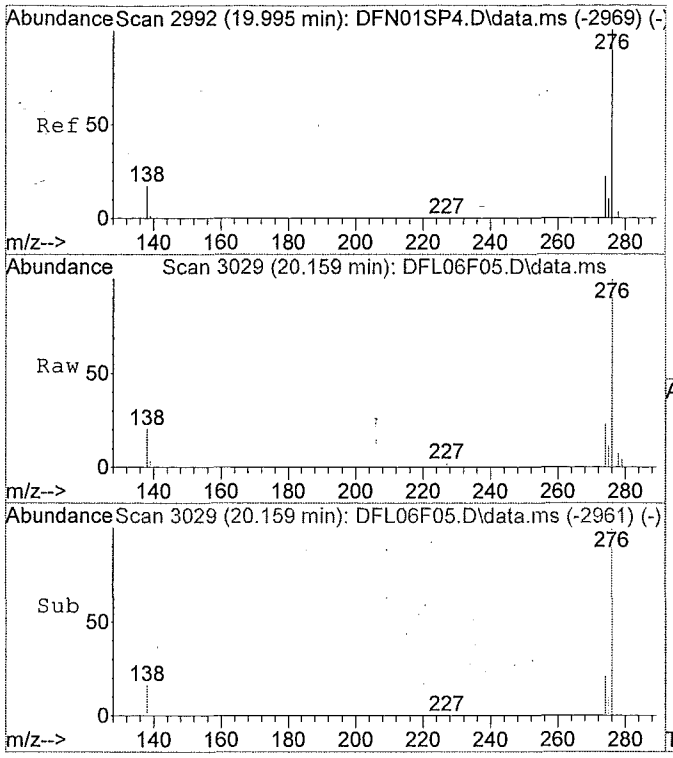


#22
Benzo(a)pyrene
Concen: 0.48 ug/ml
RT: 17.45 min Scan# 2473
Delta R.T. 0.00 min
Lab File: DFL06F05.D
Acq: 07/14/2015 16:45

Tgt Ion:252 Resp: 287504

Ion	Ratio	Lower	Upper
252	100		
253	23.4	15.0	27.8
125	8.5	0.0	0.0#
0	0.0	0.0	0.0

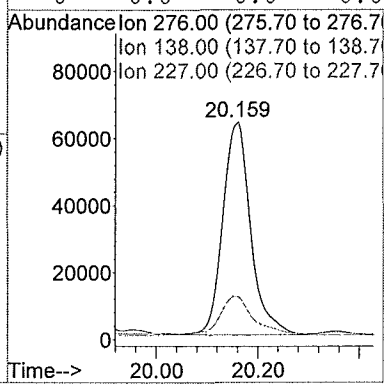


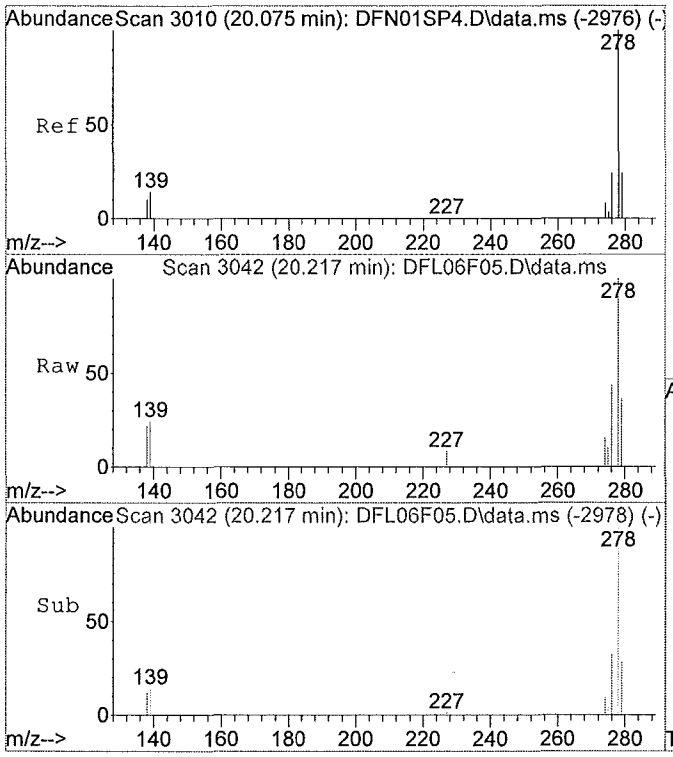


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.46 ug/ml
RT: 20.16 min Scan# 3029
Delta R.T. 0.00 min
Lab File: DFL06F05.D
Acq: 07/14/2015 16:45

Tgt Ion:276 Resp: 240588

Ion	Ratio	Lower	Upper
276	100		
138	20.0	0.0	0.0#
227	0.2	0.0	0.0#
0	0.0	0.0	0.0

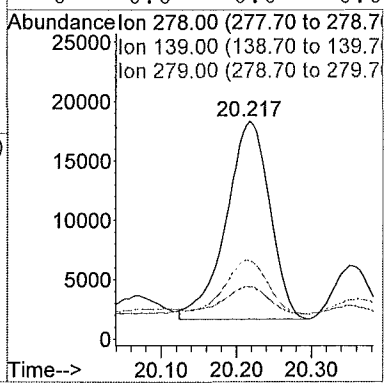


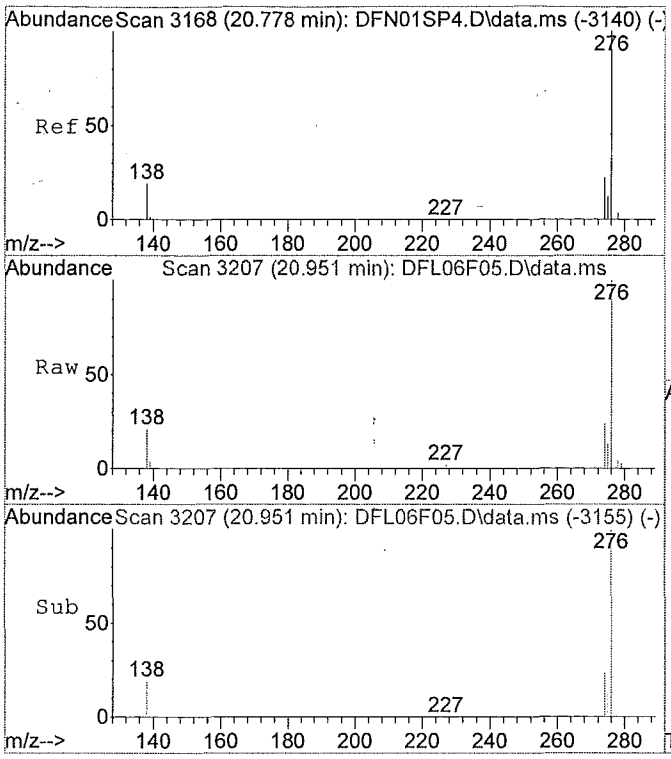


#24
Dibenzo(a,h)anthracene
Concen: 0.12 ug/ml
RT: 20.22 min Scan# 3042
Delta R.T. -0.01 min
Lab File: DFL06F05.D
Acq: 07/14/2015 16:45

Tgt Ion:278 Resp: 67175

Ion	Ratio	Lower	Upper
278	100		
139	15.1	0.0	0.0#
279	26.7	15.8	29.3
0	0.0	0.0	0.0

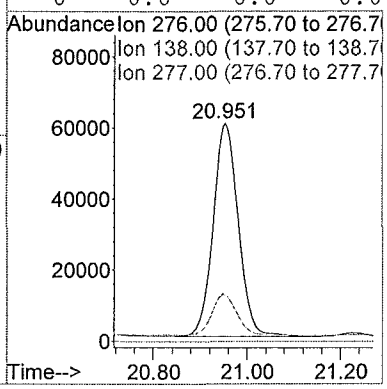




#25
Benzo(g,h,i)perylene
Concen: 0.38 ug/ml
RT: 20.95 min Scan# 3207
Delta R.T. 0.00 min
Lab File: DFL06F05.D
Acq: 07/14/2015 16:45

Tgt Ion:276 Resp: 222722

Ion	Ratio	Lower	Upper
276	100		
138	19.1	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.

F9M01

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375006

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFL07F06

Extraction: (Type) SONC

% Moisture: 28. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/14/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 40.0

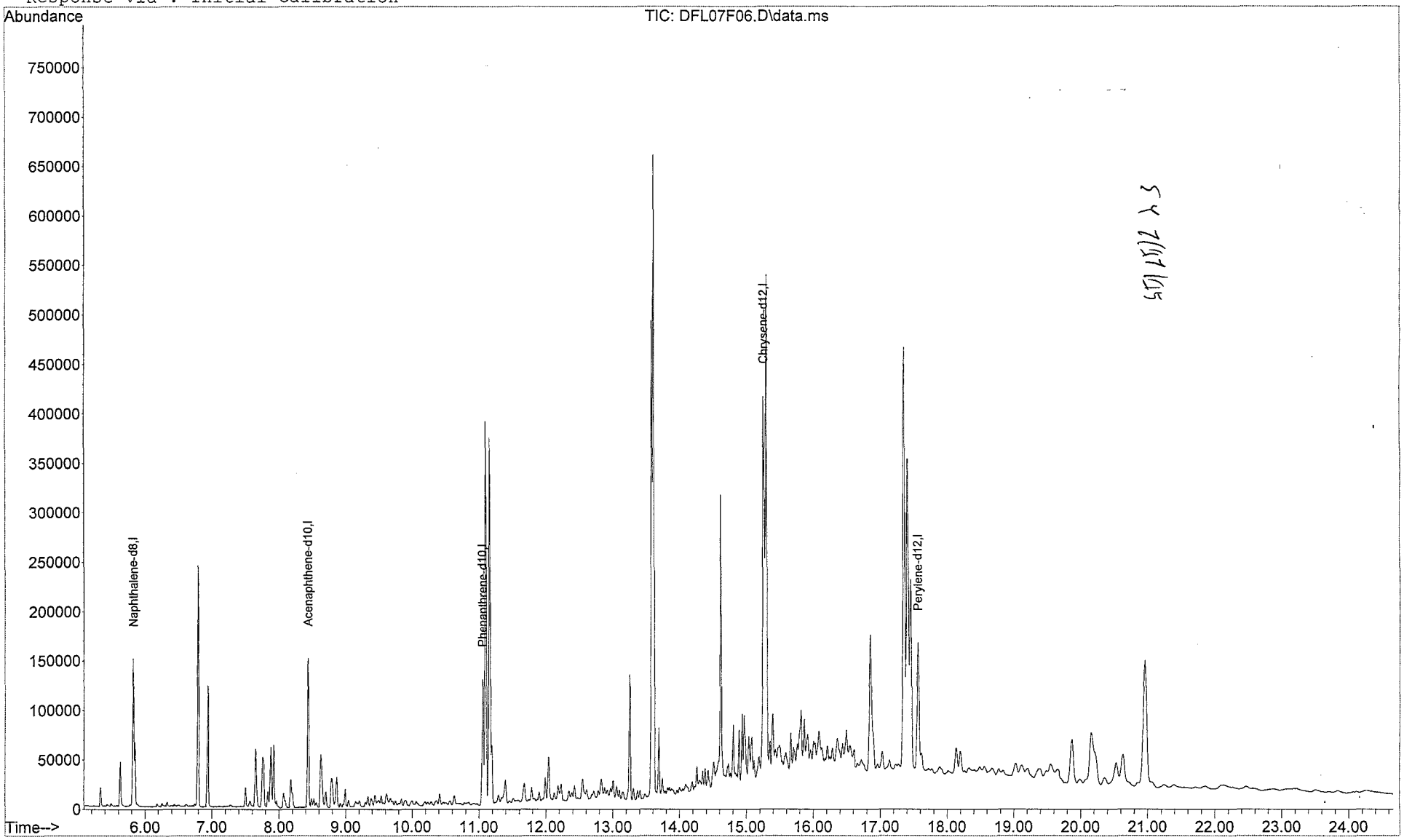
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	220	
91-57-6	2-Methylnaphthalene	790	
208-96-8	Acenaphthylene	42.	J
83-32-9	Acenaphthene	180	U
86-73-7	Fluorene	180	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	1500	
120-12-7	Anthracene	230	
206-44-0	Fluoranthene	320	
129-00-0	Pyrene	1300	
56-55-3	Benzo(a)anthracene	680	
218-01-9	Chrysene	1200	
205-99-2	Benzo(b)fluoranthene	480	
207-08-9	Benzo(k)fluoranthene	76.	J
50-32-8	Benzo(a)pyrene	610	
193-39-5	Indeno(1,2,3-cd)pyrene	420	
53-70-3	Dibenzo(a,h)anthracene	190	
191-24-2	Benzo(g,h,i)perylene	900	

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL07F06.D Vial: 7
Acq On : 07/14/2015 17:15 Operator: DJC
Sample : 1515375006 F9M01 (40) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 11:55:12 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



SY 7/15/15

Quantitation Report

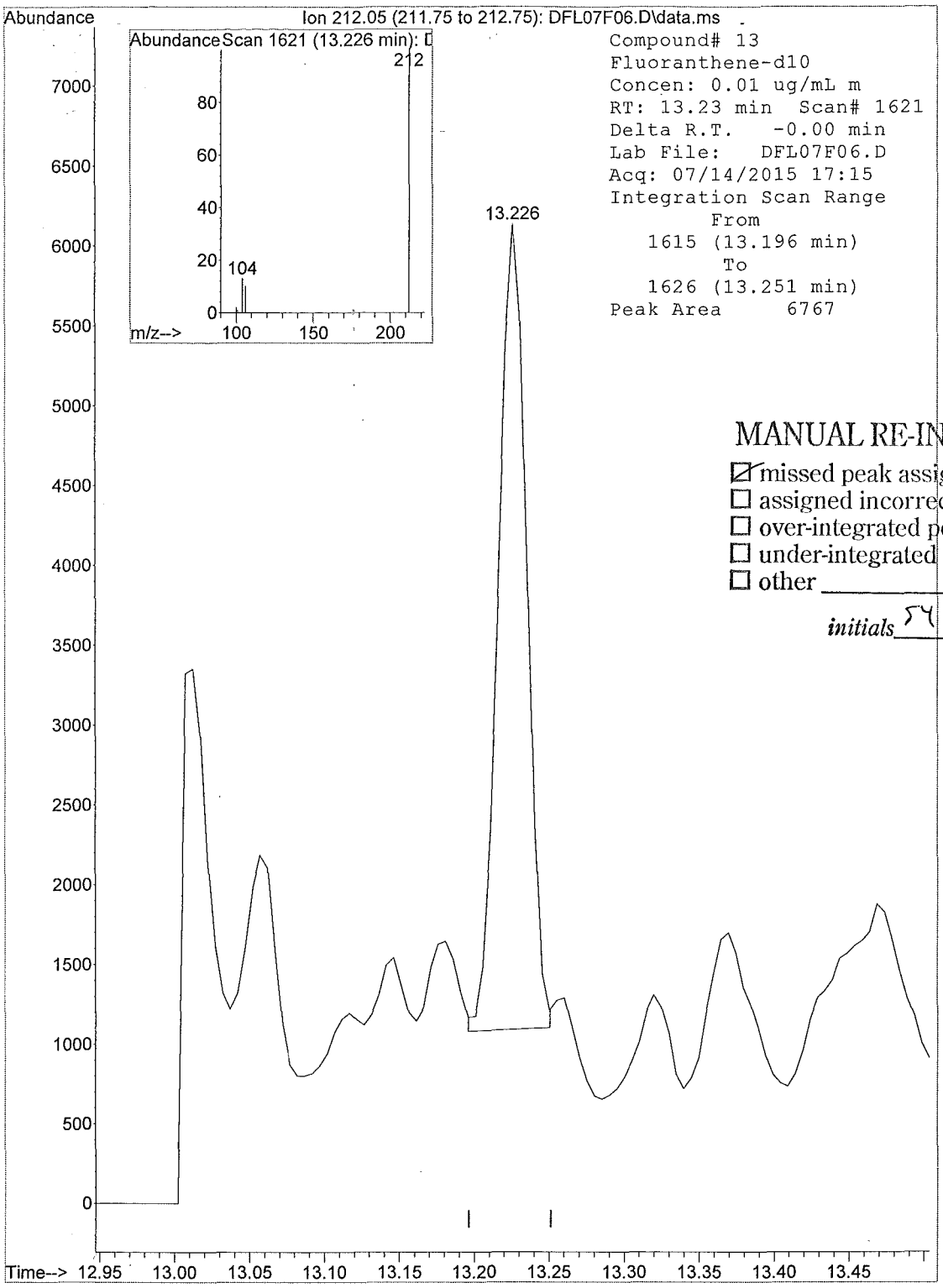
Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL07F06.D Vial: 7
Acq On : 07/14/2015 17:15 Operator: DJC
Sample : 1515375006 F9M01 (40) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 11:55:12 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	5.83	136	158170	0.40 ug/ml
5) Acenaphthene-d10	8.44	164	100379	0.40 ug/ml
9) Phenanthrene-d10	11.06	188	172961	0.40 ug/ml
15) Chrysene-d12	15.26	240	206583	0.40 ug/ml
19) Perylene-d12	17.56	264	212510	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	6.75	152	3041	0.012ug/mL
13) Fluoranthene-d10	13.23	212	6767	0.014ug/mL m 7/17/15
Target Compounds				Qvalue
2) Naphthalene	5.85	128	49251	0.119ug/ml 95
4) 2-Methylnaphthalene	6.80	142	115369	0.434ug/ml 100
6) Acenaphthylene	8.20	152	10102	0.023ug/ml 65
7) Acenaphthene	0.00	153		Not Detected
8) Fluorene	0.00	166		Not Detected
10) Pentachlorophenol	0.00	266		Not Detected
11) Phenanthrene	11.10	178	414243	0.832ug/ml 99
12) Anthracene	11.19	178	62543	0.129ug/ml 95
14) Fluoranthene	13.26	202	101374	0.179ug/ml 92
16) Pyrene	13.61	202	479216	0.739ug/ml 90
17) Benzo(a)anthracene	15.25	228	206969	0.376ug/ml 78
18) Chrysene	15.30	228	375572	0.645ug/ml 87
20) Benzo(b)fluoranthene	16.85	252	175892	0.266ug/ml m 96
21) Benzo(k)fluoranthene	16.89	252	28614	0.042ug/ml m 7/17/15 95
22) Benzo(a)pyrene	17.45	252	211149	0.334ug/ml 95
23) Indeno(1,2,3-c,d)pyrene	20.15	276	127236	0.230ug/ml 100
24) Dibenzo(a,h)anthracene	20.22	278	63654	0.104ug/ml 84
25) Benzo(g,h,i)perylene	20.96	276	310206	0.498ug/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 Fluoranthene-d10



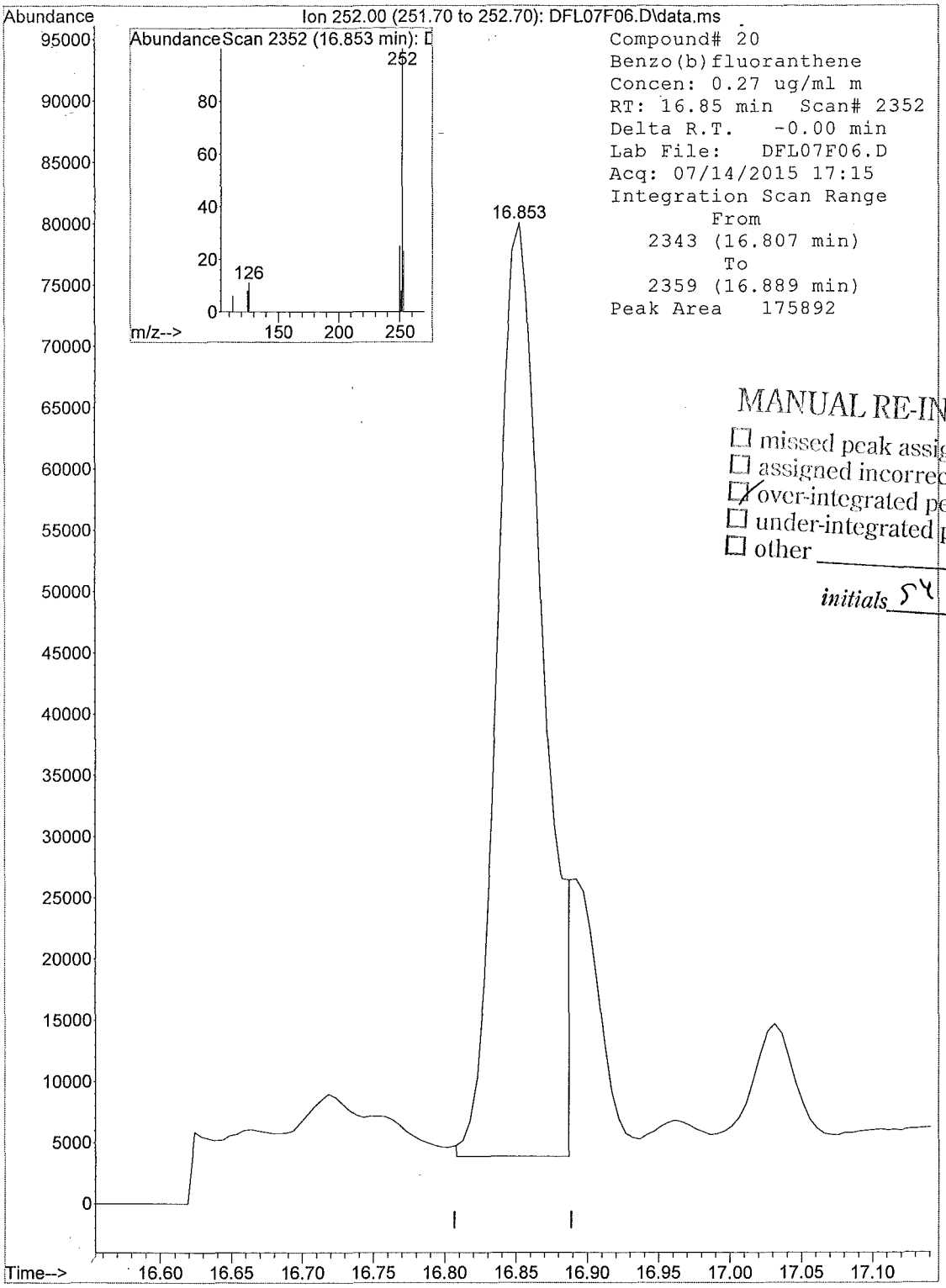
Compound# 13
Fluoranthene-d10
Concen: 0.01 ug/mL m
RT: 13.23 min Scan# 1621
Delta R.T. -0.00 min
Lab File: DFL07F06.D
Acq: 07/14/2015 17:15
Integration Scan Range
From
1615 (13.196 min)
To
1626 (13.251 min)
Peak Area 6767

MANUAL RE-INTEGRATION

- [x] missed peak assignment
- [ ] assigned incorrect name to peak
- [ ] over-integrated peak's area
- [ ] under-integrated peak's area
- [ ] other _____

initials SY *date* 7/17/15

M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene

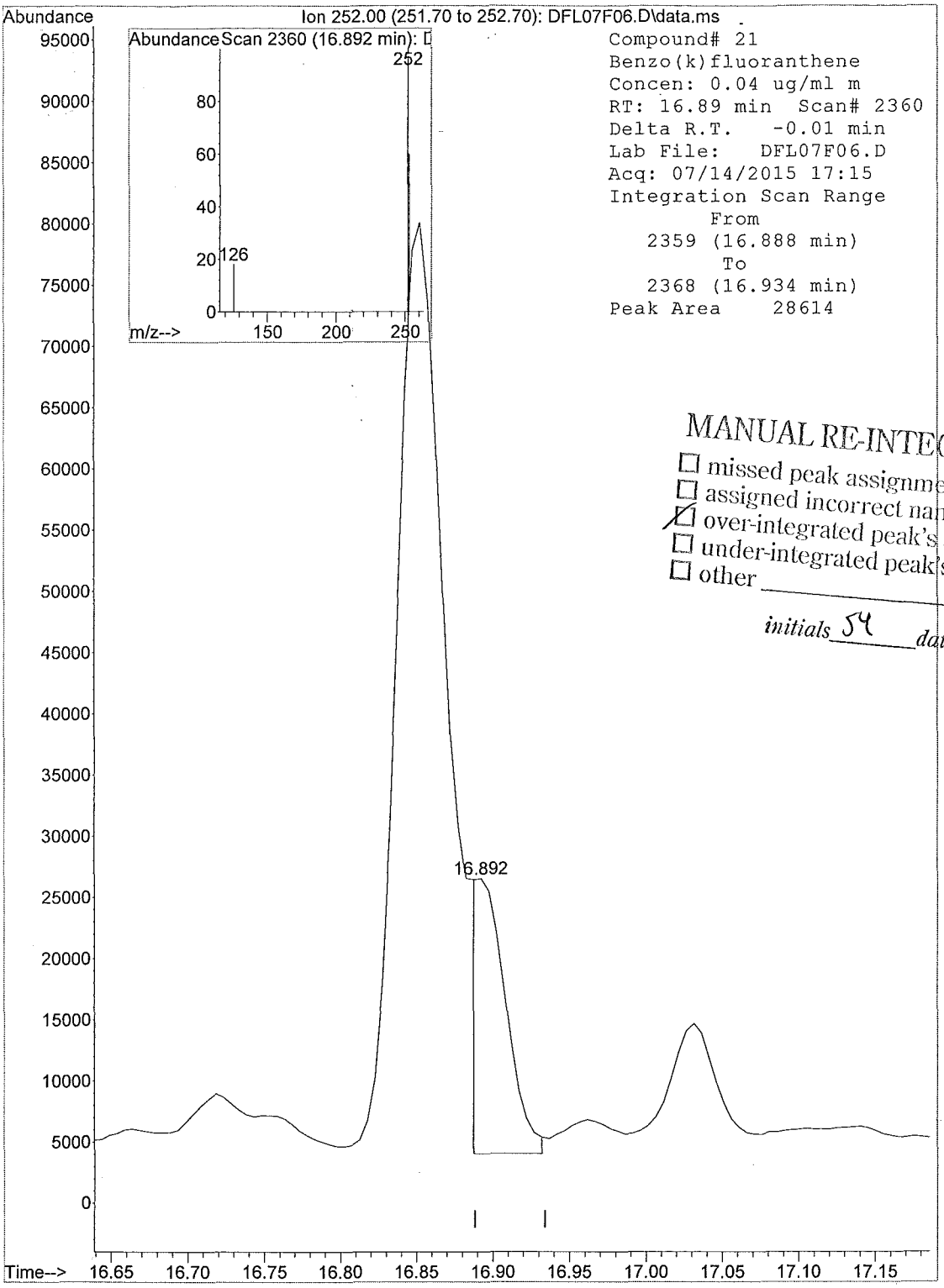


MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/17/15

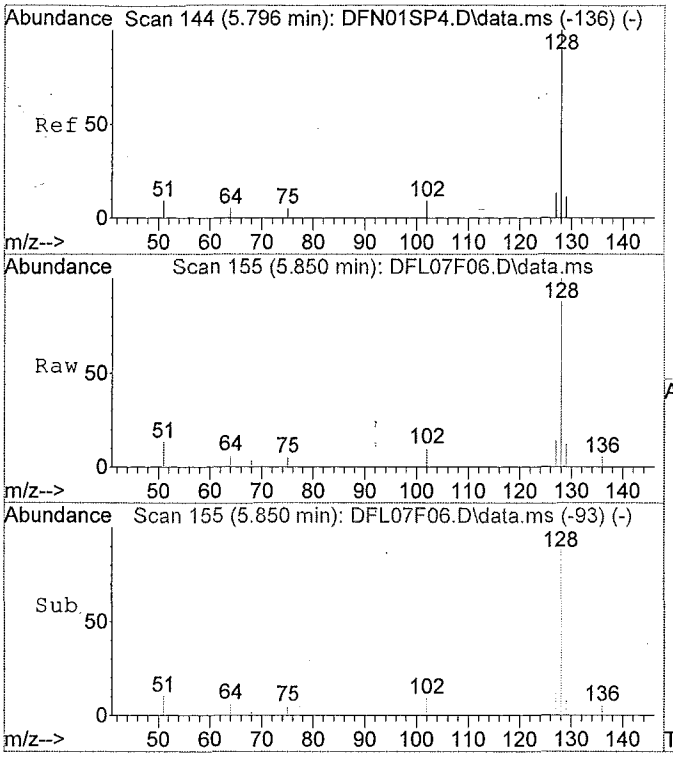
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

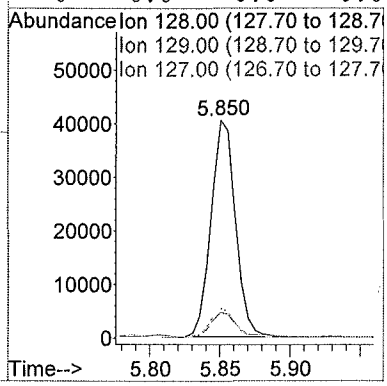
initials SY *date* 7/17/15

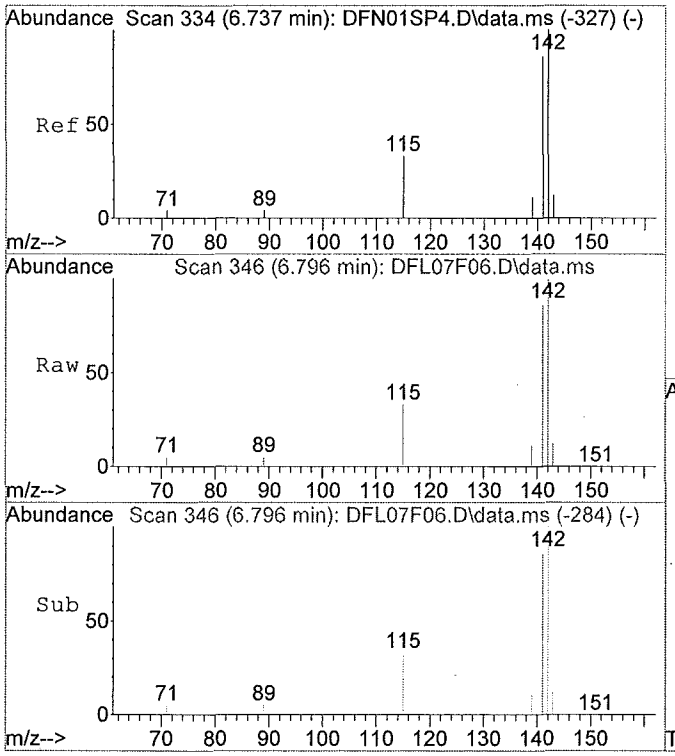


#2
Naphthalene
Concen: 0.12 ug/ml
RT: 5.85 min Scan# 155
Delta R.T. 0.00 min
Lab File: DFL07F06.D
Acq: 07/14/2015 17:15

Tgt Ion:128 Resp: 49251

Ion	Ratio	Lower	Upper
128	100		
129	12.5	0.0	0.0#
127	13.6	11.1	20.5
0	0.0	0.0	0.0

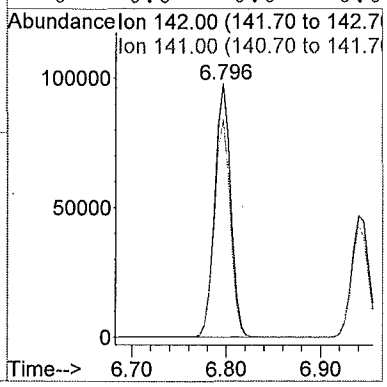


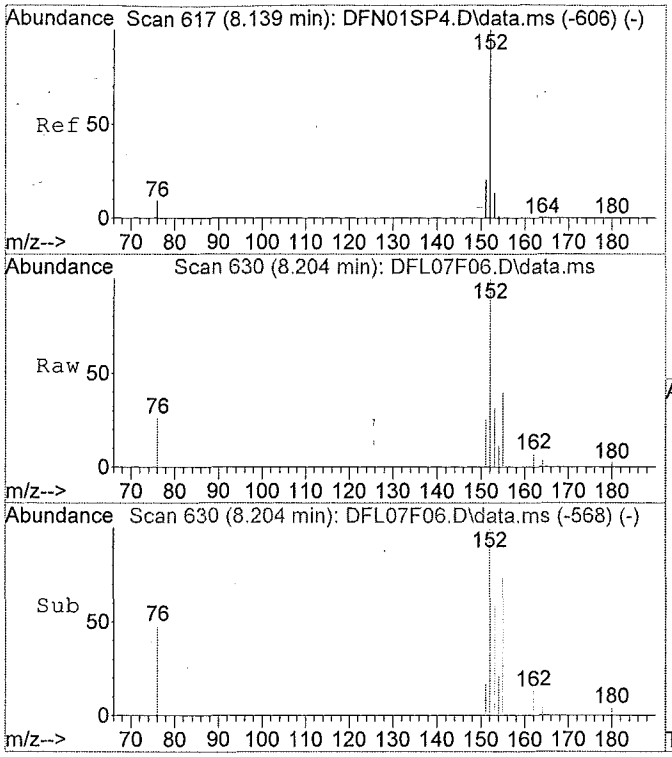


#4
2-Methylnaphthalene
Concen: 0.43 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.00 min
Lab File: DFL07F06.D
Acq: 07/14/2015 17:15

Tgt Ion:142 Resp: 115369

Ion	Ratio	Lower	Upper
142	100		
141	86.9	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

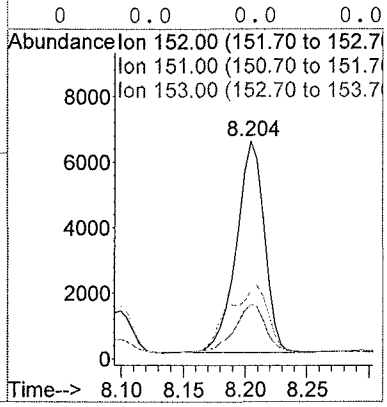


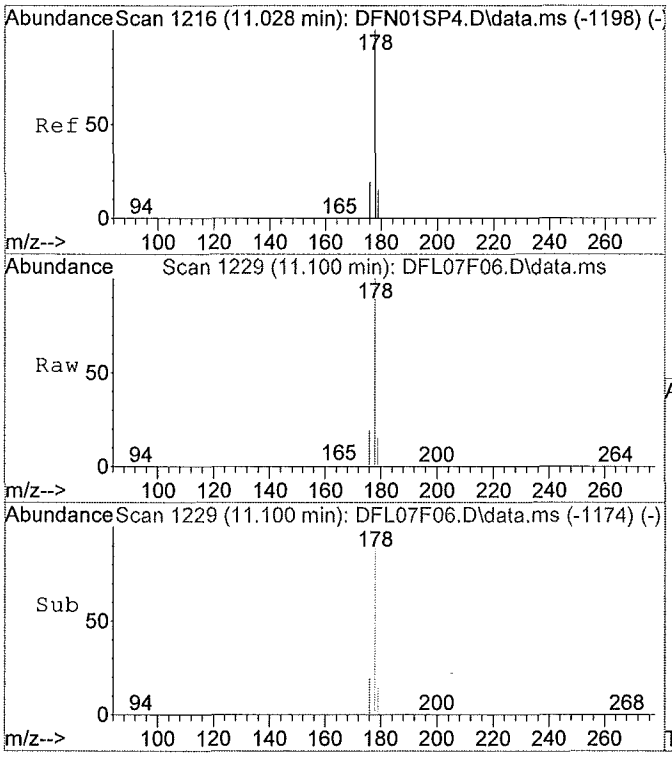


#6
Acenaphthylene
Concen: 0.02 ug/ml
RT: 8.20 min Scan# 630
Delta R.T. 0.00 min
Lab File: DFL07F06.D
Acq: 07/14/2015 17:15

Tgt Ion:152 Resp: 10102

Ion	Ratio	Lower	Upper
152	100		
151	25.1	15.5	28.7
153	46.5	8.8	16.4#
0	0.0	0.0	0.0

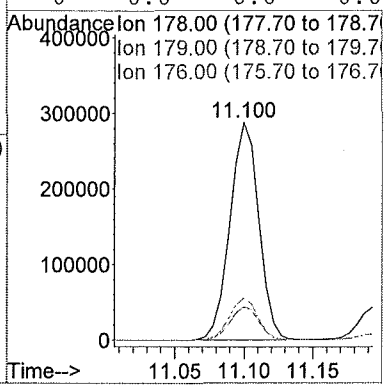


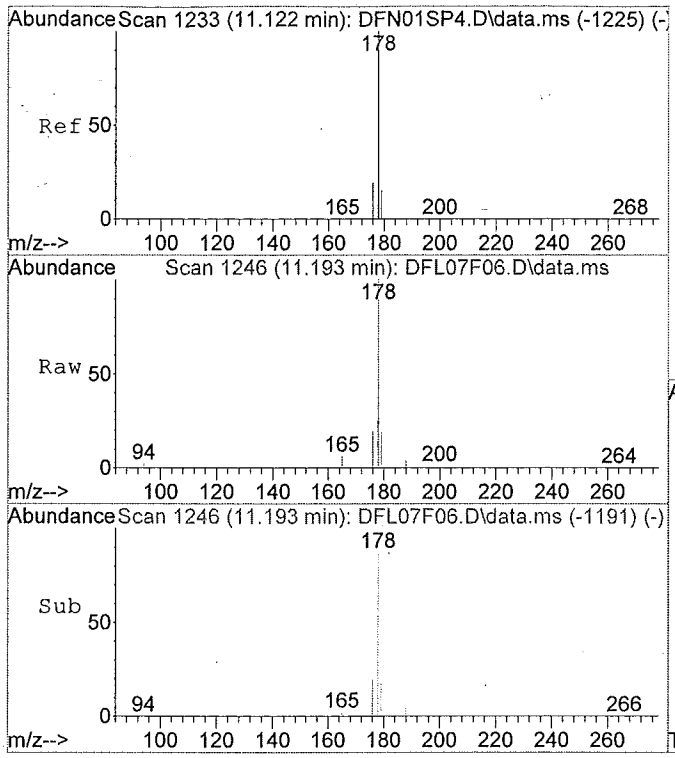


#11
Phenanthrene
Concen: 0.83 ug/ml
RT: 11.10 min Scan# 1229
Delta R.T. -0.00 min
Lab File: DFL07F06.D
Acq: 07/14/2015 17:15

Tgt Ion:178 Resp: 414243

Ion	Ratio	Lower	Upper
178	100		
179	15.5	11.1	20.5
176	19.2	14.1	26.1
0	0.0	0.0	0.0

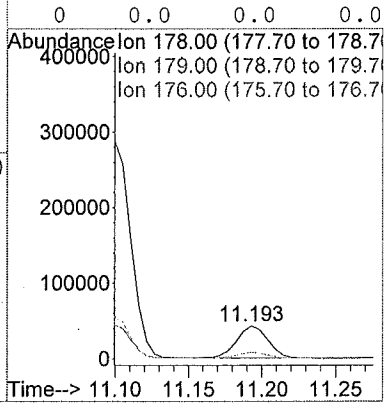


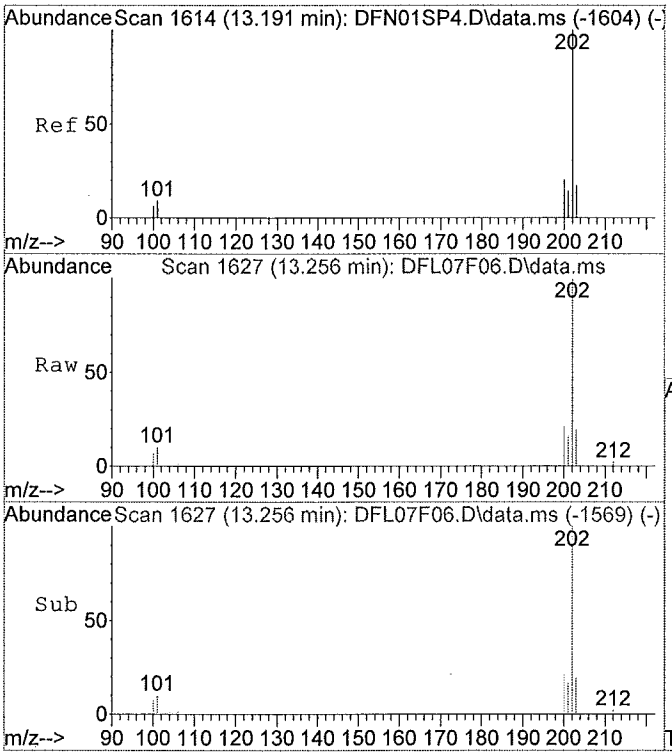


#12
Anthracene
Concen: 0.13 ug/ml
RT: 11.19 min Scan# 1246
Delta R.T. -0.00 min
Lab File: DFL07F06.D
Acq: 07/14/2015 17:15

Tgt Ion:178 Resp: 62543

Ion	Ratio	Lower	Upper
178	100		
179	20.2	11.6	21.6
176	18.7	13.9	25.7
0	0.0	0.0	0.0

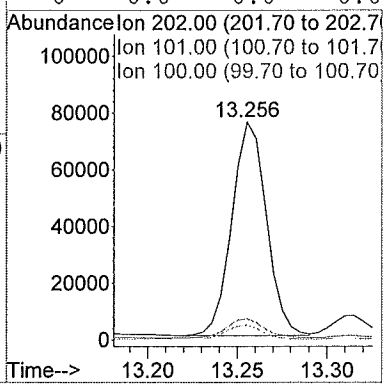


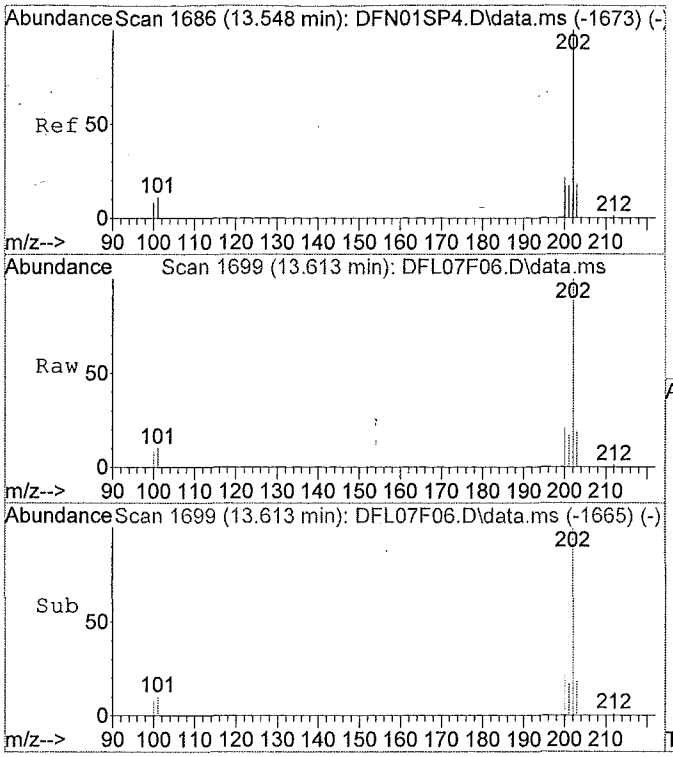


#14
Fluoranthene
Concen: 0.18 ug/ml
RT: 13.26 min Scan# 1627
Delta R.T. -0.00 min
Lab File: DFL07F06.D
Acq: 07/14/2015 17:15

Tgt Ion:202 Resp: 101374

Ion	Ratio	Lower	Upper
202	100		
101	10.1	9.4	17.6
100	6.7	0.0	0.0#
0	0.0	0.0	0.0

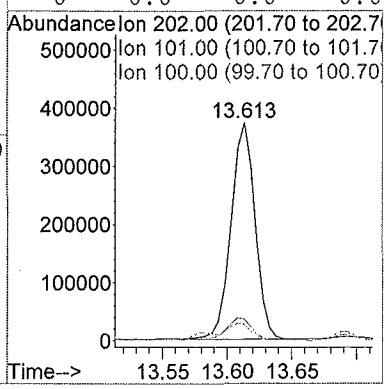


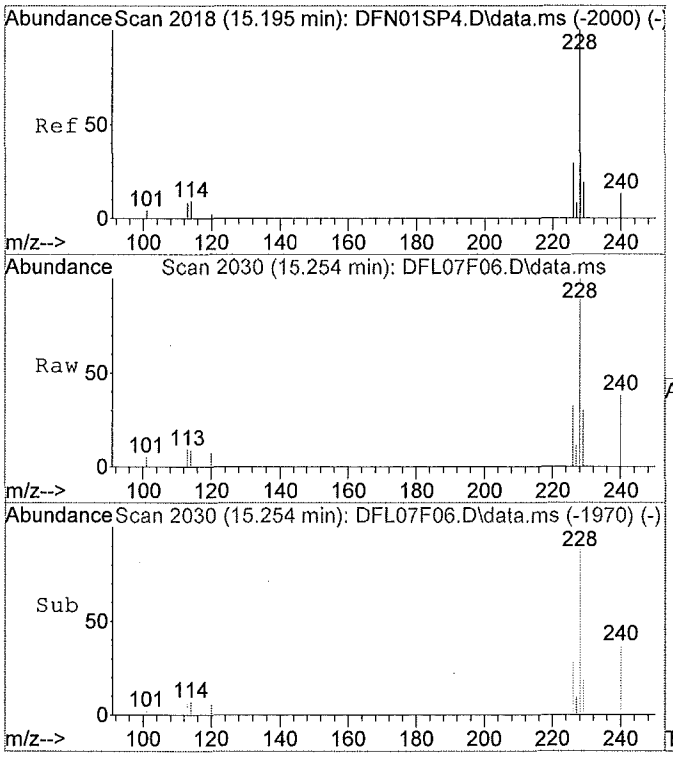


#16
Pyrene
Concen: 0.74 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. -0.00 min
Lab File: DFL07F06.D
Acq: 07/14/2015 17:15

Tgt Ion:202 Resp: 479216

Ion	Ratio	Lower	Upper
202	100		
101	12.1	10.6	19.6
100	8.0	9.4	17.4#
0	0.0	0.0	0.0

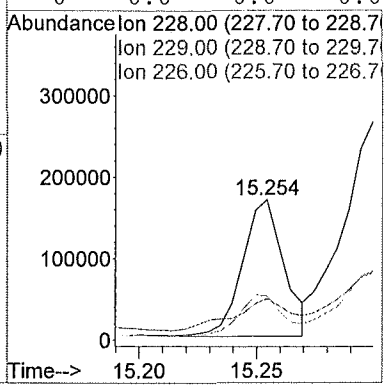


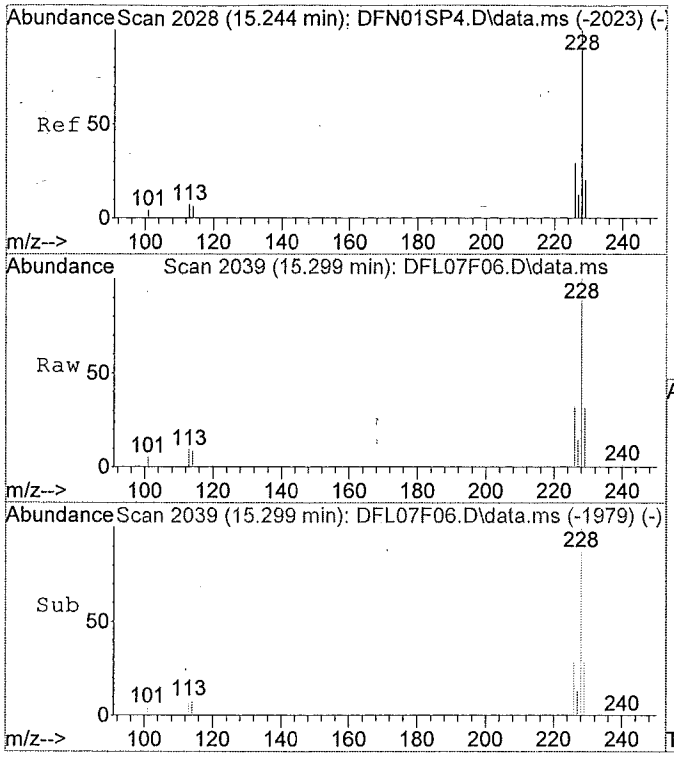


#17
Benzo(a)anthracene
Concen: 0.38 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. -0.00 min
Lab File: DFL07F06.D
Acq: 07/14/2015 17:15

Tgt Ion:228 Resp: 206969

Ion	Ratio	Lower	Upper
228	100		
229	35.9	14.5	26.9#
226	33.5	18.5	34.3
0	0.0	0.0	0.0

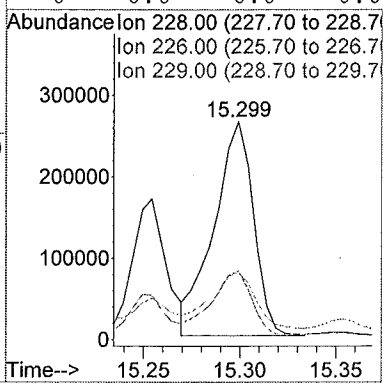


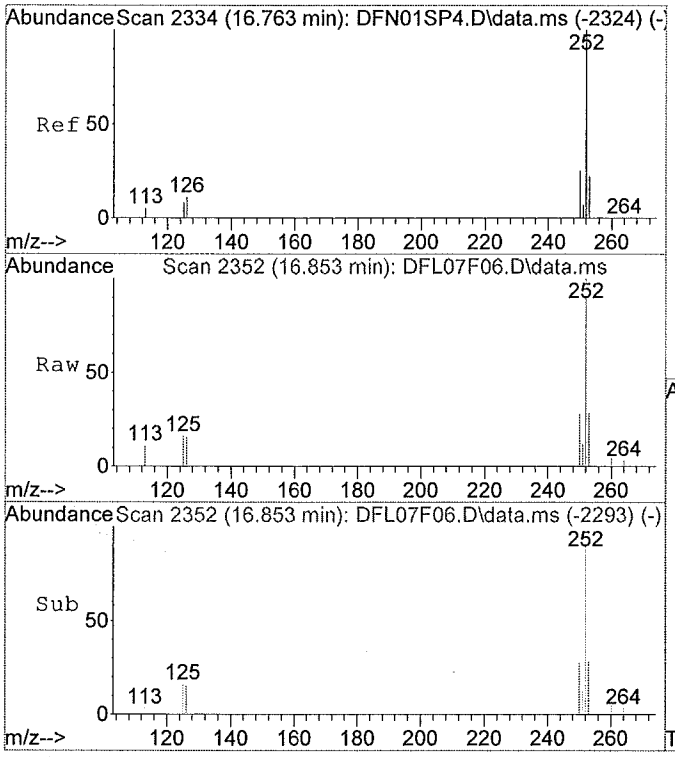


#18
Chrysene
Concen: 0.65 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. -0.00 min
Lab File: DFL07F06.D
Acq: 07/14/2015 17:15

Tgt Ion:228 Resp: 375572

Ion	Ratio	Lower	Upper
228	100		
226	29.5	19.7	36.7
229	33.9	14.5	26.9#
0	0.0	0.0	0.0

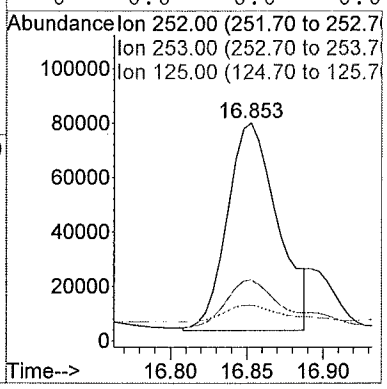


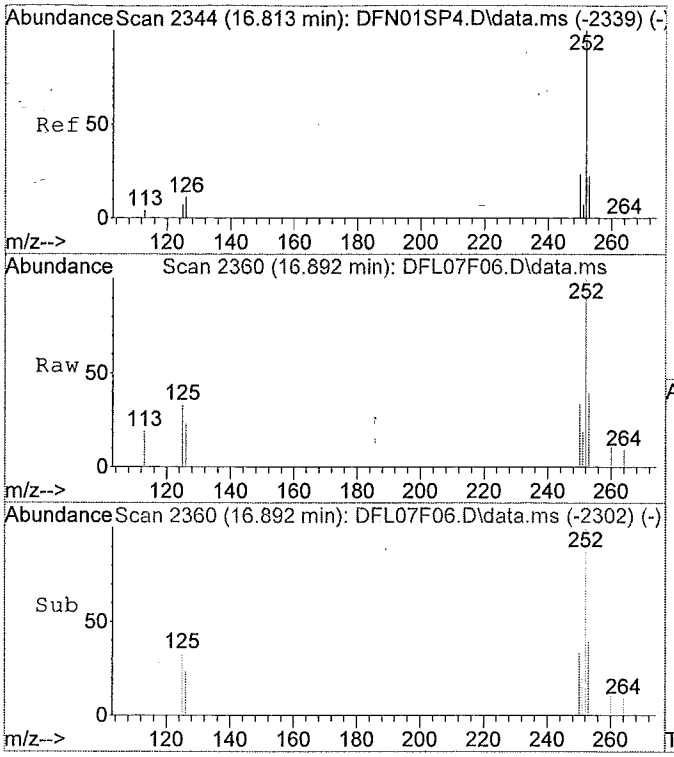


#20
Benzo(b)fluoranthene
Concen: 0.27 ug/ml m
RT: 16.85 min Scan# 2352
Delta R.T. -0.00 min
Lab File: DFL07F06.D
Acq: 07/14/2015 17:15

Tgt Ion:252 Resp: 175892

Ion	Ratio	Lower	Upper
252	100		
253	26.8	15.3	28.3
125	8.9	0.0	0.0#
0	0.0	0.0	0.0

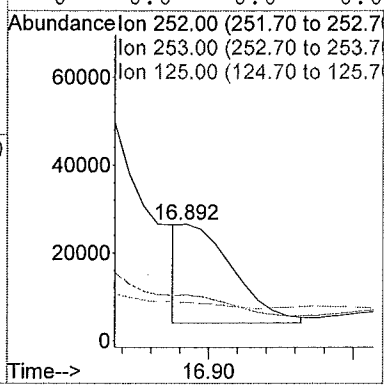


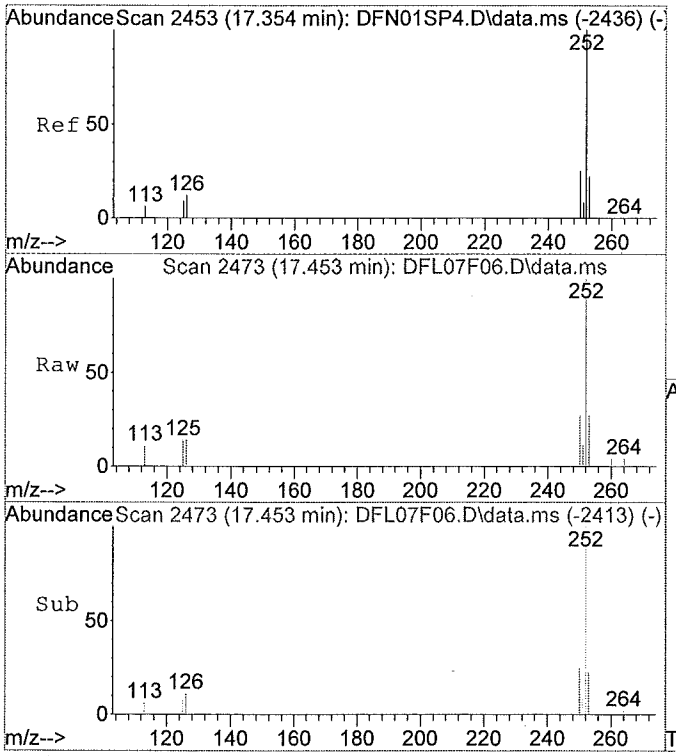


#21
Benzo(k)fluoranthene
Concen: 0.04 ug/ml m
RT: 16.89 min Scan# 2360
Delta R.T. -0.01 min
Lab File: DFL07F06.D
Acq: 07/14/2015 17:15

Tgt Ion:252 Resp: 28614

Ion	Ratio	Lower	Upper
252	100		
253	165.0	15.0	27.8#
125	54.4	0.0	0.0#
0	0.0	0.0	0.0

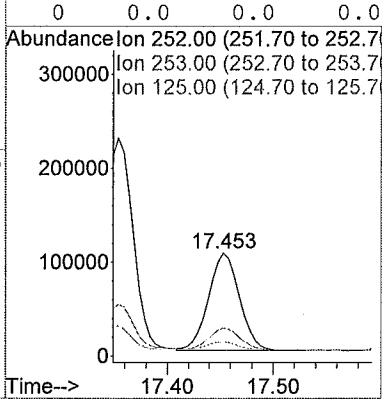


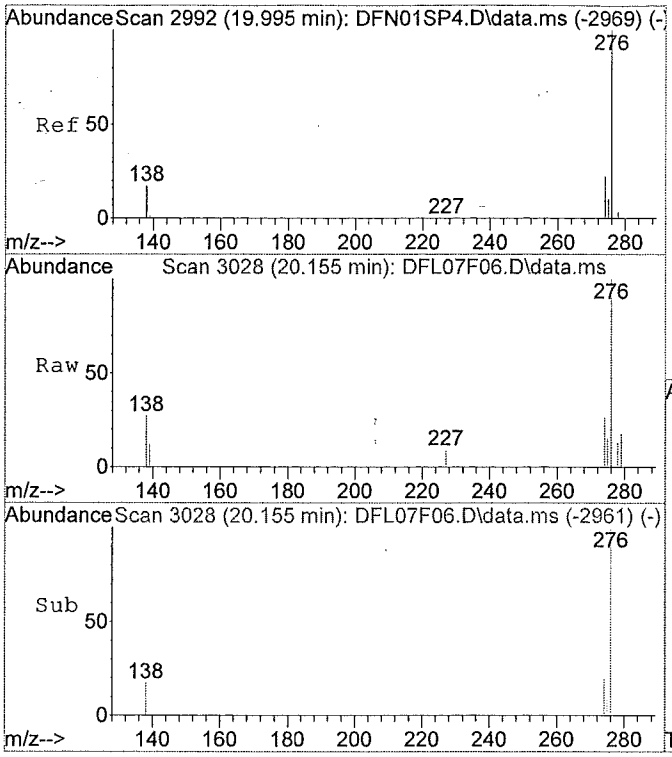


#22
Benzo(a)pyrene
Concen: 0.33 ug/ml
RT: 17.45 min Scan# 2473
Delta R.T. -0.00 min
Lab File: DFL07F06.D
Acq: 07/14/2015 17:15

Tgt Ion:252 Resp: 211149

Ion	Ratio	Lower	Upper
252	100		
253	23.9	15.0	27.8
125	8.2	0.0	0.0#
0	0.0	0.0	0.0

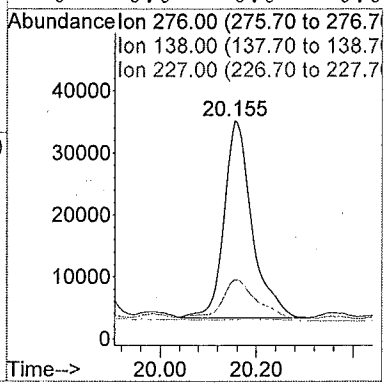


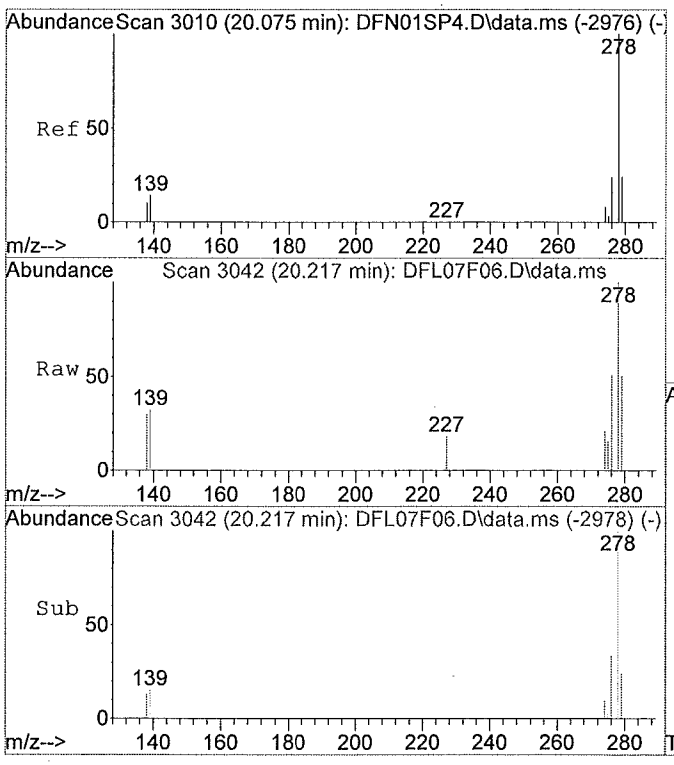


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.23 ug/ml
RT: 20.15 min Scan# 3028
Delta R.T. -0.00 min
Lab File: DFL07F06.D
Acq: 07/14/2015 17:15

Tgt Ion:276 Resp: 127236

Ion	Ratio	Lower	Upper
276	100		
138	26.1	0.0	0.0#
227	0.1	0.0	0.0#
0	0.0	0.0	0.0

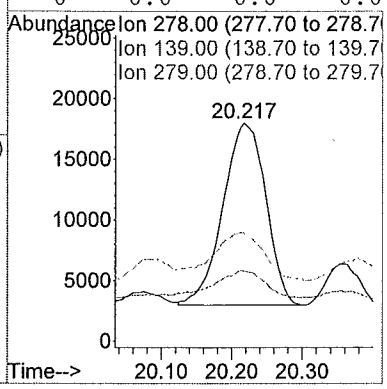


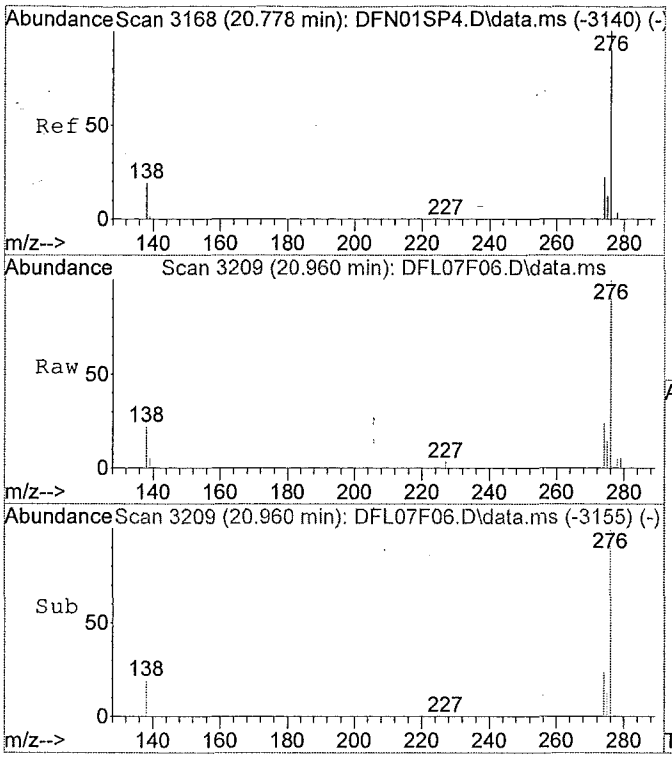


#24
Dibenzo(a,h)anthracene
Concen: 0.10 ug/ml
RT: 20.22 min Scan# 3042
Delta R.T. -0.01 min
Lab File: DFL07F06.D
Acq: 07/14/2015 17:15

Tgt Ion:278 Resp: 63654

Ion	Ratio	Lower	Upper
278	100		
139	17.1	0.0	0.0#
279	30.0	15.8	29.3#
0	0.0	0.0	0.0

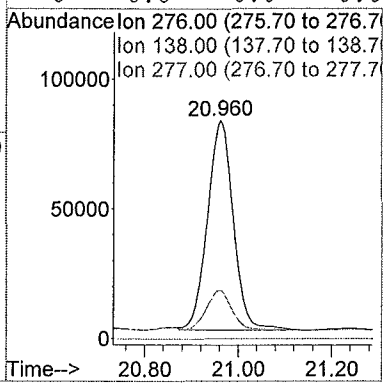




#25
Benzo(g,h,i)perylene
Concen: 0.50 ug/ml
RT: 20.96 min Scan# 3209
Delta R.T. 0.01 min
Lab File: DFL07F06.D
Acq: 07/14/2015 17:15

Tgt Ion:276 Resp: 310206

Ion	Ratio	Lower	Upper
276	100		
138	17.9	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.

F9M02

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375007

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFL08F07

Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/14/2015

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 50.0

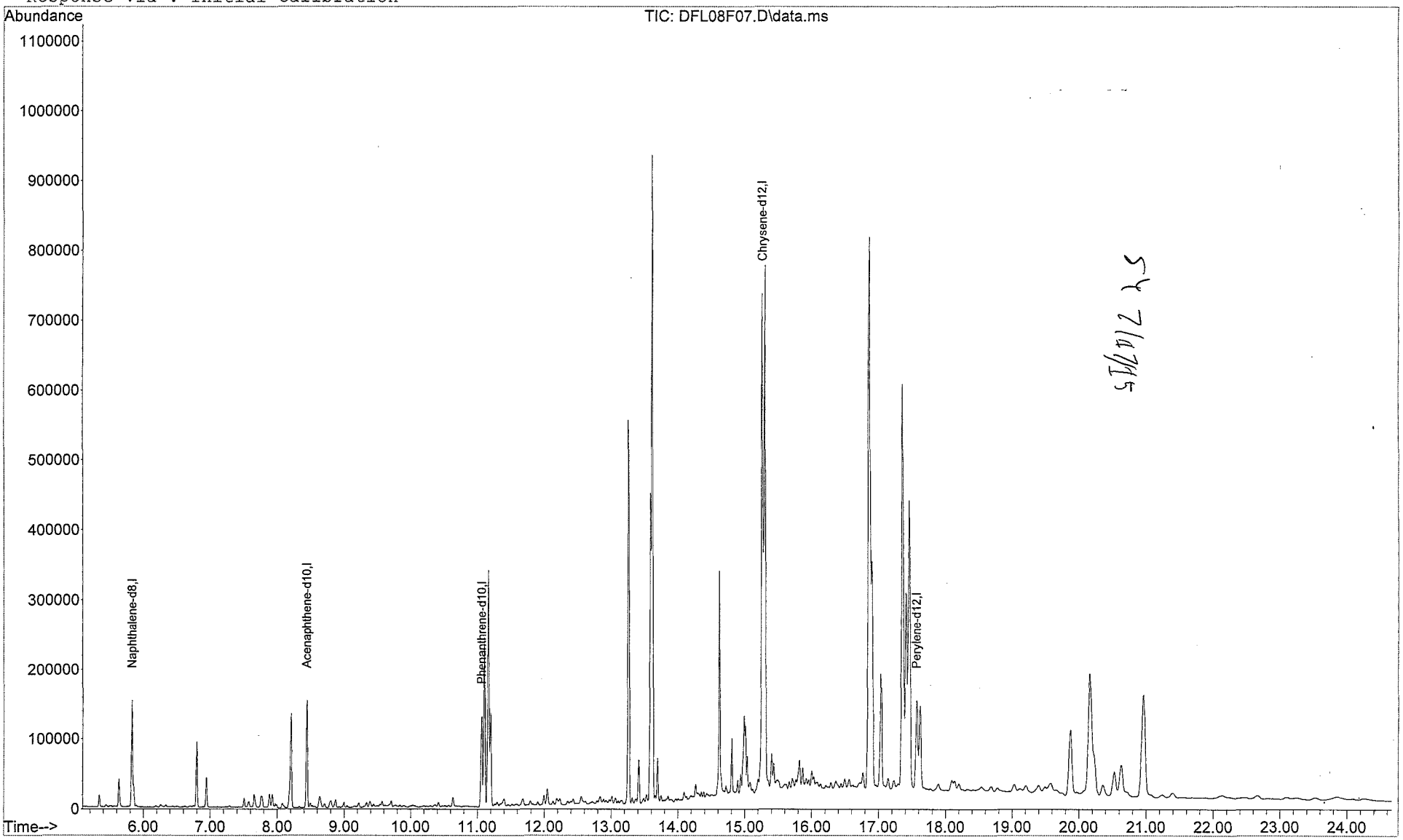
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	110	J
91-57-6	2-Methylnaphthalene	330	
208-96-8	Acenaphthylene	550	
83-32-9	Acenaphthene	200	U
86-73-7	Fluorene	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	980	
120-12-7	Anthracene	580	
206-44-0	Fluoranthene	1500	
129-00-0	Pyrene	2100	E
56-55-3	Benzo(a)anthracene	1600	
218-01-9	Chrysene	2200	E
205-99-2	Benzo(b)fluoranthene	3000	E
207-08-9	Benzo(k)fluoranthene	830	
50-32-8	Benzo(a)pyrene	1500	
193-39-5	Indeno(1,2,3-cd)pyrene	1500	
53-70-3	Dibenzo(a,h)anthracene	370	
191-24-2	Benzo(g,h,i)perylene	1200	

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL08F07.D Vial: 8
Acq On : 07/14/2015 17:45 Operator: DJC
Sample : 1515375007 F9M02 (50) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 11:55:36 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



57 7/17/15

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL08F07.D Vial: 8
Acq On : 07/14/2015 17:45 Operator: DJC
Sample : 1515375007 F9M02 (50) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 11:55:36 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

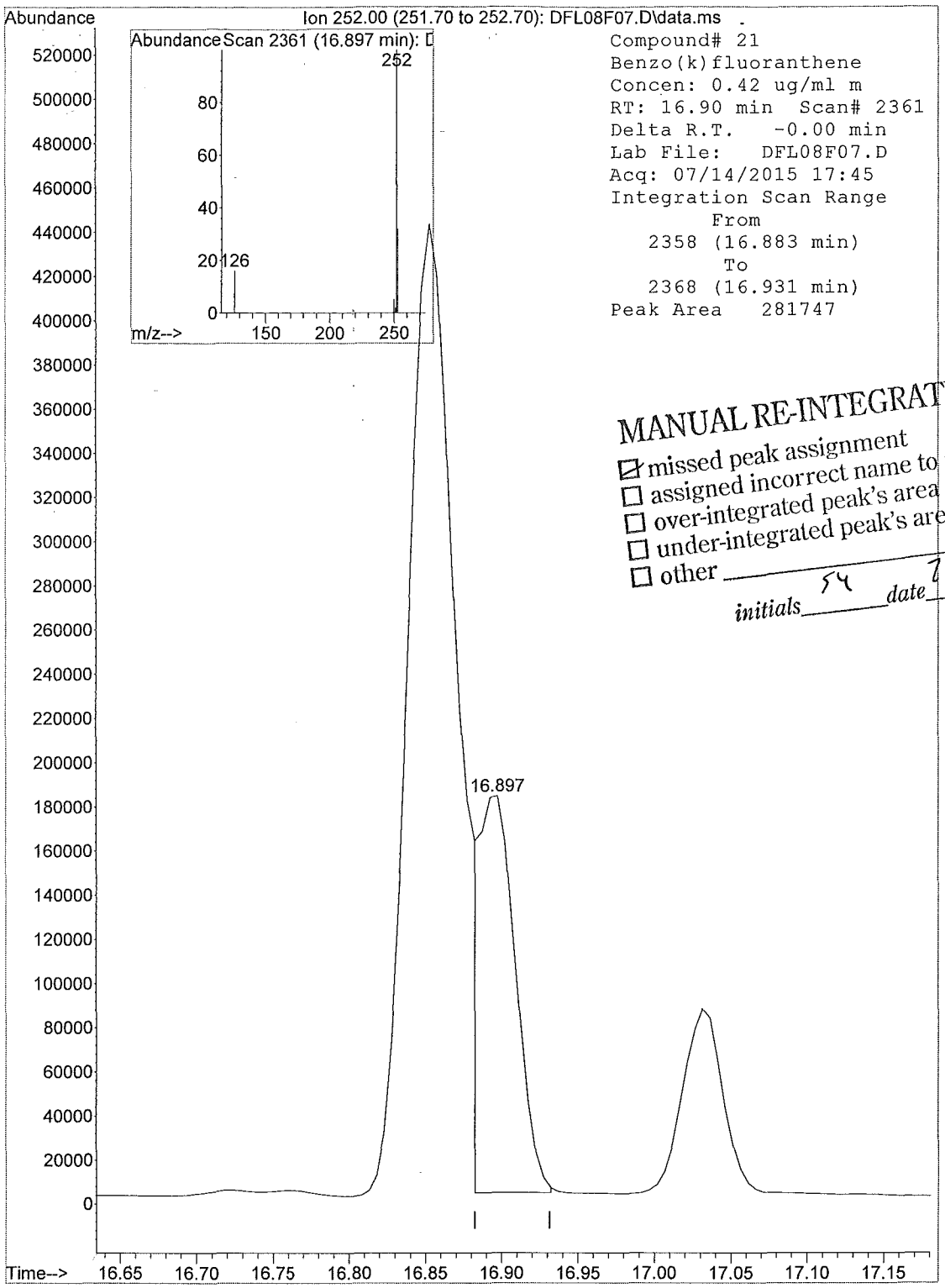
Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	160157	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	101289	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	176607	0.40 ug/ml	
15) Chrysene-d12	15.26	240	202613	0.40 ug/ml	
19) Perylene-d12	17.56	264	208830	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	2805	0.011ug/mL	
13) Fluoranthene-d10	13.23	212	6871	0.014ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.85	128	23384	0.056ug/ml	96
4) 2-Methylnaphthalene	6.80	142	43952	0.163ug/ml	100
6) Acenaphthylene	8.20	152	121449	0.274ug/ml	97
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.10	178	250289	0.492ug/ml	99
12) Anthracene	11.19	178	143457	0.290ug/ml	98
14) Fluoranthene	13.26	202	449618	0.777ug/ml	89
16) Pyrene	13.61	202	669815	1.054ug/ml	89
17) Benzo(a)anthracene	15.25	228	430954	0.798ug/ml	84
18) Chrysene	15.30	228	618175	1.083ug/ml	96
20) Benzo(b)fluoranthene	16.85	252	981260	1.507ug/ml	99
21) Benzo(k)fluoranthene	16.90	252	281747	0.418ug/ml m	98
22) Benzo(a)pyrene	17.45	252	459963	0.740ug/ml	95
23) Indeno(1,2,3-c,d)pyrene	20.16	276	413868	0.760ug/ml	100
24) Dibenzo(a,h)anthracene	20.22	278	110592	0.184ug/ml	92
25) Benzo(g,h,i)perylene	20.96	276	358682	0.586ug/ml	73

KY 7/17/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 01972

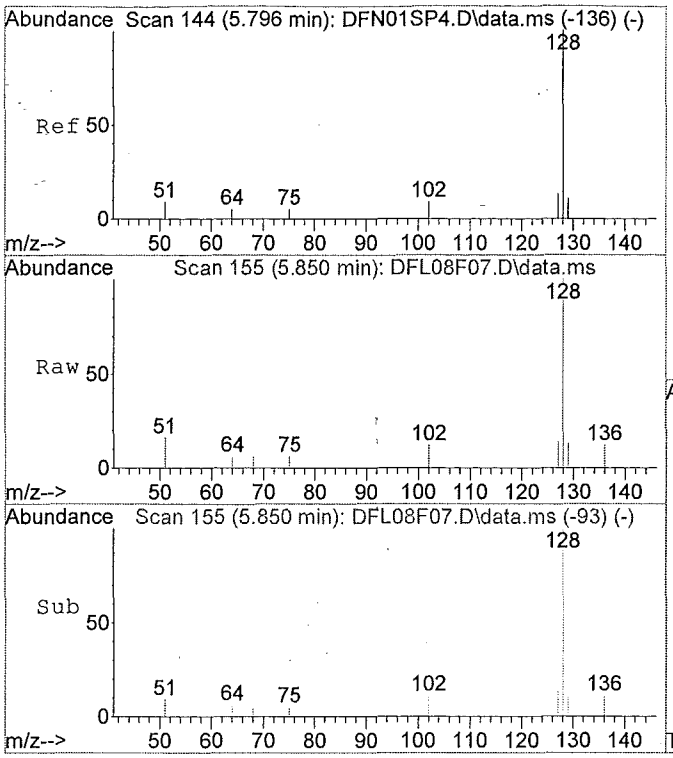
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

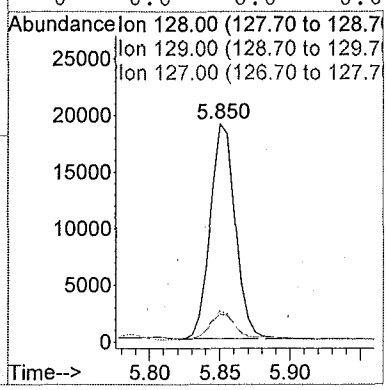
initials KY *date* 7/17/15

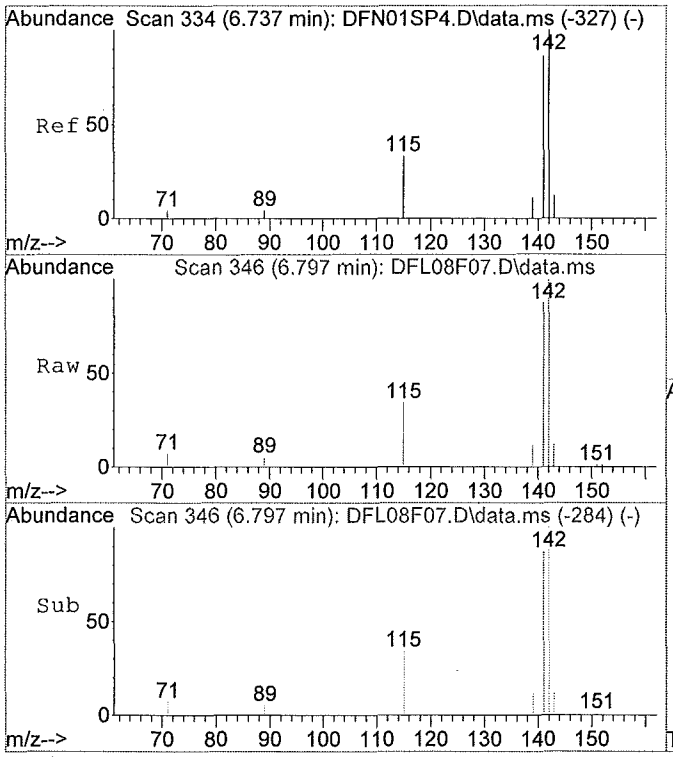


#2
Naphthalene
Concen: 0.06 ug/ml
RT: 5.85 min Scan# 155
Delta R.T. 0.01 min
Lab File: DFL08F07.D
Acq: 07/14/2015 17:45

Tgt Ion:128 Resp: 23384

Ion	Ratio	Lower	Upper
128	100		
129	13.4	0.0	0.0#
127	13.9	11.1	20.5
0	0.0	0.0	0.0

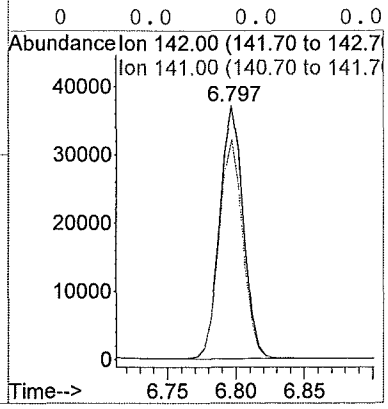


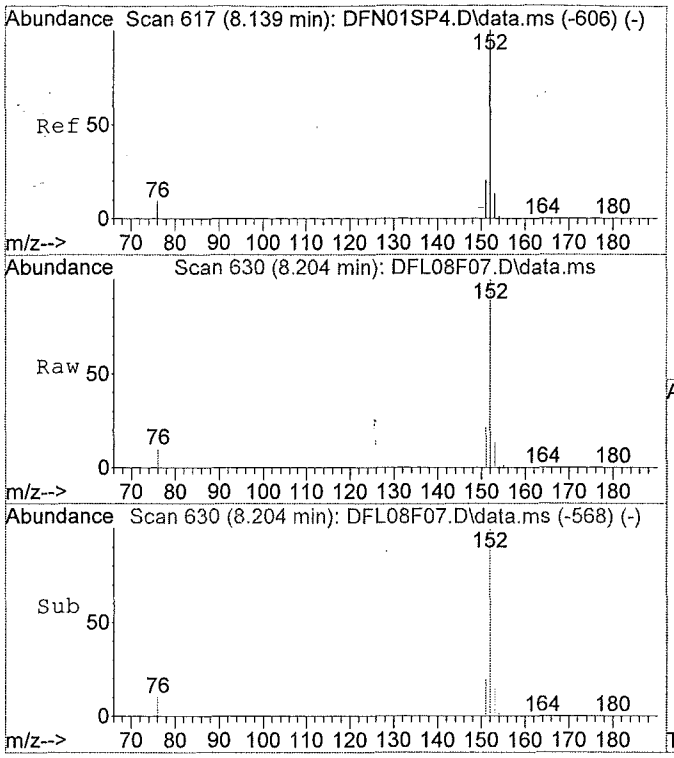


#4
2-Methylnaphthalene
Concen: 0.16 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.01 min
Lab File: DFL08F07.D
Acq: 07/14/2015 17:45

Tgt Ion:142 Resp: 43952

Ion	Ratio	Lower	Upper
142	100		
141	87.4	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

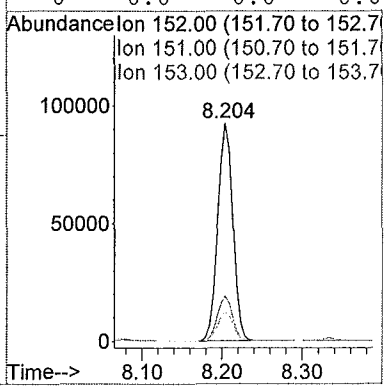


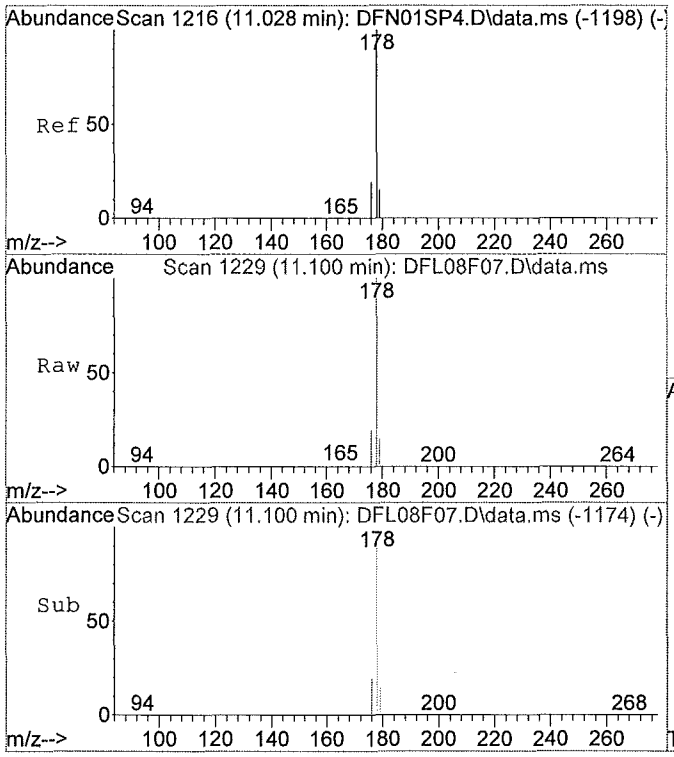


#6
Acenaphthylene
Concen: 0.27 ug/ml
RT: 8.20 min Scan# 630
Delta R.T. 0.01 min
Lab File: DFL08F07.D
Acq: 07/14/2015 17:45

Tgt Ion:152 Resp: 121449

Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.5	28.7
153	14.0	8.8	16.4
0	0.0	0.0	0.0

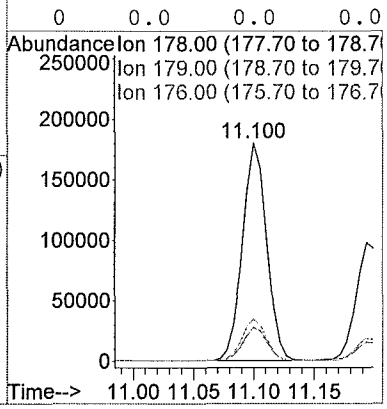


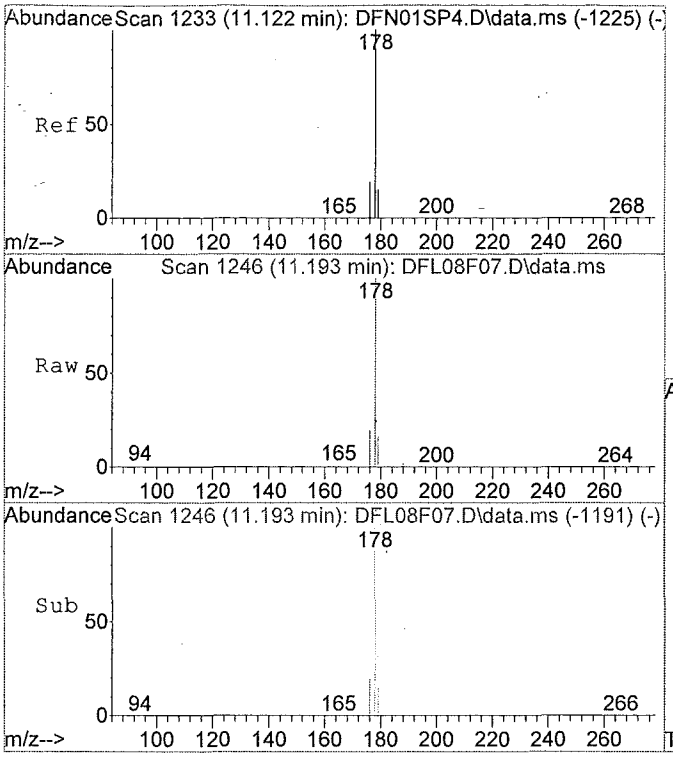


#11
Phenanthrene
Concen: 0.49 ug/ml
RT: 11.10 min Scan# 1229
Delta R.T. 0.00 min
Lab File: DFL08F07.D
Acq: 07/14/2015 17:45

Tgt Ion:178 Resp: 250289

Ion	Ratio	Lower	Upper
178	100		
179	15.5	11.1	20.5
176	19.4	14.1	26.1
0	0.0	0.0	0.0

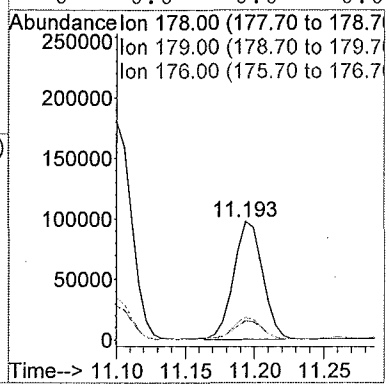


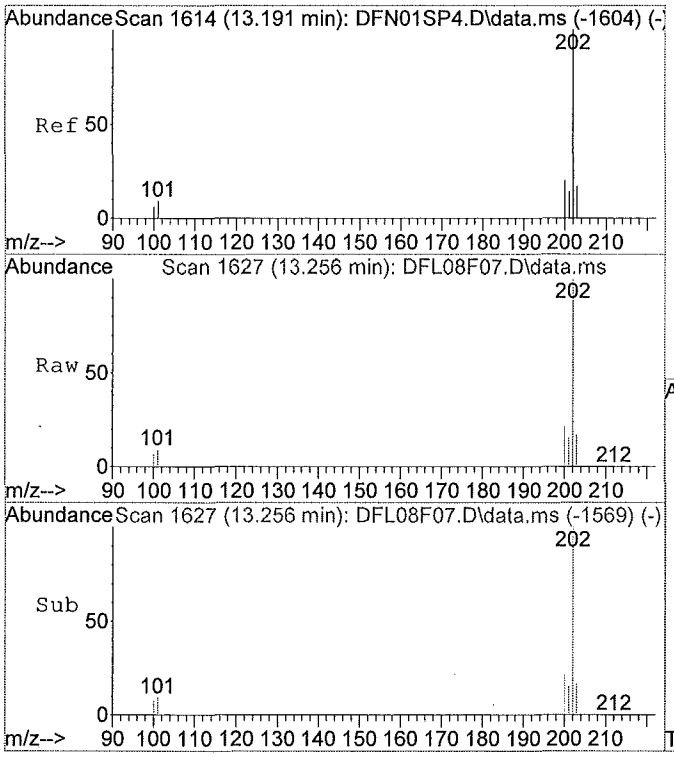


#12
Anthracene
Concen: 0.29 ug/ml
RT: 11.19 min Scan# 1246
Delta R.T. 0.00 min
Lab File: DFL08F07.D
Acq: 07/14/2015 17:45

Tgt Ion:178 Resp: 143457

Ion	Ratio	Lower	Upper
178	100		
179	16.5	11.6	21.6
176	18.6	13.9	25.7
0	0.0	0.0	0.0

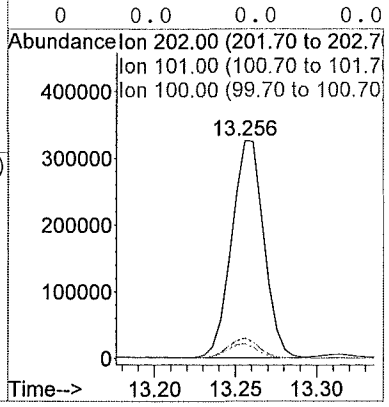


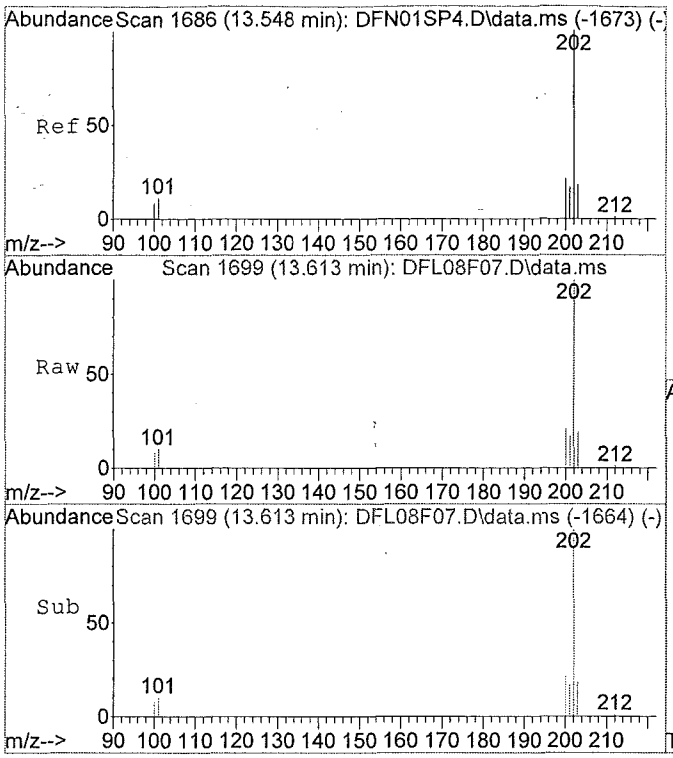


#14
Fluoranthene
Concen: 0.78 ug/ml
RT: 13.26 min Scan# 1627
Delta R.T. 0.00 min
Lab File: DFL08F07.D
Acq: 07/14/2015 17:45

Tgt Ion:202 Resp: 449618

Ion	Ratio	Lower	Upper
202	100		
101	9.0	9.4	17.6#
100	6.5	0.0	0.0#
0	0.0	0.0	0.0

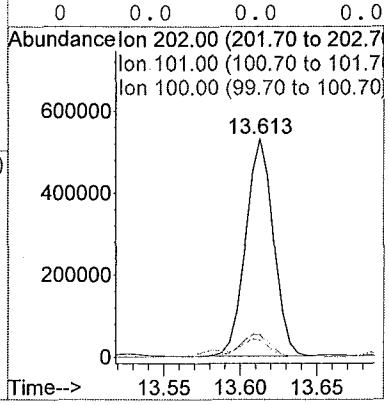


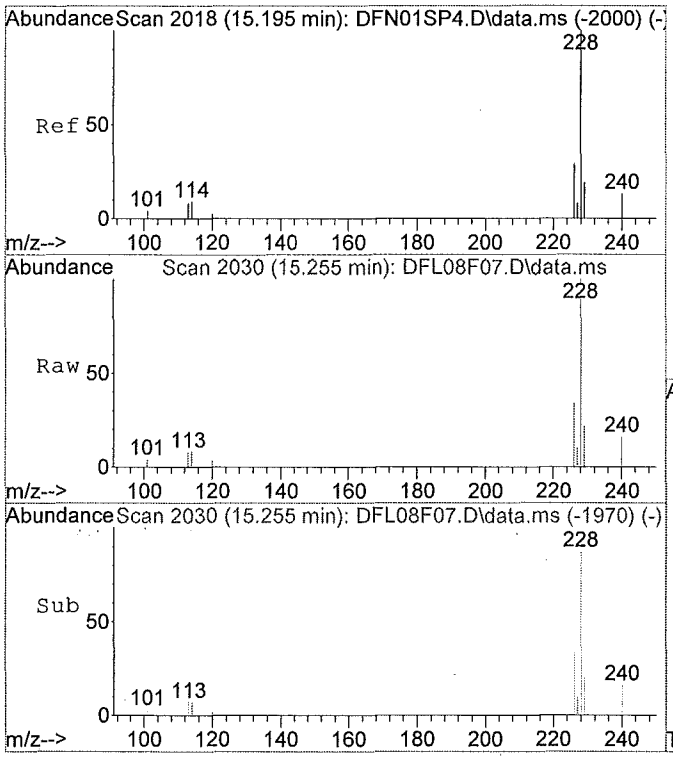


#16
Pyrene
Concen: 1.05 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. 0.00 min
Lab File: DFL08F07.D
Acq: 07/14/2015 17:45

Tgt Ion:202 Resp: 669815

Ion	Ratio	Lower	Upper
202	100		
101	11.5	10.6	19.6
100	8.2	9.4	17.4#
0	0.0	0.0	0.0

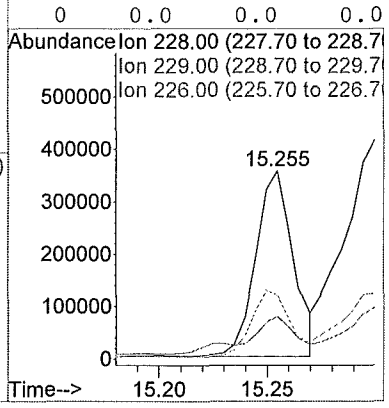


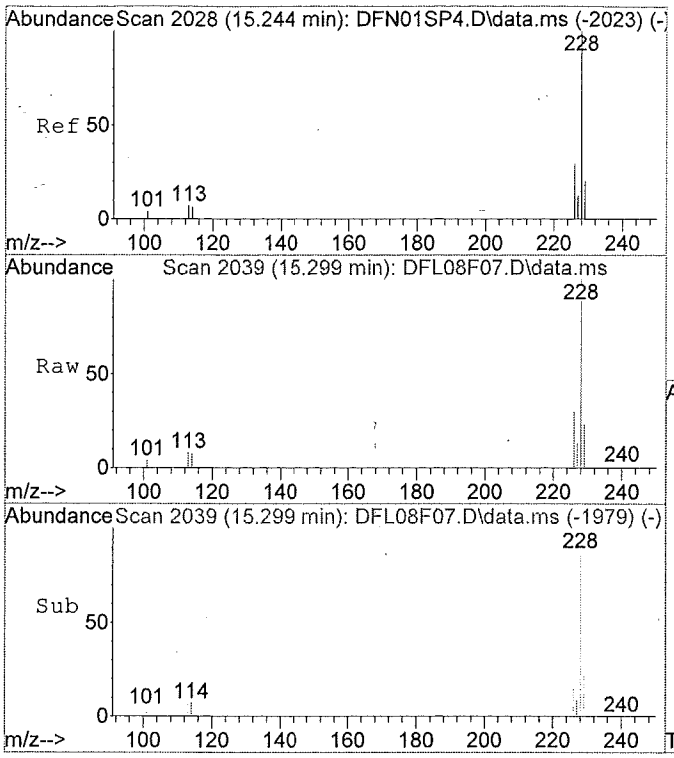


#17
Benzo(a)anthracene
Concen: 0.80 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. 0.00 min
Lab File: DFL08F07.D
Acq: 07/14/2015 17:45

Tgt Ion:228 Resp: 430954

Ion	Ratio	Lower	Upper
228	100		
229	25.6	14.5	26.9
226	37.0	18.5	34.3#
0	0.0	0.0	0.0

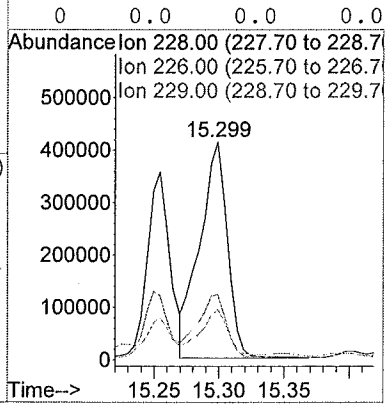


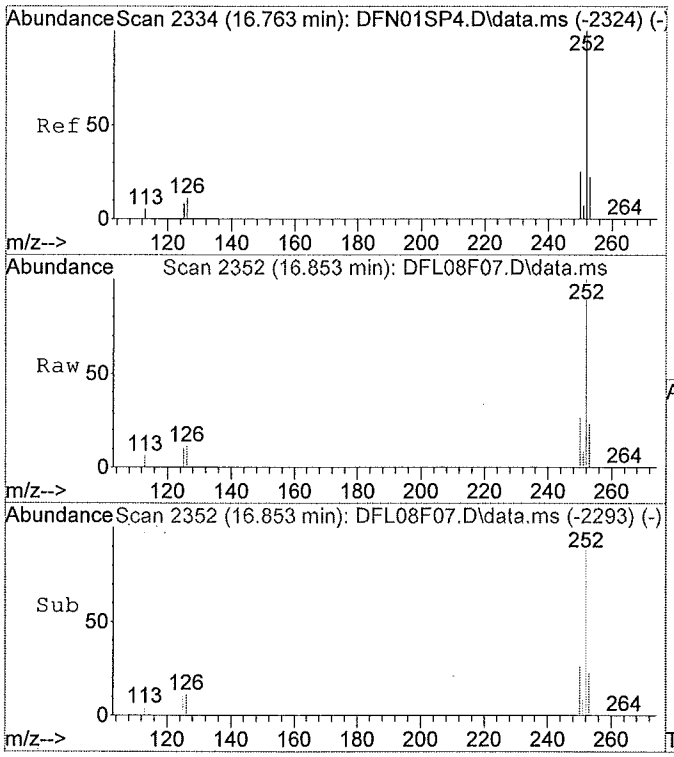


#18
Chrysene
Concen: 1.08 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFL08F07.D
Acq: 07/14/2015 17:45

Tgt Ion:228 Resp: 618175

Ion	Ratio	Lower	Upper
228	100		
226	31.2	19.7	36.7
229	20.0	14.5	26.9
0	0.0	0.0	0.0

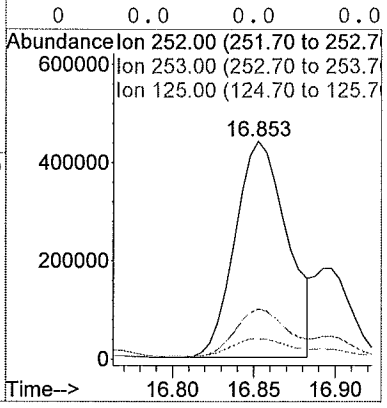


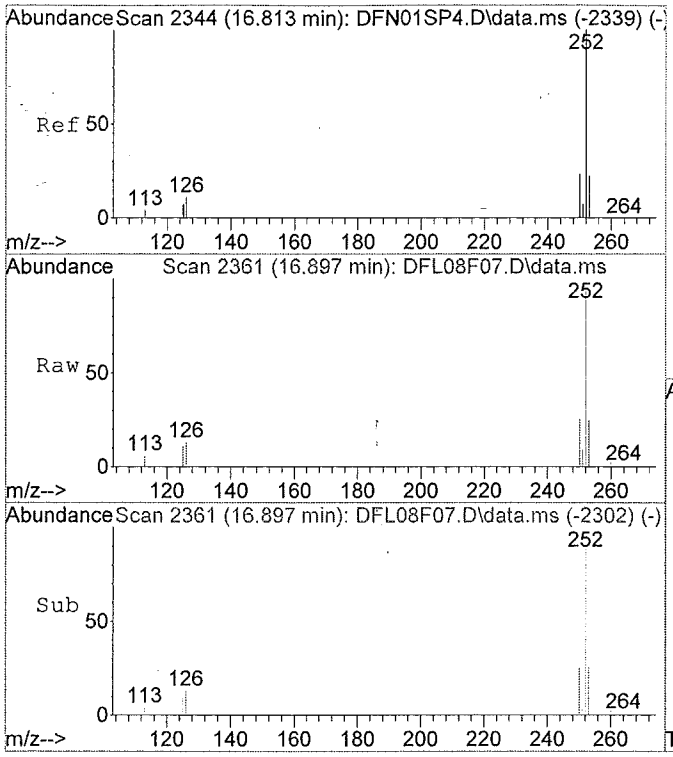


#20
Benzo(b)fluoranthene
Concen: 1.51 ug/ml
RT: 16.85 min Scan# 2352
Delta R.T. 0.00 min
Lab File: DFL08F07.D
Acq: 07/14/2015 17:45

Tgt Ion:252 Resp: 981260

Ion	Ratio	Lower	Upper
252	100		
253	22.2	15.3	28.3
125	11.3	0.0	0.0#
0	0.0	0.0	0.0

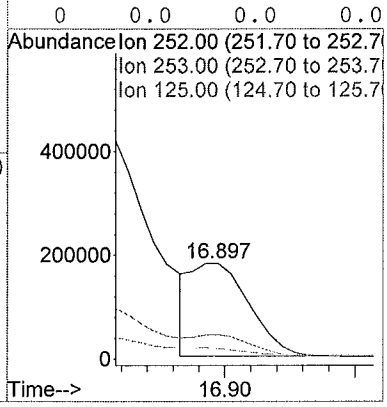


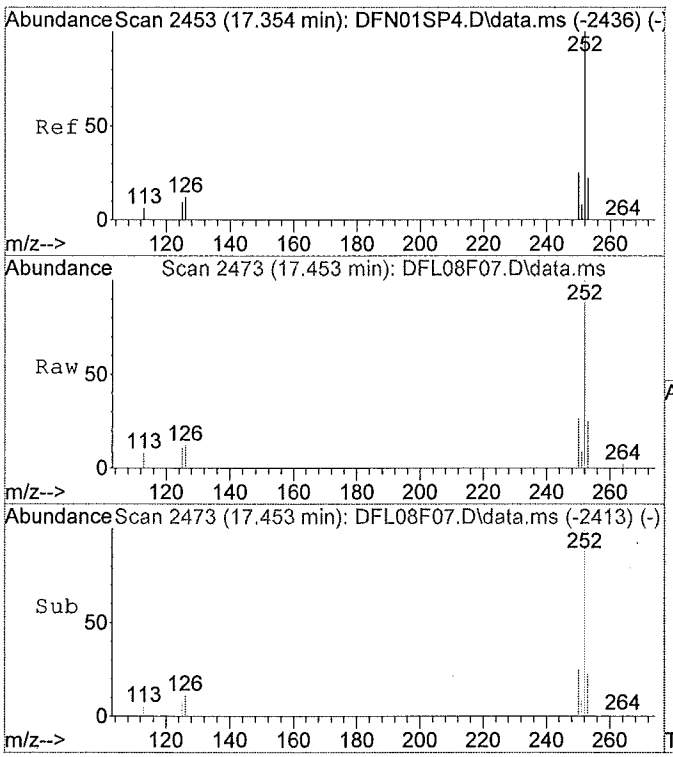


#21
Benzo(k)fluoranthene
Concen: 0.42 ug/ml m
RT: 16.90 min Scan# 2361
Delta R.T. -0.00 min
Lab File: DFL08F07.D
Acq: 07/14/2015 17:45

Tgt Ion:252 Resp: 281747

Ion	Ratio	Lower	Upper
252	100		
253	77.3	15.0	27.8#
125	39.3	0.0	0.0#
0	0.0	0.0	0.0

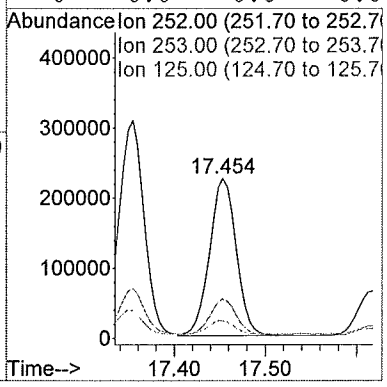


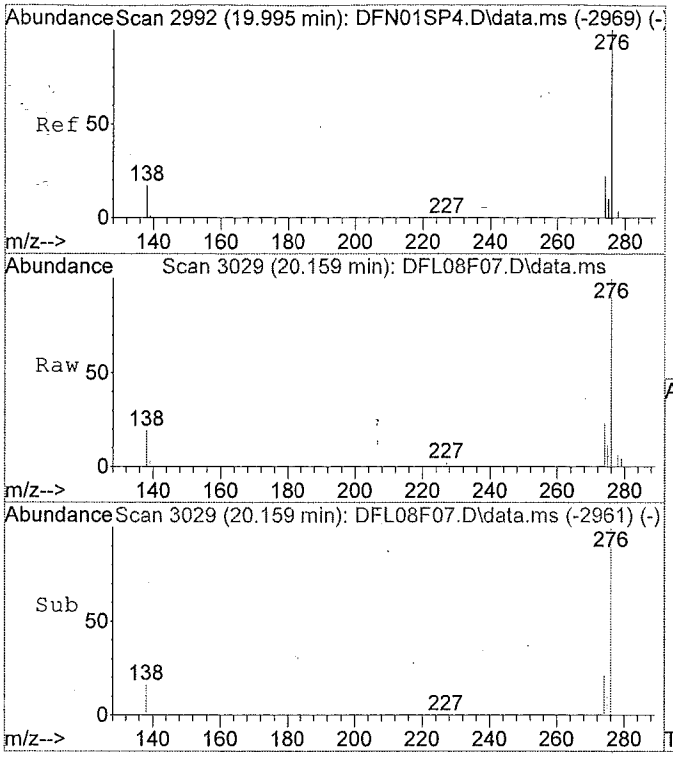


#22
Benzo(a)pyrene
Concen: 0.74 ug/ml
RT: 17.45 min Scan# 2473
Delta R.T. 0.00 min
Lab File: DFL08F07.D
Acq: 07/14/2015 17:45

Tgt Ion:252 Resp: 459963

Ion	Ratio	Lower	Upper
252	100		
253	23.6	15.0	27.8
125	8.3	0.0	0.0#
0	0.0	0.0	0.0

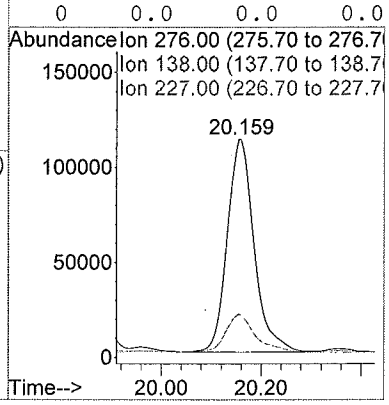


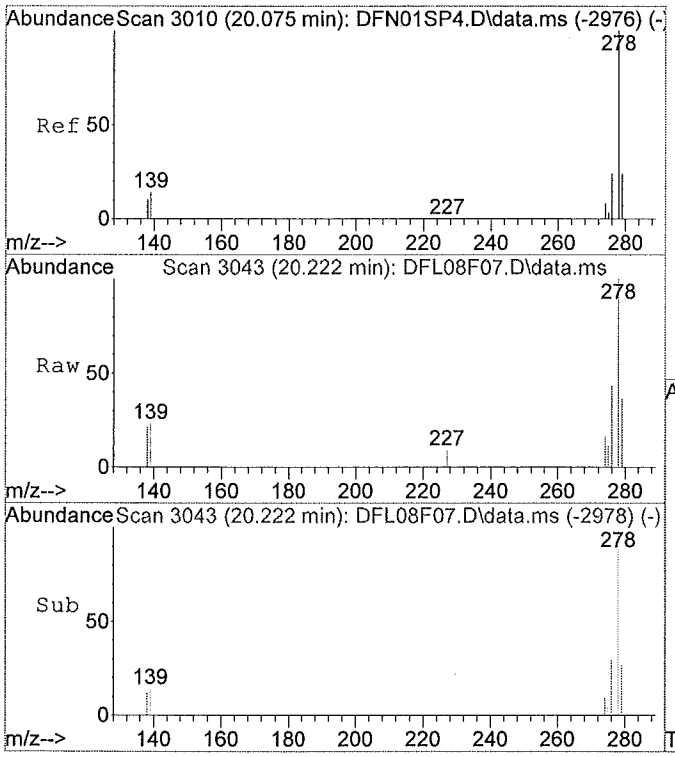


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.76 ug/ml
RT: 20.16 min Scan# 3029
Delta R.T. 0.00 min
Lab File: DFL08F07.D
Acq: 07/14/2015 17:45

Tgt Ion:276 Resp: 413868

Ion	Ratio	Lower	Upper
276	100		
138	19.8	0.0	0.0#
227	0.2	0.0	0.0#
0	0.0	0.0	0.0

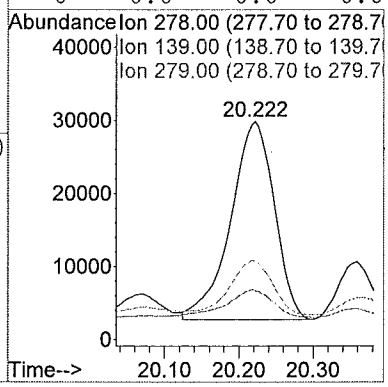


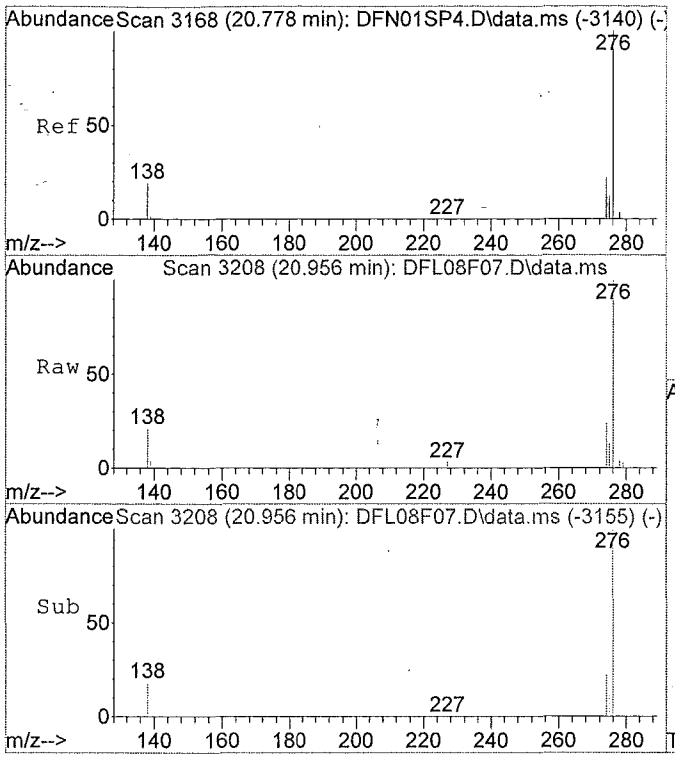


#24
Dibenzo(a,h)anthracene
Concen: 0.18 ug/ml
RT: 20.22 min Scan# 3043
Delta R.T. -0.01 min
Lab File: DFL08F07.D
Acq: 07/14/2015 17:45

Tgt Ion:278 Resp: 110592

Ion	Ratio	Lower	Upper
278	100		
139	15.6	0.0	0.0#
279	26.5	15.8	29.3
0	0.0	0.0	0.0

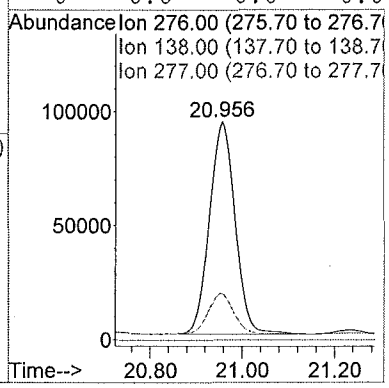




#25
Benzo(g,h,i)perylene
Concen: 0.59 ug/ml
RT: 20.96 min Scan# 3208
Delta R.T. 0.00 min
Lab File: DFL08F07.D
Acq: 07/14/2015 17:45

Tgt Ion:276 Resp: 358682

Ion	Ratio	Lower	Upper
276	100		
138	20.0	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.

F9M02DL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375007DL

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFM02F07

Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/15/2015

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 100.0

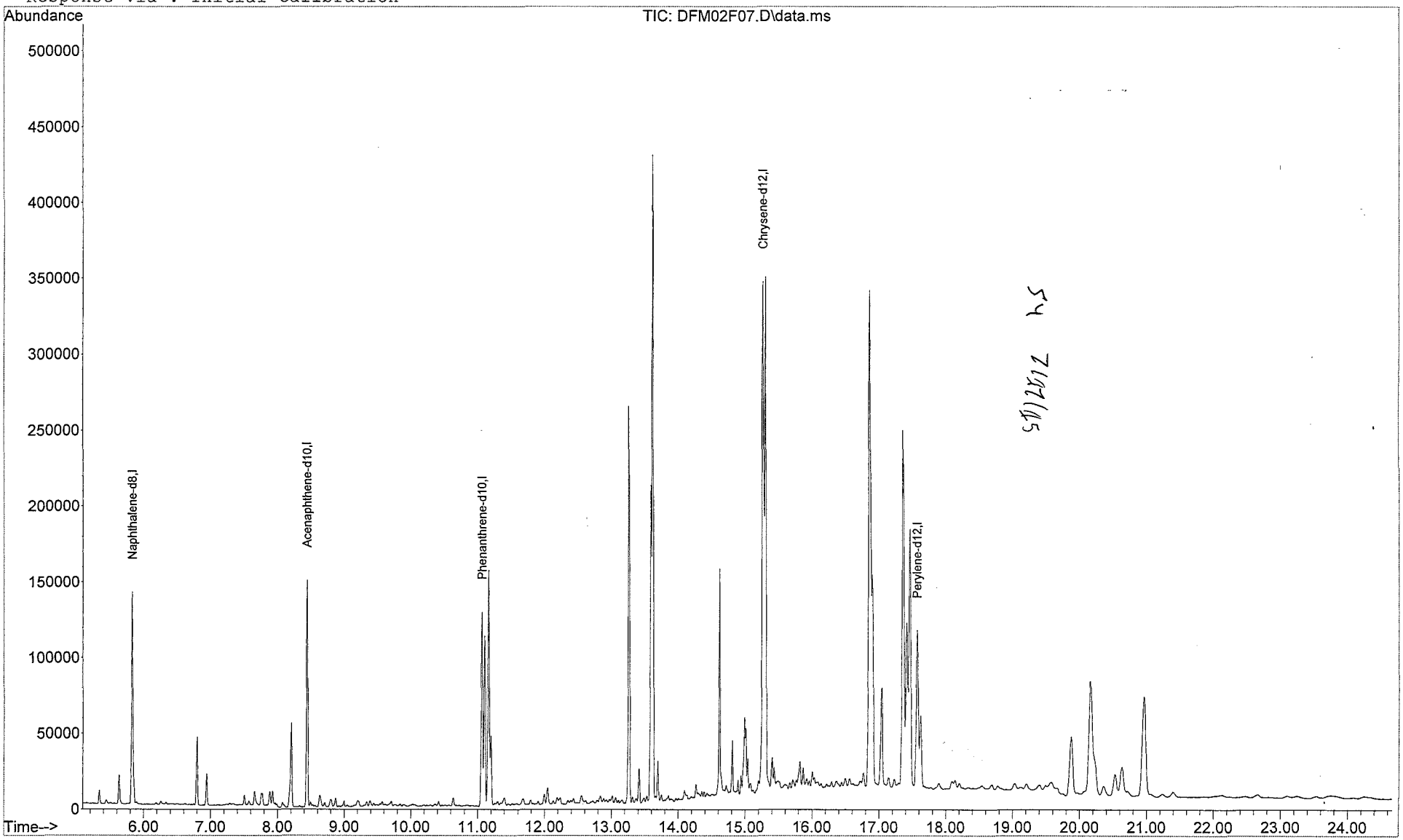
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	110	JD
91-57-6	2-Methylnaphthalene	320	JD
208-96-8	Acenaphthylene	460	D
83-32-9	Acenaphthene	390	U
86-73-7	Fluorene	390	U
87-86-5	Pentachlorophenol	800	U
85-01-8	Phenanthrene	970	D
120-12-7	Anthracene	420	D
206-44-0	Fluoranthene	1500	D
129-00-0	Pyrene	2200	D
56-55-3	Benzo(a)anthracene	1600	D
218-01-9	Chrysene	2100	D
205-99-2	Benzo(b)fluoranthene	3100	D
207-08-9	Benzo(k)fluoranthene	800	D
50-32-8	Benzo(a)pyrene	1500	D
193-39-5	Indeno(1,2,3-cd)pyrene	1600	D
53-70-3	Dibenzo(a,h)anthracene	370	JD
191-24-2	Benzo(g,h,i)perylene	1300	D

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\15JUL15D\DFM02F07.D Vial: 2
Acq On : 07/15/2015 11:36 Operator: DJC
Sample : 1515375007DL F9M02DL (100) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 12:23:15 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\15JUL15D\DFM02F07.D Vial: 2
Acq On : 07/15/2015 11:36 Operator: DJC
Sample : 1515375007DL F9M02DL (100) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 12:23:15 2015 Results File: DSOM_SIMJ2.RES

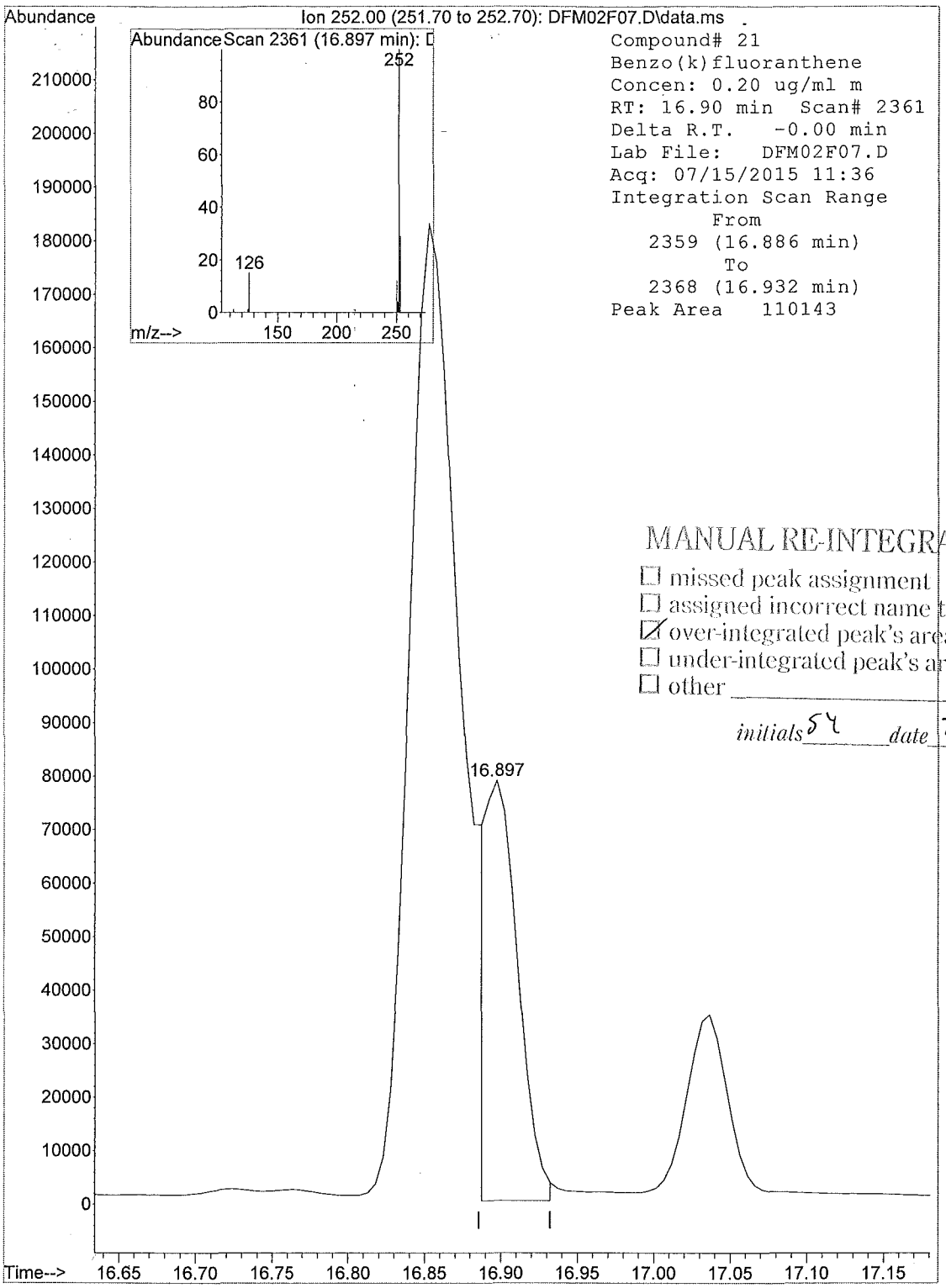
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	160732	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	99786	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	173742	0.40 ug/ml	
15) Chrysene-d12	15.27	240	184258	0.40 ug/ml	
19) Perylene-d12	17.57	264	170697	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	1466	0.006ug/mL	
13) Fluoranthene-d10	13.23	212	3165	0.007ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.85	128	11645	0.028ug/ml	94
4) 2-Methylnaphthalene	6.80	142	21441	0.079ug/ml	99
6) Acenaphthylene	8.20	152	50313	0.115ug/ml	96
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.10	178	121767	0.243ug/ml	99
12) Anthracene	11.19	178	50696	0.104ug/ml	99
14) Fluoranthene	13.26	202	213747	0.375ug/ml	89
16) Pyrene	13.61	202	316574	0.548ug/ml	89
17) Benzo(a)anthracene	15.25	228	195047	0.397ug/ml	87
18) Chrysene	15.30	228	270396	0.521ug/ml	95
20) Benzo(b)fluoranthene	16.85	252	420353	0.790ug/ml	99
21) Benzo(k)fluoranthene	16.90	252	110143	0.200ug/ml m SY	98
22) Benzo(a)pyrene	17.46	252	187512	0.369ug/ml 7/17/15	96
23) Indeno(1,2,3-c,d)pyrene	20.16	276	175972	0.395ug/ml	100
24) Dibenzo(a,h)anthracene	20.23	278	46132	0.094ug/ml	92
25) Benzo(g,h,i)perylene	20.96	276	162573	0.325ug/ml	72

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 01084

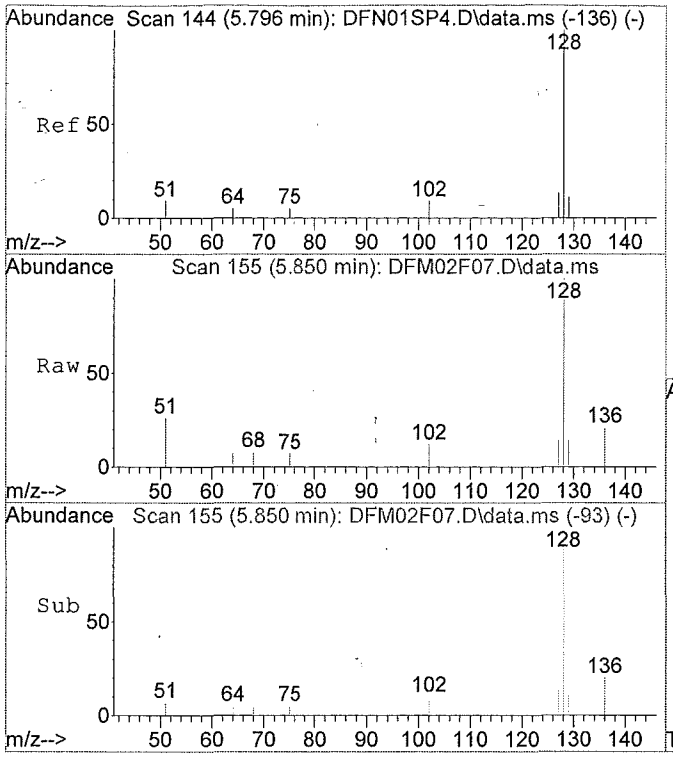
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

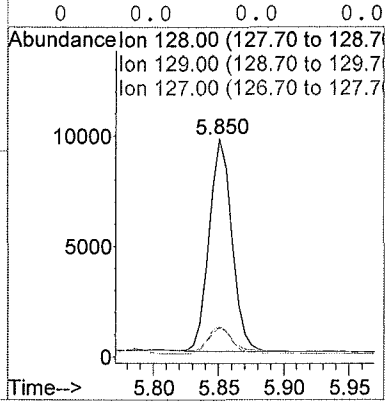
initials SY *date* 7/17/15

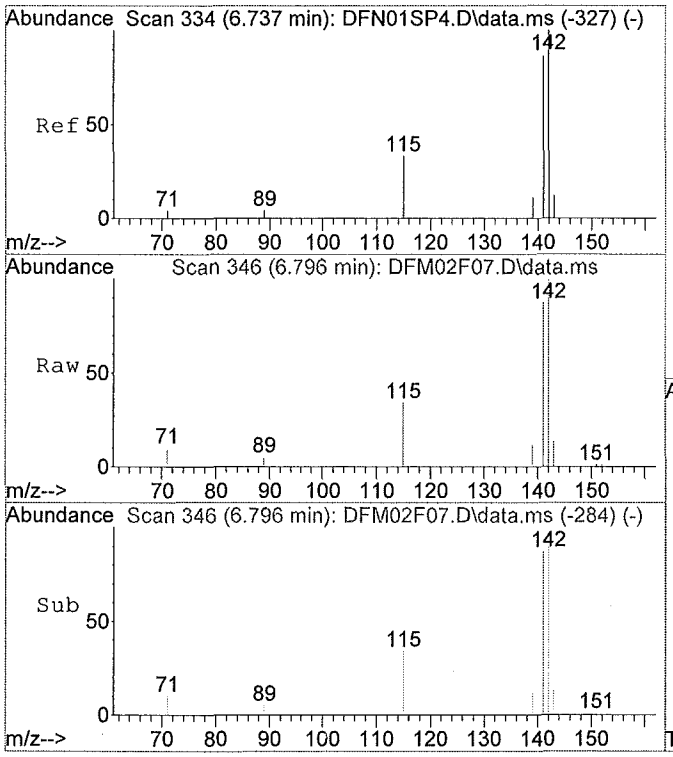


#2
Naphthalene
Concen: 0.03 ug/ml
RT: 5.85 min Scan# 155
Delta R.T. 0.00 min
Lab File: DFM02F07.D
Acq: 07/15/2015 11:36

Tgt Ion:128 Resp: 11645

Ion	Ratio	Lower	Upper
128	100		
129	13.1	0.0	0.0#
127	13.1	11.1	20.5
0	0.0	0.0	0.0

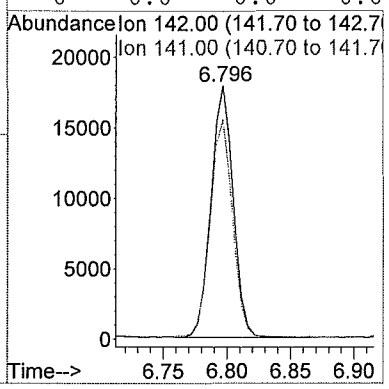


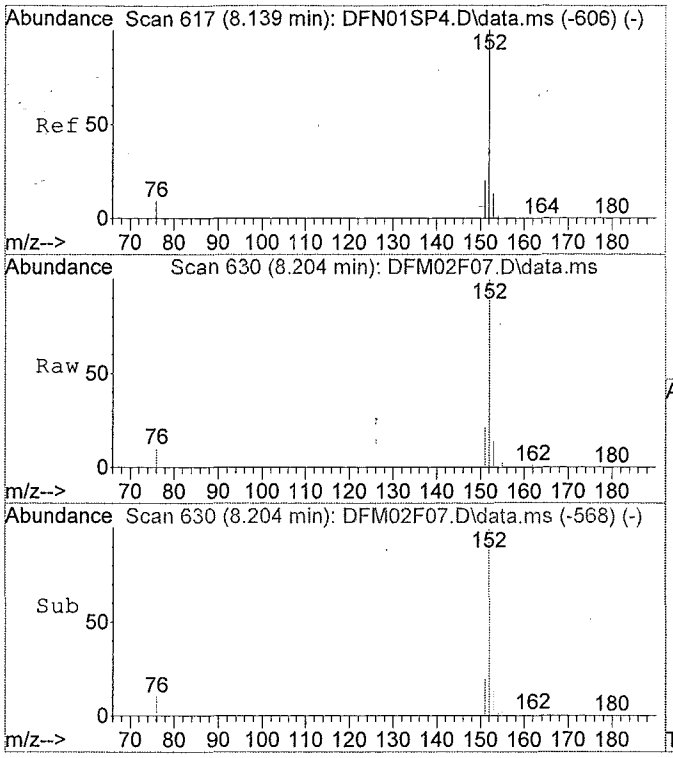


#4
2-Methylnaphthalene
Concen: 0.08 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.00 min
Lab File: DFM02F07.D
Acq: 07/15/2015 11:36

Tgt Ion:142 Resp: 21441

Ion	Ratio	Lower	Upper
142	100		
141	88.1	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

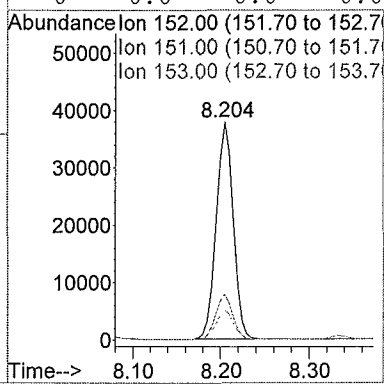


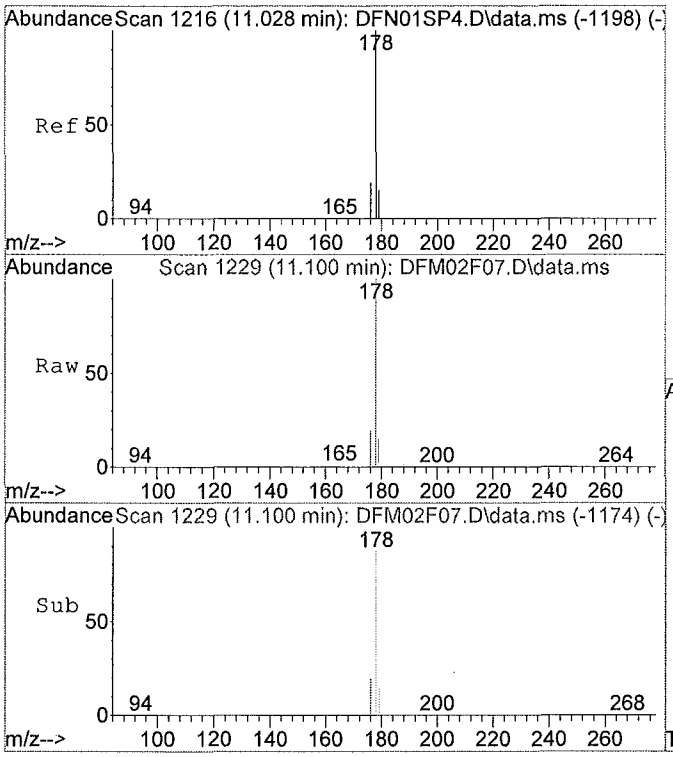


#6
Acenaphthylene
Concen: 0.12 ug/ml
RT: 8.20 min Scan# 630
Delta R.T. 0.00 min
Lab File: DFM02F07.D
Acq: 07/15/2015 11:36

Tgt Ion:152 Resp: 50313

Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.5	28.7
153	14.3	8.8	16.4
0	0.0	0.0	0.0

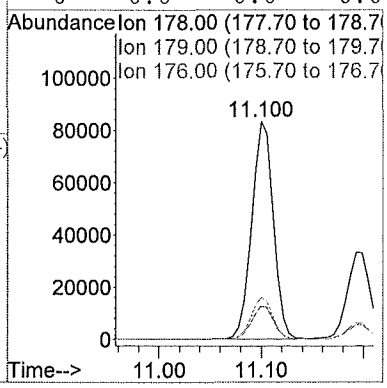


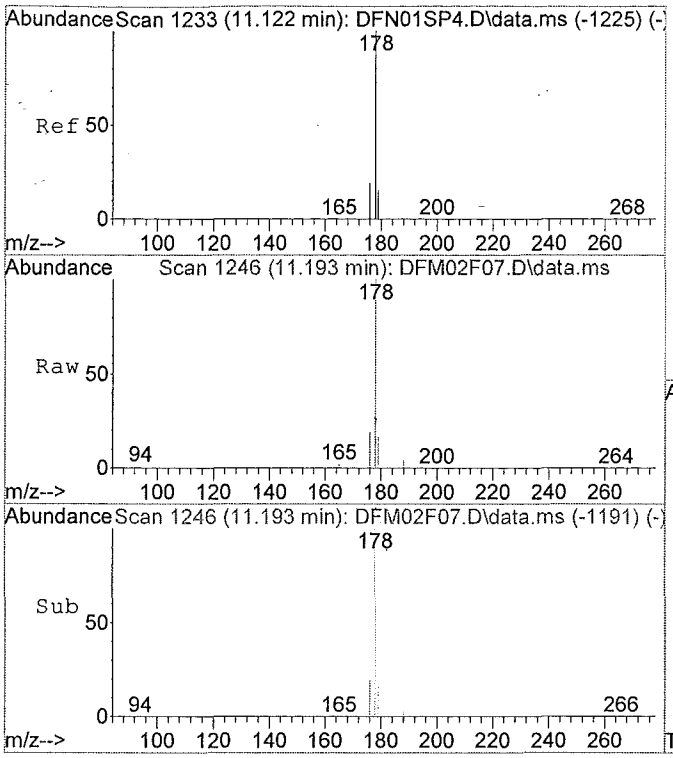


#11
Phenanthrene
Concen: 0.24 ug/ml
RT: 11.10 min Scan# 1229
Delta R.T. 0.00 min
Lab File: DFM02F07.D
Acq: 07/15/2015 11:36

Tgt Ion:178 Resp: 121767

Ion	Ratio	Lower	Upper
178	100		
179	15.5	11.1	20.5
176	19.2	14.1	26.1
0	0.0	0.0	0.0

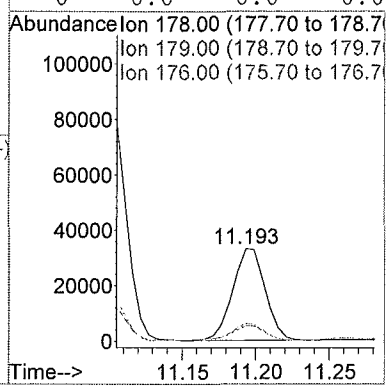


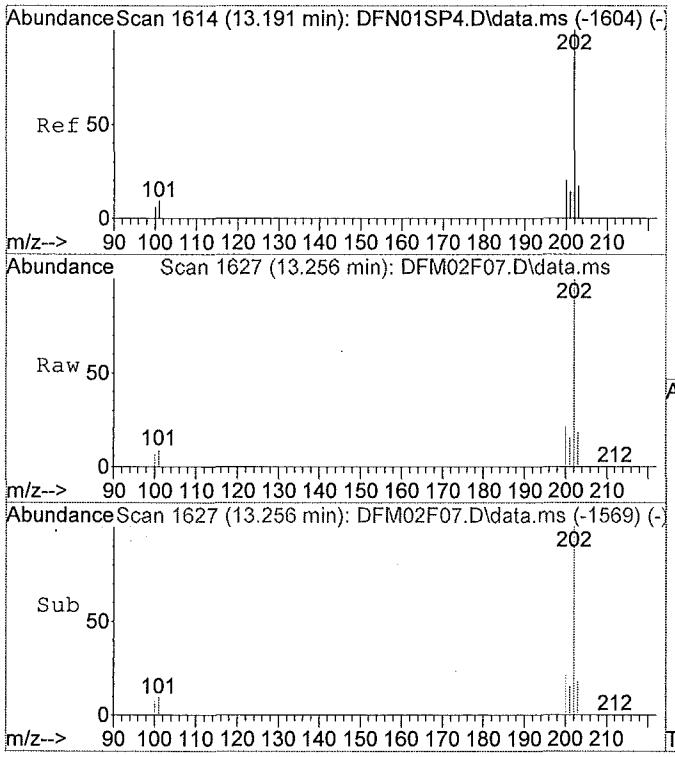


#12
Anthracene
Concen: 0.10 ug/ml
RT: 11.19 min Scan# 1246
Delta R.T. 0.00 min
Lab File: DFM02F07.D
Acq: 07/15/2015 11:36

Tgt Ion:178 Resp: 50696

Ion	Ratio	Lower	Upper
178	100		
179	16.7	11.6	21.6
176	18.9	13.9	25.7
0	0.0	0.0	0.0

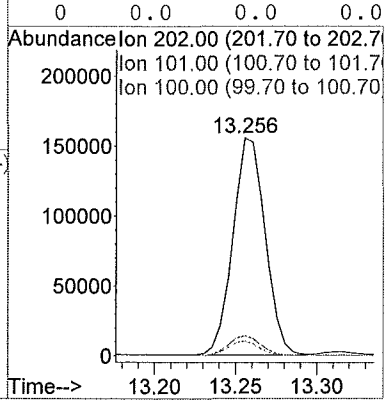


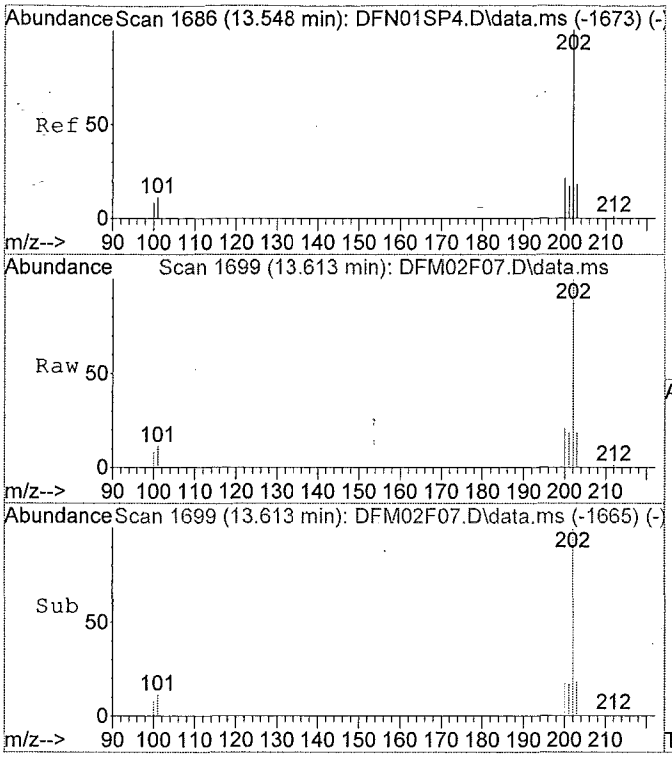


#14
Fluoranthene
Concen: 0.38 ug/ml
RT: 13.26 min Scan# 1627
Delta R.T. 0.00 min
Lab File: DFM02F07.D
Acq: 07/15/2015 11:36

Tgt Ion:202 Resp: 213747

Ion	Ratio	Lower	Upper
202	100		
101	9.1	9.4	17.6#
100	6.5	0.0	0.0#
0	0.0	0.0	0.0

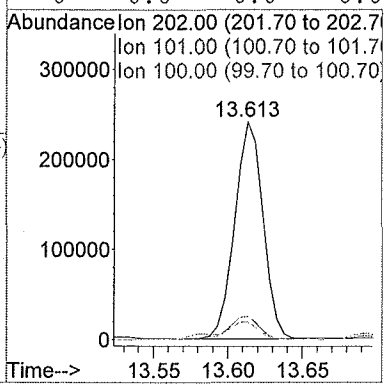


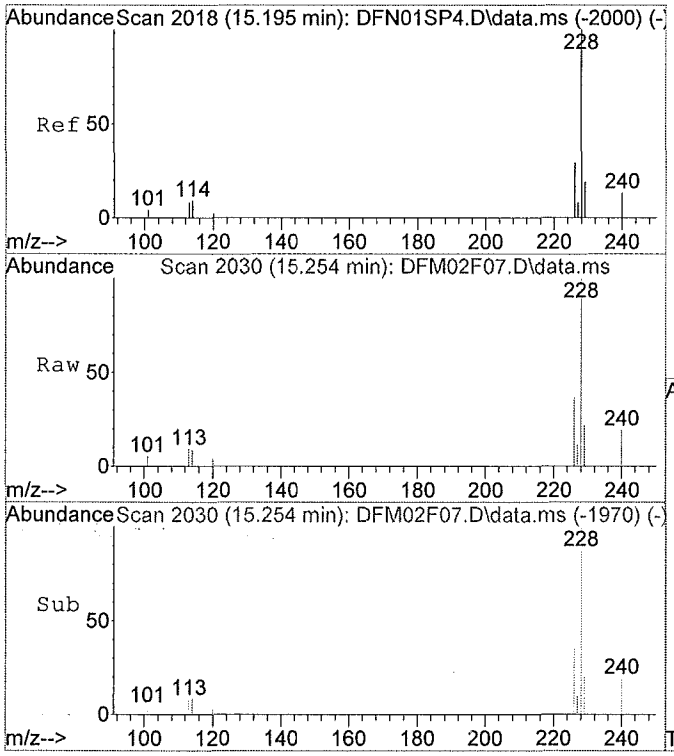


#16
Pyrene
Concen: 0.55 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. 0.00 min
Lab File: DFM02F07.D
Acq: 07/15/2015 11:36

Tgt Ion:202 Resp: 316574

Ion	Ratio	Lower	Upper
202	100		
101	11.4	10.6	19.6
100	8.2	9.4	17.4#
0	0.0	0.0	0.0

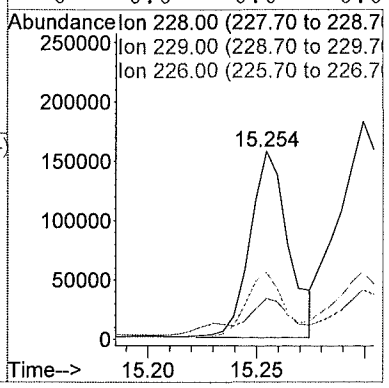


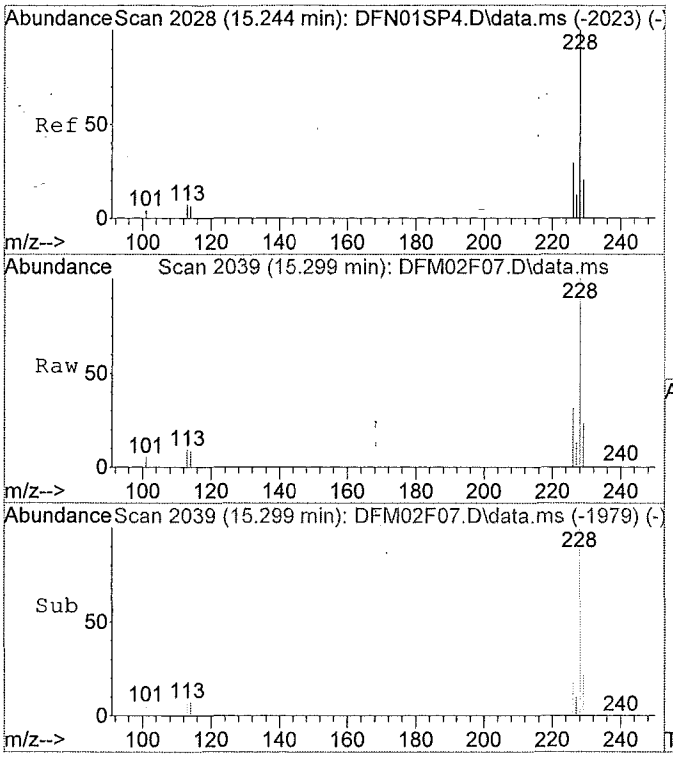


#17
Benzo(a)anthracene
Concen: 0.40 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. 0.00 min
Lab File: DFM02F07.D
Acq: 07/15/2015 11:36

Tgt Ion:228 Resp: 195047

Ion	Ratio	Lower	Upper
228	100		
229	25.6	14.5	26.9
226	33.7	18.5	34.3
0	0.0	0.0	0.0

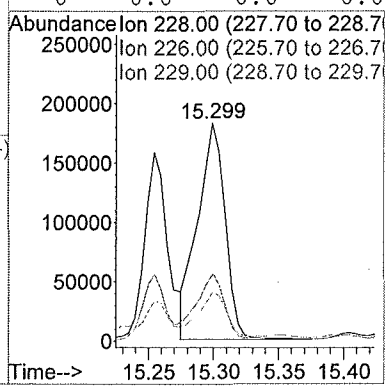


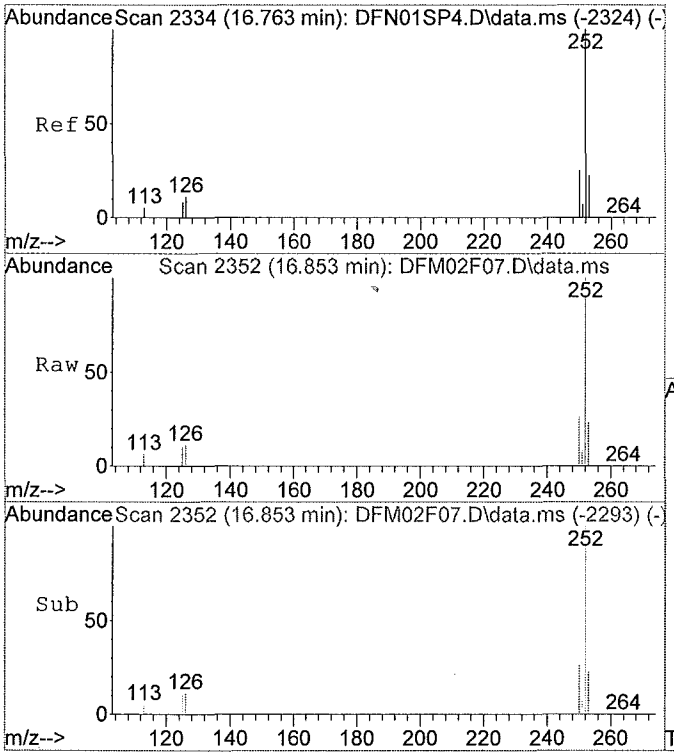


#18
Chrysene
Concen: 0.52 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFM02F07.D
Acq: 07/15/2015 11:36

Tgt Ion:228 Resp: 270396

Ion	Ratio	Lower	Upper
228	100		
226	32.5	19.7	36.7
229	19.9	14.5	26.9
0	0.0	0.0	0.0

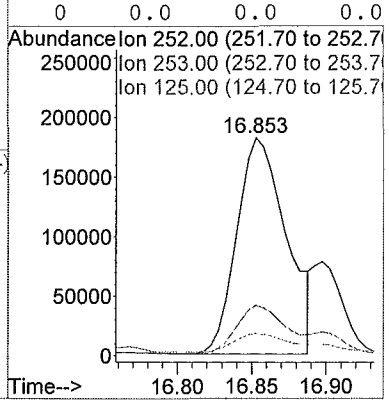


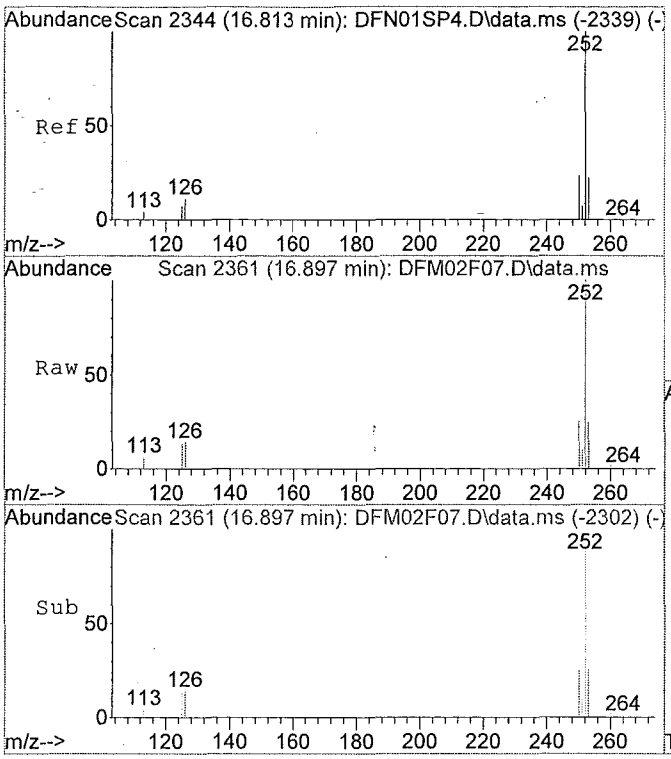


#20
Benzo(b)fluoranthene
Concen: 0.79 ug/ml
RT: 16.85 min Scan# 2352
Delta R.T. 0.00 min
Lab File: DFM02F07.D
Acq: 07/15/2015 11:36

Tgt Ion:252 Resp: 420353

Ion	Ratio	Lower	Upper
252	100		
253	22.2	15.3	28.3
125	11.1	0.0	0.0#
0	0.0	0.0	0.0

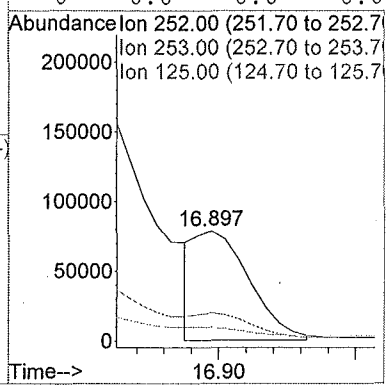


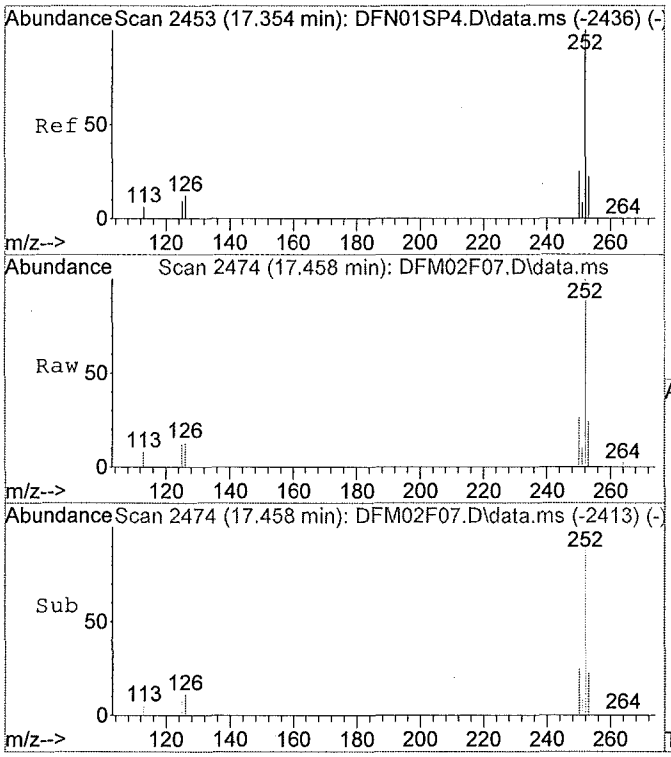


#21
Benzo(k)fluoranthene
Concen: 0.20 ug/ml m
RT: 16.90 min Scan# 2361
Delta R.T. -0.00 min
Lab File: DFM02F07.D
Acq: 07/15/2015 11:36

Tgt Ion:252 Resp: 110143

Ion	Ratio	Lower	Upper
252	100		
253	84.9	15.0	27.8#
125	42.3	0.0	0.0#
0	0.0	0.0	0.0

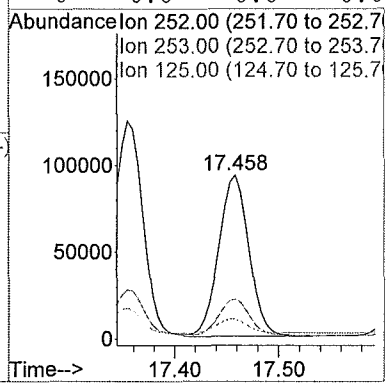


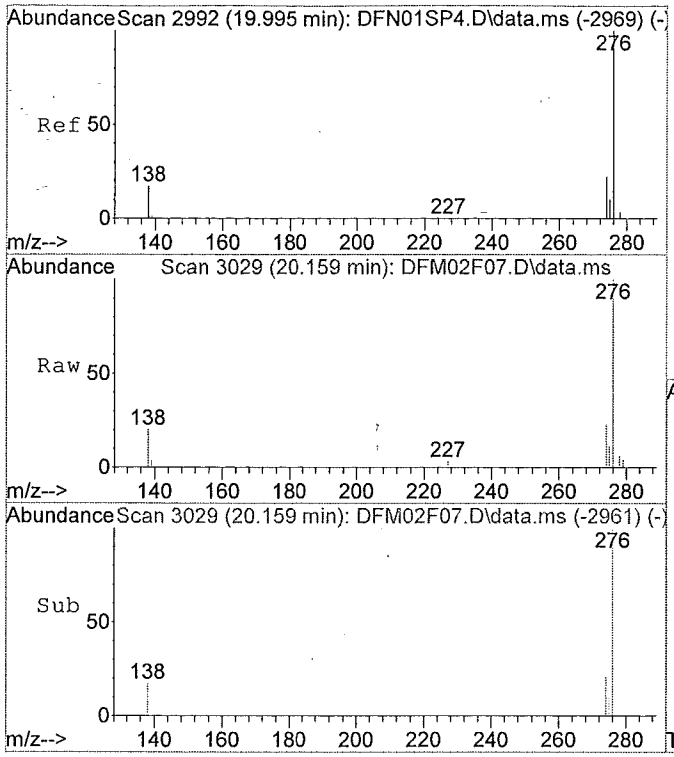


#22
Benzo(a)pyrene
Concen: 0.37 ug/ml
RT: 17.46 min Scan# 2474
Delta R.T. 0.00 min
Lab File: DFM02F07.D
Acq: 07/15/2015 11:36

Tgt Ion:252 Resp: 187512

Ion	Ratio	Lower	Upper
252	100		
253	23.2	15.0	27.8
125	8.5	0.0	0.0#
0	0.0	0.0	0.0

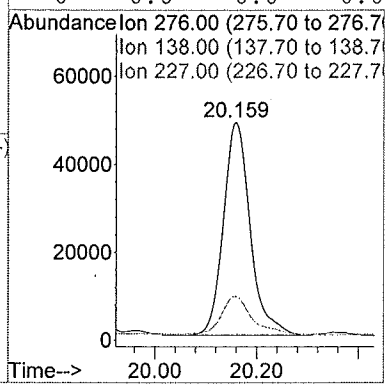


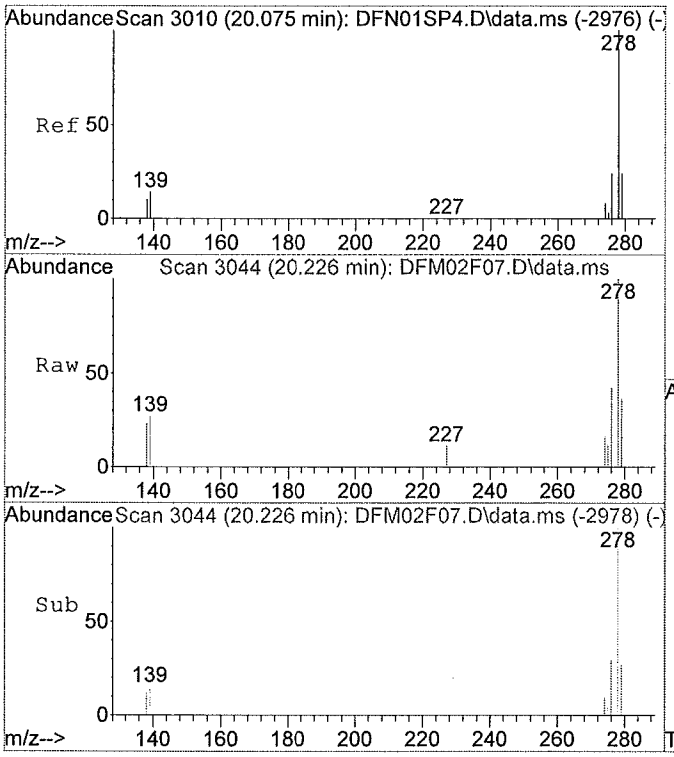


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.40 ug/ml
RT: 20.16 min Scan# 3029
Delta R.T. 0.00 min
Lab File: DFM02F07.D
Acq: 07/15/2015 11:36

Tgt Ion:276 Resp: 175972

Ion	Ratio	Lower	Upper
276	100		
138	19.9	0.0	0.0#
227	0.1	0.0	0.0#
0	0.0	0.0	0.0

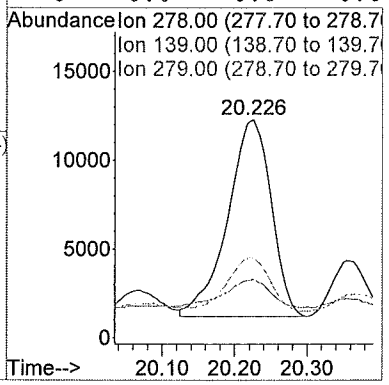


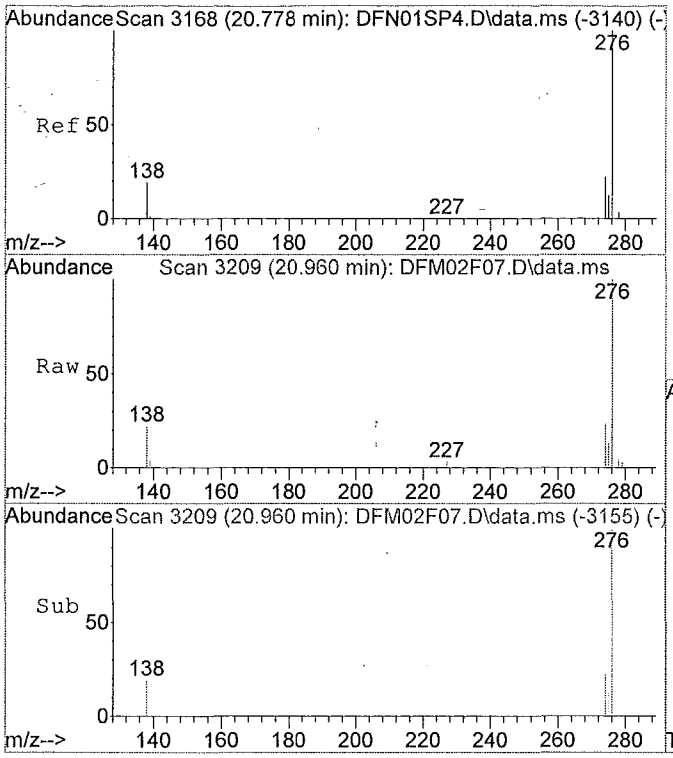


#24
Dibenzo(a,h)anthracene
Concen: 0.09 ug/ml
RT: 20.23 min Scan# 3044
Delta R.T. -0.00 min
Lab File: DFM02F07.D
Acq: 07/15/2015 11:36

Tgt Ion:278 Resp: 46132

Ion	Ratio	Lower	Upper
278	100		
139	15.3	0.0	0.0#
279	26.6	15.8	29.3
0	0.0	0.0	0.0

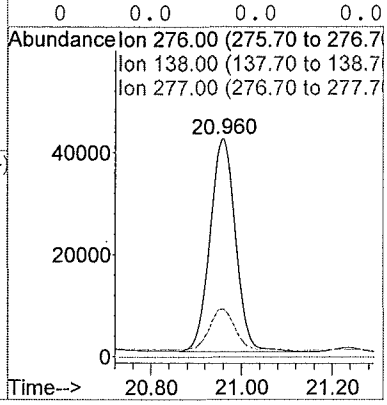




#25
Benzo(g,h,i)perylene
Concen: 0.32 ug/ml
RT: 20.96 min Scan# 3209
Delta R.T. 0.01 min
Lab File: DFM02F07.D
Acq: 07/15/2015 11:36

Tgt Ion:276 Resp: 162573

Ion	Ratio	Lower	Upper
276	100		
138	19.3	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.

F9M03

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375008

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFL09F08

Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/14/2015

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 20.0

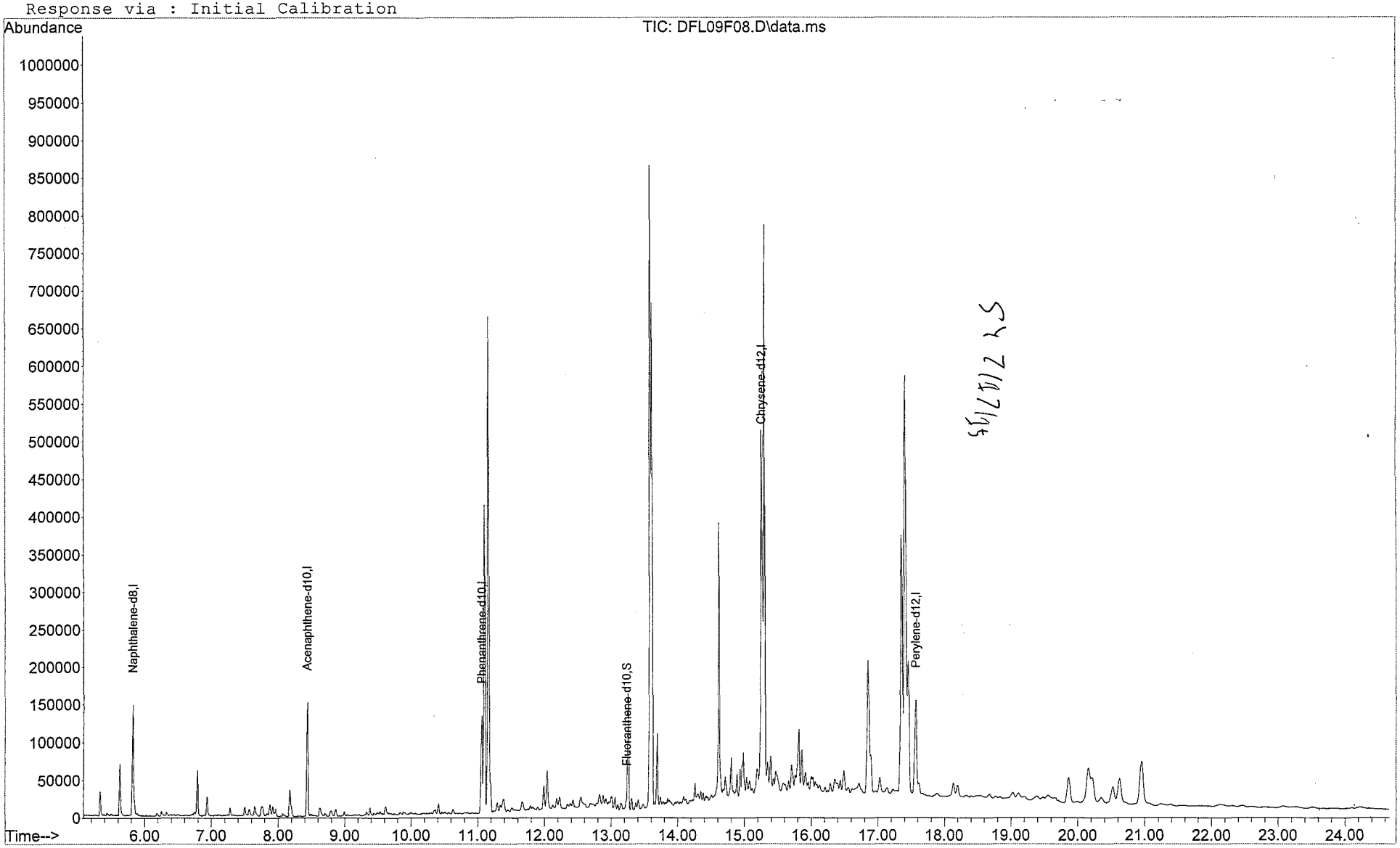
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	28.	J
91-57-6	2-Methylnaphthalene	85.	
208-96-8	Acenaphthylene	20.	J
83-32-9	Acenaphthene	79.	U
86-73-7	Fluorene	79.	U
87-86-5	Pentachlorophenol	160	U
85-01-8	Phenanthrene	680	
120-12-7	Anthracene	67.	J
206-44-0	Fluoranthene	170	
129-00-0	Pyrene	600	
56-55-3	Benzo(a)anthracene	420	
218-01-9	Chrysene	740	
205-99-2	Benzo(b)fluoranthene	260	
207-08-9	Benzo(k)fluoranthene	41.	J
50-32-8	Benzo(a)pyrene	250	
193-39-5	Indeno(1,2,3-cd)pyrene	160	
53-70-3	Dibenzo(a,h)anthracene	84.	
191-24-2	Benzo(g,h,i)perylene	180	

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL09F08.D Vial: 9
Acq On : 07/14/2015 18:15 Operator: DJC
Sample : 1515375008 F9M03 (20) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 11:56:00 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



SY 7/17/15

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL09F08.D Vial: 9
Acq On : 07/14/2015 18:15 Operator: DJC
Sample : 1515375008 F9M03 (20) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 11:56:00 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

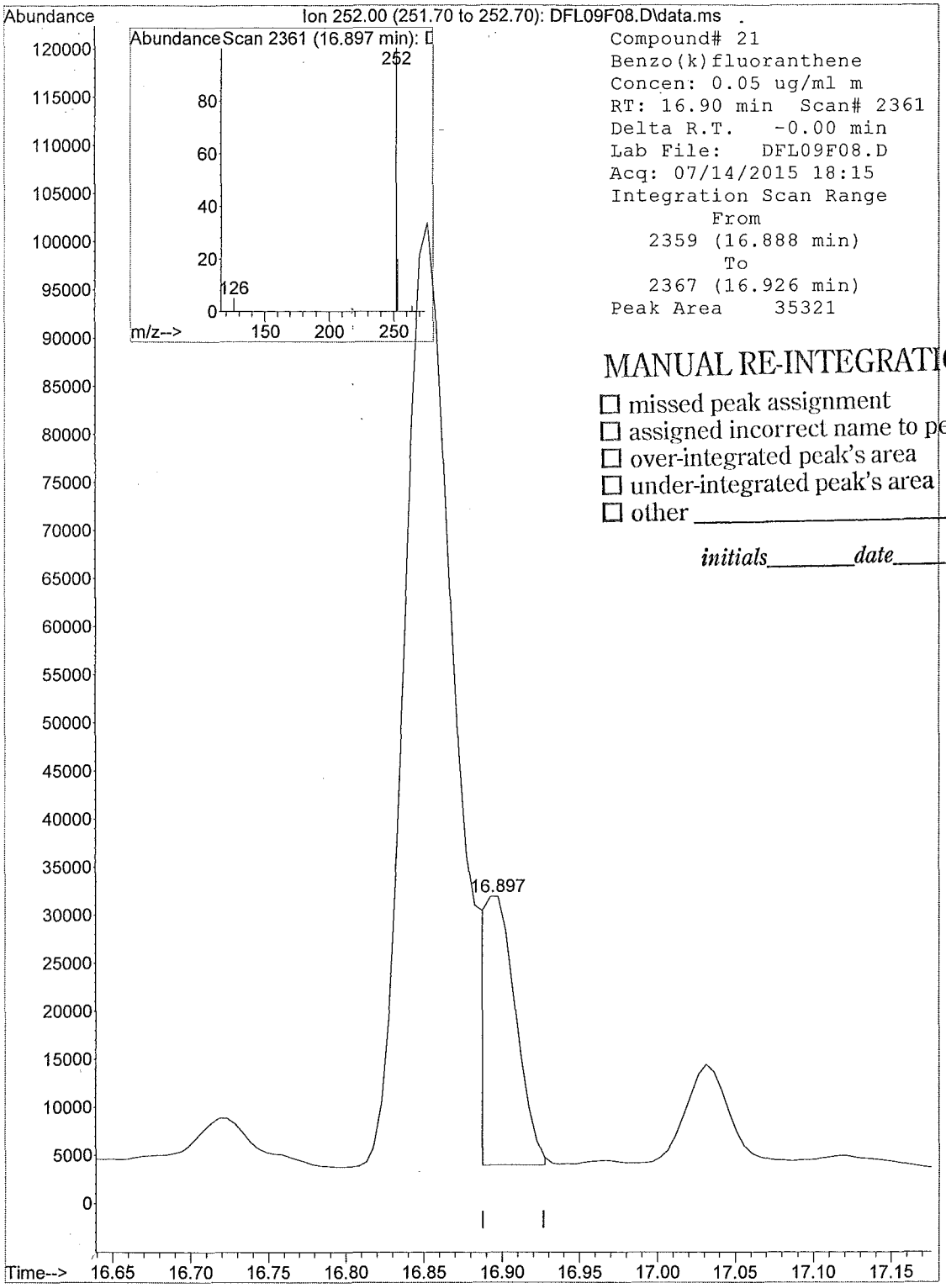
Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	155143	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	98775	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	174269	0.40 ug/ml	
15) Chrysene-d12	15.27	240	206745	0.40 ug/ml	
19) Perylene-d12	17.57	264	212308	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	4865	0.019ug/mL	
13) Fluoranthene-d10	13.23	212	13206	0.028ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.85	128	14065	0.035ug/ml	93
4) 2-Methylnaphthalene	6.80	142	28007	0.108ug/ml	100
6) Acenaphthylene	8.20	152	10901	0.025ug/ml	92
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.10	178	429742	0.857ug/ml	99
12) Anthracene	11.19	178	41219	0.084ug/ml	90
14) Fluoranthene	13.26	202	122037	0.214ug/ml	90
16) Pyrene	13.61	202	487322	0.751ug/ml	90
17) Benzo(a)anthracene	15.25	228	292070	0.530ug/ml	87
18) Chrysene	15.30	228	542931	0.932ug/ml	95
20) Benzo(b)fluoranthene	16.85	252	219223	0.331ug/ml	97
21) Benzo(k)fluoranthene	16.90	252	35321	0.052ug/ml m	96
22) Benzo(a)pyrene	17.45	252	200894	0.318ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.16	276	110206	0.199ug/ml	100
24) Dibenzo(a,h)anthracene	20.23	278	64915	0.106ug/ml	93
25) Benzo(g,h,i)perylene	20.96	276	144376	0.232ug/ml	71

KY 7/17/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 01996

M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene

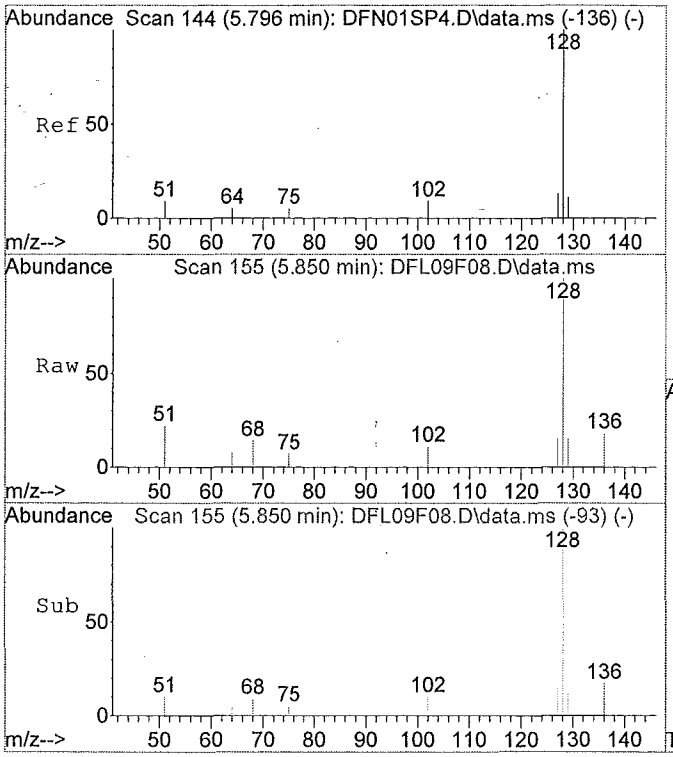


Compound# 21
Benzo(k)fluoranthene
Concen: 0.05 ug/ml m
RT: 16.90 min Scan# 2361
Delta R.T. -0.00 min
Lab File: DFL09F08.D
Acq: 07/14/2015 18:15
Integration Scan Range
From
2359 (16.888 min)
To
2367 (16.926 min)
Peak Area 35321

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

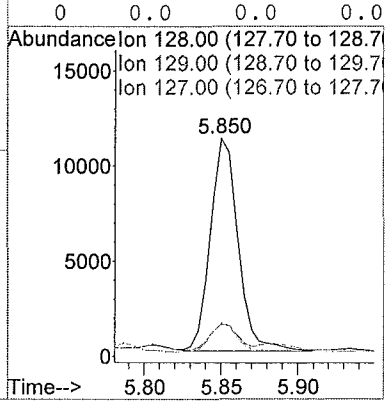
*initials*_____ *date*_____

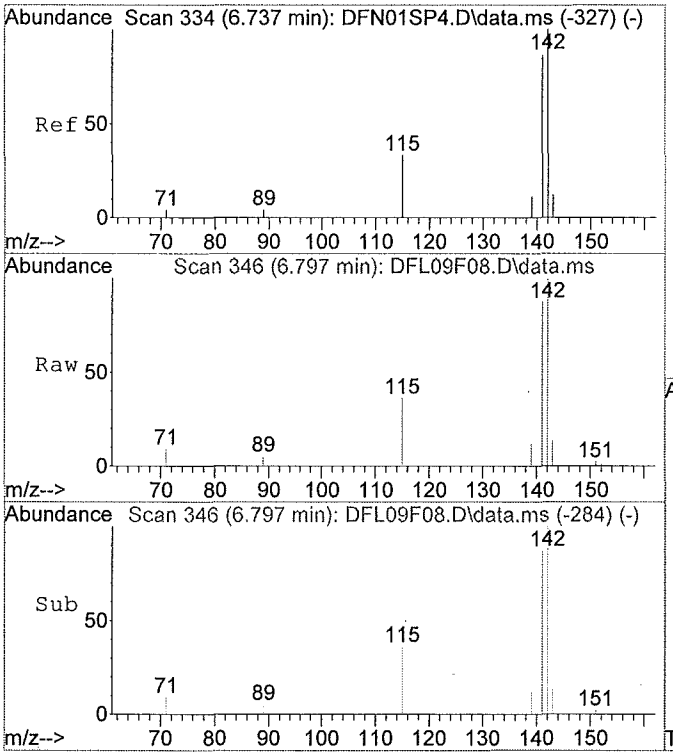


#2
Naphthalene
Concen: 0.03 ug/ml
RT: 5.85 min Scan# 155
Delta R.T. 0.01 min
Lab File: DFL09F08.D
Acq: 07/14/2015 18:15

Tgt Ion:128 Resp: 14065

Ion	Ratio	Lower	Upper
128	100		
129	12.5	0.0	0.0#
127	12.8	11.1	20.5
0	0.0	0.0	0.0

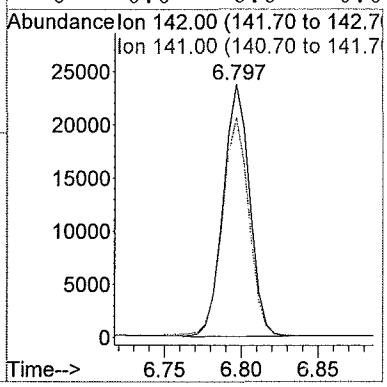


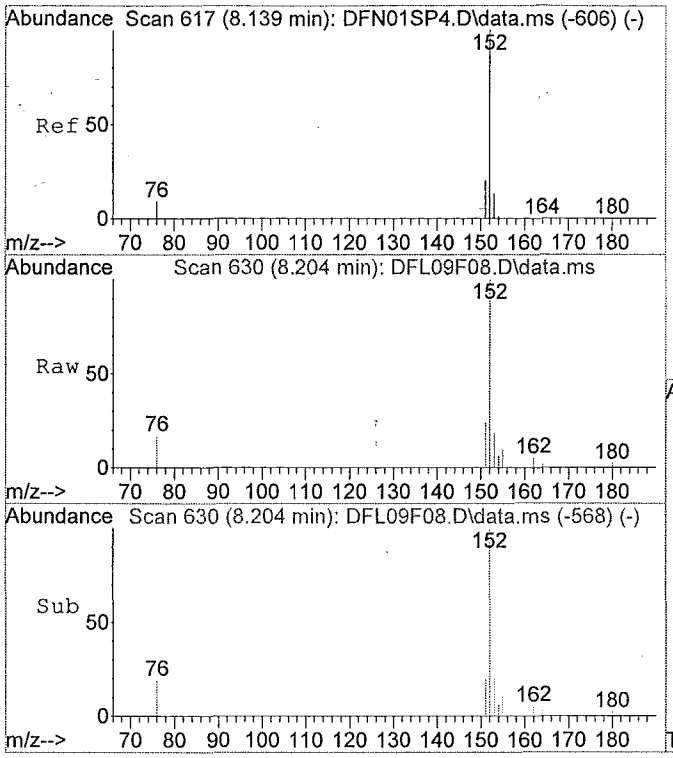


#4
2-Methylnaphthalene
Concen: 0.11 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.01 min
Lab File: DFL09F08.D
Acq: 07/14/2015 18:15

Tgt Ion:142 Resp: 28007

Ion	Ratio	Lower	Upper
142	100		
141	87.4	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

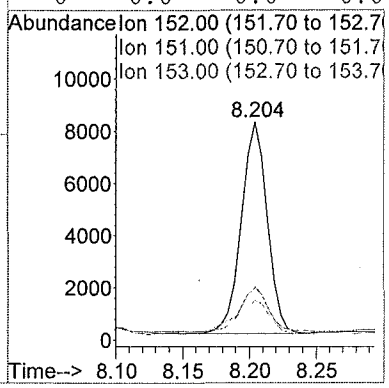


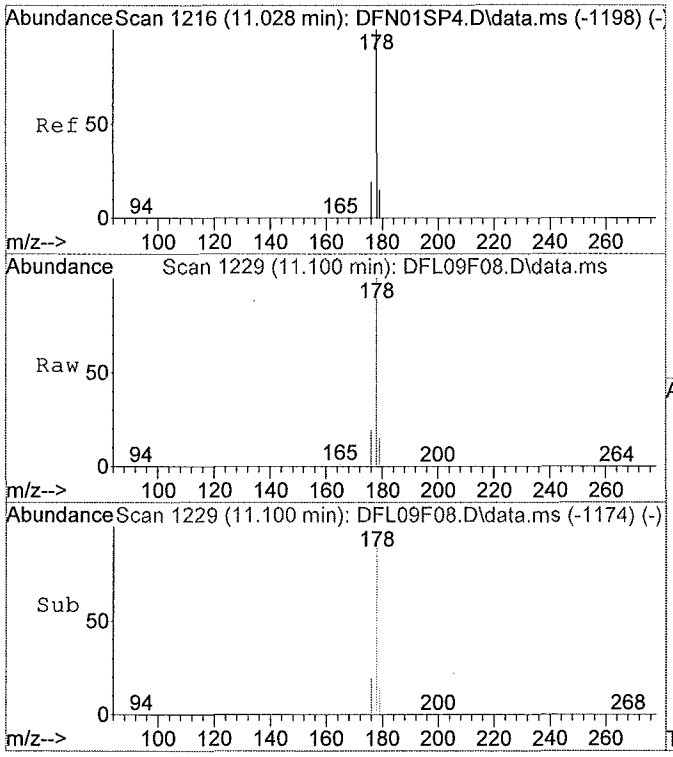


#6
Acenaphthylene
Concen: 0.03 ug/ml
RT: 8.20 min Scan# 630
Delta R.T. 0.01 min
Lab File: DFL09F08.D
Acq: 07/14/2015 18:15

Tgt Ion:152 Resp: 10901

Ion	Ratio	Lower	Upper
152	100		
151	21.7	15.5	28.7
153	21.1	8.8	16.4#
0	0.0	0.0	0.0

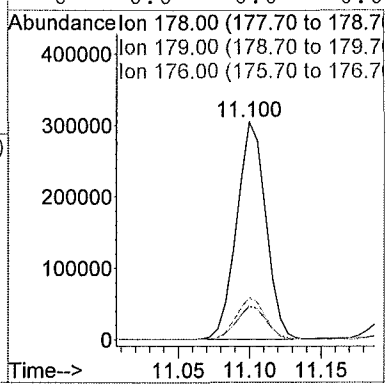


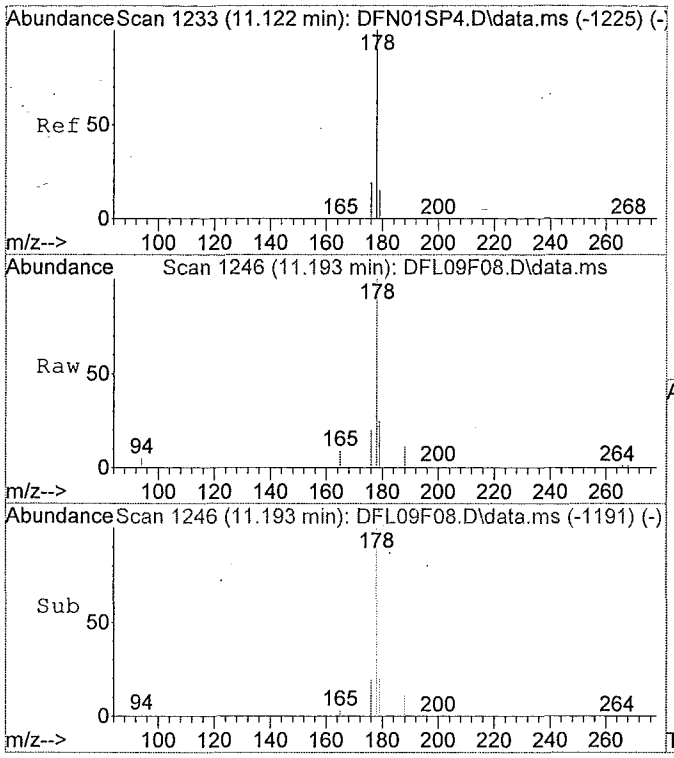


#11
Phenanthrene
Concen: 0.86 ug/ml
RT: 11.10 min Scan# 1229
Delta R.T. 0.00 min
Lab File: DFL09F08.D
Acq: 07/14/2015 18:15

Tgt Ion:178 Resp: 429742

Ion	Ratio	Lower	Upper
178	100		
179	15.5	11.1	20.5
176	19.2	14.1	26.1
0	0.0	0.0	0.0

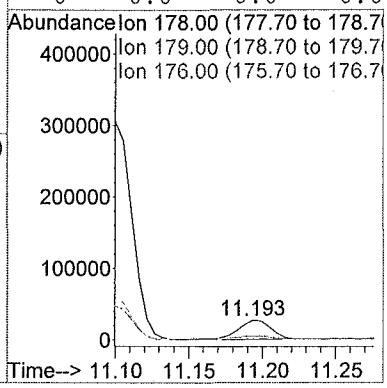


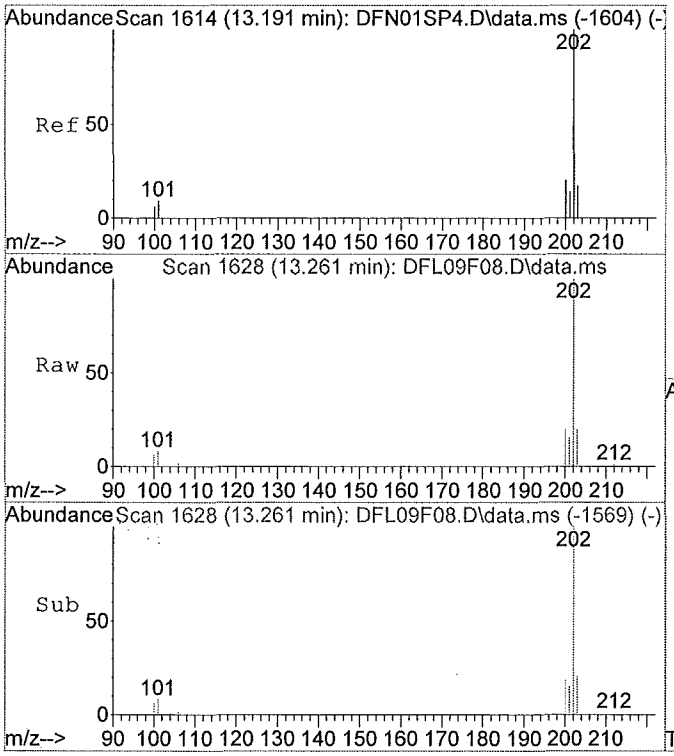


#12
Anthracene
Concen: 0.08 ug/ml
RT: 11.19 min Scan# 1246
Delta R.T. 0.00 min
Lab File: DFL09F08.D
Acq: 07/14/2015 18:15

Tgt Ion:178 Resp: 41219

Ion	Ratio	Lower	Upper
178	100		
179	24.9	11.6	21.6#
176	18.8	13.9	25.7
0	0.0	0.0	0.0

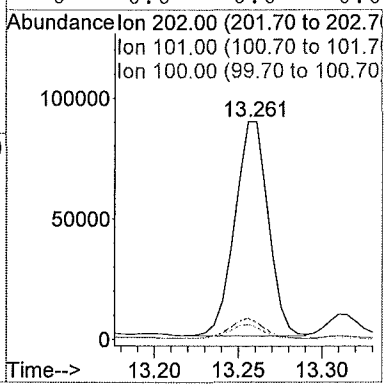


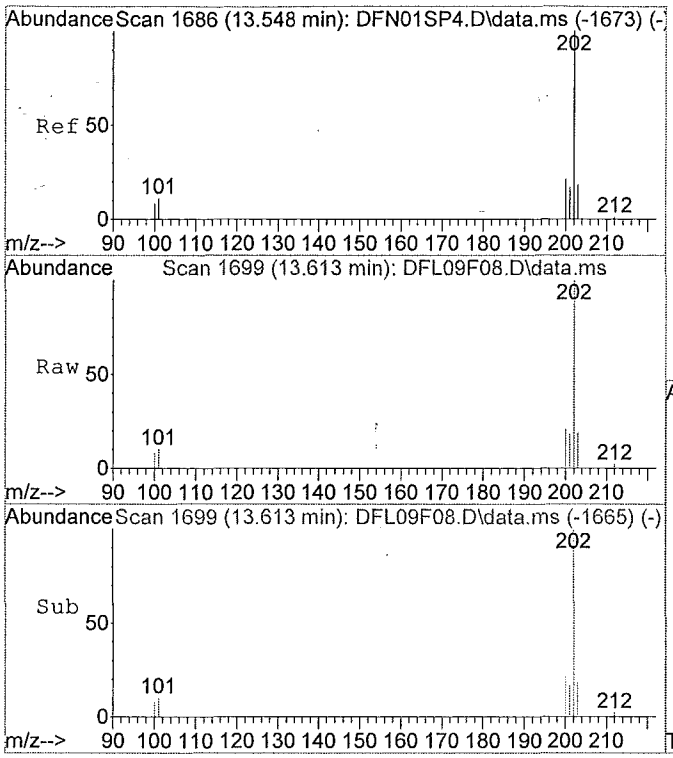


#14
Fluoranthene
Concen: 0.21 ug/ml
RT: 13.26 min Scan# 1628
Delta R.T. 0.01 min
Lab File: DFL09F08.D
Acq: 07/14/2015 18:15

Tgt Ion:202 Resp: 122037

Ion	Ratio	Lower	Upper
202	100		
101	9.5	9.4	17.6
100	6.7	0.0	0.0#
0	0.0	0.0	0.0

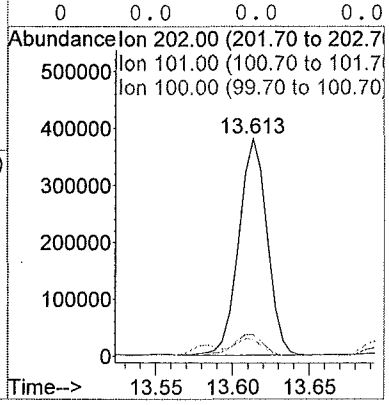


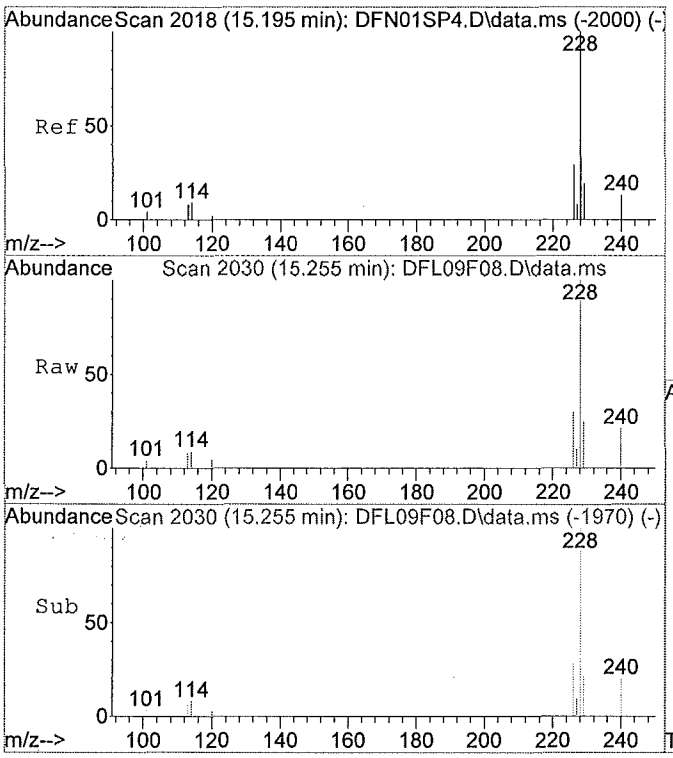


#16
Pyrene
Concen: 0.75 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. 0.00 min
Lab File: DFL09F08.D
Acq: 07/14/2015 18:15

Tgt Ion:202 Resp: 487322

Ion	Ratio	Lower	Upper
202	100		
101	12.0	10.6	19.6
100	8.3	9.4	17.4#
0	0.0	0.0	0.0

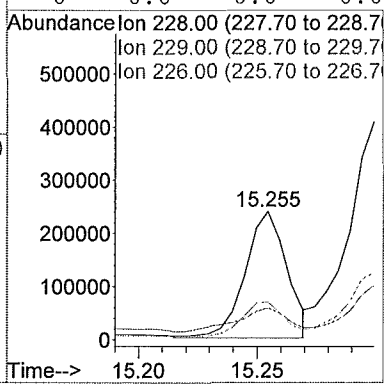


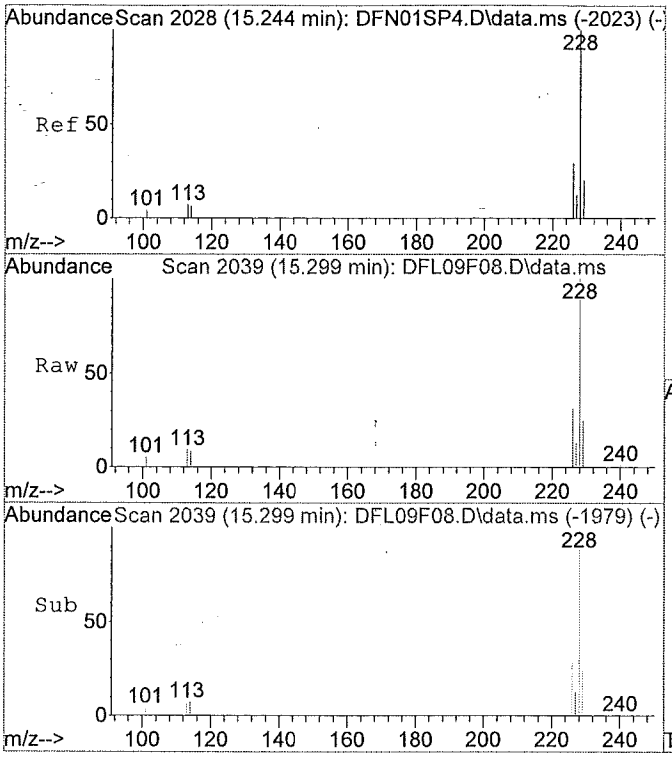


#17
Benzo(a)anthracene
Concen: 0.53 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. 0.00 min
Lab File: DFL09F08.D
Acq: 07/14/2015 18:15

Tgt Ion:228 Resp: 292070

Ion	Ratio	Lower	Upper
228	100		
229	30.8	14.5	26.9#
226	29.5	18.5	34.3
0	0.0	0.0	0.0

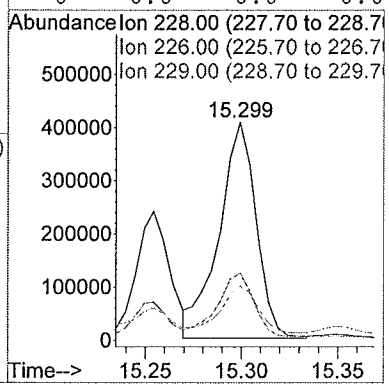


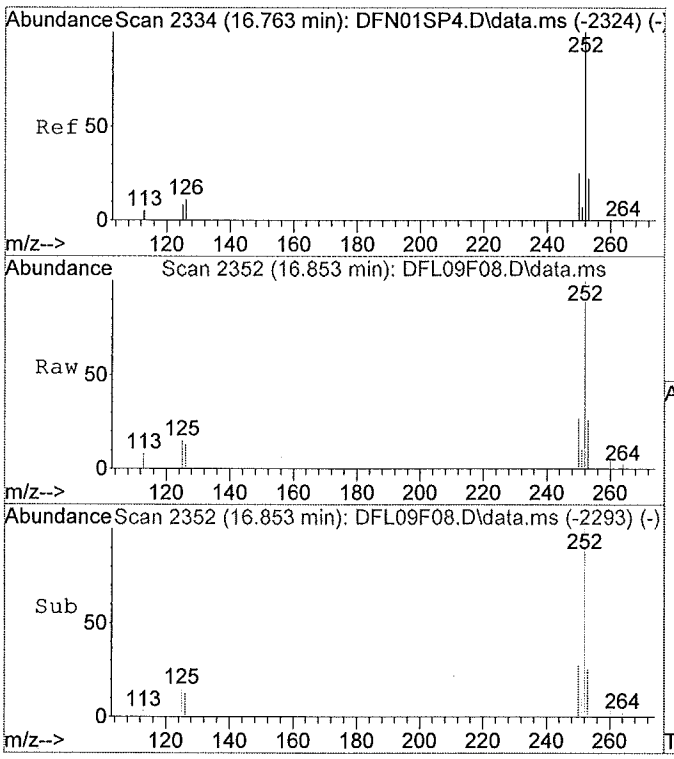


#18
Chrysene
Concen: 0.93 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFL09F08.D
Acq: 07/14/2015 18:15

Tgt Ion:228 Resp: 542931

Ion	Ratio	Lower	Upper
228	100		
226	28.8	19.7	36.7
229	25.4	14.5	26.9
0	0.0	0.0	0.0

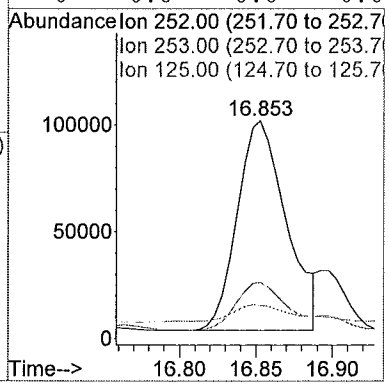


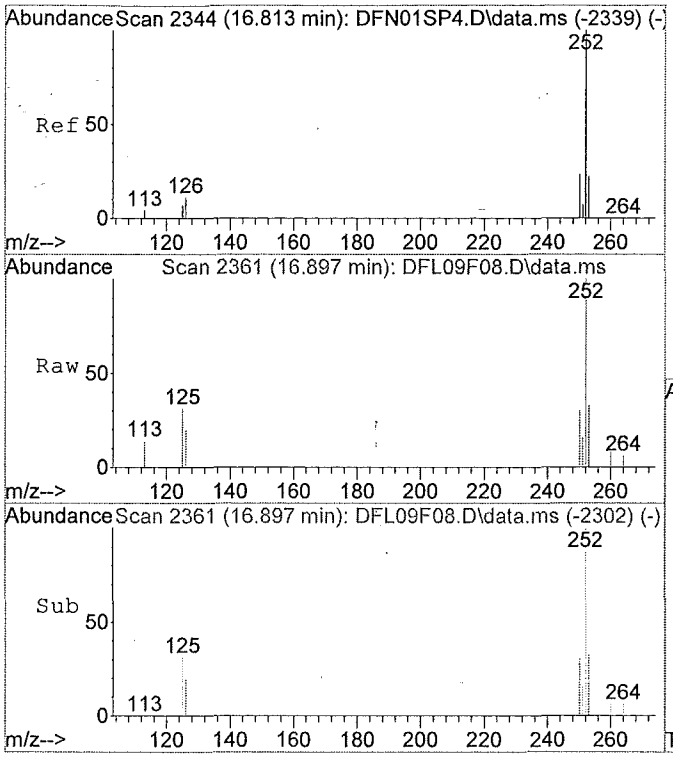


#20
Benzo(b)fluoranthene
Concen: 0.33 ug/ml
RT: 16.85 min Scan# 2352
Delta R.T. 0.00 min
Lab File: DFL09F08.D
Acq: 07/14/2015 18:15

Tgt Ion:252 Resp: 219223

Ion	Ratio	Lower	Upper
252	100		
253	23.4	15.3	28.3
125	9.5	0.0	0.0#
0	0.0	0.0	0.0

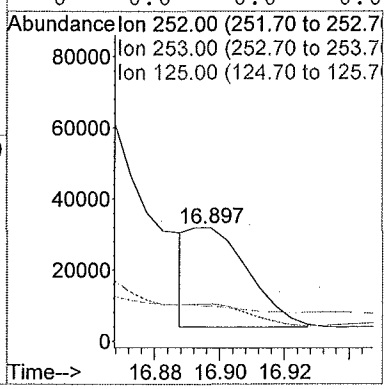


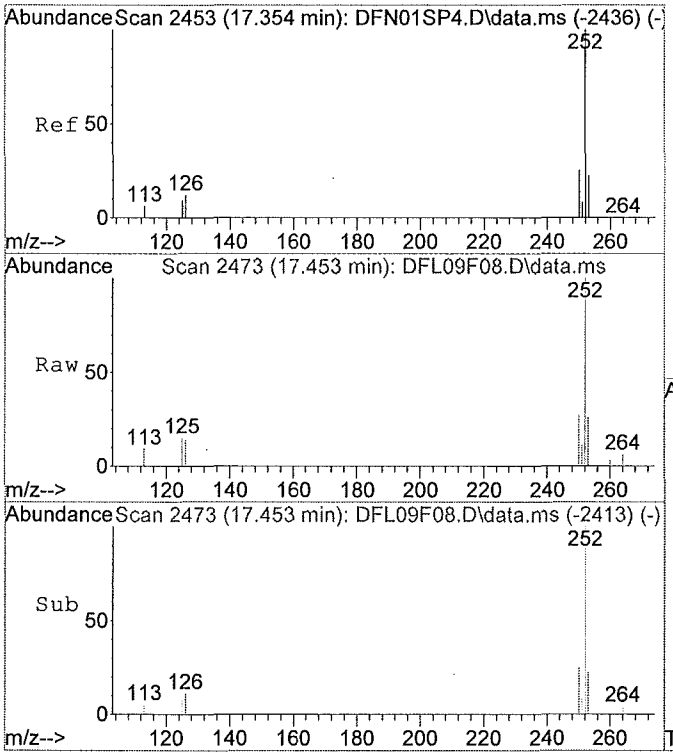


#21
Benzo(k)fluoranthene
Concen: 0.05 ug/ml m
RT: 16.90 min Scan# 2361
Delta R.T. -0.00 min
Lab File: DFL09F08.D
Acq: 07/14/2015 18:15

Tgt Ion:252 Resp: 35321

Ion	Ratio	Lower	Upper
252	100		
253	145.5	15.0	27.8#
125	58.9	0.0	0.0#
0	0.0	0.0	0.0

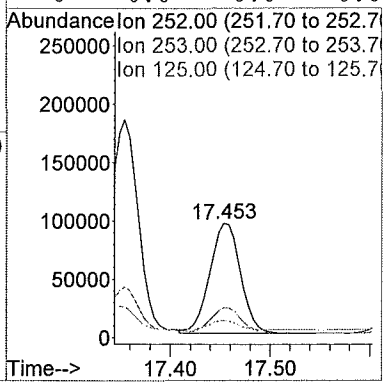


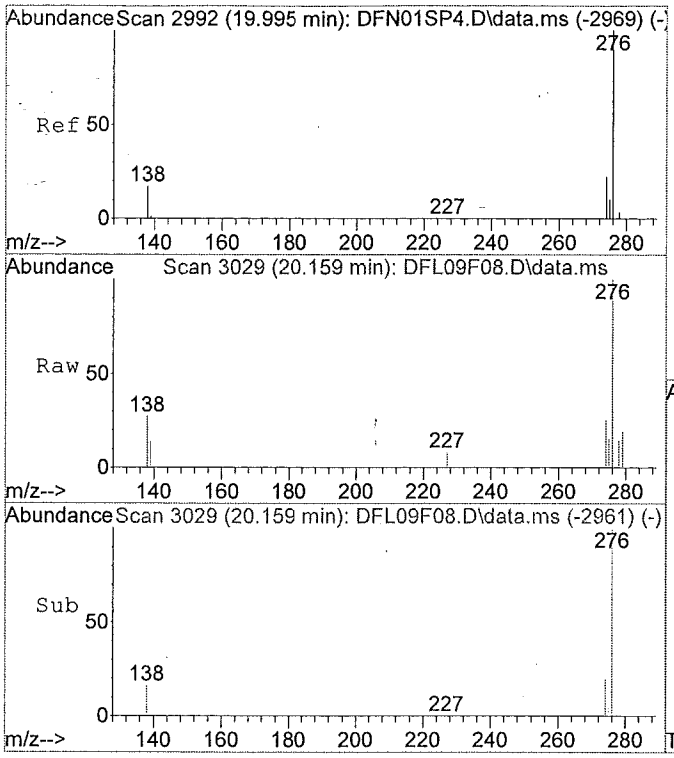


#22
Benzo(a)pyrene
Concen: 0.32 ug/ml
RT: 17.45 min Scan# 2473
Delta R.T. 0.00 min
Lab File: DFL09F08.D
Acq: 07/14/2015 18:15

Tgt Ion:252 Resp: 200894

Ion	Ratio	Lower	Upper
252	100		
253	23.5	15.0	27.8
125	8.2	0.0	0.0#
0	0.0	0.0	0.0

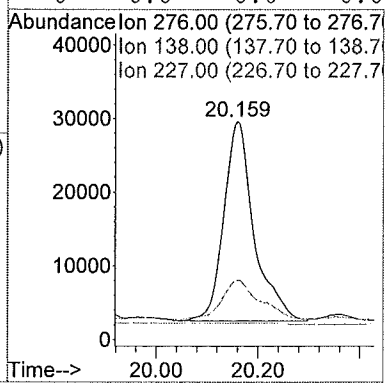


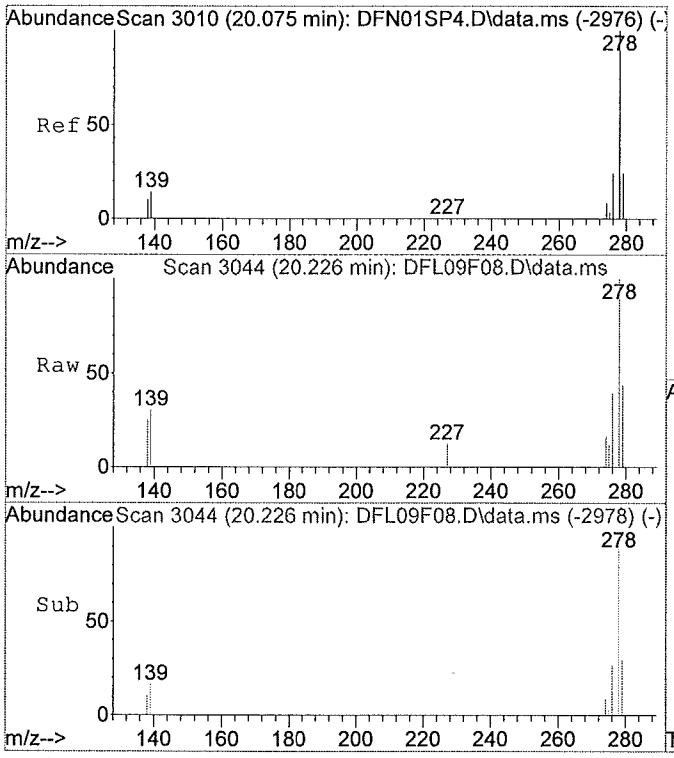


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.20 ug/ml
RT: 20.16 min Scan# 3029
Delta R.T. 0.00 min
Lab File: DFL09F08.D
Acq: 07/14/2015 18:15

Tgt Ion:276 Resp: 110206

Ion	Ratio	Lower	Upper
276	100		
138	24.6	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

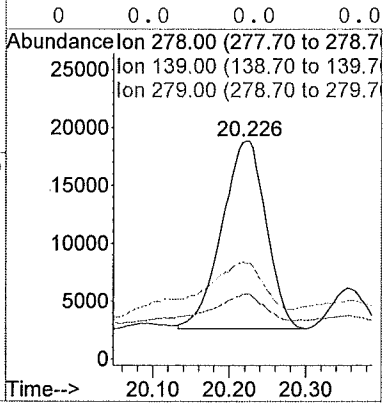


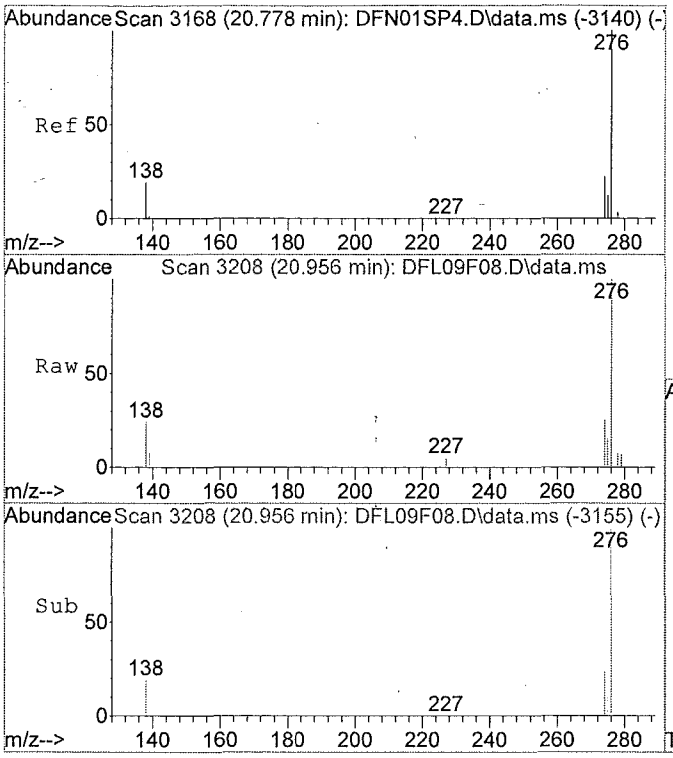


#24
Dibenzo(a,h)anthracene
Concen: 0.11 ug/ml
RT: 20.23 min Scan# 3044
Delta R.T. -0.00 min
Lab File: DFL09F08.D
Acq: 07/14/2015 18:15

Tgt Ion:278 Resp: 64915

Ion	Ratio	Lower	Upper
278	100		
139	20.2	0.0	0.0#
279	25.8	15.8	29.3
0	0.0	0.0	0.0

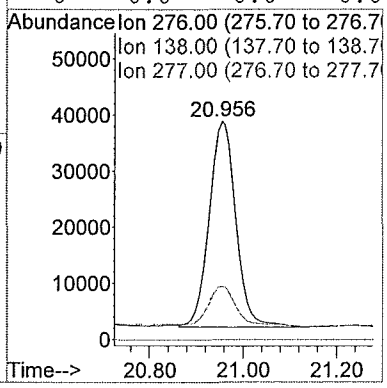




#25
Benzo(g,h,i)perylene
Concen: 0.23 ug/ml
RT: 20.96 min Scan# 3208
Delta R.T. 0.00 min
Lab File: DFL09F08.D
Acq: 07/14/2015 18:15

Tgt Ion:276 Resp: 144376

Ion	Ratio	Lower	Upper
276	100		
138	18.3	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.

F9M04

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375009

Sample wt/vol: 30.4 (g/mL) g Lab File ID: DFL10F09

Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/14/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 2.0

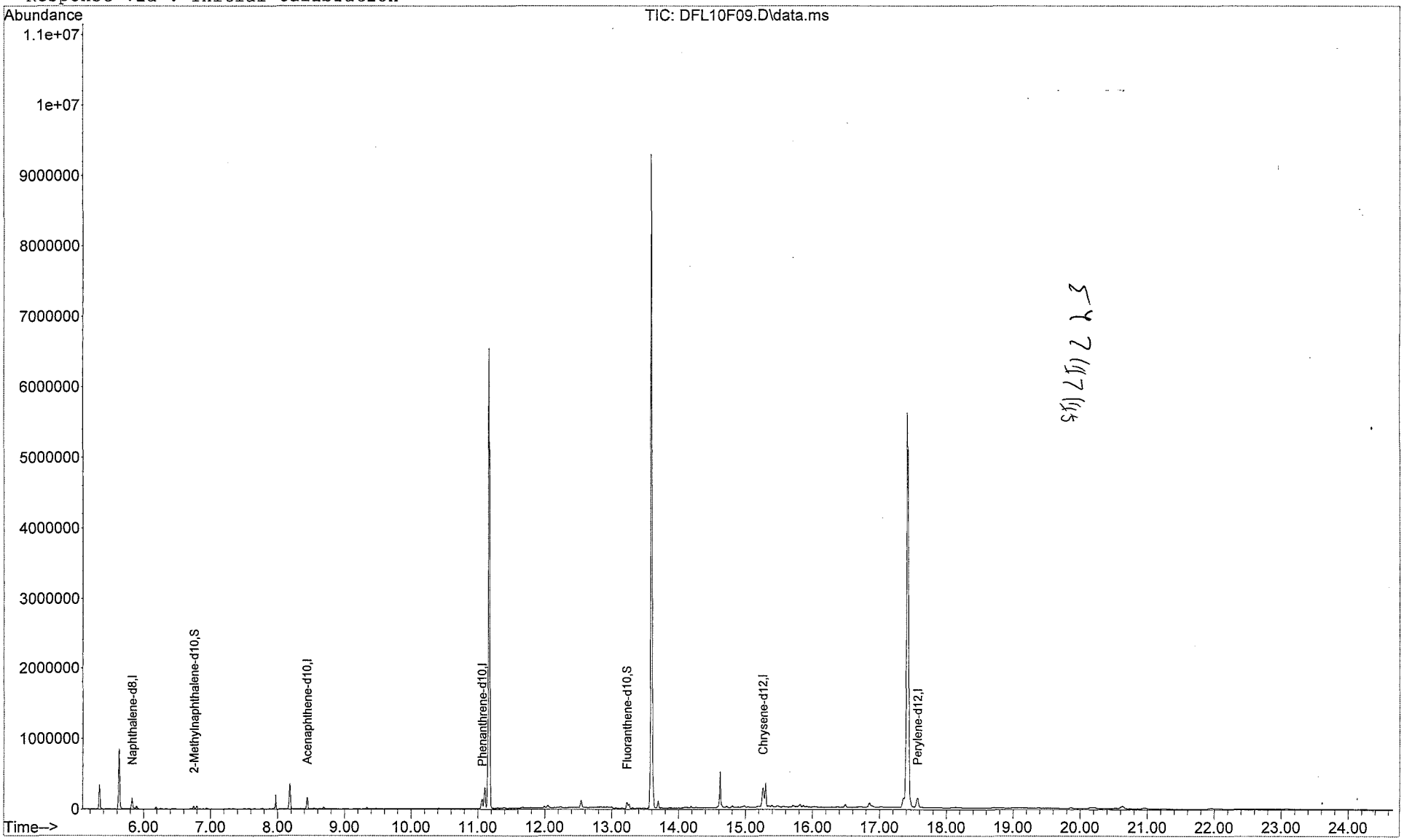
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	2.4	J
91-57-6	2-Methylnaphthalene	5.9	J
208-96-8	Acenaphthylene	7.8	U
83-32-9	Acenaphthene	7.8	U
86-73-7	Fluorene	7.8	U
87-86-5	Pentachlorophenol	16.	U
85-01-8	Phenanthrene	47.	
120-12-7	Anthracene	3.1	J
206-44-0	Fluoranthene	6.5	J
129-00-0	Pyrene	32.	
56-55-3	Benzo(a)anthracene	19.	
218-01-9	Chrysene	33.	
205-99-2	Benzo(b)fluoranthene	7.4	J
207-08-9	Benzo(k)fluoranthene	7.8	U
50-32-8	Benzo(a)pyrene	8.8	
193-39-5	Indeno(1,2,3-cd)pyrene	5.1	J
53-70-3	Dibenzo(a,h)anthracene	3.2	J
191-24-2	Benzo(g,h,i)perylene	3.4	J

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL10F09.D Vial: 10
Acq On : 07/14/2015 18:45 Operator: DJC
Sample : 1515375009 F9M04 (2) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 11:56:46 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

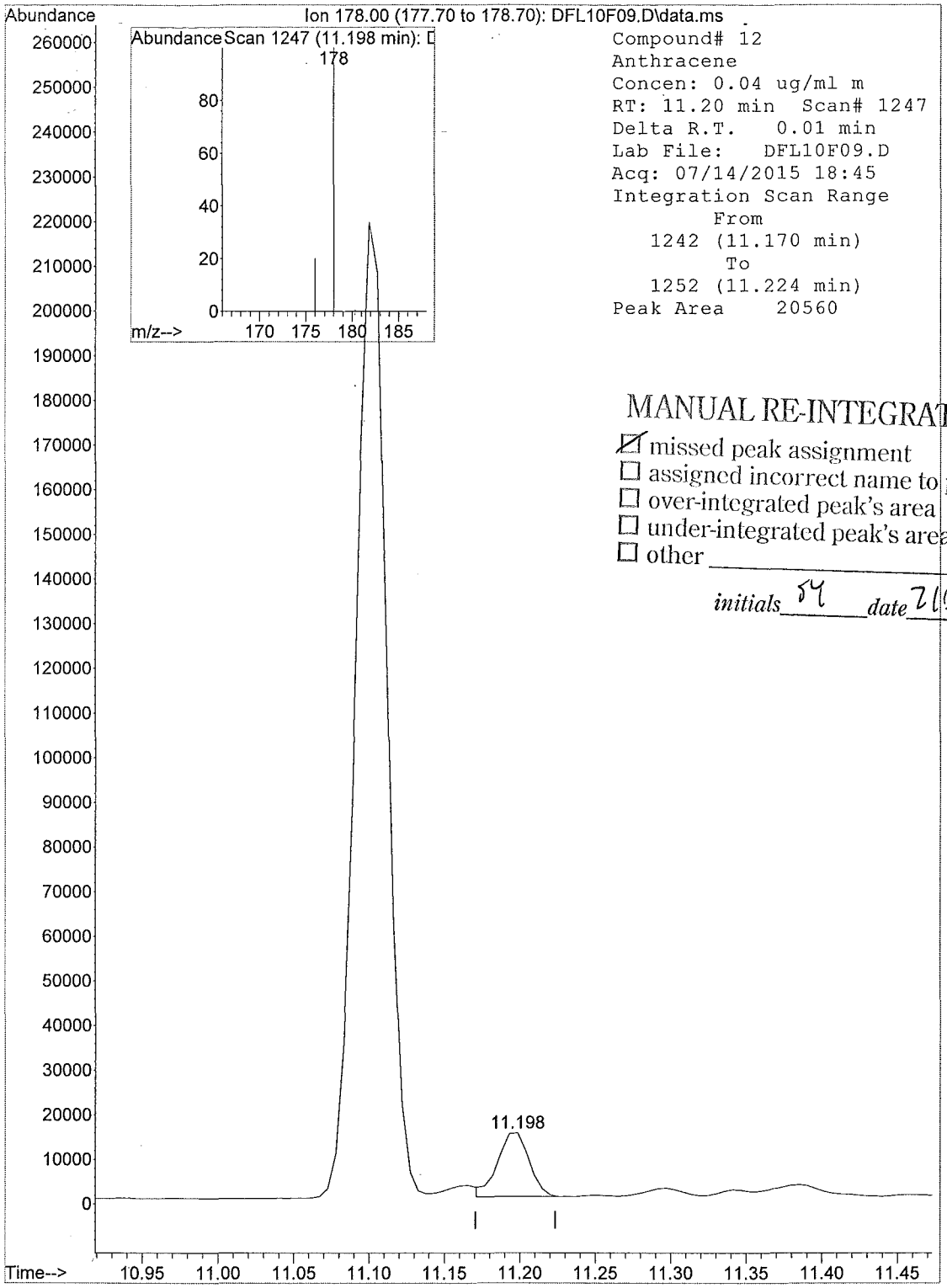
Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL10F09.D Vial: 10
Acq On : 07/14/2015 18:45 Operator: DJC
Sample : 1515375009 F9M04 (2) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 11:56:46 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	160497	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	107499	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	183967	0.40 ug/ml	
15) Chrysene-d12	15.26	240	211103	0.40 ug/ml	
19) Perylene-d12	17.57	264	223955	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	42922	0.166ug/mL	
13) Fluoranthene-d10	13.23	212	102083	0.203ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.85	128	12631	0.030ug/ml	96
4) 2-Methylnaphthalene	6.80	142	20437	0.076ug/ml	98
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	11.10	178	314653	0.594ug/ml	99
12) Anthracene	11.20	178	20560	0.040ug/ml m	96
14) Fluoranthene	13.26	202	49952	0.083ug/ml	95
16) Pyrene	13.61	202	267726	0.404ug/ml	77
17) Benzo(a)anthracene	15.25	228	133110	0.236ug/ml	88
18) Chrysene	15.30	228	247215	0.416ug/ml	95
20) Benzo(b)fluoranthene	16.85	252	66306	0.095ug/ml m	94
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.46	252	75066	0.113ug/ml	92
23) Indeno(1,2,3-c,d)pyrene	20.16	276	37603	0.064ug/ml	100
24) Dibenzo(a,h)anthracene	20.22	278	26544	0.041ug/ml	98
25) Benzo(g,h,i)perylene	20.96	276	28352	0.043ug/ml	75

(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



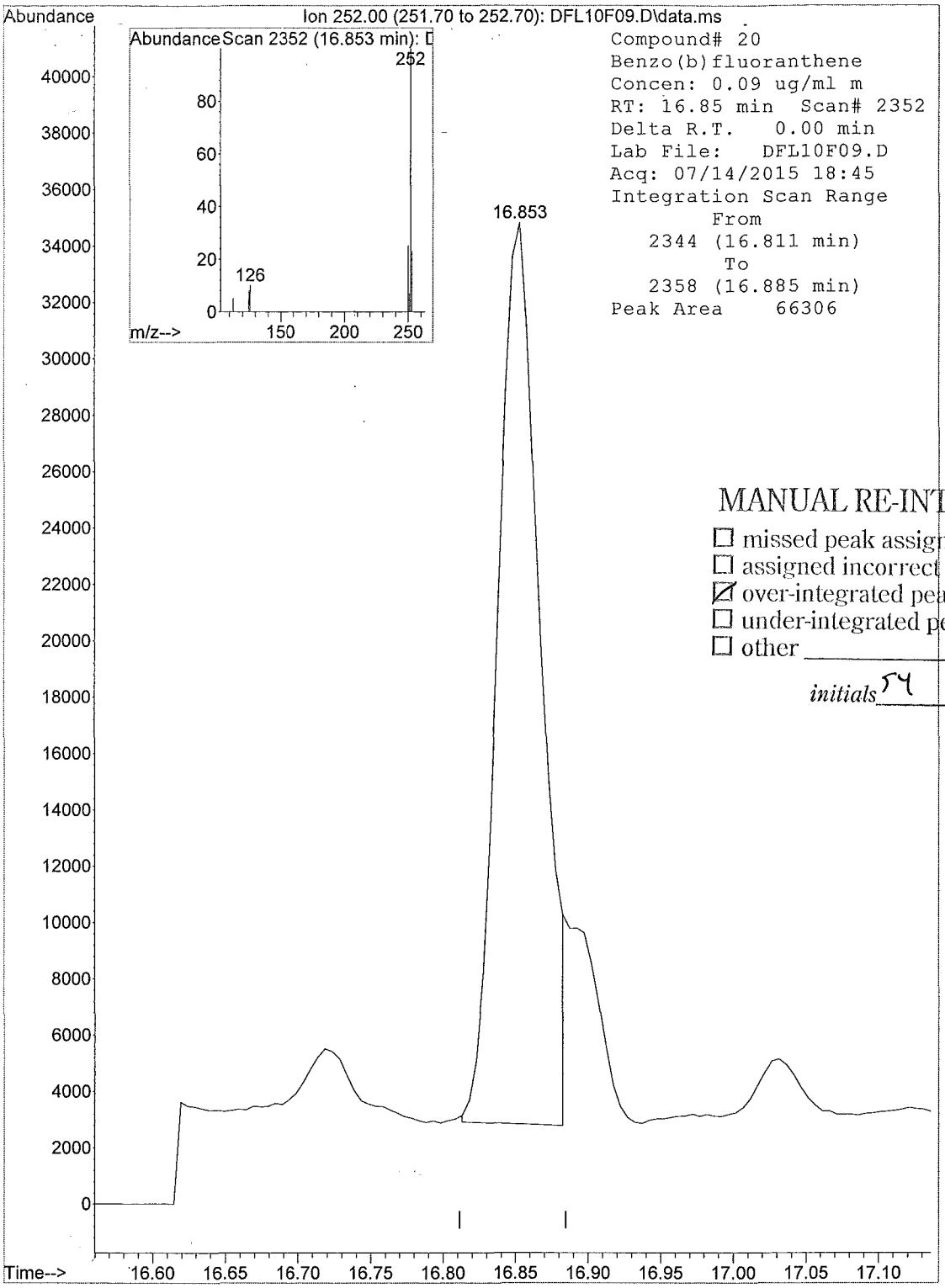
Compound# 12
Anthracene
Concen: 0.04 ug/ml m
RT: 11.20 min Scan# 1247
Delta R.T. 0.01 min
Lab File: DFL10F09.D
Acq: 07/14/2015 18:45
Integration Scan Range
From
1242 (11.170 min)
To
1252 (11.224 min)
Peak Area 20560

MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/17/15

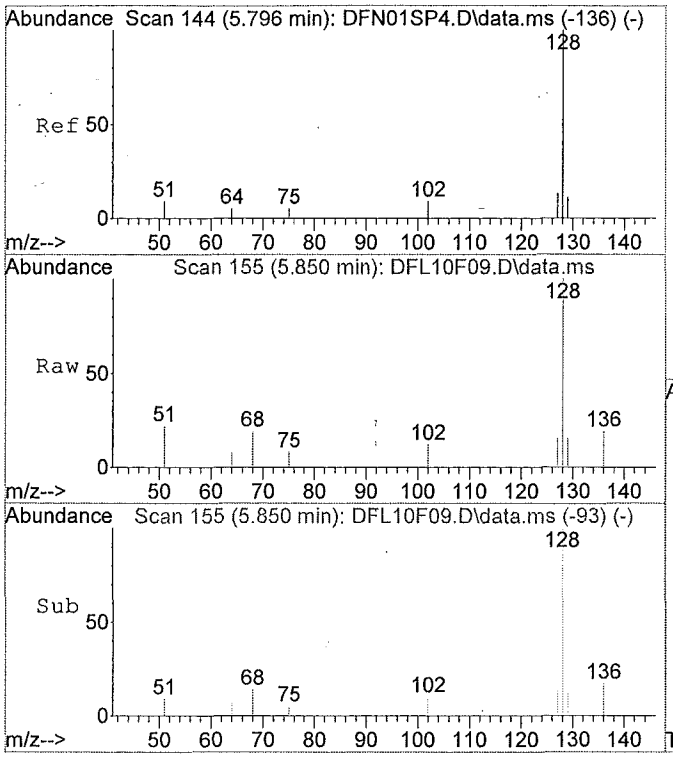
M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene



MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

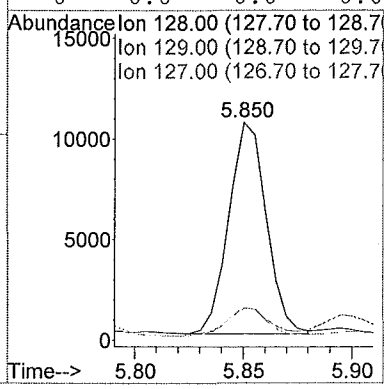
initials SY *date* 7/17/15

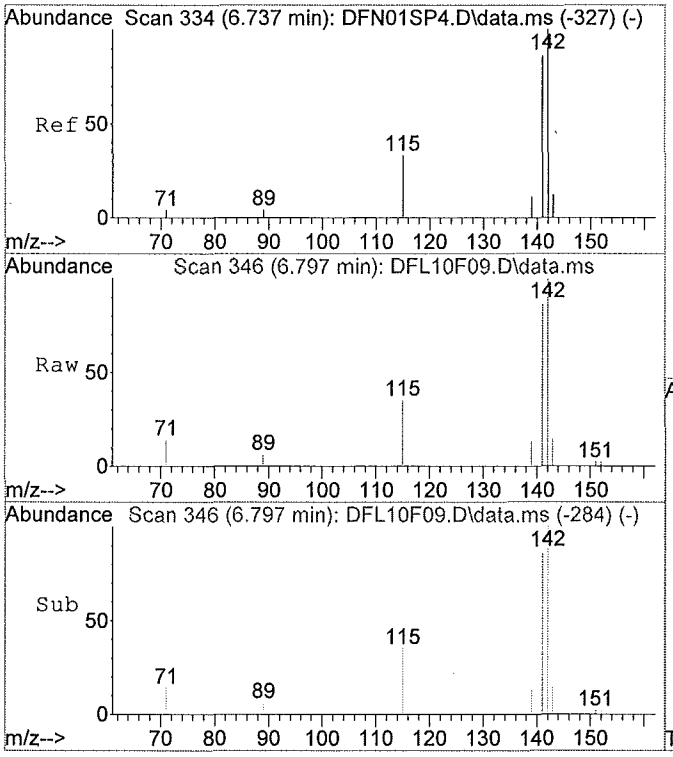


#2
Naphthalene
Concen: 0.03 ug/ml
RT: 5.85 min Scan# 155
Delta R.T. 0.01 min
Lab File: DFL10F09.D
Acq: 07/14/2015 18:45

Tgt Ion:128 Resp: 12631

Ion	Ratio	Lower	Upper
128	100		
129	12.7	0.0	0.0#
127	13.9	11.1	20.5
0	0.0	0.0	0.0

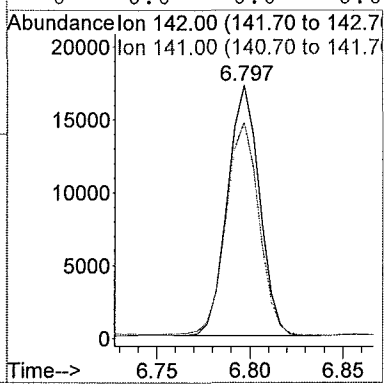


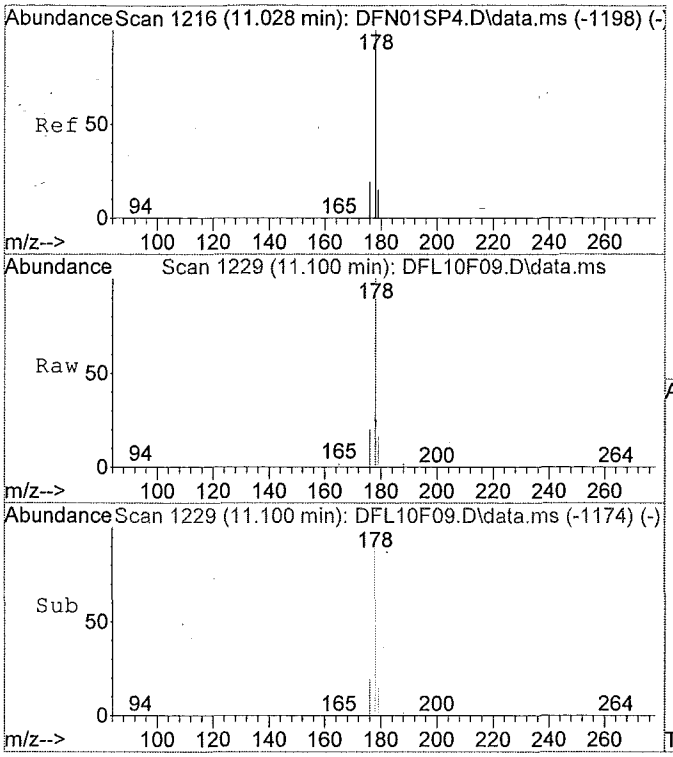


#4
2-Methylnaphthalene
Concen: 0.08 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.01 min
Lab File: DFL10F09.D
Acq: 07/14/2015 18:45

Tgt Ion:142 Resp: 20437

Ion	Ratio	Lower	Upper
142	100		
141	89.5	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

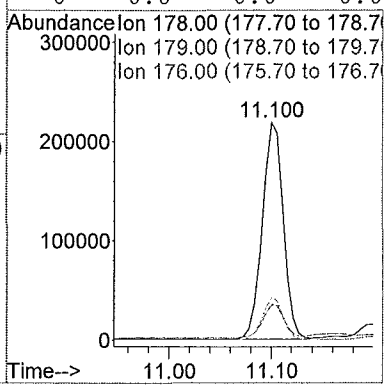


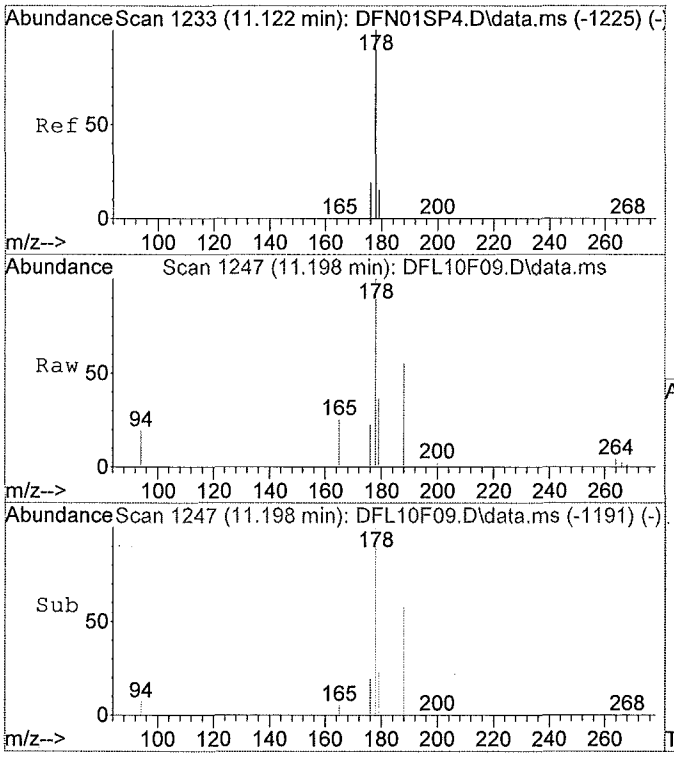


#11
Phenanthrene
Concen: 0.59 ug/ml
RT: 11.10 min Scan# 1229
Delta R.T. 0.00 min
Lab File: DFL10F09.D
Acq: 07/14/2015 18:45

Tgt Ion:178 Resp: 314653

Ion	Ratio	Lower	Upper
178	100		
179	15.7	11.1	20.5
176	19.1	14.1	26.1
0	0.0	0.0	0.0

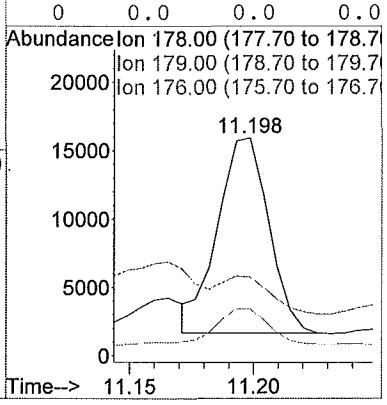


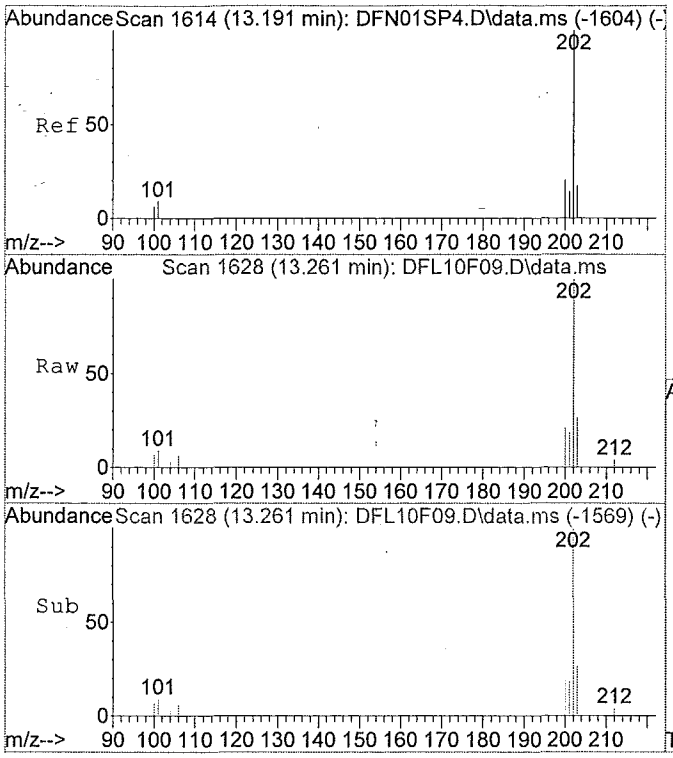


#12
Anthracene
Concen: 0.04 ug/ml m
RT: 11.20 min Scan# 1247
Delta R.T. 0.01 min
Lab File: DFL10F09.D
Acq: 07/14/2015 18:45

Tgt Ion:178 Resp: 20560

Ion	Ratio	Lower	Upper
178	100		
179	18.8	11.6	21.6
176	20.7	13.9	25.7
0	0.0	0.0	0.0

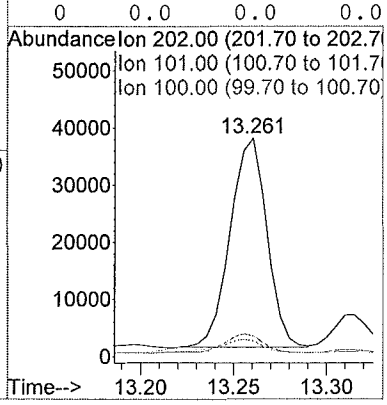


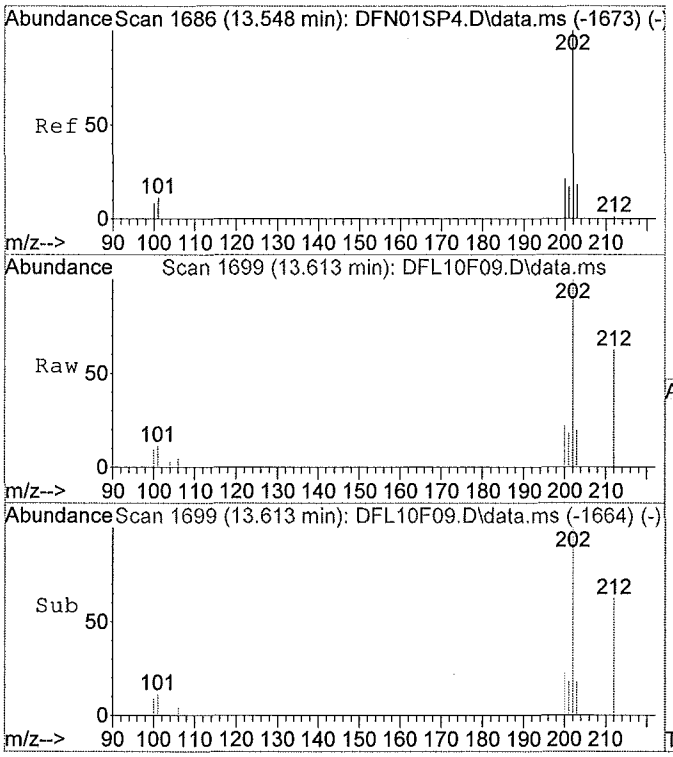


#14
Fluoranthene
Concen: 0.08 ug/ml
RT: 13.26 min Scan# 1628
Delta R.T. 0.01 min
Lab File: DFL10F09.D
Acq: 07/14/2015 18:45

Tgt Ion:202 Resp: 49952

Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.4	17.6
100	6.2	0.0	0.0#
0	0.0	0.0	0.0

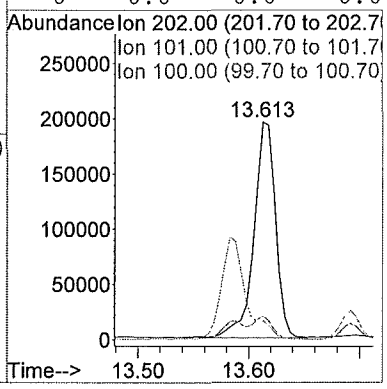


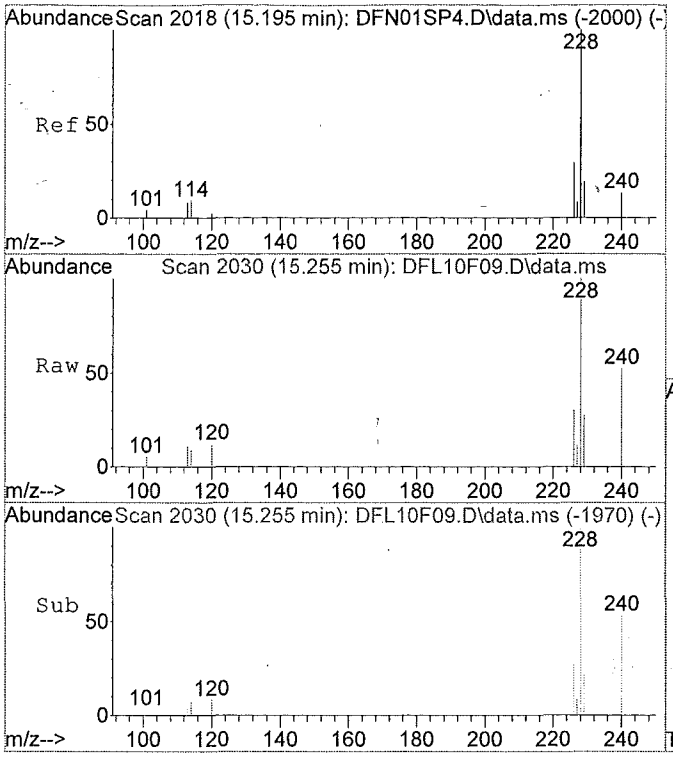


#16
Pyrene
Concen: 0.40 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. 0.00 min
Lab File: DFL10F09.D
Acq: 07/14/2015 18:45

Tgt Ion:202 Resp: 267726

Ion	Ratio	Lower	Upper
202	100		
101	9.2	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

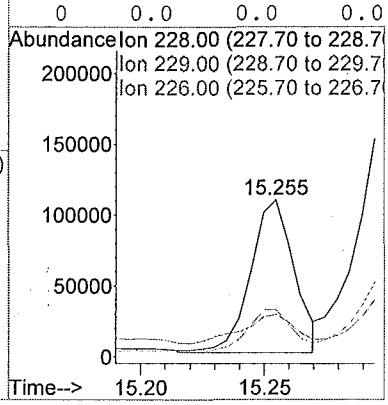


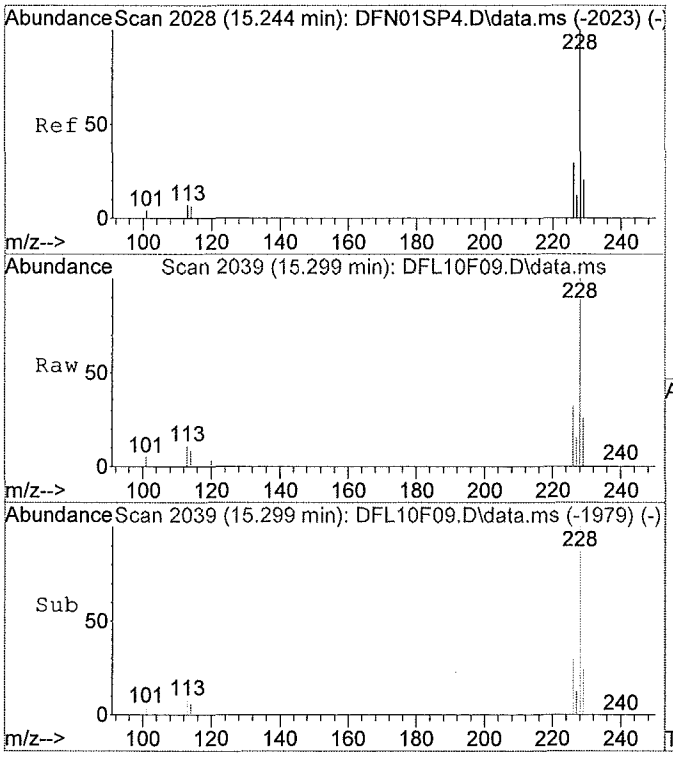


#17
Benzo(a)anthracene
Concen: 0.24 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. 0.00 min
Lab File: DFL10F09.D
Acq: 07/14/2015 18:45

Tgt Ion:228 Resp: 133110

Ion	Ratio	Lower	Upper
228	100		
229	30.7	14.5	26.9#
226	28.7	18.5	34.3
0	0.0	0.0	0.0

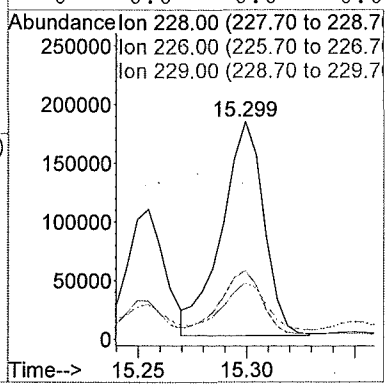


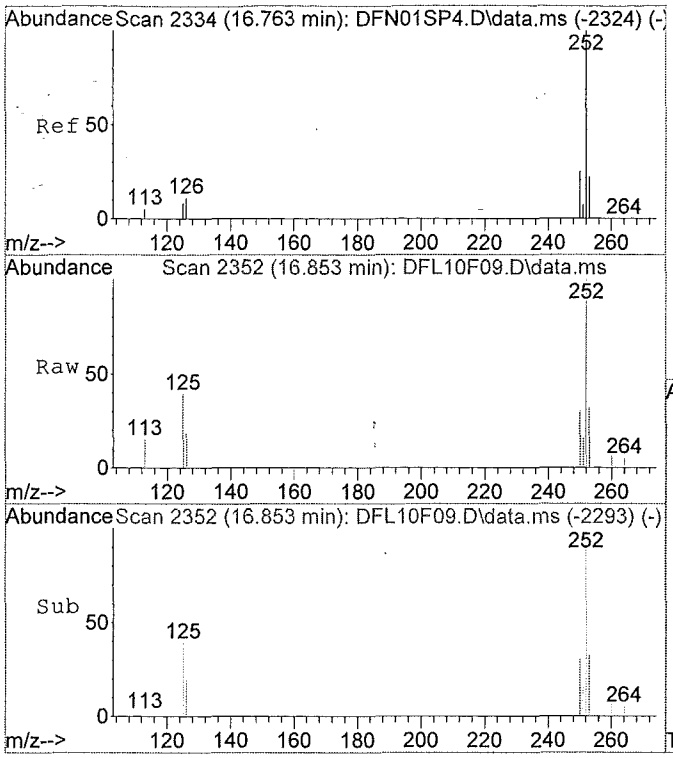


#18
Chrysene
Concen: 0.42 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFL10F09.D
Acq: 07/14/2015 18:45

Tgt Ion:228 Resp: 247215

Ion	Ratio	Lower	Upper
228	100		
226	29.0	19.7	36.7
229	25.2	14.5	26.9
0	0.0	0.0	0.0

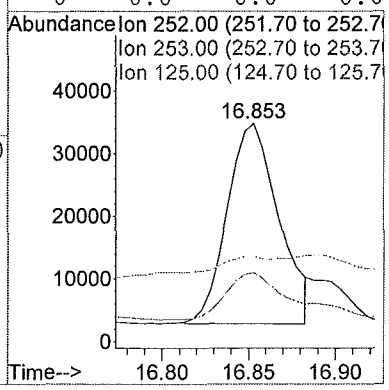


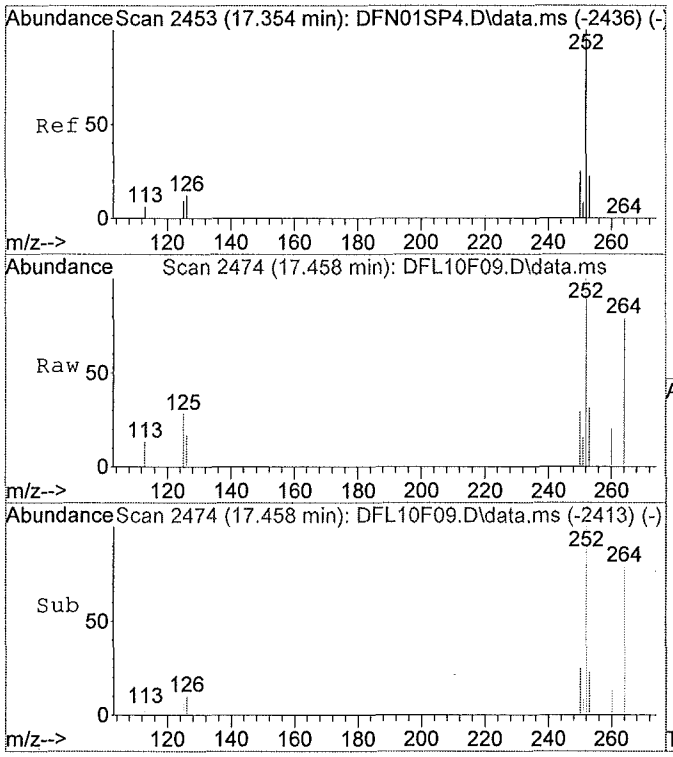


#20
Benzo(b)fluoranthene
Concen: 0.09 ug/ml m
RT: 16.85 min Scan# 2352
Delta R.T. 0.00 min
Lab File: DFL10F09.D
Acq: 07/14/2015 18:45

Tgt Ion:252 Resp: 66306

Ion	Ratio	Lower	Upper
252	100		
253	28.6	15.3	28.3#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

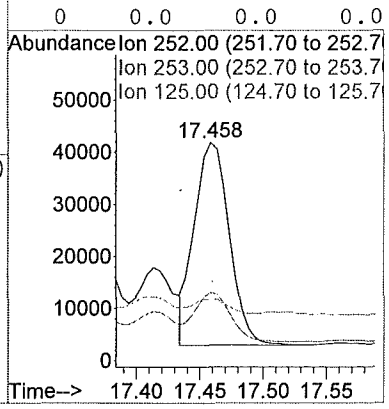


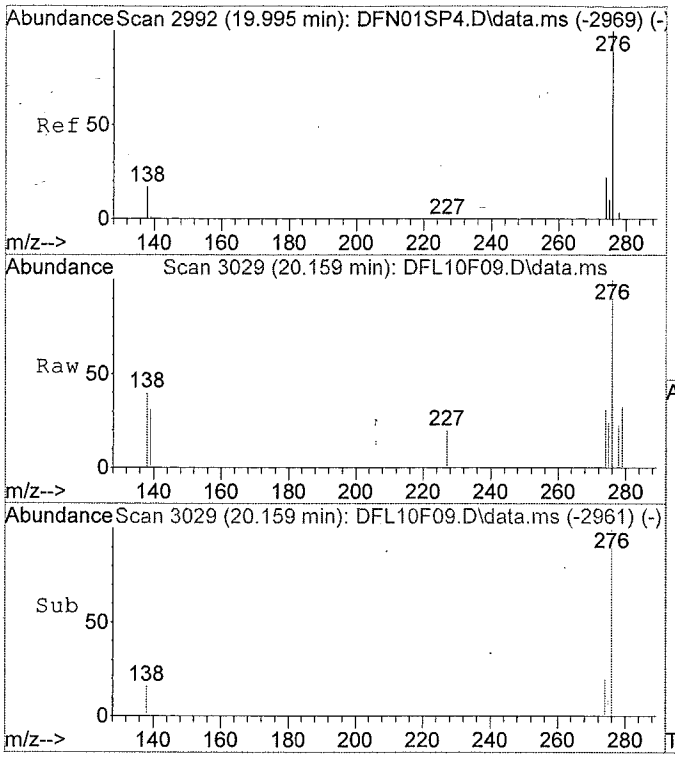


#22
Benzo(a)pyrene
Concen: 0.11 ug/ml
RT: 17.46 min Scan# 2474
Delta R.T. 0.01 min
Lab File: DFL10F09.D
Acq: 07/14/2015 18:45

Tgt Ion:252 Resp: 75066

Ion	Ratio	Lower	Upper
252	100		
253	25.0	15.0	27.8
125	7.1	0.0	0.0#
0	0.0	0.0	0.0

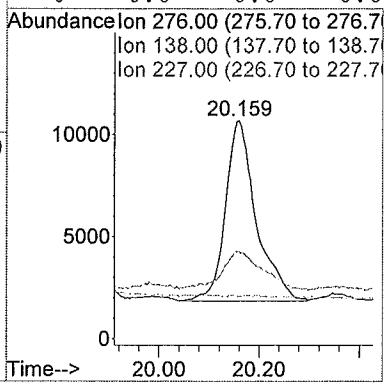


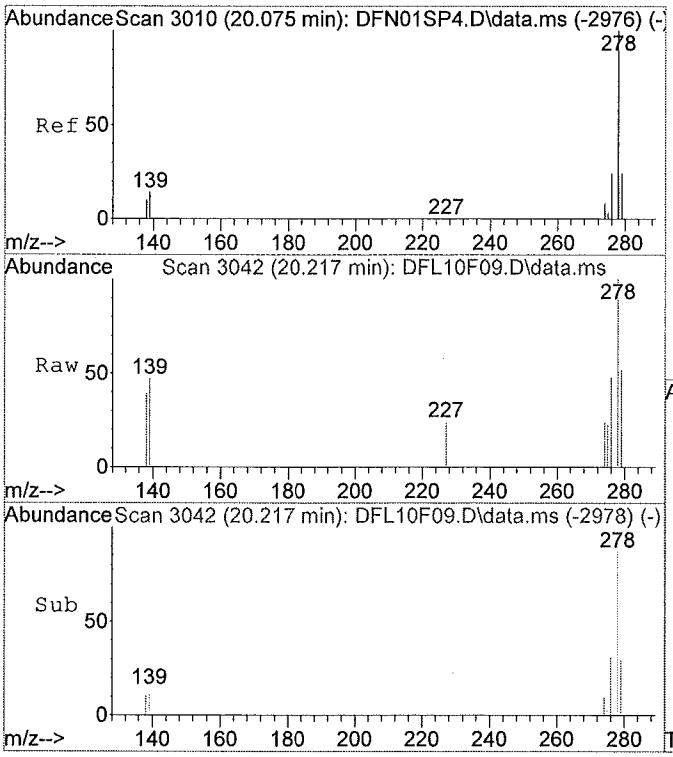


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.06 ug/ml
RT: 20.16 min Scan# 3029
Delta R.T. 0.00 min
Lab File: DFL10F09.D
Acq: 07/14/2015 18:45

Tgt Ion:276 Resp: 37603

Ion	Ratio	Lower	Upper
276	100		
138	27.5	0.0	0.0#
227	0.1	0.0	0.0#
0	0.0	0.0	0.0

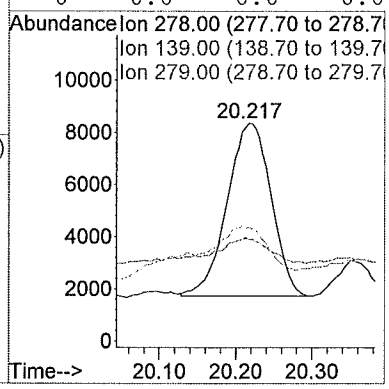


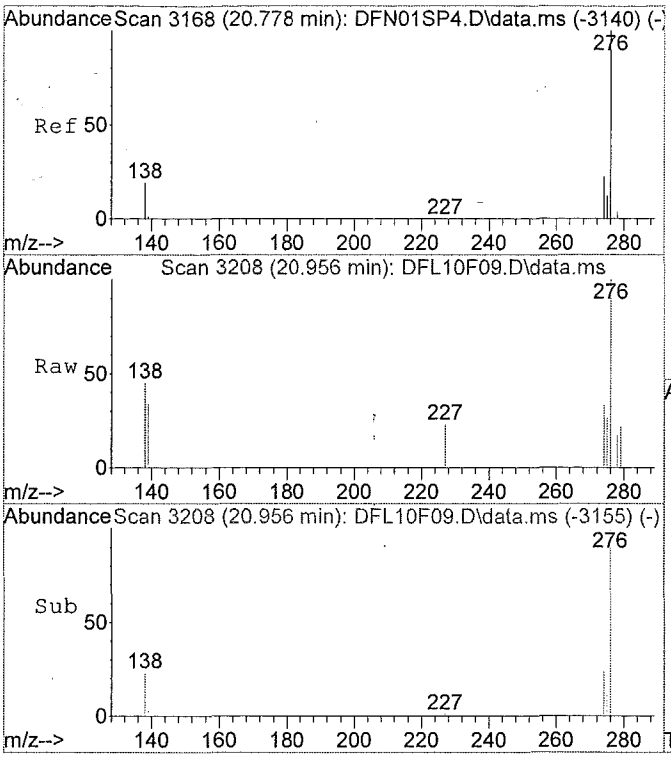


#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.22 min Scan# 3042
Delta R.T. -0.01 min
Lab File: DFL10F09.D
Acq: 07/14/2015 18:45

Tgt Ion:278 Resp: 26544

Ion	Ratio	Lower	Upper
278	100		
139	14.3	0.0	0.0#
279	23.5	15.8	29.3
0	0.0	0.0	0.0

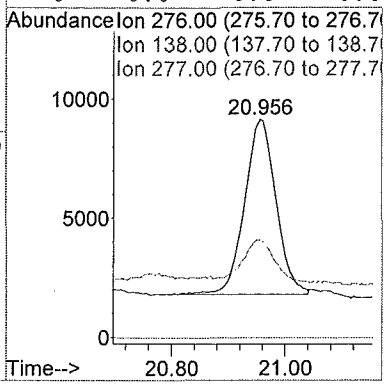




#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 20.96 min Scan# 3208
Delta R.T. 0.00 min
Lab File: DFL10F09.D
Acq: 07/14/2015 18:45

Tgt Ion:276 Resp: 28352

Ion	Ratio	Lower	Upper
276	100		
138	24.0	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.

F9M05

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375010

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DGA13F10

Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 10.0

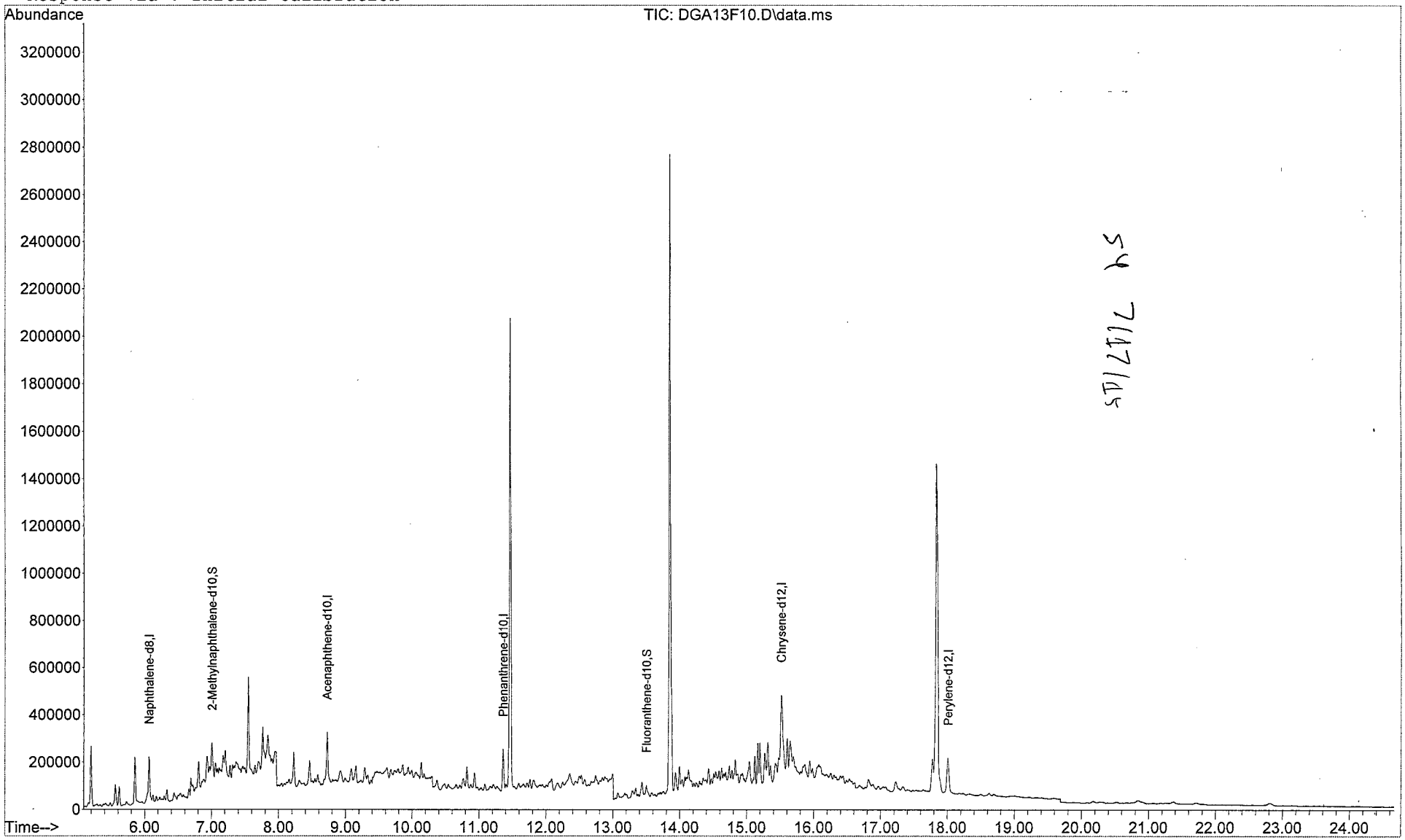
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	13.	J
91-57-6	2-Methylnaphthalene	27.	J
208-96-8	Acenaphthylene	38.	U
83-32-9	Acenaphthene	38.	U
86-73-7	Fluorene	38.	U
87-86-5	Pentachlorophenol	76.	U
85-01-8	Phenanthrene	18.	J
120-12-7	Anthracene	38.	U
206-44-0	Fluoranthene	7.7	J
129-00-0	Pyrene	140	
56-55-3	Benzo(a)anthracene	33.	J
218-01-9	Chrysene	68.	
205-99-2	Benzo(b)fluoranthene	23.	J
207-08-9	Benzo(k)fluoranthene	38.	U
50-32-8	Benzo(a)pyrene	25.	J
193-39-5	Indeno(1,2,3-cd)pyrene	16.	J
53-70-3	Dibenzo(a,h)anthracene	38.	U
191-24-2	Benzo(g,h,i)perylene	38.	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\12JUN15\DGA13F10.D Vial: 11
Acq On : 06/12/2015 18:16 Operator: DJC
Sample : 1515375010 F9M05 (10) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 16 07:21:49 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



STD 7/17/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\12JUN15\DGA13F10.D Vial: 11
Acq On : 06/12/2015 18:16 Operator: DJC
Sample : 1515375010 F9M05 (10) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 16 07:21:49 2015 Results File: DSOM_SIMJ2.RES

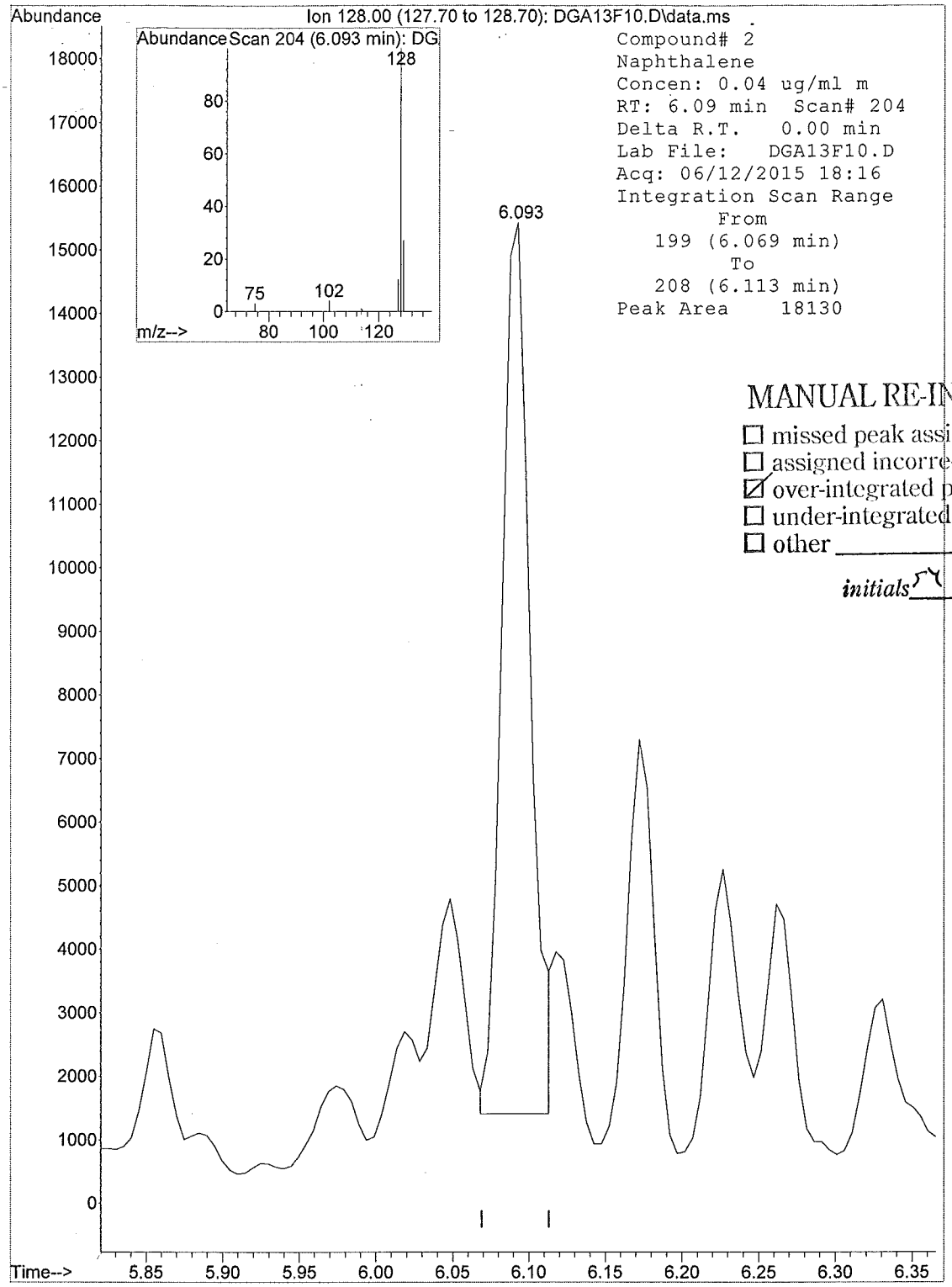
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	198212	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	148557	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	241108	0.40 ug/ml
15) Chrysene-d12	15.51	240	270672	0.40 ug/ml
19) Perylene-d12	18.01	264	255416	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.00	152	28680	0.090ug/mL
13) Fluoranthene-d10	13.50	212	43347	0.066ug/mL
Target Compounds				Qvalue
2) Naphthalene	6.09	128	18130	0.035ug/ml m 54 92
4) 2-Methylnaphthalene	7.05	142	23801	0.072ug/ml 7/17/15 88
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	32034	0.046ug/ml 93
12) Anthracene	0.00	178		Not Detected
14) Fluoranthene	13.52	202	16039	0.020ug/ml 70
16) Pyrene	13.87	202	317856	0.374ug/ml m 54 7/17/15 83
17) Benzo(a)anthracene	15.50	228	61928	0.086ug/ml 15
18) Chrysene	15.53	228	136422	0.179ug/ml 1
20) Benzo(b)fluoranthene	17.23	252	48799	0.061ug/ml m 54 7/17/15 87
21) Benzo(k)fluoranthene	0.00	252		Not Detected
22) Benzo(a)pyrene	17.89	252	49294	0.065ug/ml 64
23) Indeno(1,2,3-c,d)pyrene	20.84	276	28439	0.043ug/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)

: 01120

M A N U A L I N T E G R A T I O N FOR Naphthalene

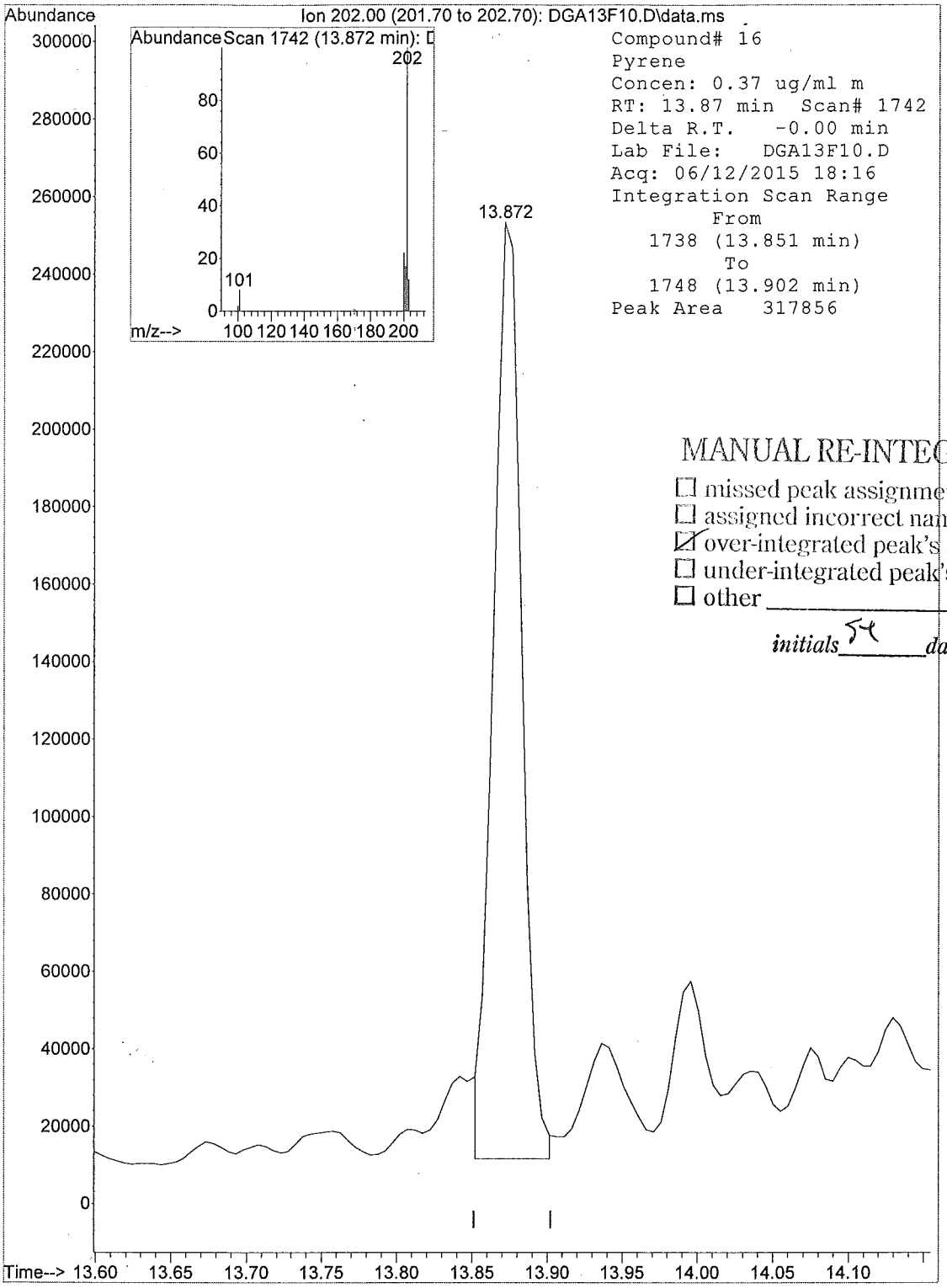


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 7/17/15

M A N U A L I N T E G R A T I O N FOR Pyrene



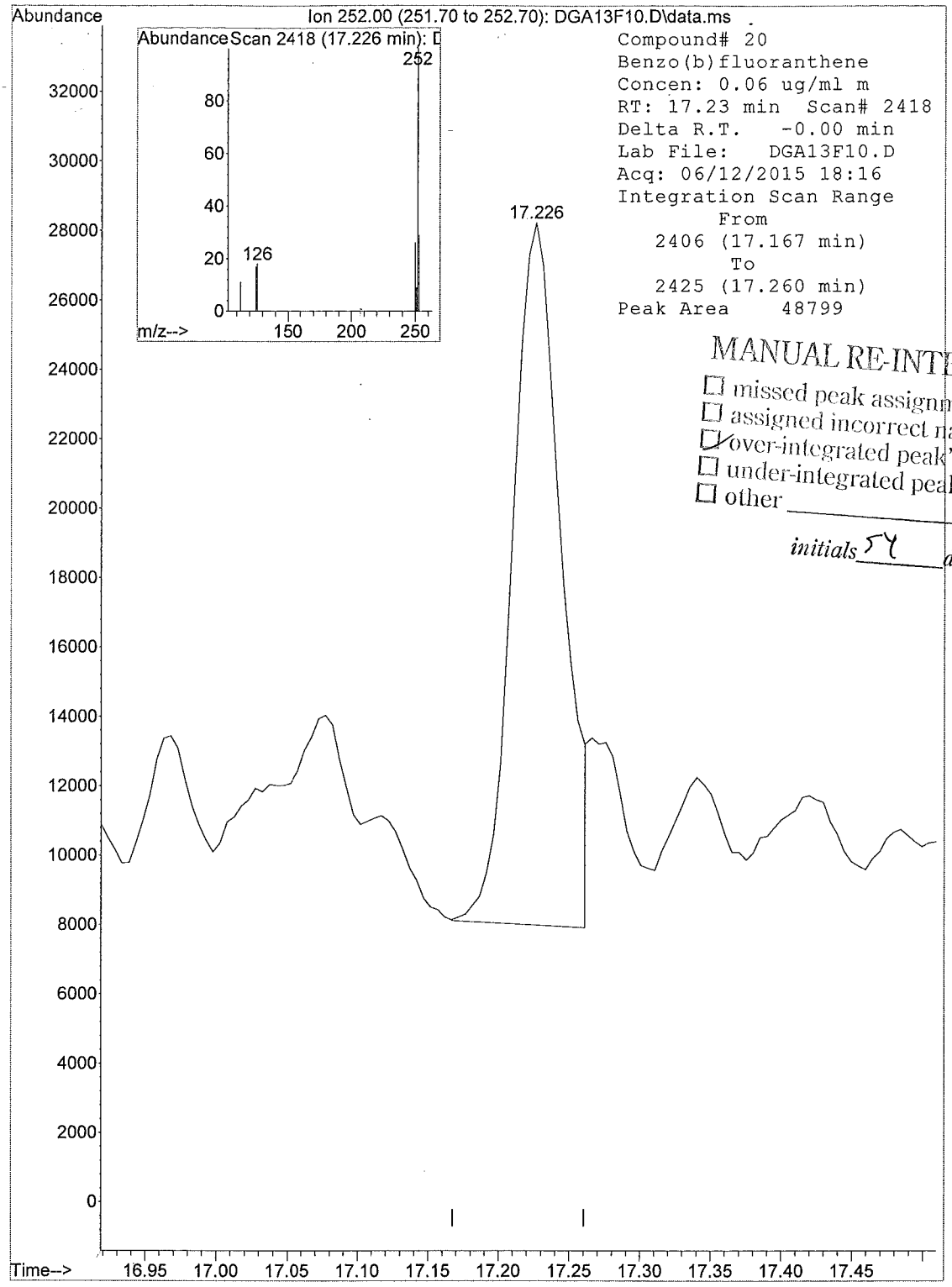
Compound# 16
Pyrene
Concen: 0.37 ug/ml m
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DGA13F10.D
Acq: 06/12/2015 18:16
Integration Scan Range
From
1738 (13.851 min)
To
1748 (13.902 min)
Peak Area 317856

MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/17/15

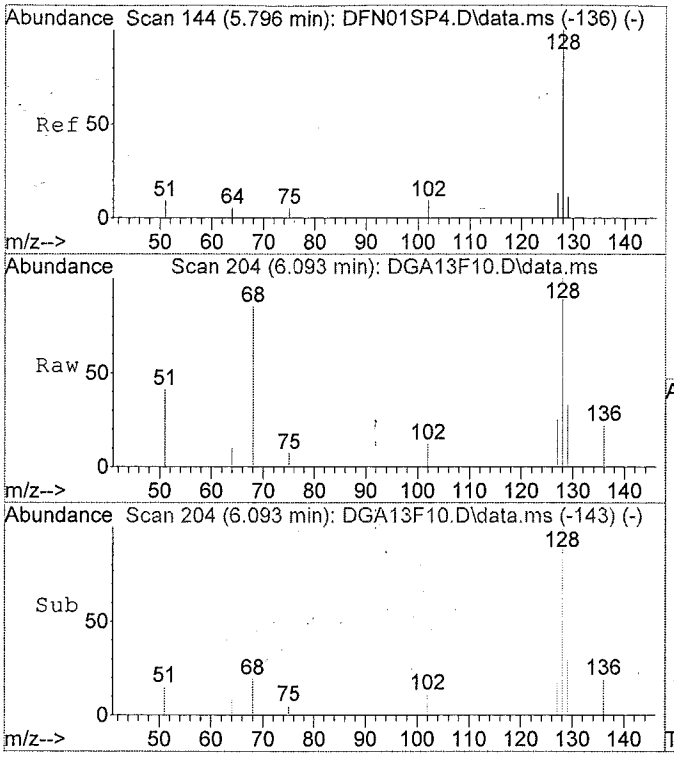
M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene



MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

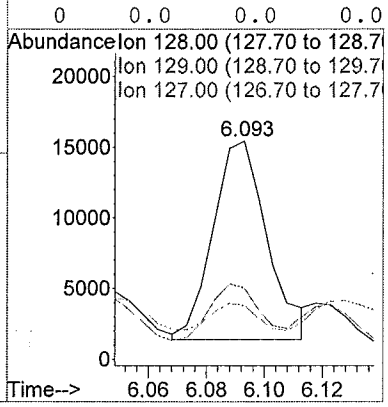
initials SY *date* 7/17/15

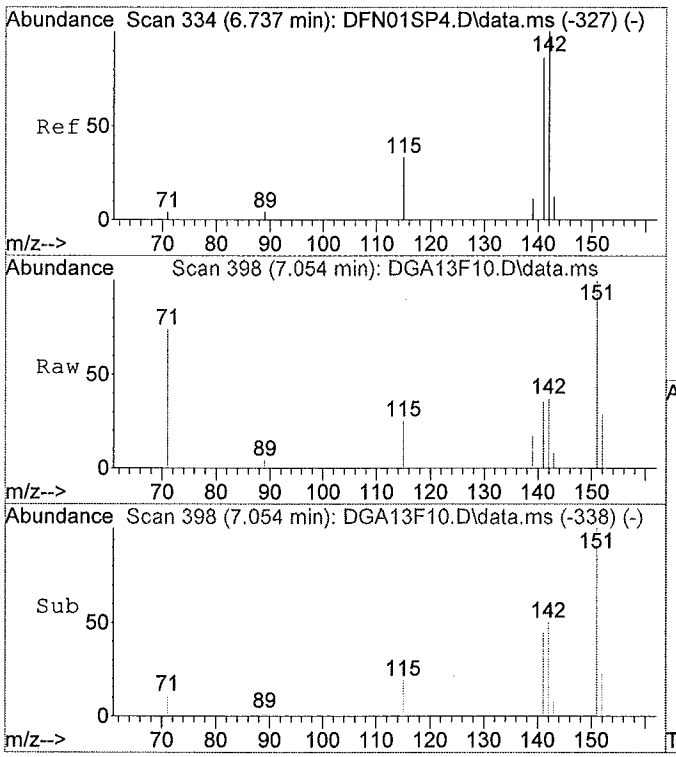


#2
Naphthalene
Concen: 0.04 ug/ml m
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DGA13F10.D
Acq: 06/12/2015 18:16

Tgt Ion:128 Resp: 18130

Ion	Ratio	Lower	Upper
128	100		
129	35.7	0.0	0.0#
127	16.1	11.1	20.5
0	0.0	0.0	0.0

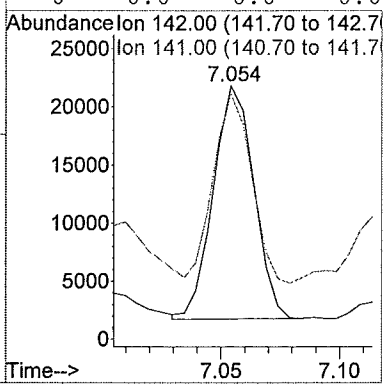


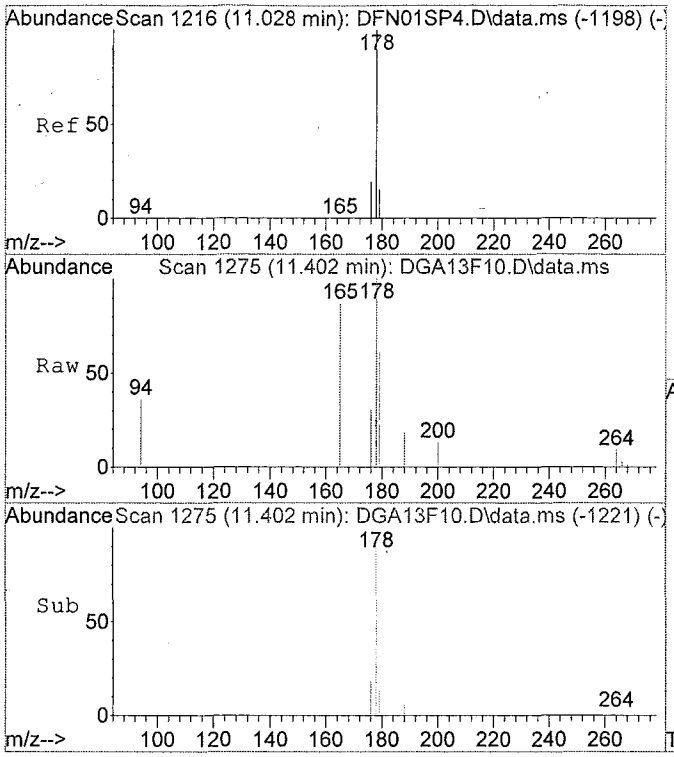


#4
2-Methylnaphthalene
Concen: 0.07 ug/ml
RT: 7.05 min Scan# 398
Delta R.T. -0.00 min
Lab File: DGA13F10.D
Acq: 06/12/2015 18:16

Tgt Ion:142 Resp: 23801

Ion	Ratio	Lower	Upper
142	100		
141	76.4	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

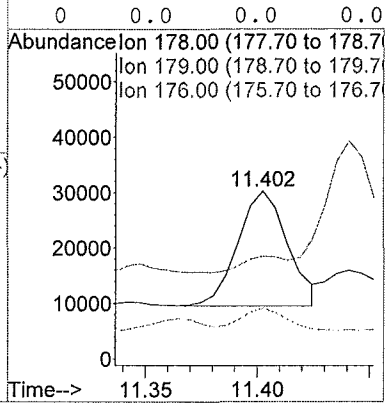


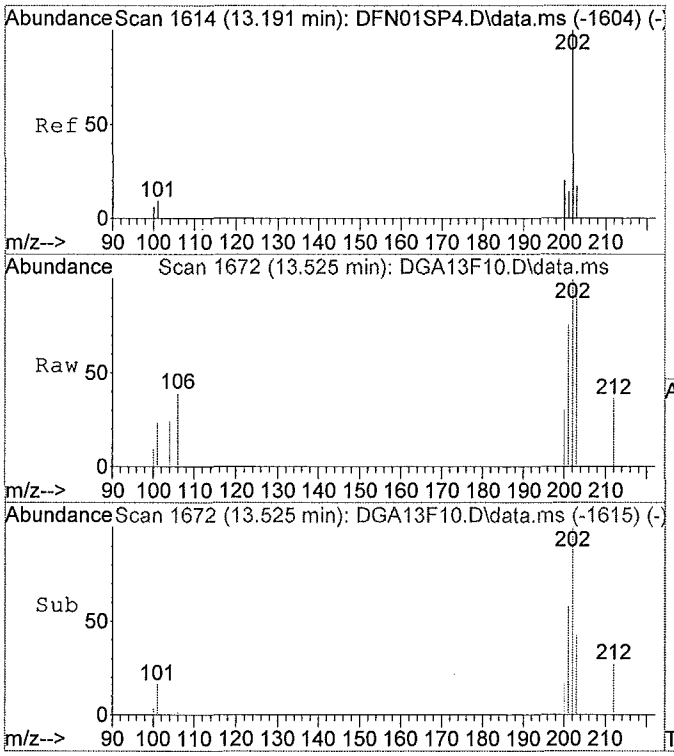


#11
Phenanthrene
Concen: 0.Q5 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DGA13F10.D
Acq: 06/12/2015 18:16

Tgt Ion:178 Resp: 32034

Ion	Ratio	Lower	Upper
178	100		
179	12.3	11.1	20.5
176	17.2	14.1	26.1
0	0.0	0.0	0.0

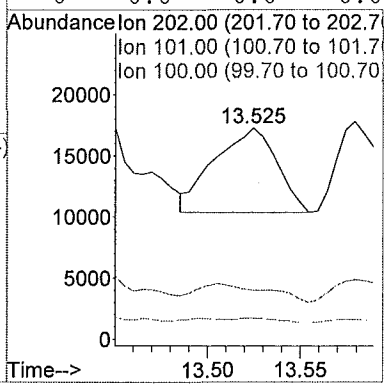


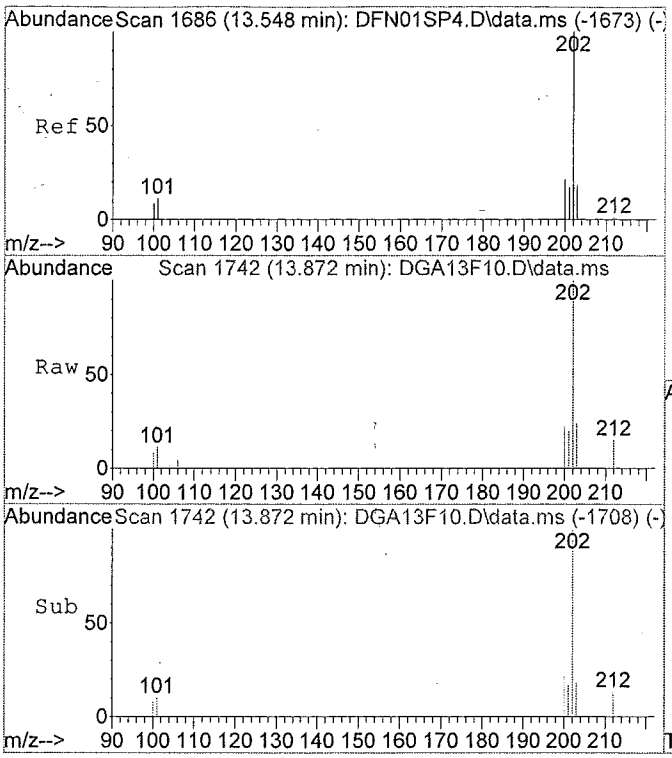


#14
Fluoranthene
Concen: 0.02 ug/ml
RT: 13.52 min Scan# 1672
Delta R.T. -0.01 min
Lab File: DGA13F10.D
Acq: 06/12/2015 18:16

Tgt Ion:202 Resp: 16039

Ion	Ratio	Lower	Upper
202	100		
101	25.4	9.4	17.6#
100	1.7	0.0	0.0#
0	0.0	0.0	0.0

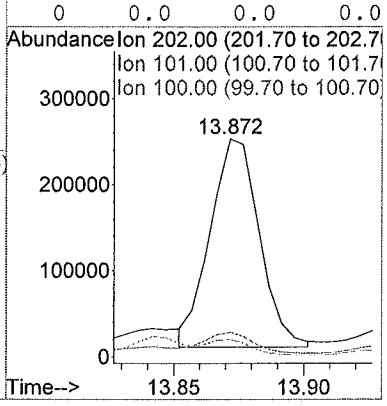


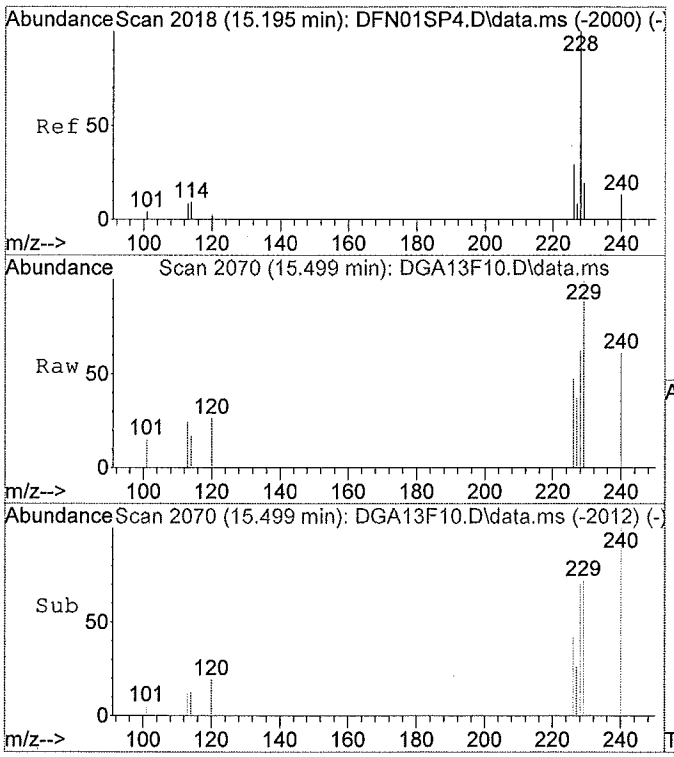


#16
Pyrene
Concen: 0.37 ug/ml m
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DGA13F10.D
Acq: 06/12/2015 18:16

Tgt Ion:202 Resp: 317856

Ion	Ratio	Lower	Upper
202	100		
101	9.8	10.6	19.6#
100	6.8	9.4	17.4#
0	0.0	0.0	0.0

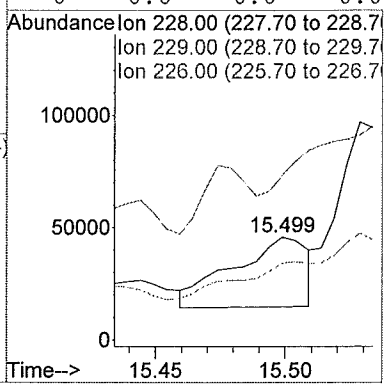


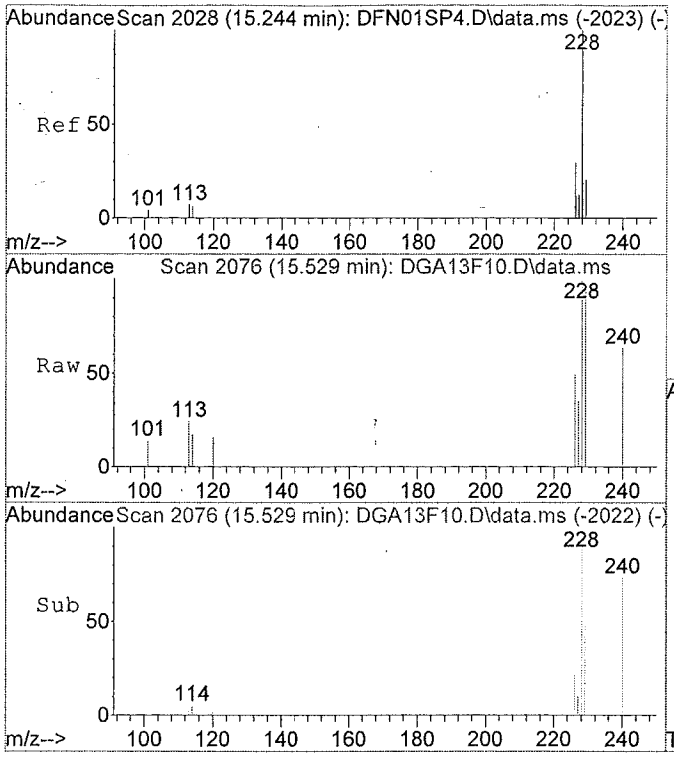


#17
Benzo(a)anthracene
Concen: 0.09 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DGA13F10.D
Acq: 06/12/2015 18:16

Tgt Ion:228 Resp: 61928

Ion	Ratio	Lower	Upper
228	100		
229	79.9	14.5	26.9#
226	0.0	18.5	34.3#
0	0.0	0.0	0.0

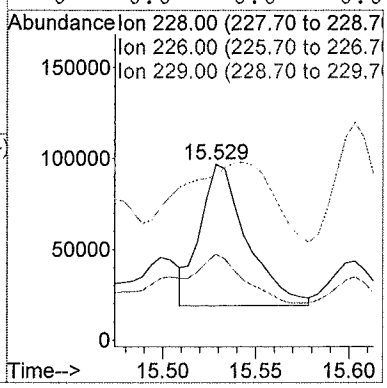


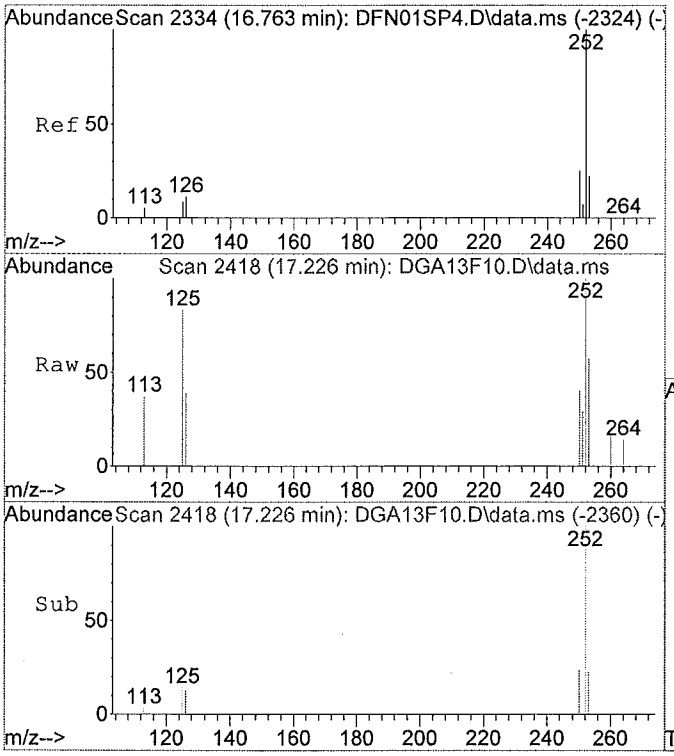


#18
Chrysene
Concen: 0.18 ug/ml
RT: 15.53 min Scan# 2076
Delta R.T. -0.03 min
Lab File: DGA13F10.D
Acq: 06/12/2015 18:16

Tgt Ion:228 Resp: 136422

Ion	Ratio	Lower	Upper
228	100		
226	64.8	19.7	36.7#
229	107.9	14.5	26.9#
0	0.0	0.0	0.0

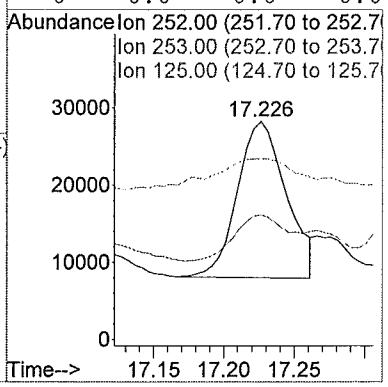


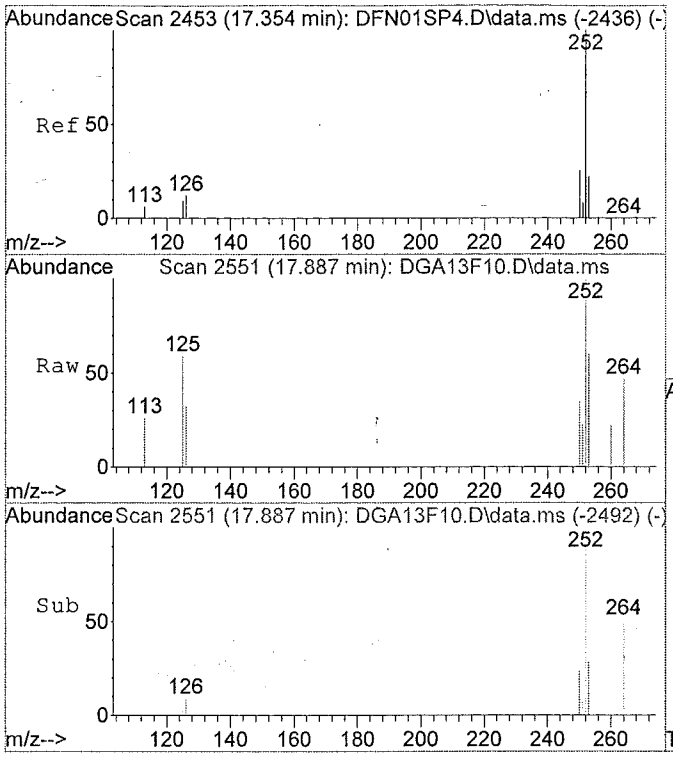


#20
Benzo(b)fluoranthene
Concen: 0.06 ug/ml m
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DGA13F10.D
Acq: 06/12/2015 18:16

Tgt Ion:252 Resp: 48799

Ion	Ratio	Lower	Upper
252	100		
253	33.3	15.3	28.3#
125	24.8	0.0	0.0#
0	0.0	0.0	0.0

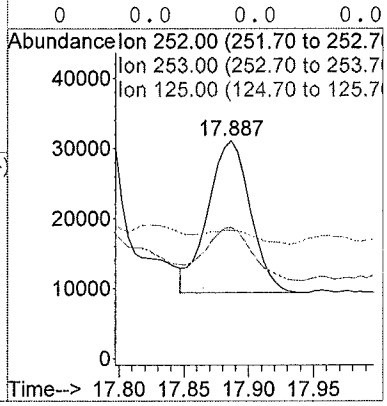


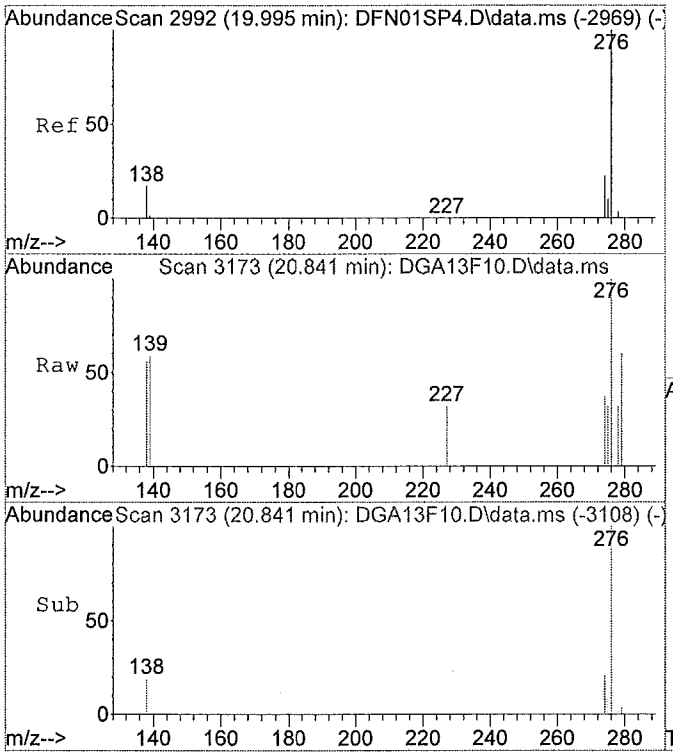


#22
Benzo(a)pyrene
Concen: 0.06 ug/ml
RT: 17.89 min Scan# 2551
Delta R.T. -0.00 min
Lab File: DGA13F10.D
Acq: 06/12/2015 18:16

Tgt Ion:252 Resp: 49294

Ion	Ratio	Lower	Upper
252	100		
253	38.1	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

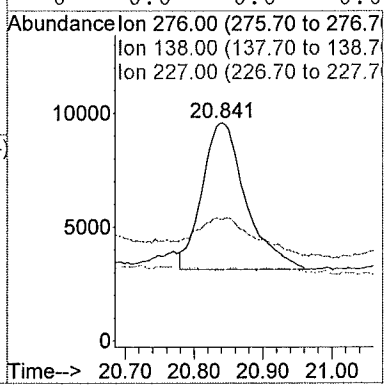




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.04 ug/ml
RT: 20.84 min Scan# 3173
Delta R.T. -0.01 min
Lab File: DGA13F10.D
Acq: 06/12/2015 18:16

Tgt Ion:276 Resp: 28439

Ion	Ratio	Lower	Upper
276	100		
138	6.3	0.0	0.0#
227	0.2	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.

F9M06

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375011

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFL11F11

Extraction: (Type) SONC

% Moisture: 14. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/14/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 50.0

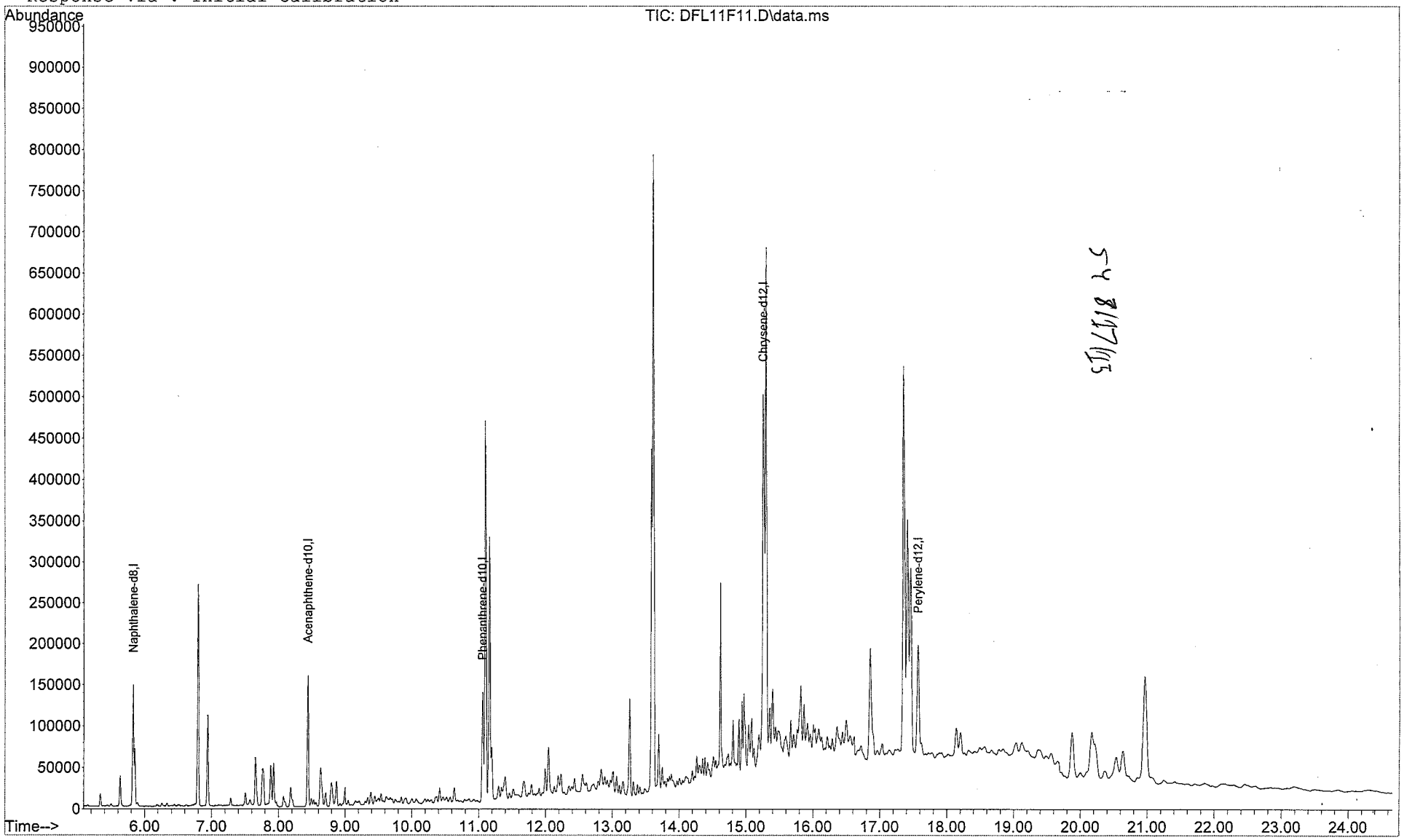
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	250	
91-57-6	2-Methylnaphthalene	940	
208-96-8	Acenaphthylene	190	U
83-32-9	Acenaphthene	190	U
86-73-7	Fluorene	40.	J
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	1800	
120-12-7	Anthracene	250	
206-44-0	Fluoranthene	320	
129-00-0	Pyrene	1700	
56-55-3	Benzo(a)anthracene	870	
218-01-9	Chrysene	1500	
205-99-2	Benzo(b)fluoranthene	440	
207-08-9	Benzo(k)fluoranthene	53.	J
50-32-8	Benzo(a)pyrene	730	
193-39-5	Indeno(1,2,3-cd)pyrene	430	
53-70-3	Dibenzo(a,h)anthracene	220	
191-24-2	Benzo(g,h,i)perylene	930	

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL11F11.D Vial: 11
Acq On : 07/14/2015 19:15 Operator: DJC
Sample : 1515375011 F9M06 (50) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 11:57:13 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL11F11.D Vial: 11
Acq On : 07/14/2015 19:15 Operator: DJC
Sample : 1515375011 F9M06 (50) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 11:57:13 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

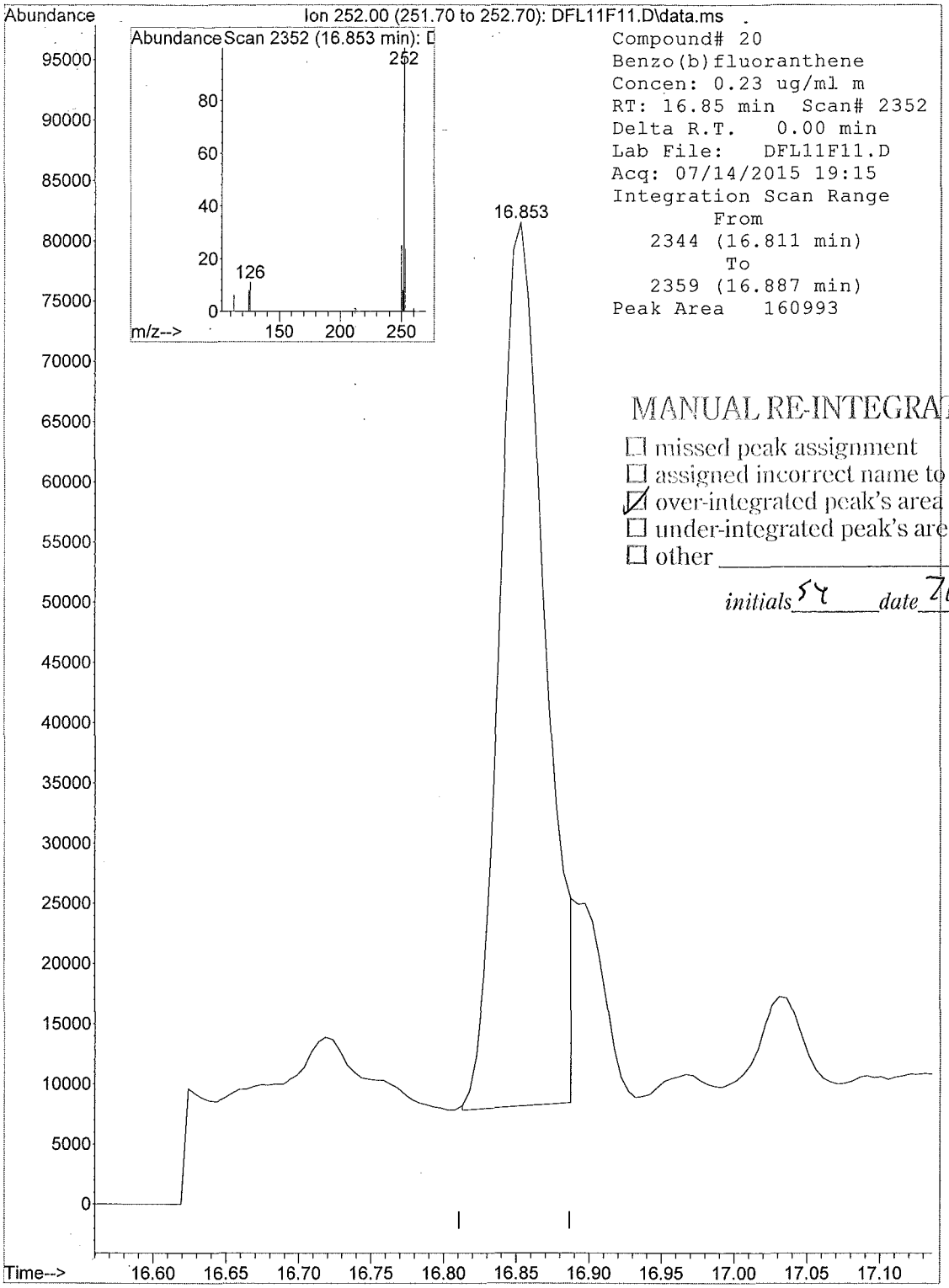
Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	158596	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	101451	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	179364	0.40 ug/ml	
15) Chrysene-d12	15.26	240	212863	0.40 ug/ml	
19) Perylene-d12	17.57	264	224367	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	2766	0.011ug/mL	
13) Fluoranthene-d10	13.23	212	7012	0.014ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.85	128	52687	0.127ug/ml	95
4) 2-Methylnaphthalene	6.80	142	130215	0.489ug/ml	99
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	9.38	166	6921	0.021ug/ml	91
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.10	178	487390	0.944ug/ml	99
12) Anthracene	11.19	178	65306	0.130ug/ml	88
14) Fluoranthene	13.26	202	97814	0.166ug/ml	93
16) Pyrene	13.61	202	587421	0.880ug/ml	88
17) Benzo(a)anthracene	15.25	228	254904	0.449ug/ml	75
18) Chrysene	15.30	228	469337	0.783ug/ml	90
20) Benzo(b)fluoranthene	16.85	252	160993	0.230ug/ml m	90
21) Benzo(k)fluoranthene	16.90	252	19746	0.027ug/ml m	90
22) Benzo(a)pyrene	17.46	252	253556	0.379ug/ml	95
23) Indeno(1,2,3-c,d)pyrene	20.16	276	131108	0.224ug/ml	100
24) Dibenzo(a,h)anthracene	20.23	278	75275	0.116ug/ml	86
25) Benzo(g,h,i)perylene	20.96	276	318147	0.484ug/ml	69

SY 7/17/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 041131

M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene

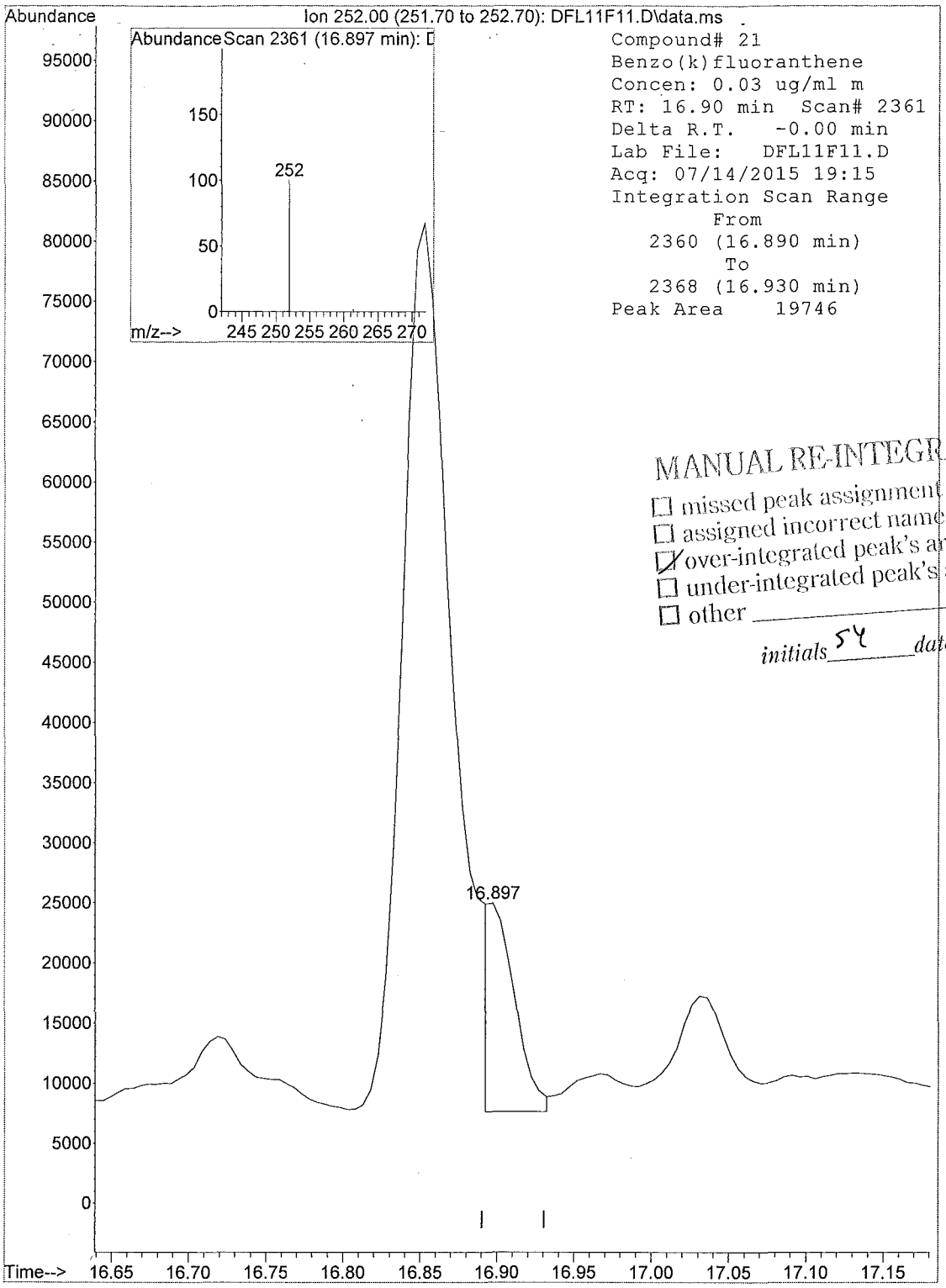


MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/17/15

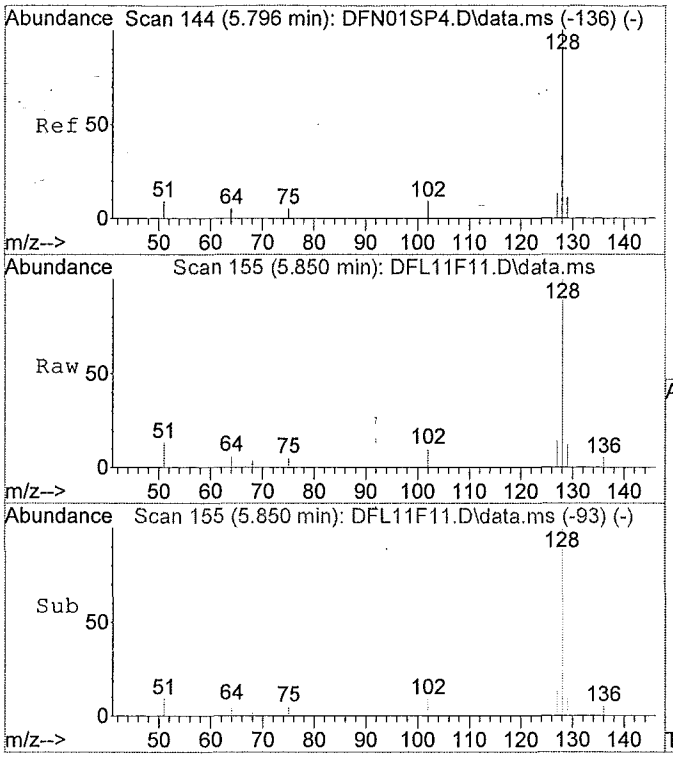
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

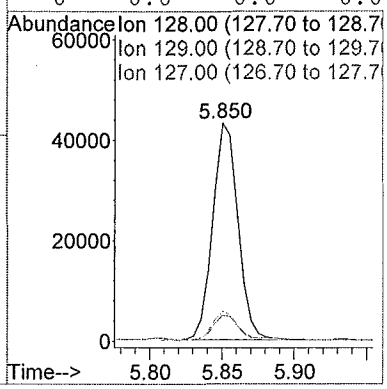
initials SY *date* 7/27/15

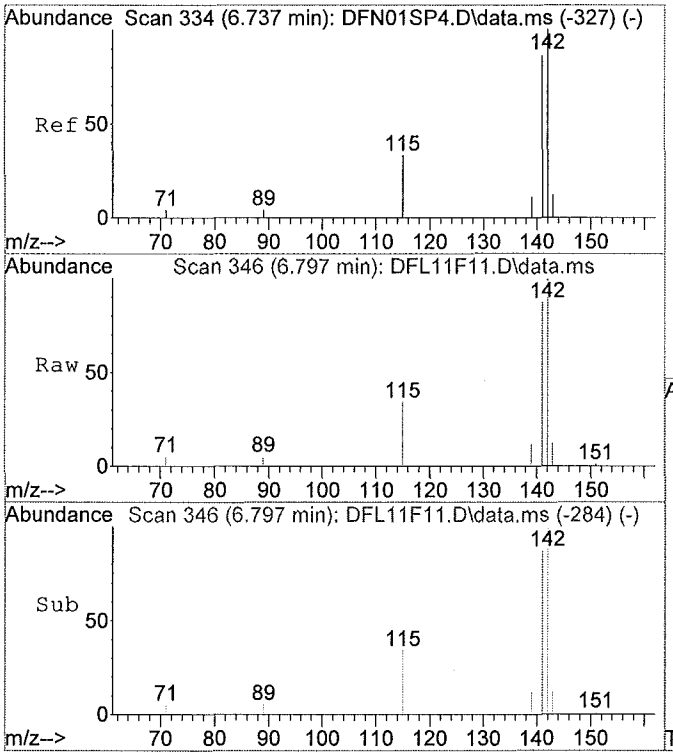


#2
Naphthalene
Concen: 0.13 ug/ml
RT: 5.85 min Scan# 155
Delta R.T. 0.00 min
Lab File: DFL11F11.D
Acq: 07/14/2015 19:15

Tgt Ion:128 Resp: 52687

Ion	Ratio	Lower	Upper
128	100		
129	12.8	0.0	0.0#
127	13.6	11.1	20.5
0	0.0	0.0	0.0

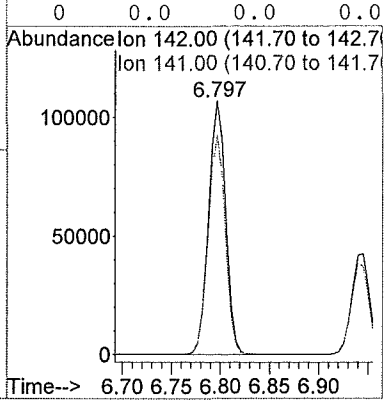


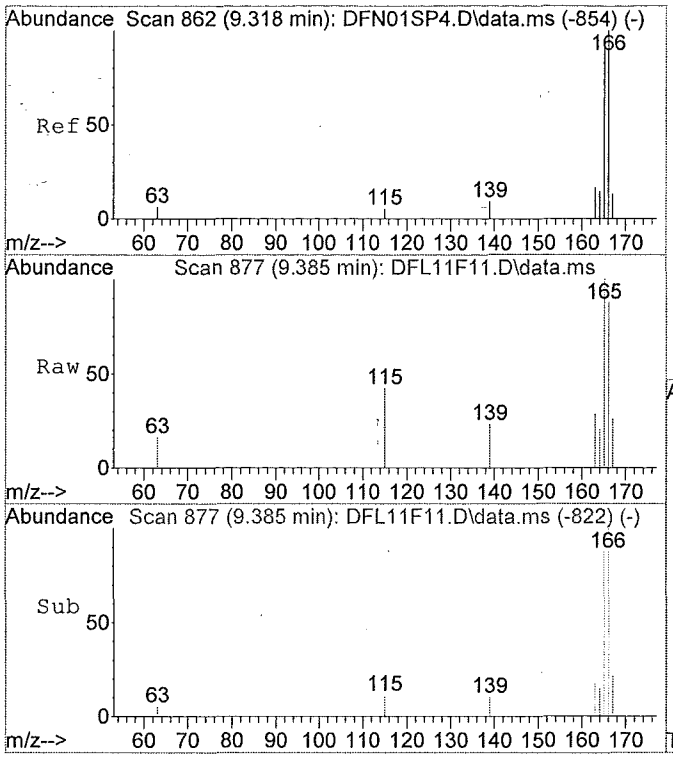


#4
2-Methylnaphthalene
Concen: 0.49 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.00 min
Lab File: DFL11F11.D
Acq: 07/14/2015 19:15

Tgt Ion:142 Resp: 130215

Ion	Ratio	Lower	Upper
142	100		
141	86.1	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

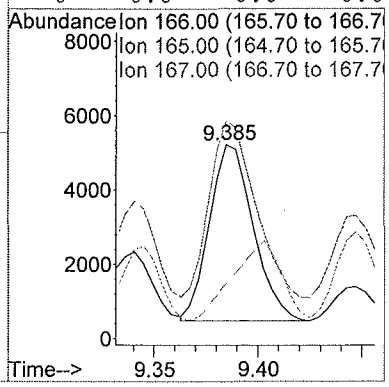


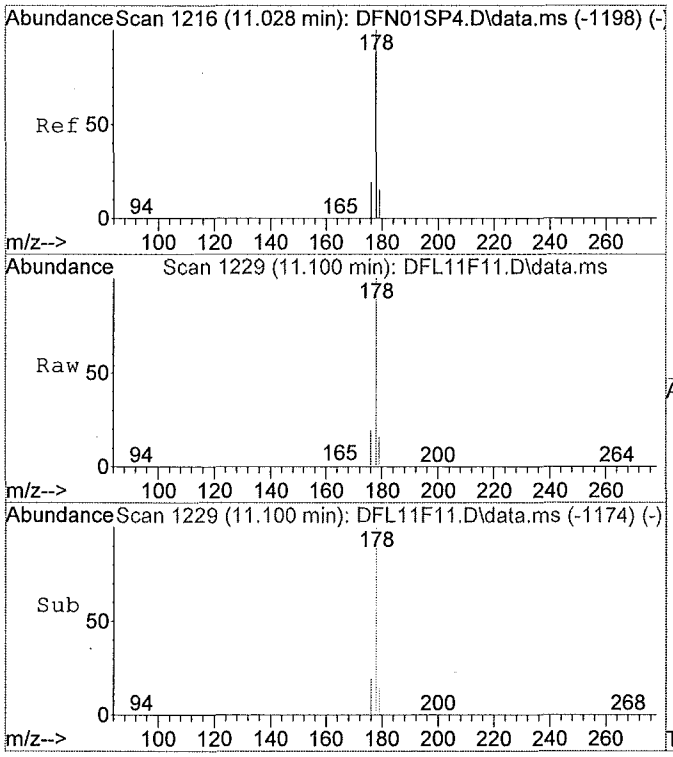


#8
Fluorene
Concen: 0.02 ug/ml
RT: 9.38 min Scan# 877
Delta R.T. 0.00 min
Lab File: DFL11F11.D
Acq: 07/14/2015 19:15

Tgt Ion:166 Resp: 6921

Ion	Ratio	Lower	Upper
166	100		
165	103.5	66.3	123.1
167	50.5	0.0	0.0#
0	0.0	0.0	0.0

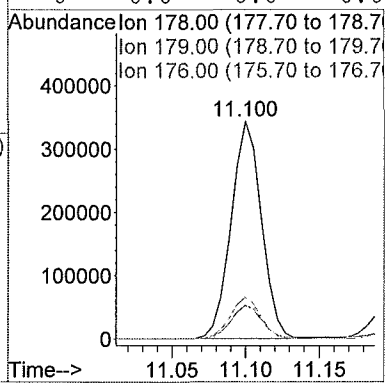


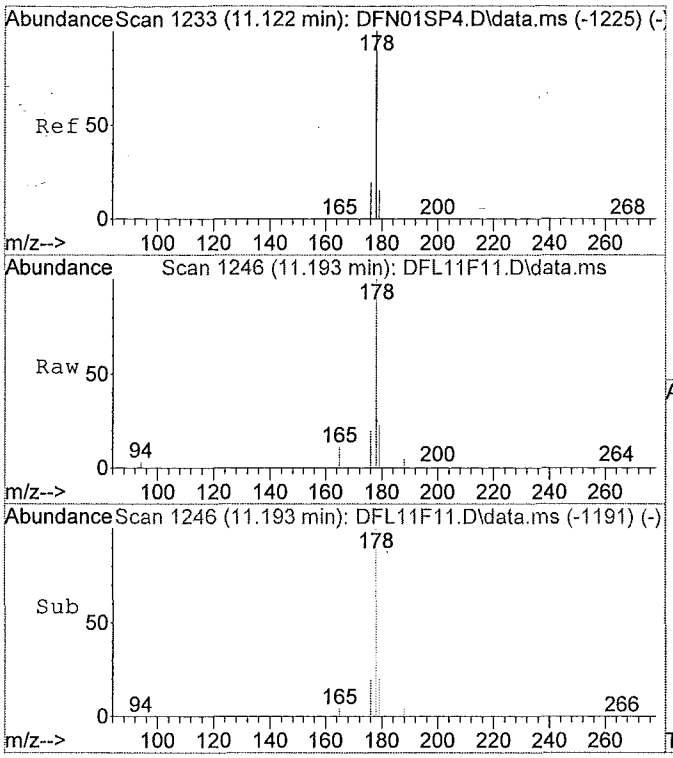


#11
Phenanthrene
Concen: 0.94 ug/ml
RT: 11.10 min Scan# 1229
Delta R.T. 0.00 min
Lab File: DFL11F11.D
Acq: 07/14/2015 19:15

Tgt Ion:178 Resp: 487390

Ion	Ratio	Lower	Upper
178	100		
179	15.6	11.1	20.5
176	19.3	14.1	26.1
0	0.0	0.0	0.0

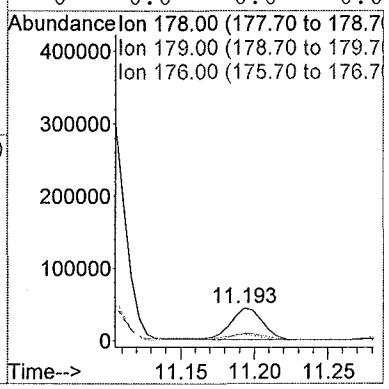


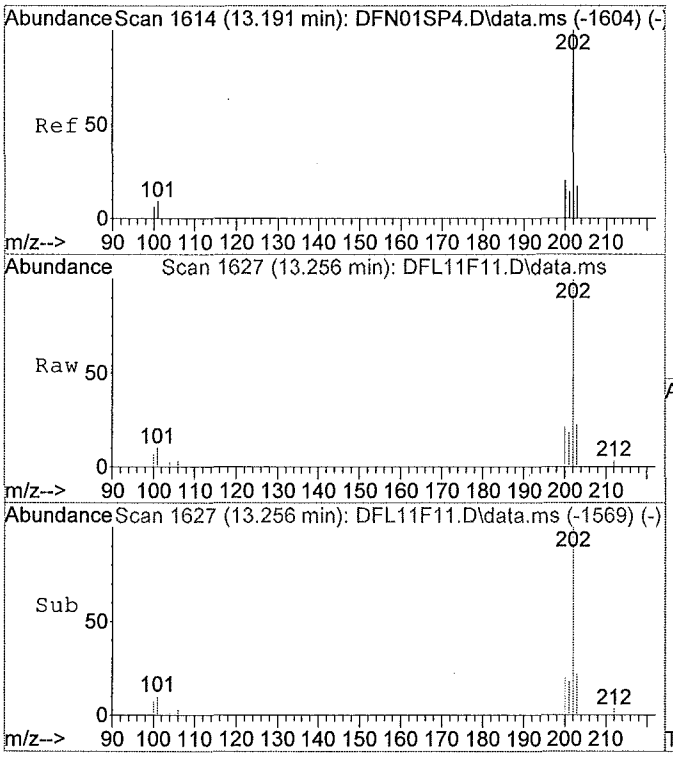


#12
Anthracene
Concen: 0.13 ug/ml
RT: 11.19 min Scan# 1246
Delta R.T. 0.00 min
Lab File: DFL11F11.D
Acq: 07/14/2015 19:15

Tgt Ion:178 Resp: 65306

Ion	Ratio	Lower	Upper
178	100		
179	26.7	11.6	21.6#
176	19.0	13.9	25.7
0	0.0	0.0	0.0

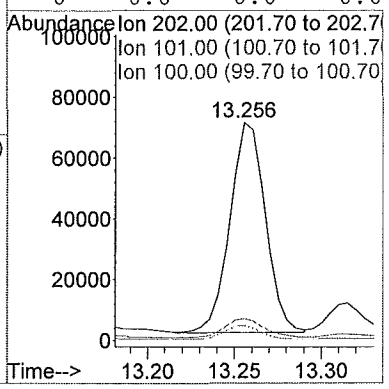


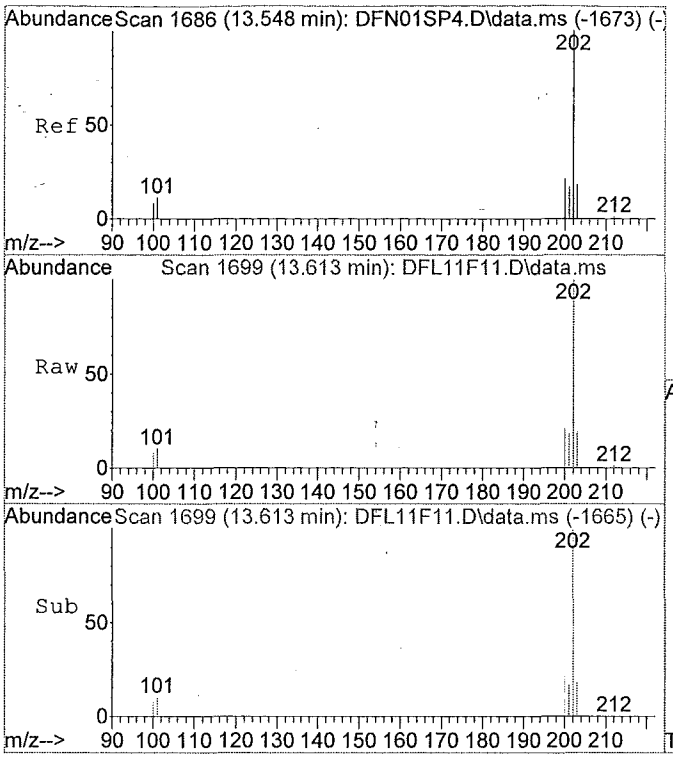


#14
Fluoranthene
Concen: 0.17 ug/ml
RT: 13.26 min Scan# 1627
Delta R.T. 0.00 min
Lab File: DFL11F11.D
Acq: 07/14/2015 19:15

Tgt Ion:202 Resp: 97814

Ion	Ratio	Lower	Upper
202	100		
101	10.7	9.4	17.6
100	6.5	0.0	0.0#
0	0.0	0.0	0.0

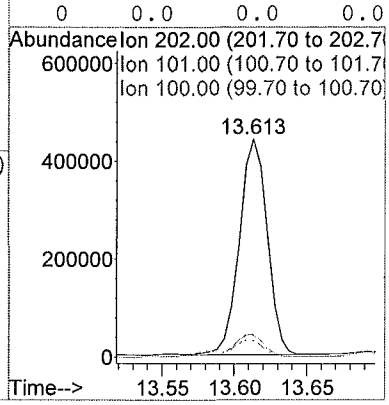


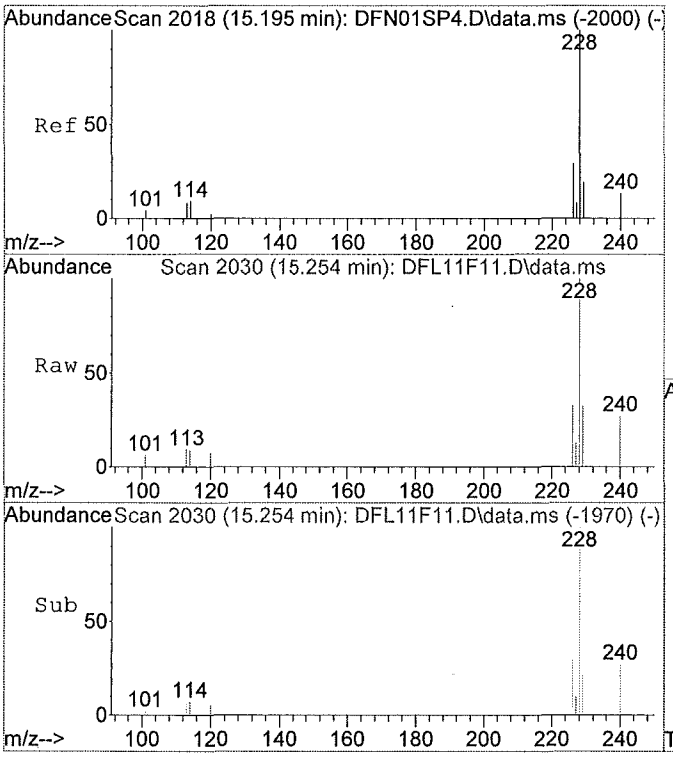


#16
Pyrene
Concen: 0.88 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. 0.00 min
Lab File: DFL11F11.D
Acq: 07/14/2015 19:15

Tgt Ion:202 Resp: 587421

Ion	Ratio	Lower	Upper
202	100		
101	11.0	10.6	19.6
100	7.9	9.4	17.4#
0	0.0	0.0	0.0

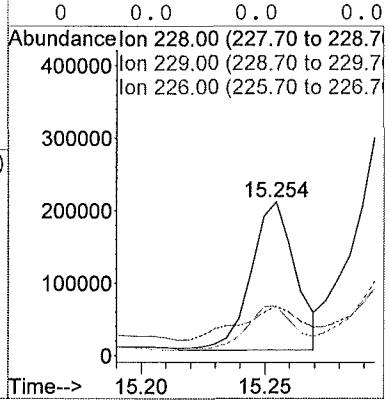


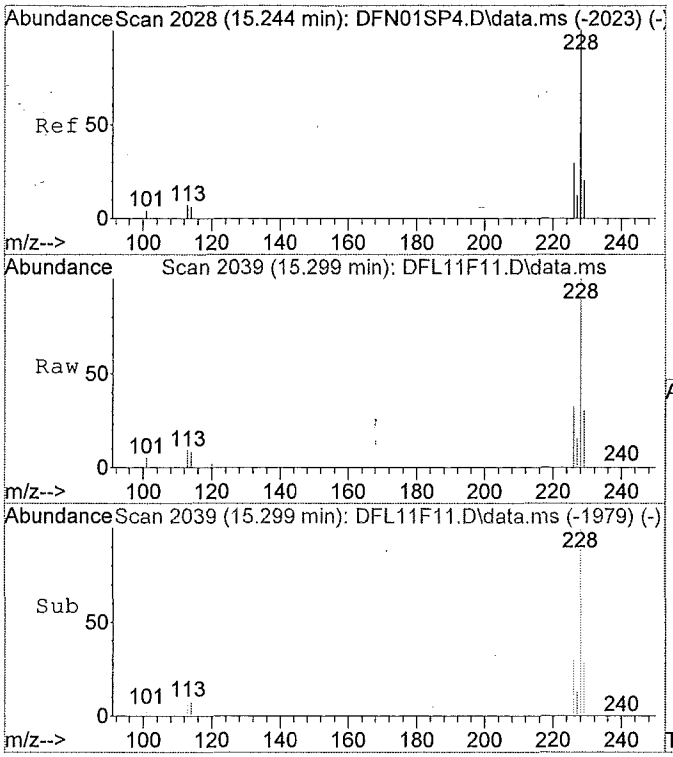


#17
Benzo(a)anthracene
Concen: 0.45 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. 0.00 min
Lab File: DFL11F11.D
Acq: 07/14/2015 19:15

Tgt Ion:228 Resp: 254904

Ion	Ratio	Lower	Upper
228	100		
229	40.0	14.5	26.9#
226	32.7	18.5	34.3
0	0.0	0.0	0.0

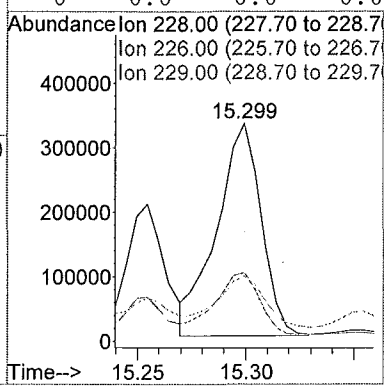


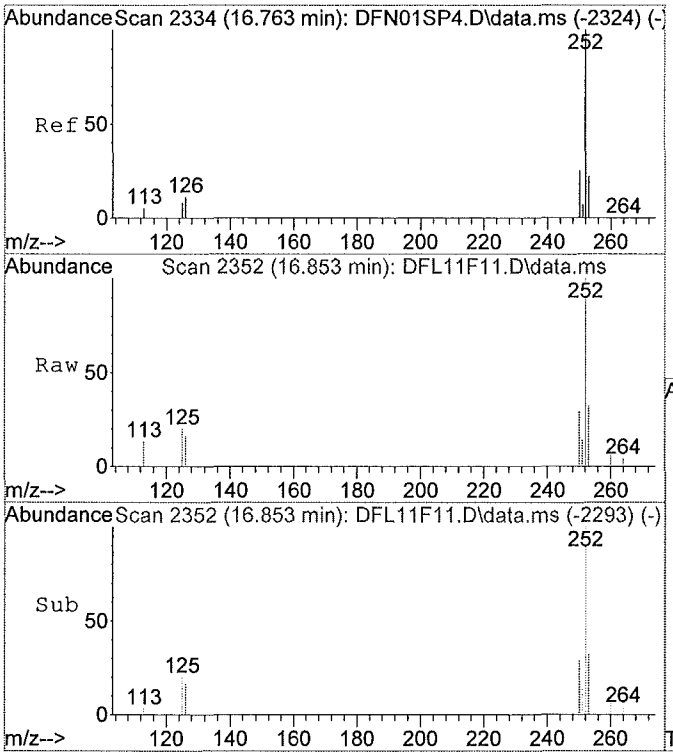


#18
Chrysene
Concen: 0.78 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFL11F11.D
Acq: 07/14/2015 19:15

Tgt Ion:228 Resp: 469337

Ion	Ratio	Lower	Upper
228	100		
226	29.5	19.7	36.7
229	29.8	14.5	26.9#
0	0.0	0.0	0.0

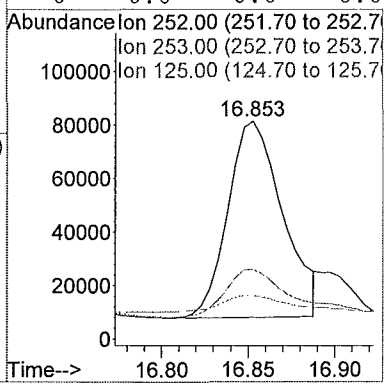


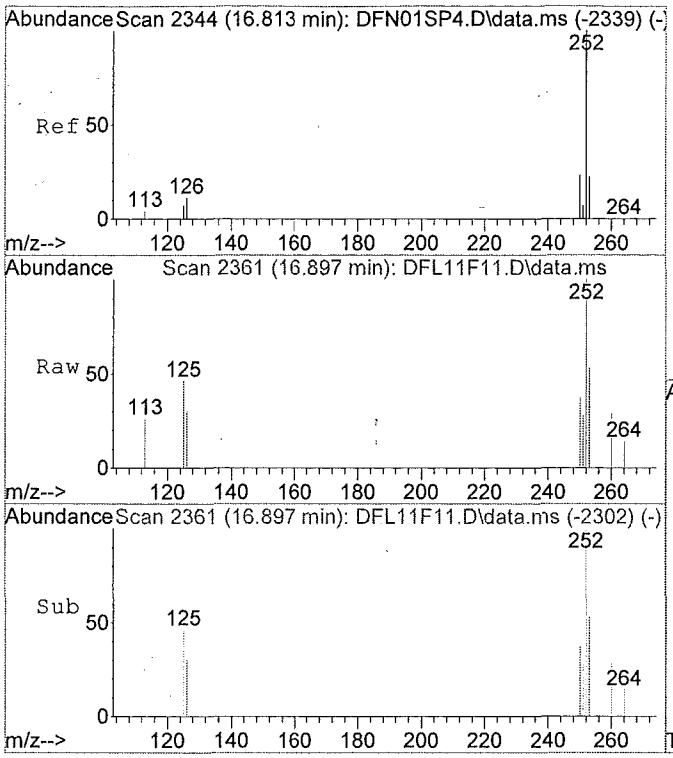


#20
Benzo(b)fluoranthene
Concen: 0.23 ug/ml m
RT: 16.85 min Scan# 2352
Delta R.T. 0.00 min
Lab File: DFL11F11.D
Acq: 07/14/2015 19:15

Tgt Ion:252 Resp: 160993

Ion	Ratio	Lower	Upper
252	100		
253	30.6	15.3	28.3#
125	9.5	0.0	0.0#
0	0.0	0.0	0.0

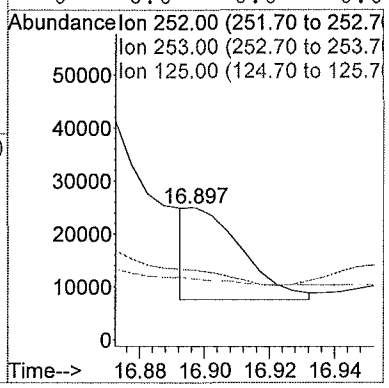


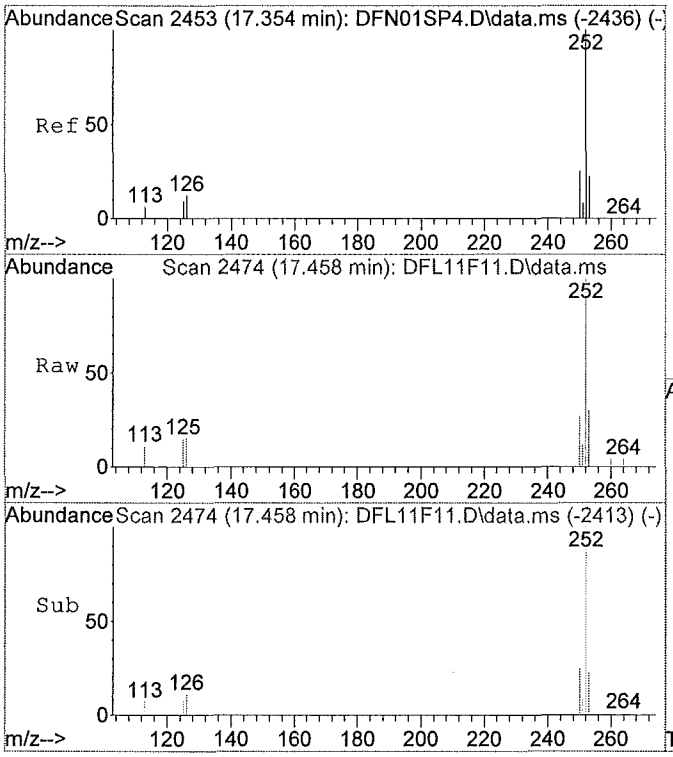


#21
Benzo(k)fluoranthene
Concen: 0.03 ug/ml m
RT: 16.90 min Scan# 2361
Delta R.T. -0.00 min
Lab File: DFL11F11.D
Acq: 07/14/2015 19:15

Tgt Ion:252 Resp: 19746

Ion	Ratio	Lower	Upper
252	100		
253	249.2	15.0	27.8#
125	77.8	0.0	0.0#
0	0.0	0.0	0.0

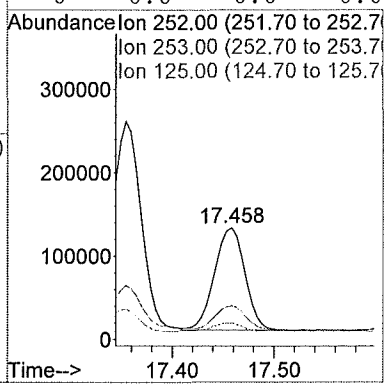


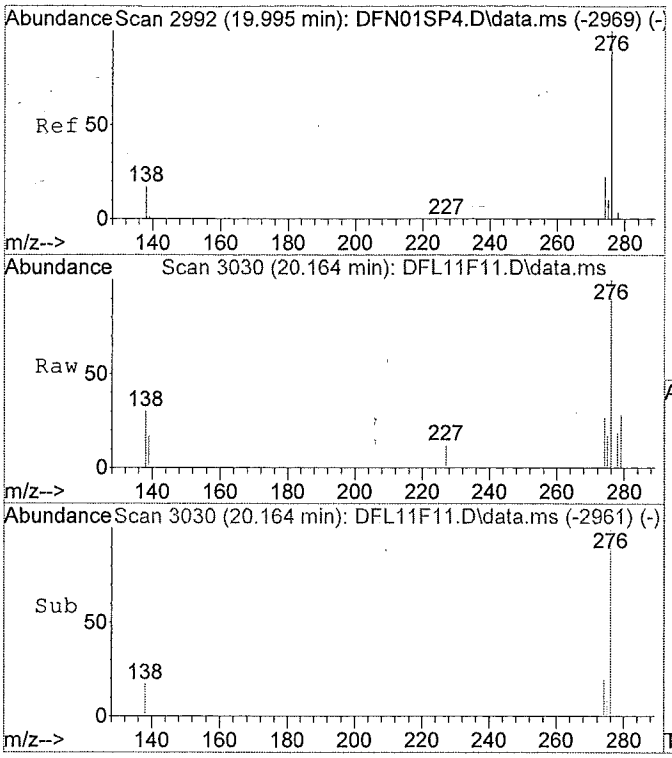


#22
Benzo(a)pyrene
Concen: 0.38 ug/ml
RT: 17.46 min Scan# 2474
Delta R.T. 0.00 min
Lab File: DFL11F11.D
Acq: 07/14/2015 19:15

Tgt Ion:252 Resp: 253556

Ion	Ratio	Lower	Upper
252	100		
253	23.7	15.0	27.8
125	7.8	0.0	0.0#
0	0.0	0.0	0.0

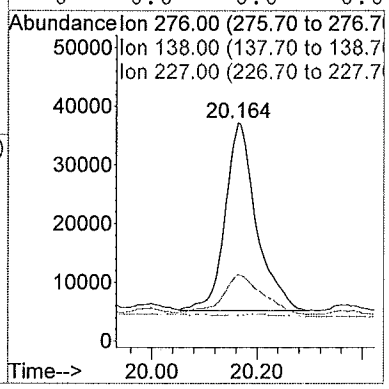


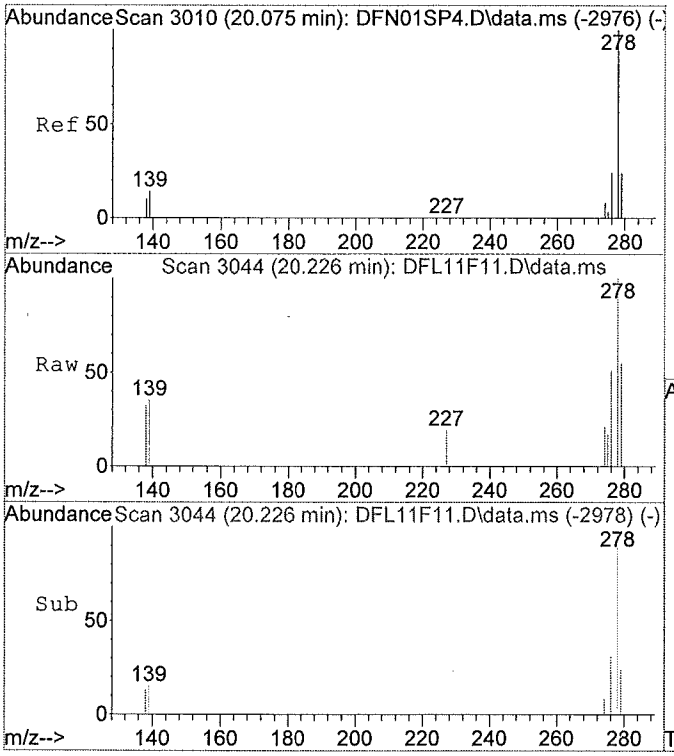


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.22 ug/ml
RT: 20.16 min Scan# 3030
Delta R.T. 0.01 min
Lab File: DFL11F11.D
Acq: 07/14/2015 19:15

Tgt Ion:276 Resp: 131108

Ion	Ratio	Lower	Upper
276	100		
138	27.9	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

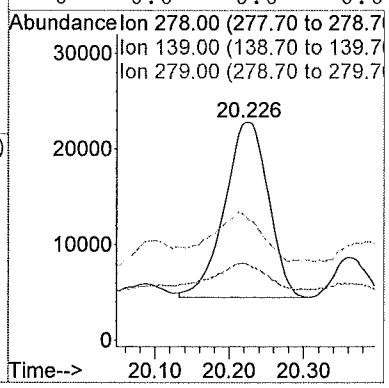


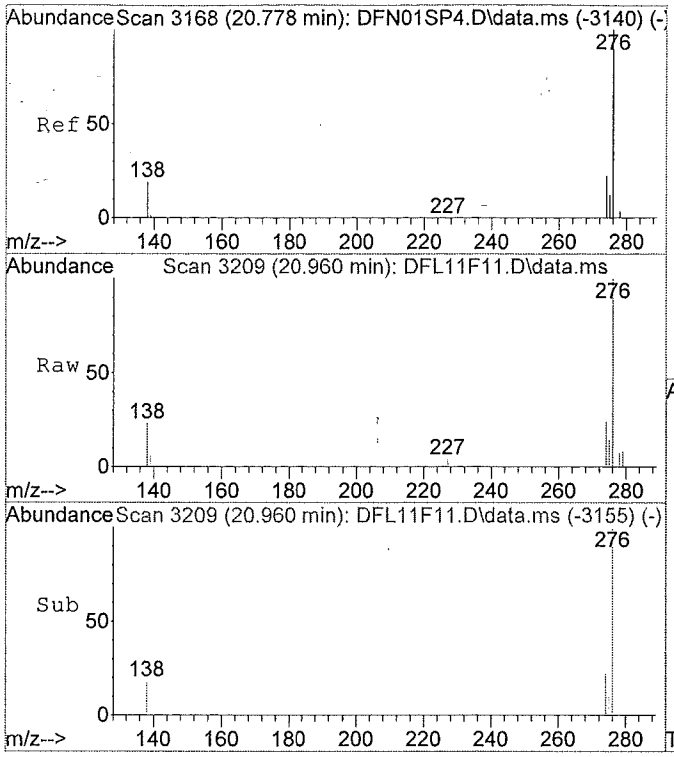


#24
Dibenzo(a,h)anthracene
Concen: 0.12 ug/ml
RT: 20.23 min Scan# 3044
Delta R.T. -0.00 min
Lab File: DFL11F11.D
Acq: 07/14/2015 19:15

Tgt Ion:278 Resp: 75275

Ion	Ratio	Lower	Upper
278	100		
139	17.9	0.0	0.0#
279	29.1	15.8	29.3
0	0.0	0.0	0.0

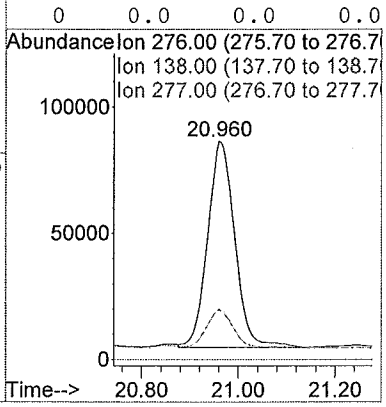




#25
Benzo(g,h,i)perylene
Concen: 0.48 ug/ml
RT: 20.96 min Scan# 3209
Delta R.T. 0.01 min
Lab File: DFL11F11.D
Acq: 07/14/2015 19:15

Tgt Ion:276 Resp: 318147

Ion	Ratio	Lower	Upper
276	100		
138	16.8	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.

F9M07

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375012

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFL12F12

Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/14/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 20.0

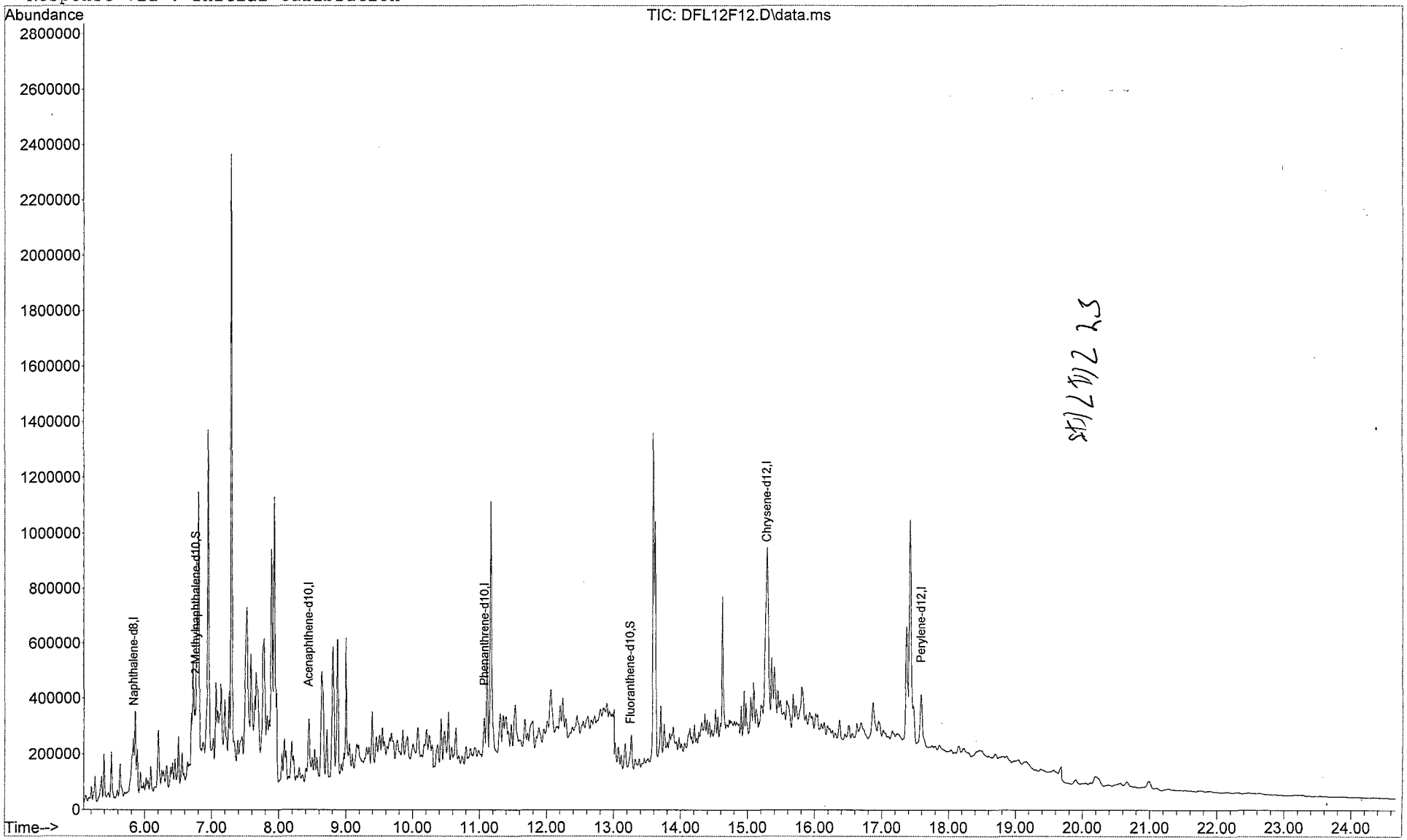
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	360	
91-57-6	2-Methylnaphthalene	1200	E
208-96-8	Acenaphthylene	72.	U
83-32-9	Acenaphthene	72.	U
86-73-7	Fluorene	130	
87-86-5	Pentachlorophenol	150	U
85-01-8	Phenanthrene	520	
120-12-7	Anthracene	97.	
206-44-0	Fluoranthene	120	
129-00-0	Pyrene	560	
56-55-3	Benzo(a)anthracene	150	
218-01-9	Chrysene	530	
205-99-2	Benzo(b)fluoranthene	110	
207-08-9	Benzo(k)fluoranthene	72.	U
50-32-8	Benzo(a)pyrene	130	
193-39-5	Indeno(1,2,3-cd)pyrene	72.	J
53-70-3	Dibenzo(a,h)anthracene	44.	J
191-24-2	Benzo(g,h,i)perylene	58.	J

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL12F12.D Vial: 12
Acq On : 07/14/2015 19:45 Operator: DJC
Sample : 1515375012 F9M07 (20) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 12:13:08 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



STD 2/14/15

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL12F12.D Vial: 12
Acq On : 07/14/2015 19:45 Operator: DJC
Sample : 1515375012 F9M07 (20) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 12:13:08 2015 Results File: DSOM_SIMJ2.RES

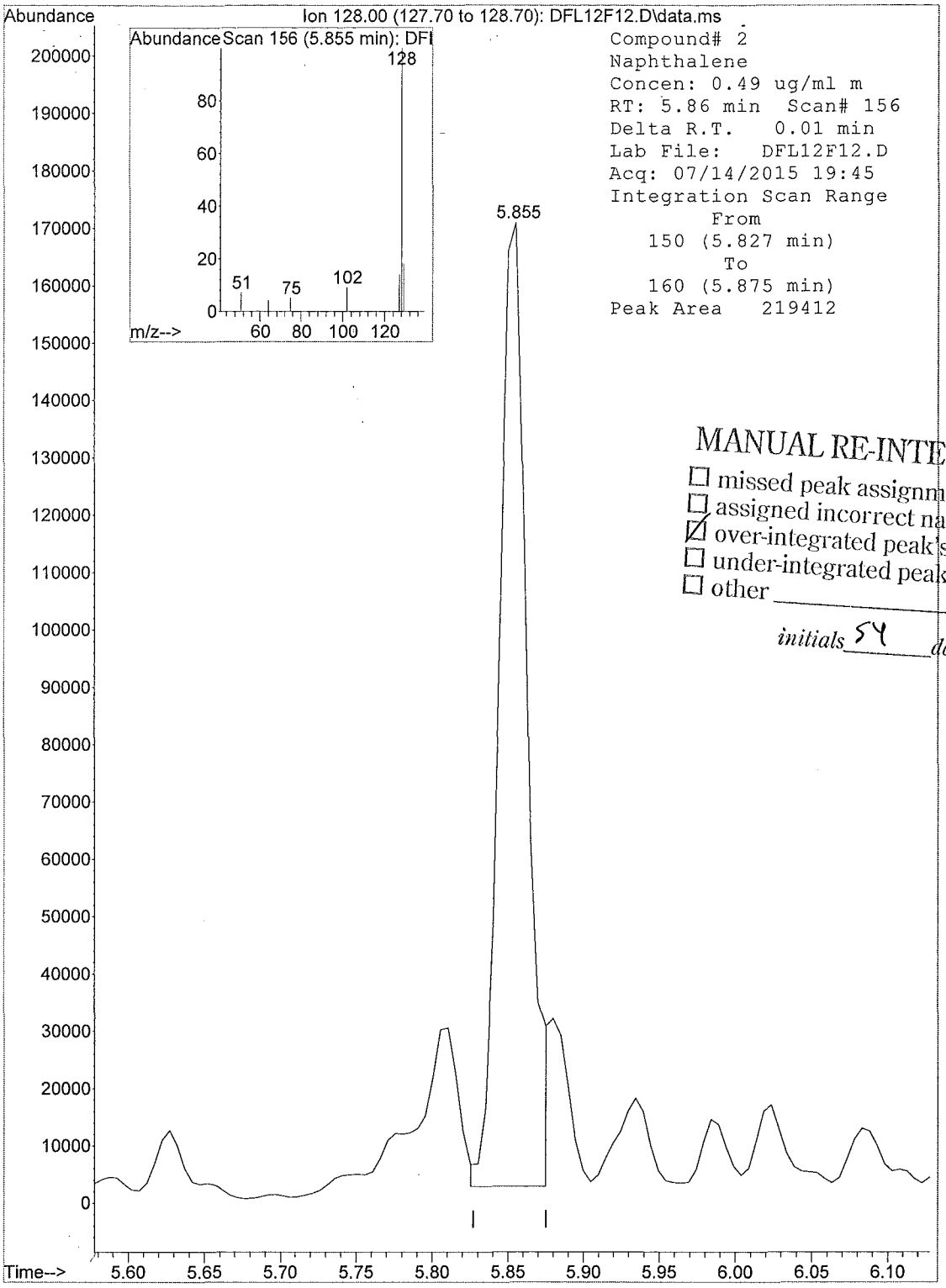
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	172068	0.40 ug/ml	
5) Acenaphthene-d10	8.45	164	123046	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	201698	0.40 ug/ml	
15) Chrysene-d12	15.27	240	264873	0.40 ug/ml	
19) Perylene-d12	17.58	264	271396	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	37155	0.134ug/mL	
13) Fluoranthene-d10	13.23	212	43859	0.080ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.86	128	219412	0.489ug/ml m 54 7/17/15	92
4) 2-Methylnaphthalene	6.80	142	478081	1.655ug/ml 7/17/15	89
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	9.39	166	71190	0.178ug/ml	91
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.11	178	413385	0.712ug/ml	96
12) Anthracene	11.20	178	75056	0.133ug/ml	30
14) Fluoranthene	13.27	202	108445	0.164ug/ml	97
16) Pyrene	13.62	202	642209	0.773ug/ml	90
17) Benzo(a)anthracene	15.26	228	144532	0.205ug/ml	19
18) Chrysene	15.29	228	542128	0.726ug/ml	75
20) Benzo(b)fluoranthene	16.86	252	126465	0.149ug/ml m 57 7/17/15	90
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.47	252	145130	0.180ug/ml	62
23) Indeno(1,2,3-c,d)pyrene	20.19	276	69666	0.098ug/ml	100
24) Dibenzo(a,h)anthracene	20.24	278	46900	0.060ug/ml	56
25) Benzo(g,h,i)perylene	20.99	276	63269	0.080ug/ml	52

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 011444

M A N U A L I N T E G R A T I O N FOR Naphthalene



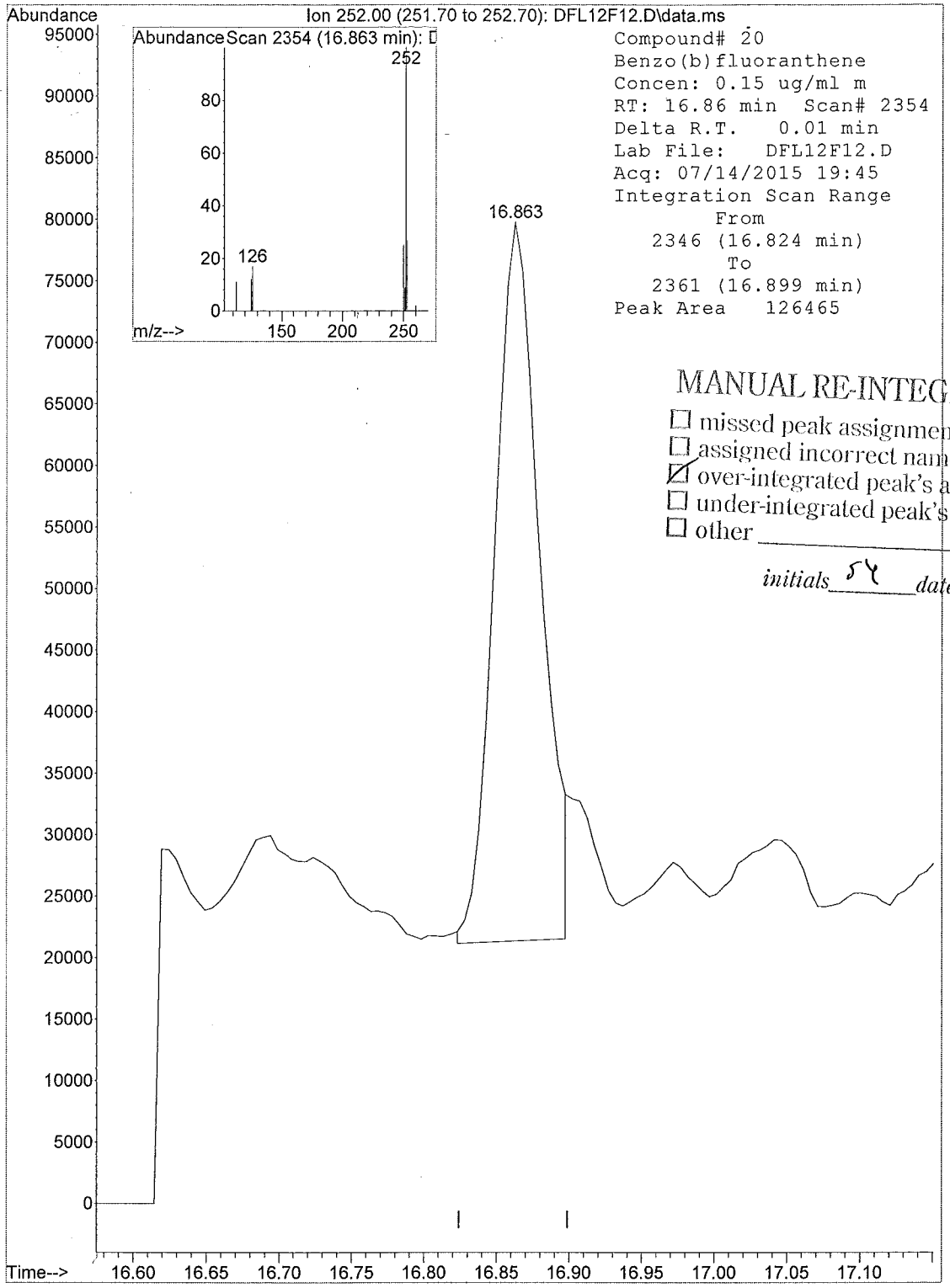
Compound# 2
Naphthalene
Concen: 0.49 ug/ml m
RT: 5.86 min Scan# 156
Delta R.T. 0.01 min
Lab File: DFL12F12.D
Acq: 07/14/2015 19:45
Integration Scan Range
From
150 (5.827 min)
To
160 (5.875 min)
Peak Area 219412

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 7/17/15

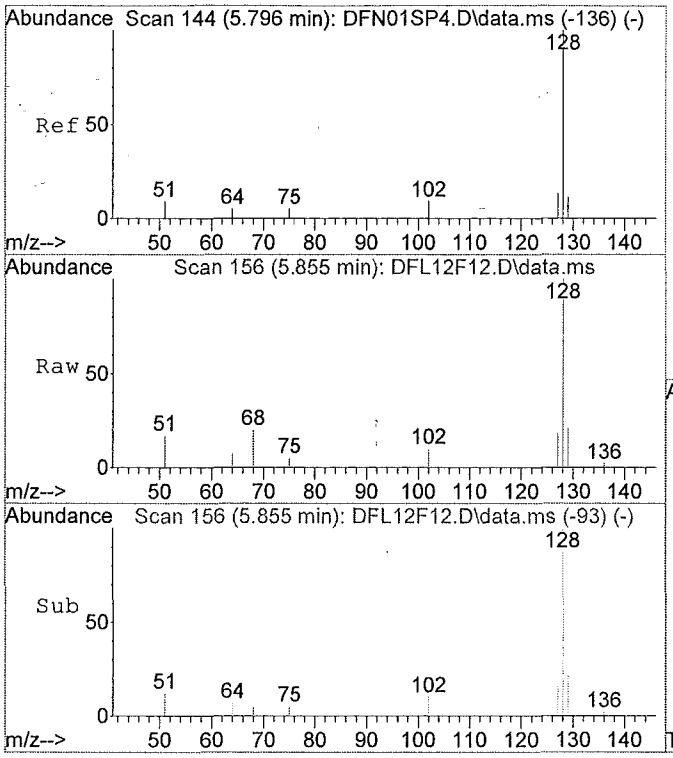
M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene



MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

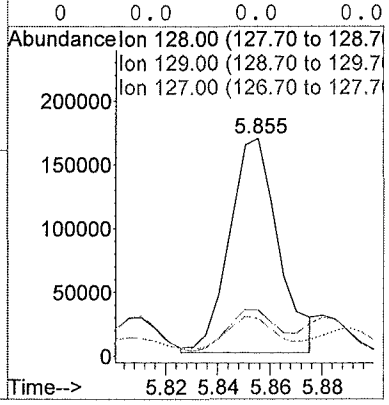
initials SY *date* 7/17/15

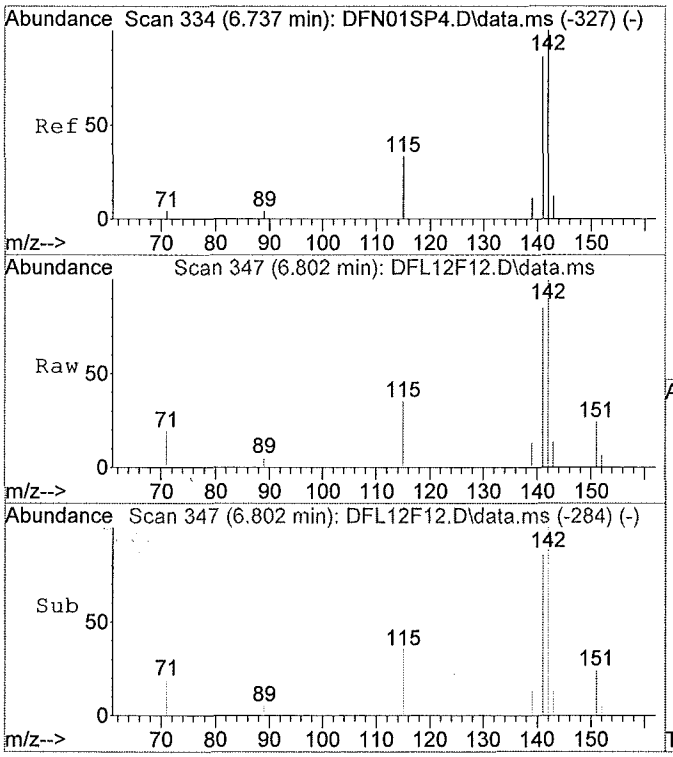


#2
Naphthalene
Concen: 0.49 ug/ml m
RT: 5.86 min Scan# 156
Delta R.T. 0.01 min
Lab File: DFL12F12.D
Acq: 07/14/2015 19:45

Tgt Ion:128 Resp: 219412

Ion	Ratio	Lower	Upper
128	100		
129	22.7	0.0	0.0#
127	14.1	11.1	20.5
0	0.0	0.0	0.0

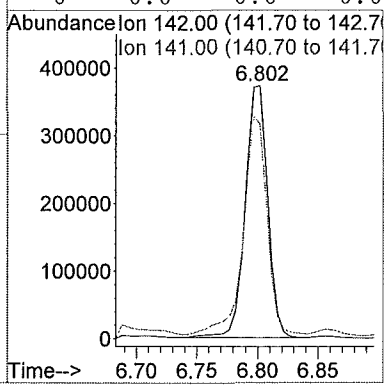


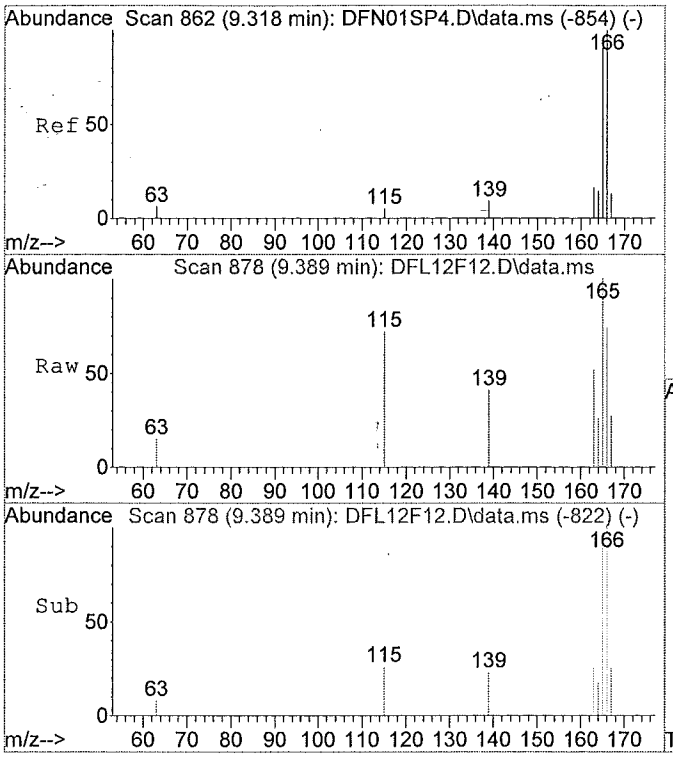


#4
2-Methylnaphthalene
Concen: 1.65 ug/ml
RT: 6.80 min Scan# 347
Delta R.T. 0.01 min
Lab File: DFL12F12.D
Acq: 07/14/2015 19:45

Tgt Ion:142 Resp: 478081

Ion	Ratio	Lower	Upper
142	100		
141	97.6	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

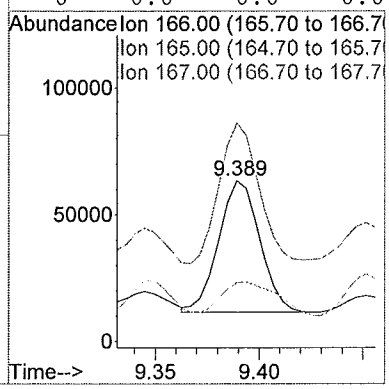


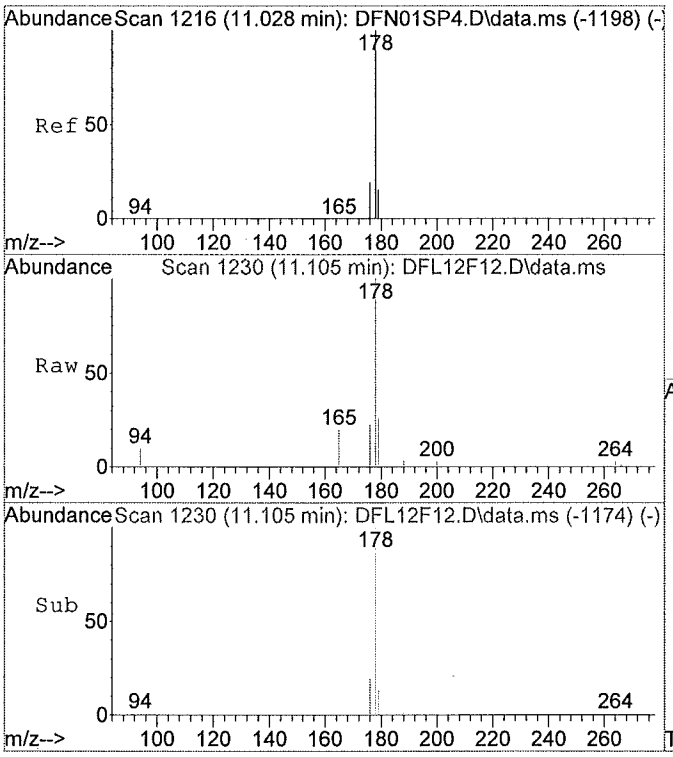


#8
Fluorene
Concen: 0.18 ug/ml
RT: 9.39 min Scan# 878
Delta R.T. 0.00 min
Lab File: DFL12F12.D
Acq: 07/14/2015 19:45

Tgt Ion:166 Resp: 71190

Ion	Ratio	Lower	Upper
166	100		
165	103.5	66.3	123.1
167	34.6	0.0	0.0#
0	0.0	0.0	0.0

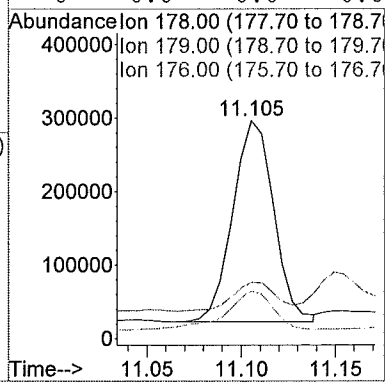


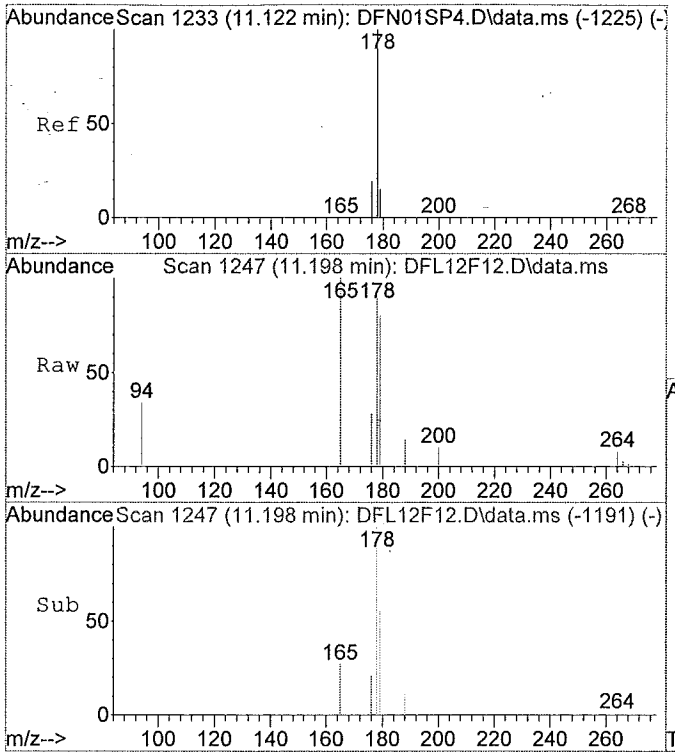


#11
Phenanthrene
Concen: 0.71 ug/ml
RT: 11.11 min Scan# 1230
Delta R.T. 0.01 min
Lab File: DFL12F12.D
Acq: 07/14/2015 19:45

Tgt Ion:178 Resp: 413385

Ion	Ratio	Lower	Upper
178	100		
179	15.0	11.1	20.5
176	22.6	14.1	26.1
0	0.0	0.0	0.0

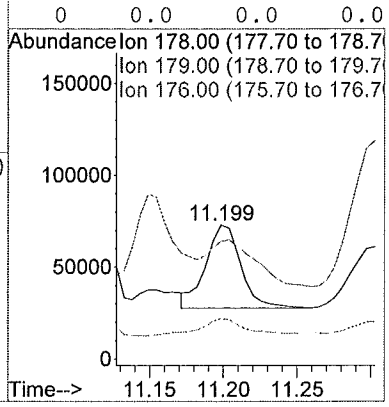


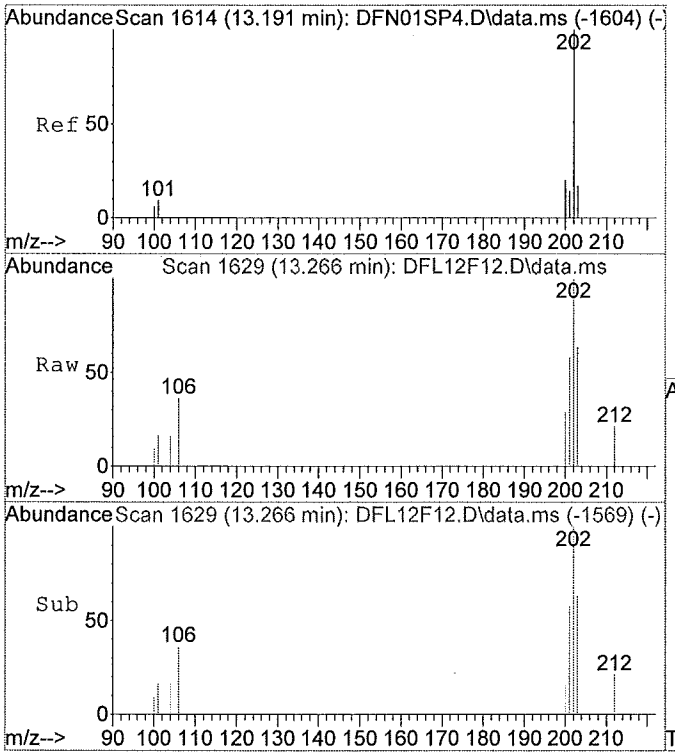


#12
Anthracene
Concen: 0.13 ug/ml
RT: 11.20 min Scan# 1247
Delta R.T. 0.01 min
Lab File: DFL12F12.D
Acq: 07/14/2015 19:45

Tgt Ion:178 Resp: 75056

Ion	Ratio	Lower	Upper
178	100		
179	75.3	11.6	21.6#
176	26.2	13.9	25.7#
0	0.0	0.0	0.0

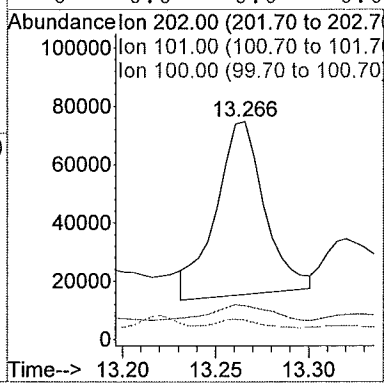


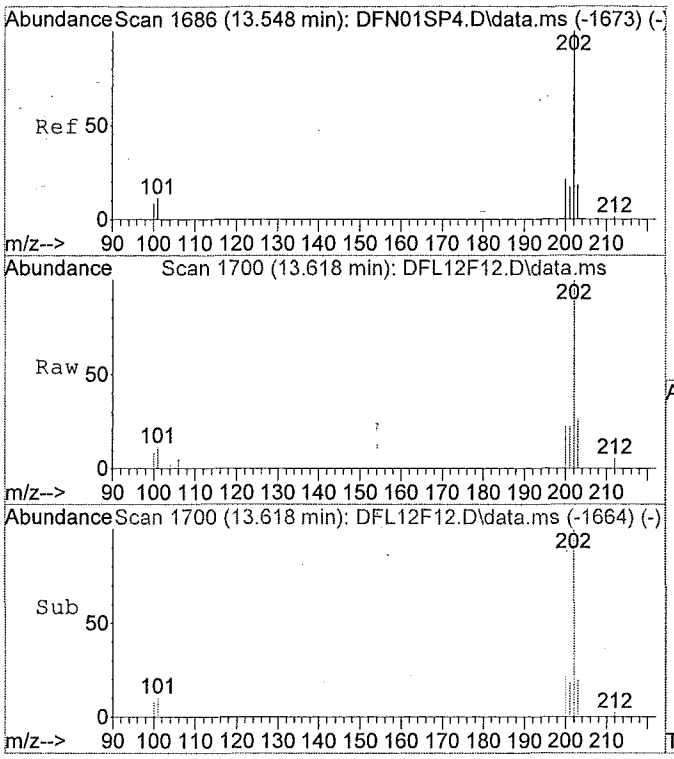


#14
Fluoranthene
Concen: 0.16 ug/ml
RT: 13.27 min Scan# 1629
Delta R.T. 0.01 min
Lab File: DFL12F12.D
Acq: 07/14/2015 19:45

Tgt Ion:202 Resp: 108445

Ion	Ratio	Lower	Upper
202	100		
101	14.7	9.4	17.6
100	5.0	0.0	0.0#
0	0.0	0.0	0.0

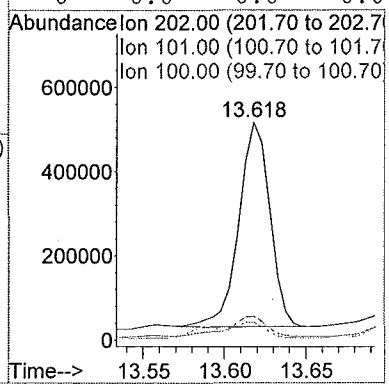


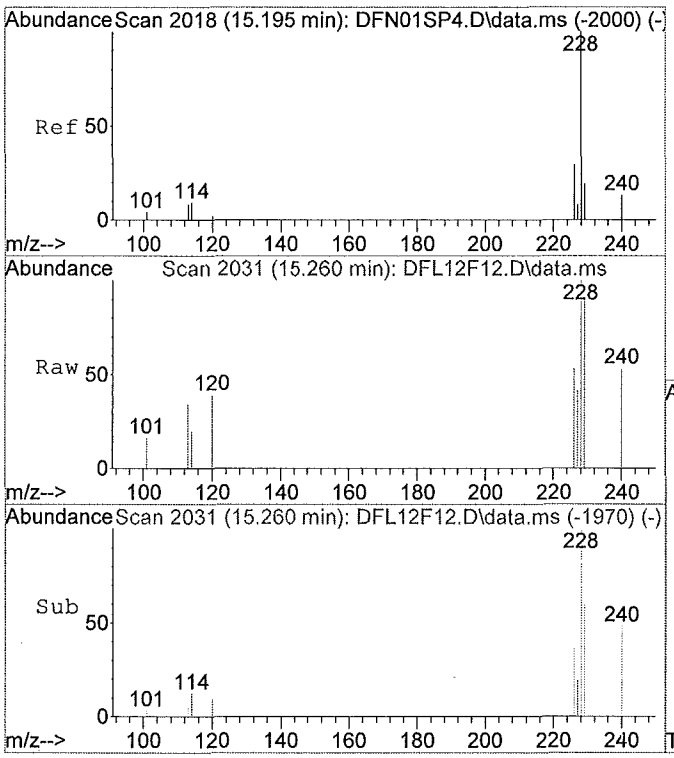


#16
Pyrene
Concen: 0.77 ug/ml
RT: 13.62 min Scan# 1700
Delta R.T. 0.01 min
Lab File: DFL12F12.D
Acq: 07/14/2015 19:45

Tgt Ion:202 Resp: 642209

Ion	Ratio	Lower	Upper
202	100		
101	12.2	10.6	19.6
100	8.0	9.4	17.4#
0	0.0	0.0	0.0

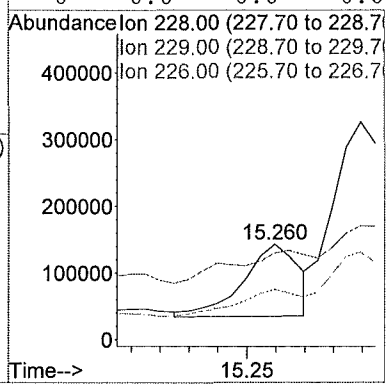


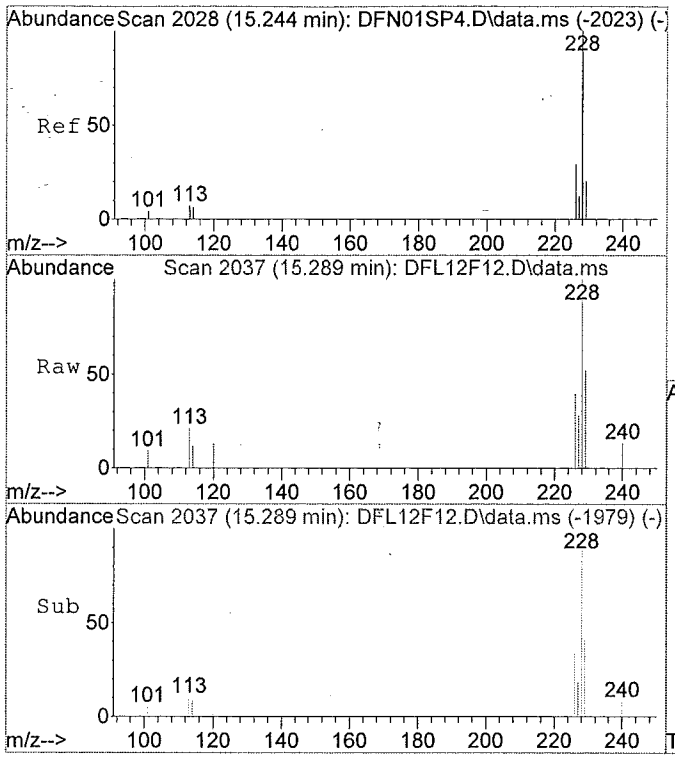


#17
Benzo(a)anthracene
Concen: 0.20 ug/ml
RT: 15.26 min Scan# 2031
Delta R.T. 0.01 min
Lab File: DFL12F12.D
Acq: 07/14/2015 19:45

Tgt Ion:228 Resp: 144532

Ion	Ratio	Lower	Upper
228	100		
229	90.3	14.5	26.9#
226	40.4	18.5	34.3#
0	0.0	0.0	0.0

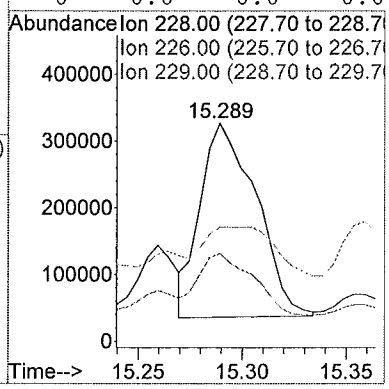


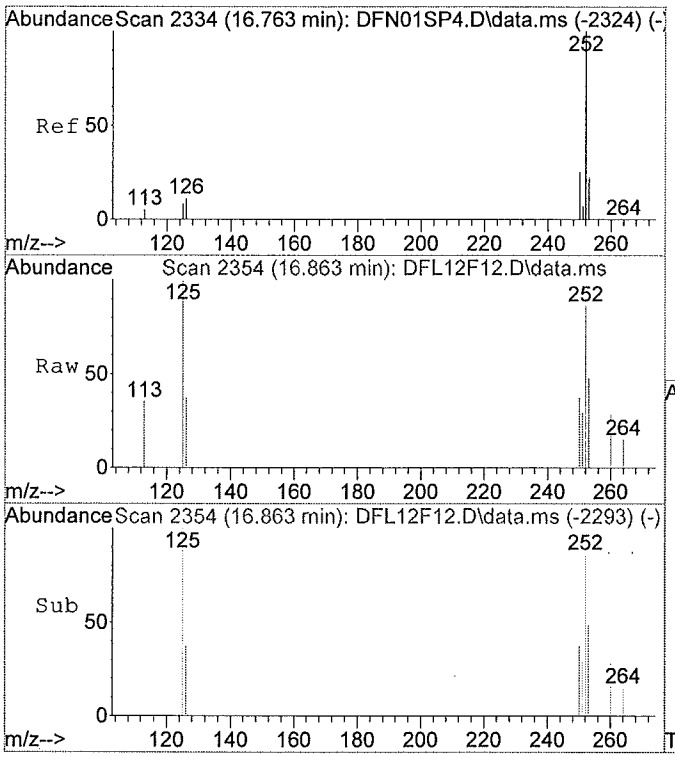


#18
Chrysene
Concen: 0.73 ug/ml
RT: 15.29 min Scan# 2037
Delta R.T. -0.01 min
Lab File: DFL12F12.D
Acq: 07/14/2015 19:45

Tgt Ion:228 Resp: 542128

Ion	Ratio	Lower	Upper
228	100		
226	31.1	19.7	36.7
229	44.5	14.5	26.9#
0	0.0	0.0	0.0

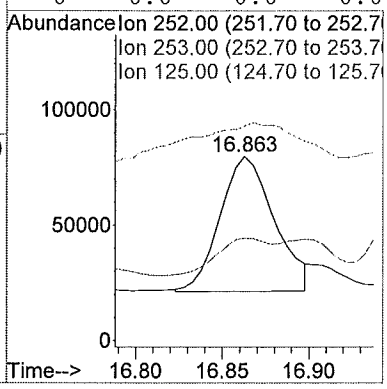


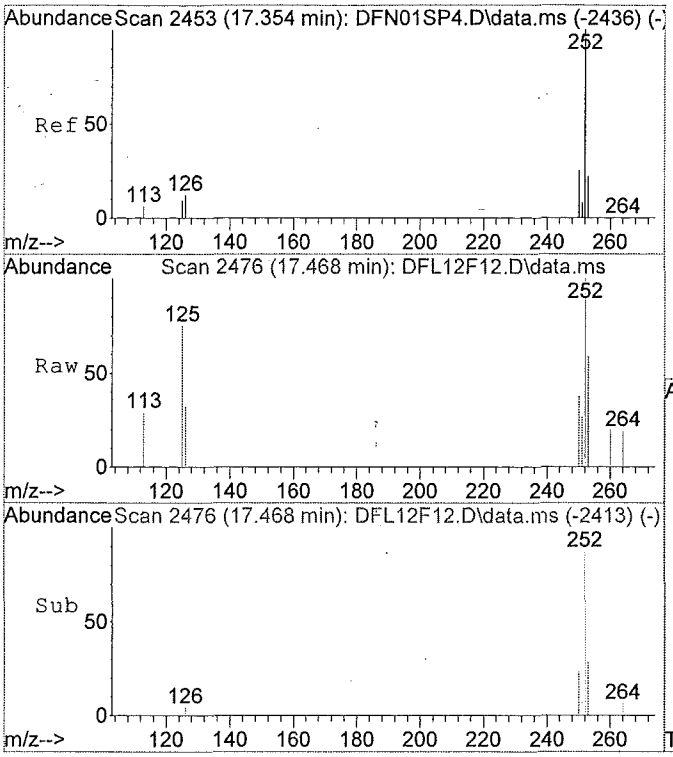


#20
Benzo(b)fluoranthene
Concen: 0.15 ug/ml m
RT: 16.86 min Scan# 2354
Delta R.T. 0.01 min
Lab File: DFL12F12.D
Acq: 07/14/2015 19:45

Tgt Ion:252 Resp: 126465

Ion	Ratio	Lower	Upper
252	100		
253	17.7	15.3	28.3
125	0.0	0.0	0.0
0	0.0	0.0	0.0

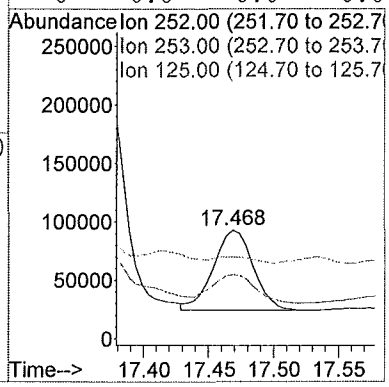


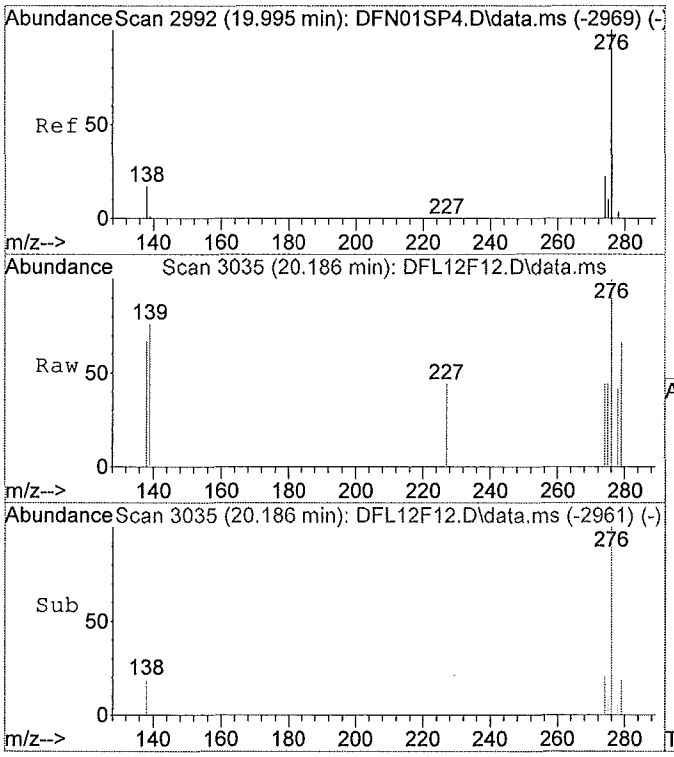


#22
Benzo(a)pyrene
Concen: 0.18 ug/ml
RT: 17.47 min Scan# 2476
Delta R.T. 0.02 min
Lab File: DFL12F12.D
Acq: 07/14/2015 19:45

Tgt Ion:252 Resp: 145130

Ion	Ratio	Lower	Upper
252	100		
253	39.1	15.0	27.8#
125	7.3	0.0	0.0#
0	0.0	0.0	0.0

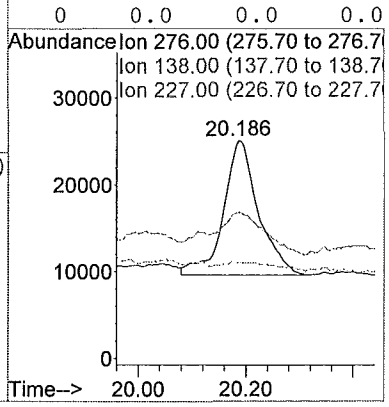


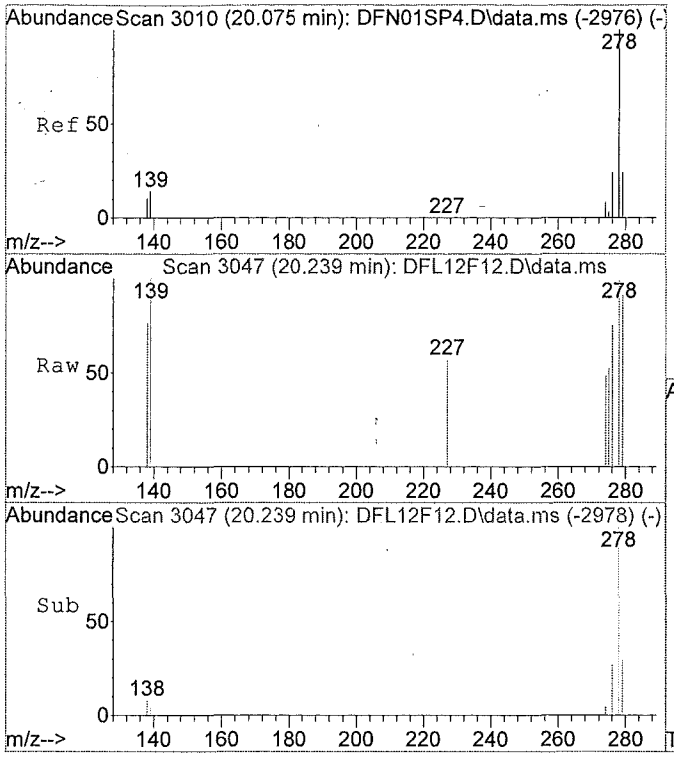


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.10 ug/ml
RT: 20.19 min Scan# 3035
Delta R.T. 0.03 min
Lab File: DFL12F12.D
Acq: 07/14/2015 19:45

Tgt Ion:276 Resp: 69666

Ion	Ratio	Lower	Upper
276	100		
138	37.2	0.0	0.0#
227	0.5	0.0	0.0#
0	0.0	0.0	0.0

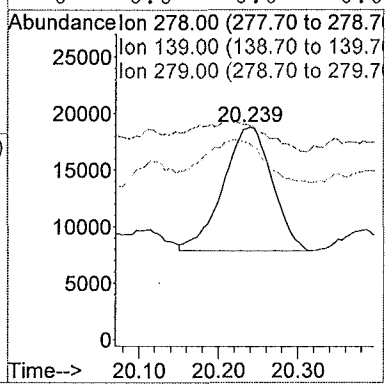


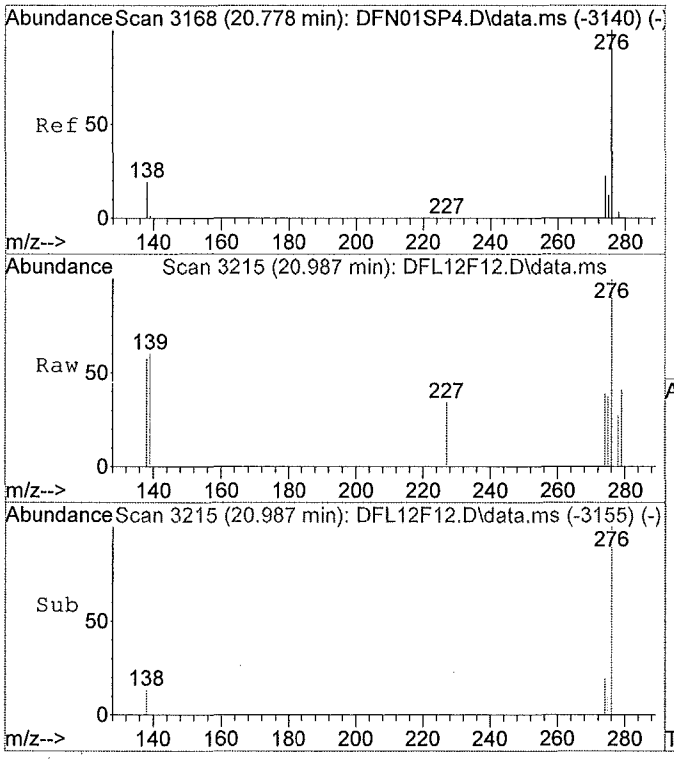


#24
Dibenzo(a,h)anthracene
Concen: 0.06 ug/ml
RT: 20.24 min Scan# 3047
Delta R.T. 0.01 min
Lab File: DFL12F12.D
Acq: 07/14/2015 19:45

Tgt Ion:278 Resp: 46900

Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	0.0
279	43.5	15.8	29.3#
0	0.0	0.0	0.0

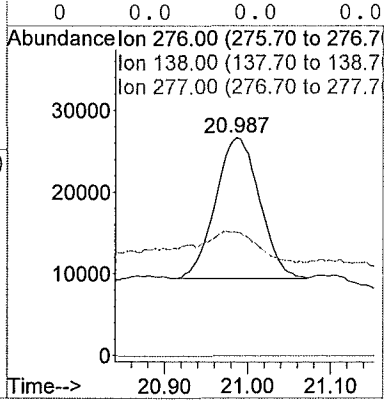




#25
Benzo(g,h,i)perylene
Concen: 0.08 ug/ml
RT: 20.99 min Scan# 3215
Delta R.T. 0.04 min
Lab File: DFL12F12.D
Acq: 07/14/2015 19:45

Tgt Ion:276 Resp: 63269

Ion	Ratio	Lower	Upper
276	100		
138	0.0	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.

F9M07DL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375012DL

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFM03F12

Extraction: (Type) SONC

% Moisture: 10. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/15/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 40.0

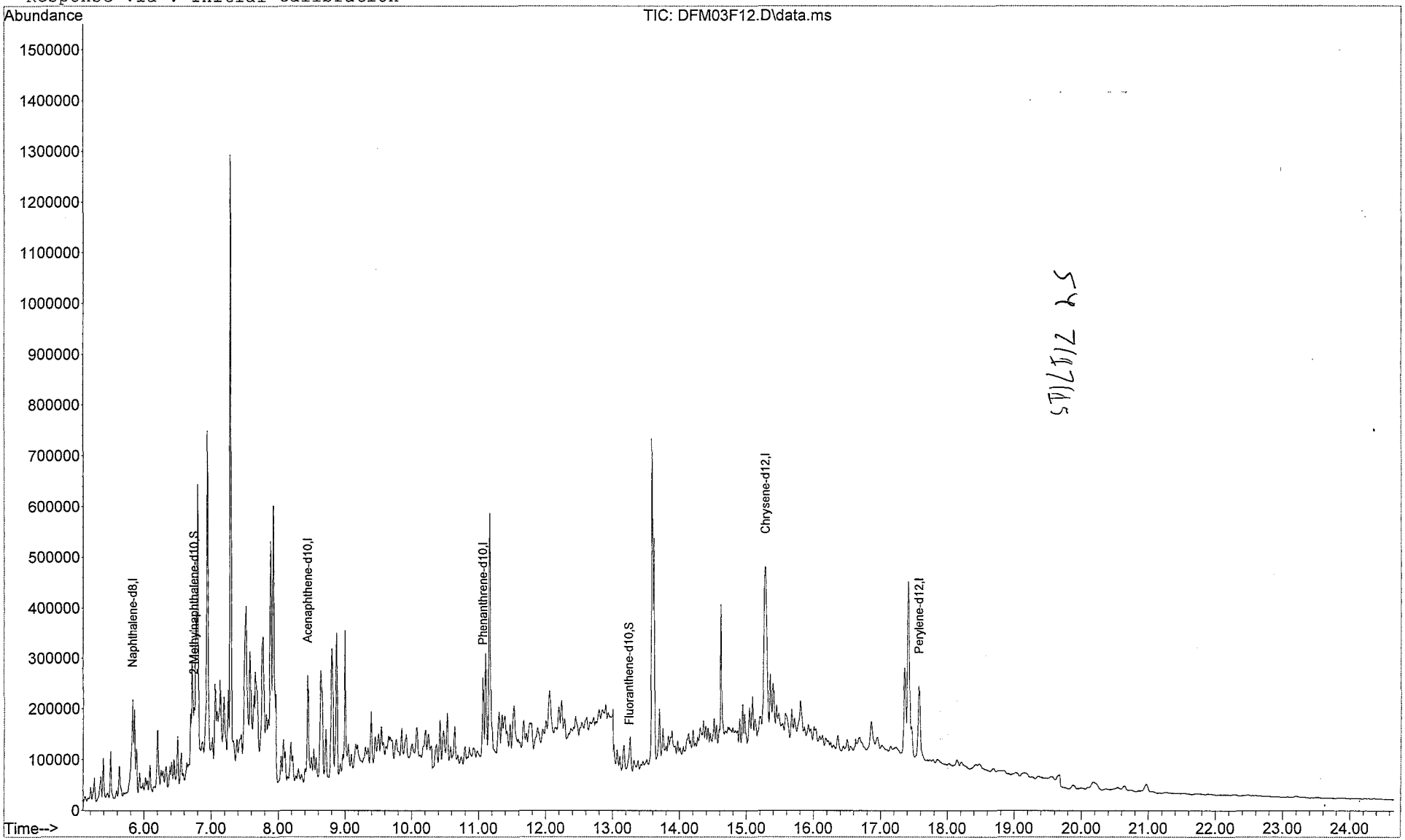
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	380	D
91-57-6	2-Methylnaphthalene	1300	D
208-96-8	Acenaphthylene	140	U
83-32-9	Acenaphthene	140	U
86-73-7	Fluorene	140	JD
87-86-5	Pentachlorophenol	290	U
85-01-8	Phenanthrene	550	D
120-12-7	Anthracene	140	U
206-44-0	Fluoranthene	120	JD
129-00-0	Pyrene	670	D
56-55-3	Benzo(a)anthracene	170	D
218-01-9	Chrysene	560	D
205-99-2	Benzo(b)fluoranthene	110	JD
207-08-9	Benzo(k)fluoranthene	140	U
50-32-8	Benzo(a)pyrene	140	JD
193-39-5	Indeno(1,2,3-cd)pyrene	84.	JD
53-70-3	Dibenzo(a,h)anthracene	52.	JD
191-24-2	Benzo(g,h,i)perylene	79.	JD

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\15JUL15D\DFM03F12.D Vial: 3
Acq On : 07/15/2015 12:06 Operator: DJC
Sample : 1515375012DL F9M07DL (40) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 12:23:58 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



SY 7/17/15

Quantitation Report

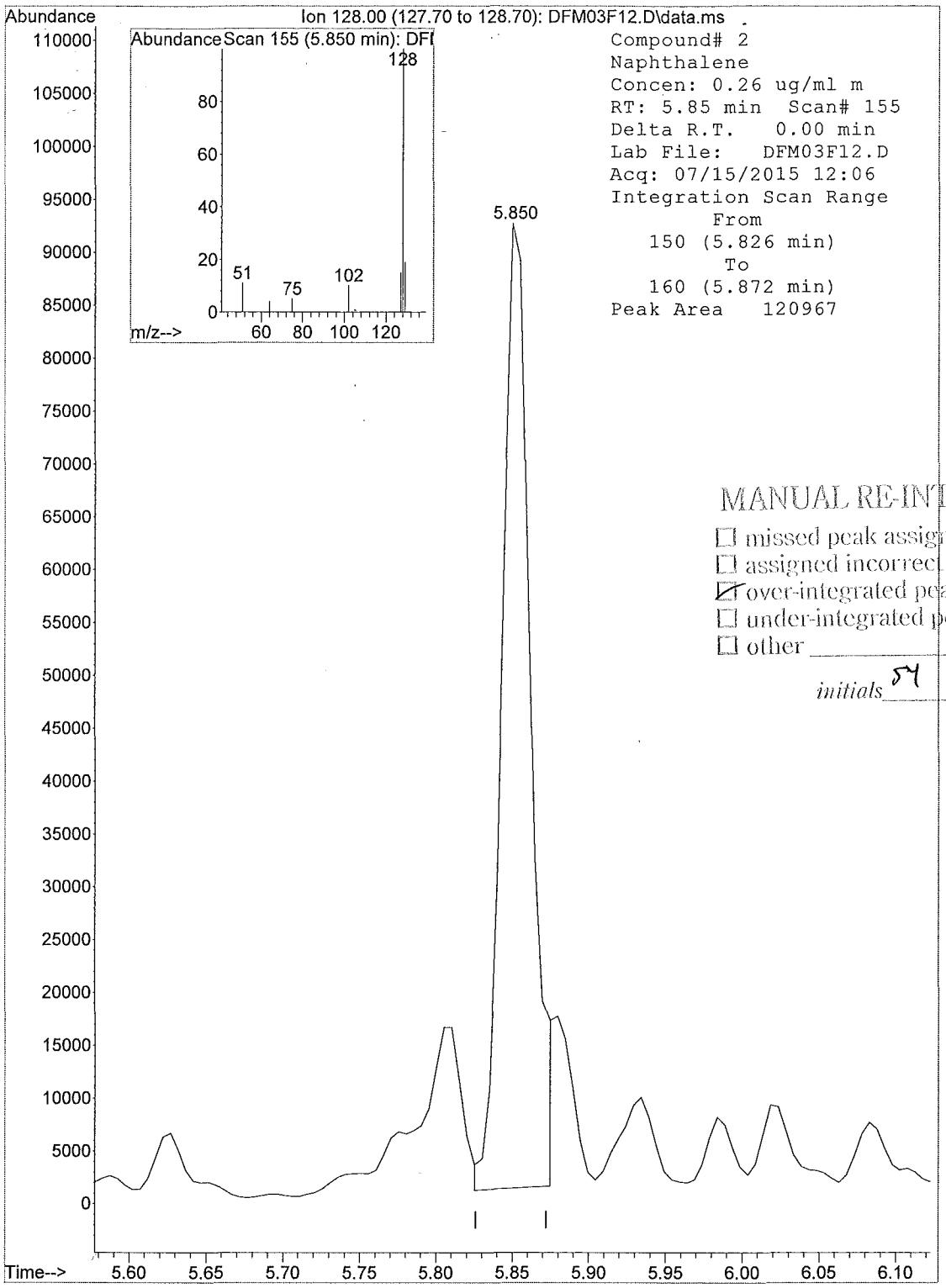
Data File : R:\DJC\Data\2015\F9L...M\15JUL15D\DFM03F12.D Vial: 3
Acq On : 07/15/2015 12:06 Operator: DJC
Sample : 1515375012DL F9M07DL (40) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 12:23:58 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	178903	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	128407	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	212239	0.40 ug/ml	
15) Chrysene-d12	15.27	240	235837	0.40 ug/ml	
19) Perylene-d12	17.57	264	217415	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.74	152	20907	0.072ug/mL	
13) Fluoranthene-d10	13.23	212	22655	0.039ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.85	128	120967	0.259ug/ml m	92
4) 2-Methylnaphthalene	6.80	142	268811	0.895ug/ml	94
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	9.39	166	39301	0.094ug/ml	93
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.11	178	228397	0.374ug/ml	94
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.26	202	58170	0.084ug/ml	96
16) Pyrene	13.62	202	337810	0.457ug/ml	89
17) Benzo(a)anthracene	15.26	228	73166	0.116ug/ml	26
18) Chrysene	15.28	228	253024	0.381ug/ml	70
20) Benzo(b)fluoranthene	16.86	252	51404	0.076ug/ml m	54
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.46	252	61851	0.096ug/ml	59
23) Indeno(1,2,3-c,d)pyrene	20.17	276	32790	0.058ug/ml	100
24) Dibenzo(a,h)anthracene	20.23	278	22196	0.035ug/ml	53
25) Benzo(g,h,i)perylene	20.97	276	34611	0.054ug/ml	72

(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 Naphthalene

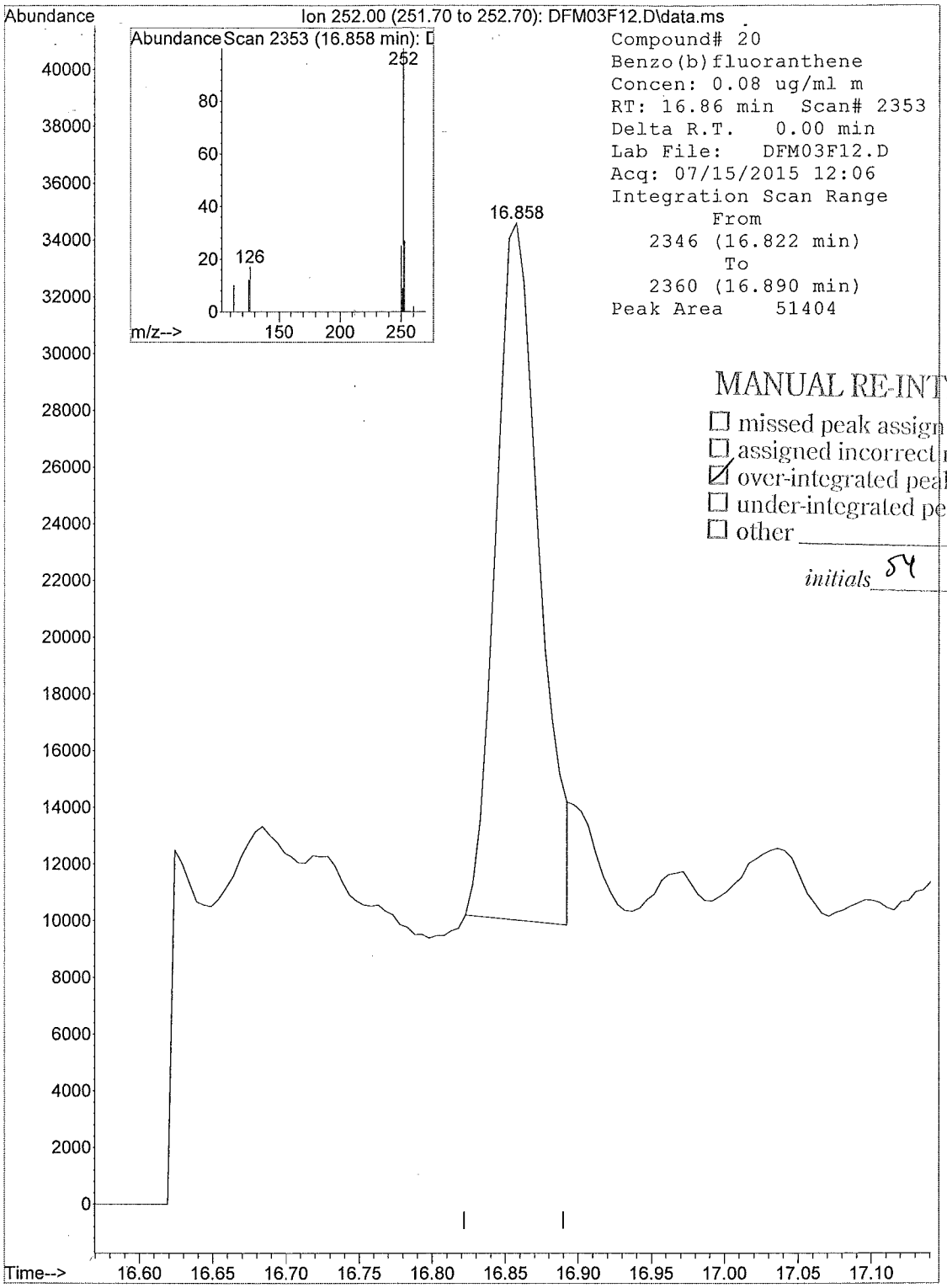


MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/17/15

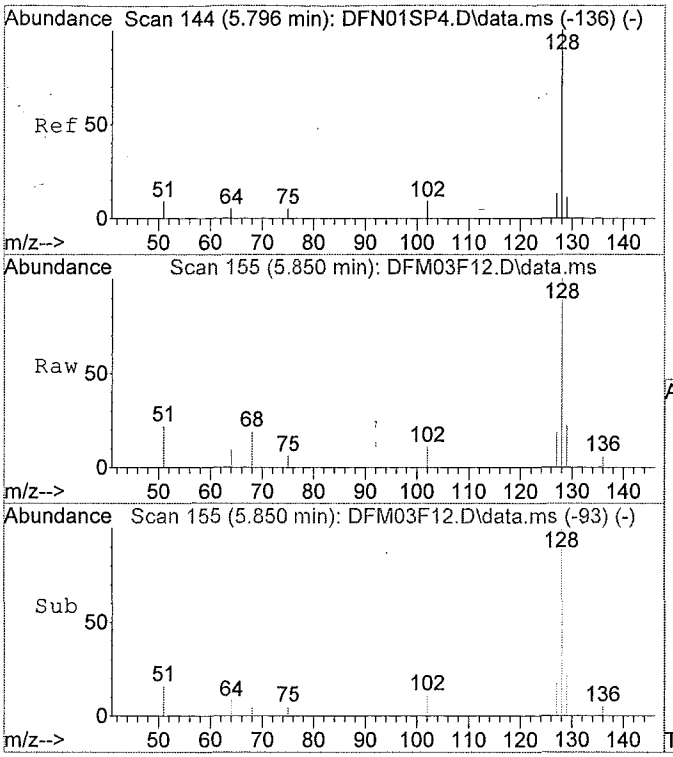
M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene



MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

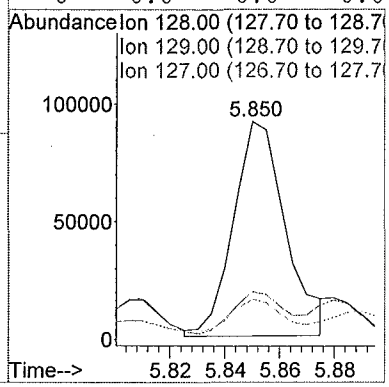
initials SY *date* 7/17/15

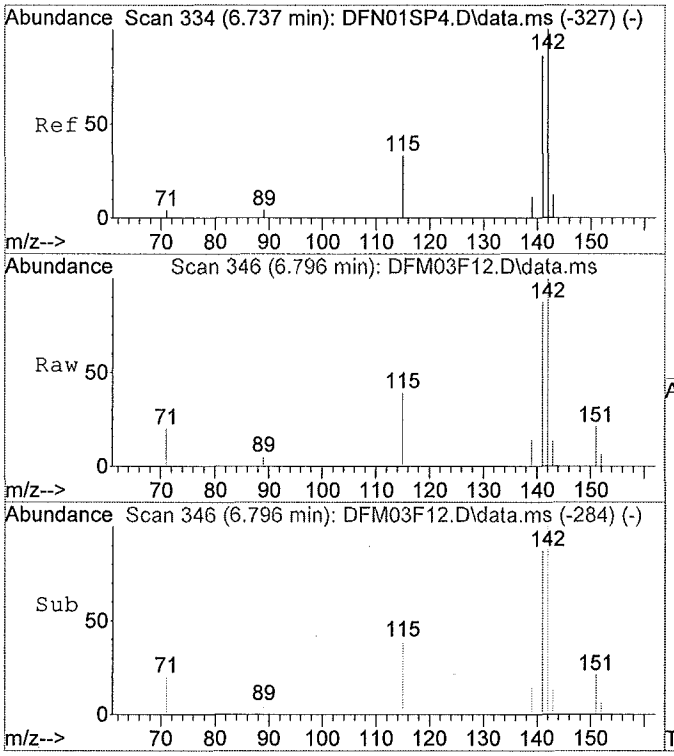


#2
Naphthalene
Concen: 0.26 ug/ml m
RT: 5.85 min Scan# 155
Delta R.T. 0.00 min
Lab File: DFM03F12.D
Acq: 07/15/2015 12:06

Tgt Ion:128 Resp: 120967

Ion	Ratio	Lower	Upper
128	100		
129	20.5	0.0	0.0#
127	13.9	11.1	20.5
0	0.0	0.0	0.0

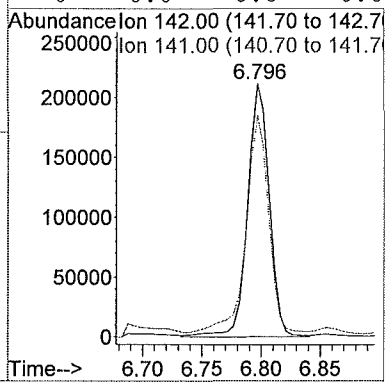


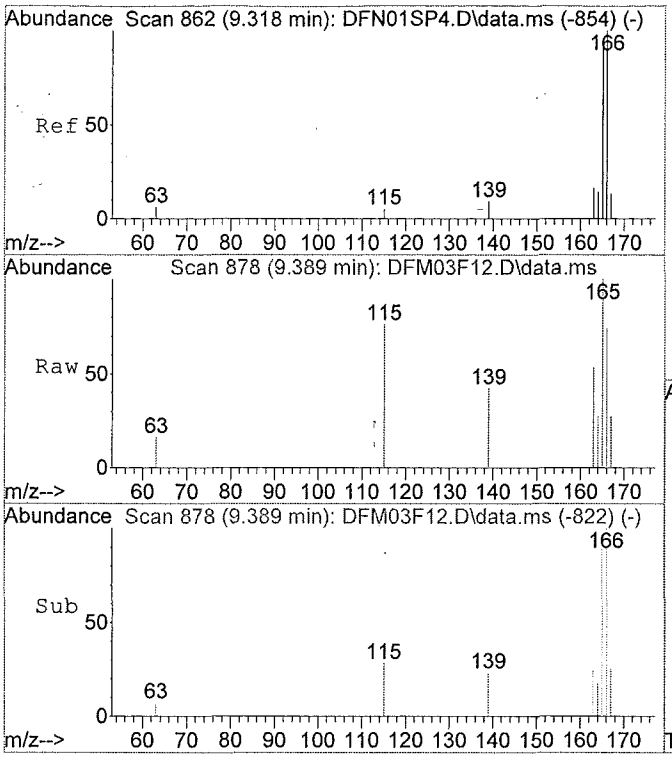


#4
2-Methylnaphthalene
Concen: 0.89 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.00 min
Lab File: DFM03F12.D
Acq: 07/15/2015 12:06

Tgt Ion:142 Resp: 268811

Ion	Ratio	Lower	Upper
142	100		
141	93.3	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

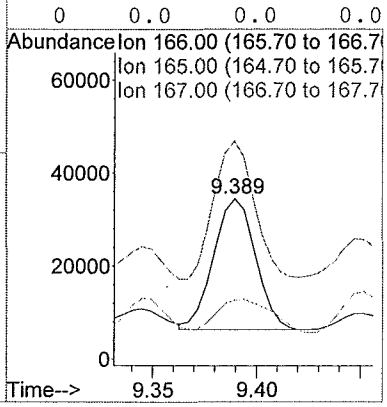


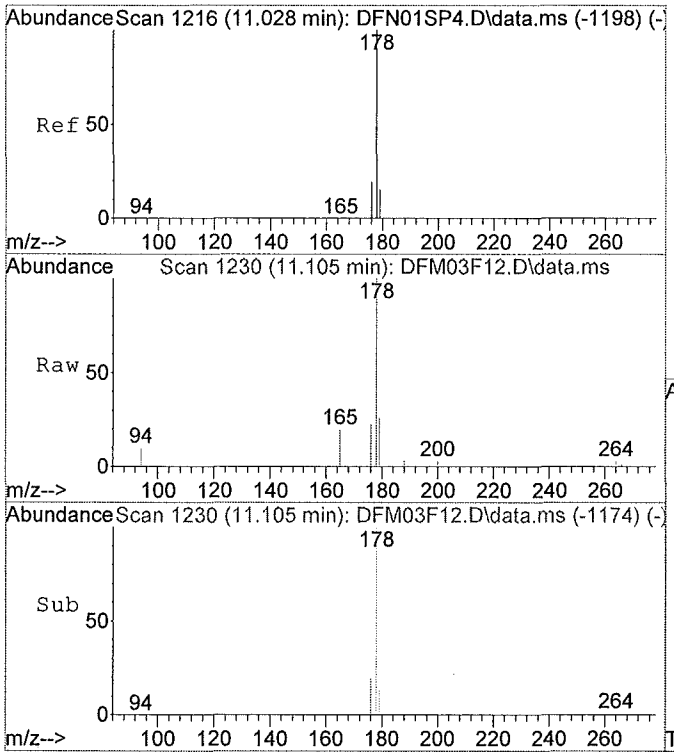


#8
Fluorene
Concen: 0.09 ug/ml
RT: 9.39 min Scan# 878
Delta R.T. 0.00 min
Lab File: DFM03F12.D
Acq: 07/15/2015 12:06

Tgt Ion:166 Resp: 39301

Ion	Ratio	Lower	Upper
166	100		
165	101.0	66.3	123.1
167	34.5	0.0	0.0#
0	0.0	0.0	0.0

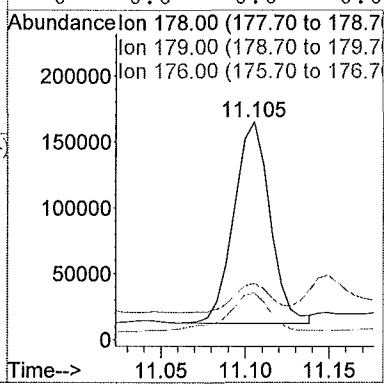


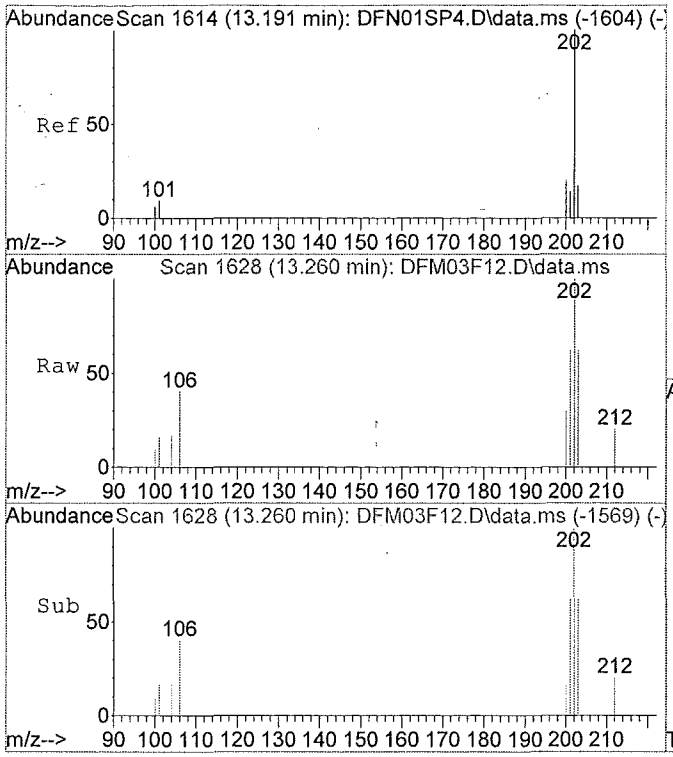


#11
Phenanthrene
Concen: 0.37 ug/ml
RT: 11.11 min Scan# 1230
Delta R.T. 0.01 min
Lab File: DFM03F12.D
Acq: 07/15/2015 12:06

Tgt Ion:178 Resp: 228397

Ion	Ratio	Lower	Upper
178	100		
179	13.9	11.1	20.5
176	23.0	14.1	26.1
0	0.0	0.0	0.0

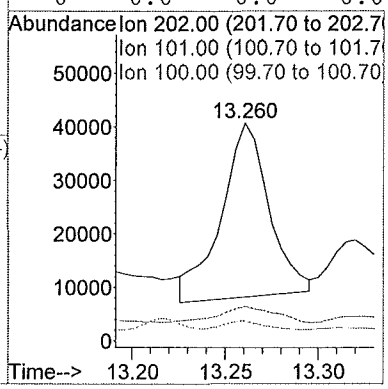


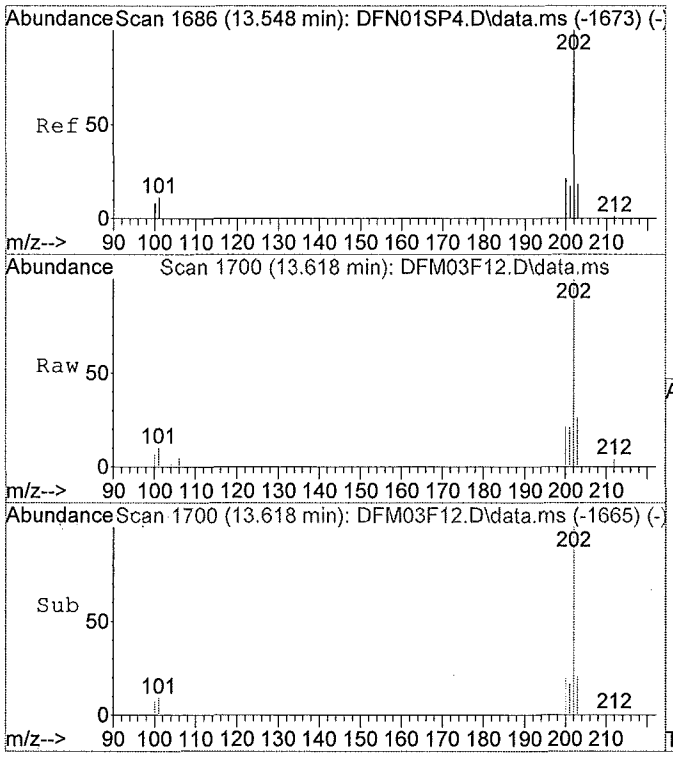


#14
Fluoranthene
Concen: 0.08 ug/ml
RT: 13.26 min Scan# 1628
Delta R.T. 0.00 min
Lab File: DFM03F12.D
Acq: 07/15/2015 12:06

Tgt Ion:202 Resp: 58170

Ion	Ratio	Lower	Upper
202	100		
101	15.1	9.4	17.6
100	4.9	0.0	0.0#
0	0.0	0.0	0.0

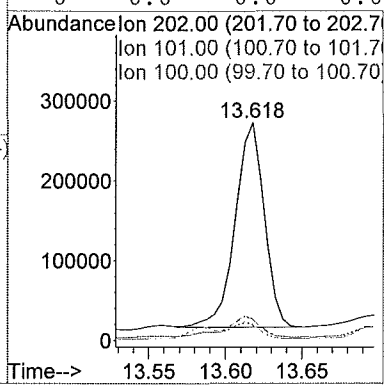


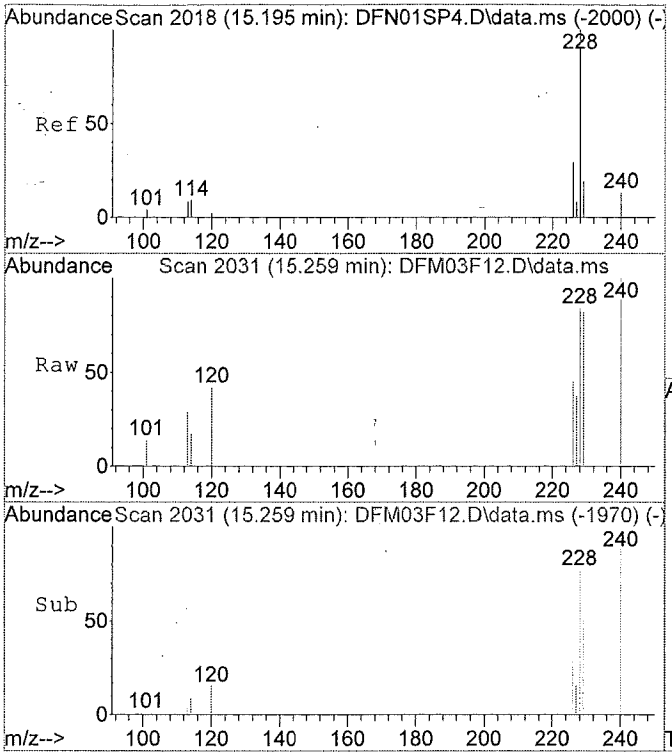


#16
Pyrene
Concen: 0.46 ug/ml
RT: 13.62 min Scan# 1700
Delta R.T. 0.00 min
Lab File: DFM03F12.D
Acq: 07/15/2015 12:06

Tgt Ion:202 Resp: 337810

Ion	Ratio	Lower	Upper
202	100		
101	12.1	10.6	19.6
100	7.5	9.4	17.4#
0	0.0	0.0	0.0

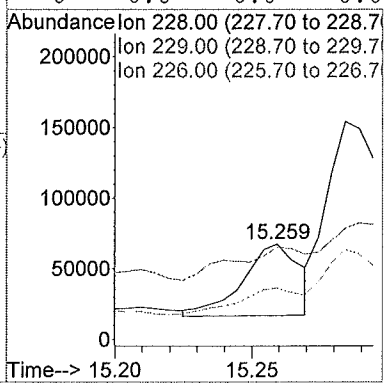


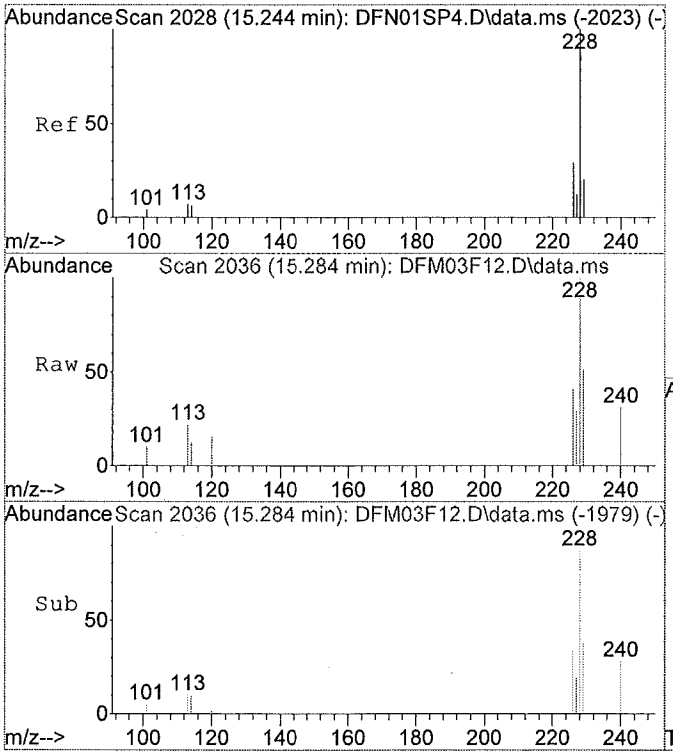


#17
Benzo(a)anthracene
Concen: 0.12 ug/ml
RT: 15.26 min Scan# 2031
Delta R.T. 0.00 min
Lab File: DFM03F12.D
Acq: 07/15/2015 12:06

Tgt Ion:228 Resp: 73166

Ion	Ratio	Lower	Upper
228	100		
229	82.4	14.5	26.9#
226	40.8	18.5	34.3#
0	0.0	0.0	0.0

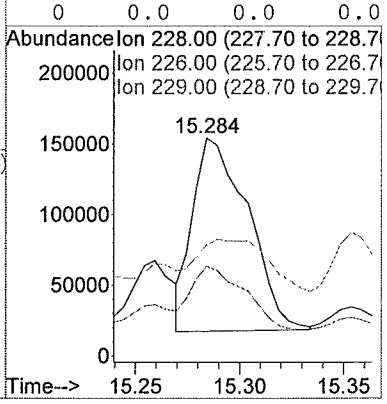


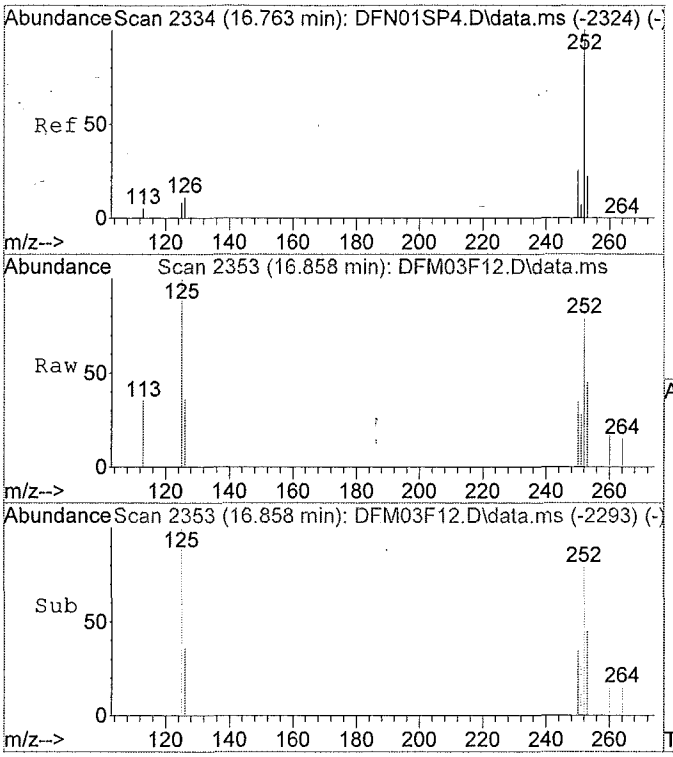


#18
Chrysene
Concen: 0.38 ug/ml
RT: 15.28 min Scan# 2036
Delta R.T. -0.01 min
Lab File: DFM03F12.D
Acq: 07/15/2015 12:06

Tgt Ion:228 Resp: 253024

Ion	Ratio	Lower	Upper
228	100		
226	33.7	19.7	36.7
229	46.6	14.5	26.9#
0	0.0	0.0	0.0

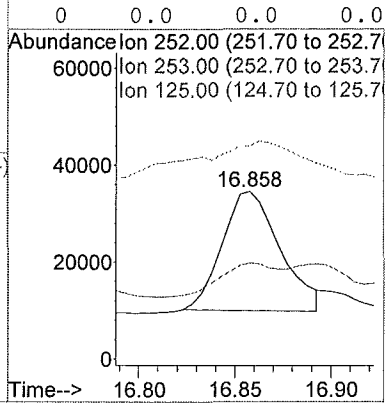


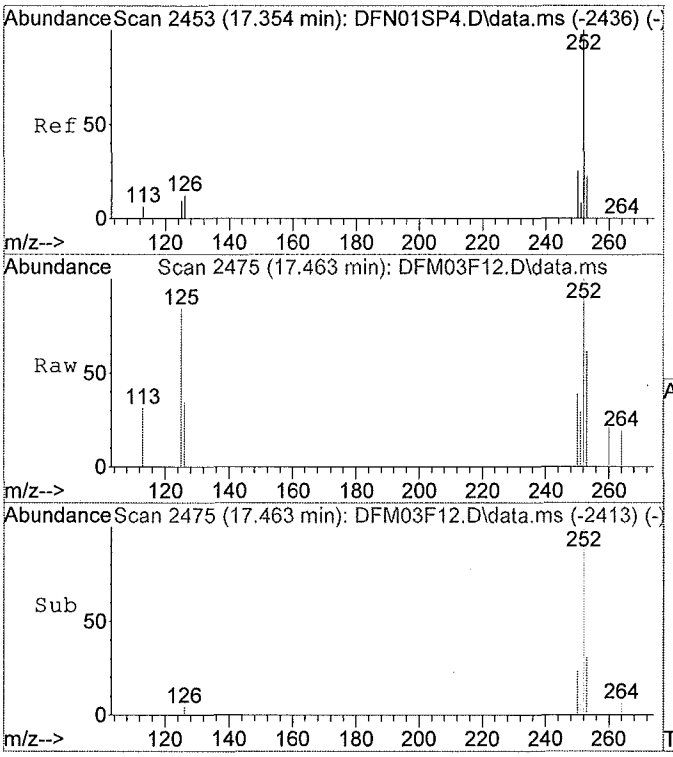


#20
Benzo(b)fluoranthene
Concen: 0.08 ug/ml m
RT: 16.86 min Scan# 2353
Delta R.T. 0.00 min
Lab File: DFM03F12.D
Acq: 07/15/2015 12:06

Tgt Ion:252 Resp: 51404

Ion	Ratio	Lower	Upper
252	100		
253	0.0	15.3	28.3#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

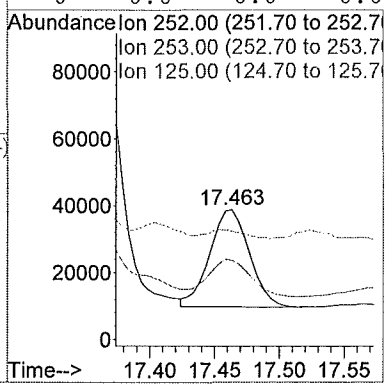


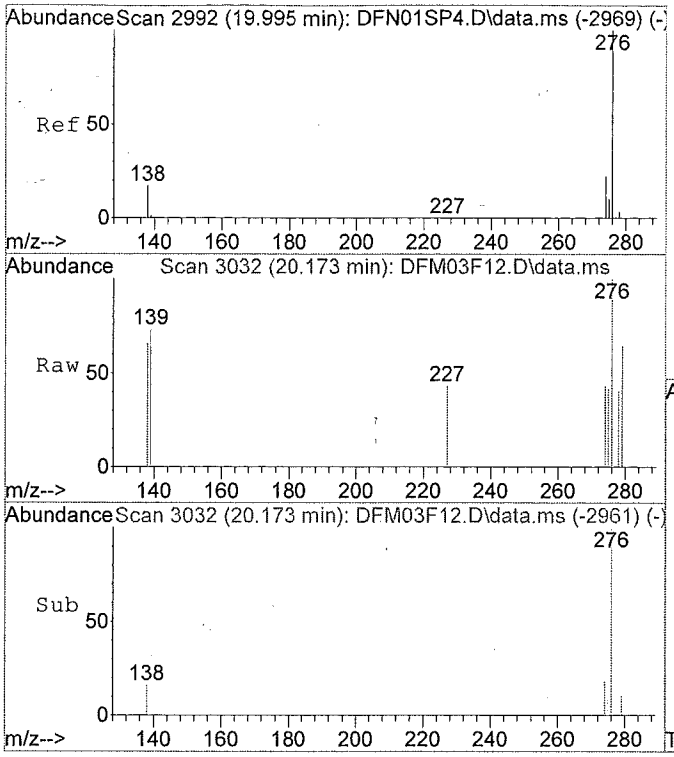


#22
Benzo(a)pyrene
Concen: 0.10 ug/ml
RT: 17.46 min Scan# 2475
Delta R.T. 0.01 min
Lab File: DFM03F12.D
Acq: 07/15/2015 12:06

Tgt Ion:252 Resp: 61851

Ion	Ratio	Lower	Upper
252	100		
253	40.8	15.0	27.8#
125	7.8	0.0	0.0#
0	0.0	0.0	0.0

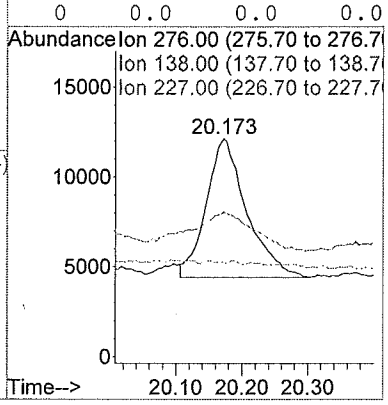


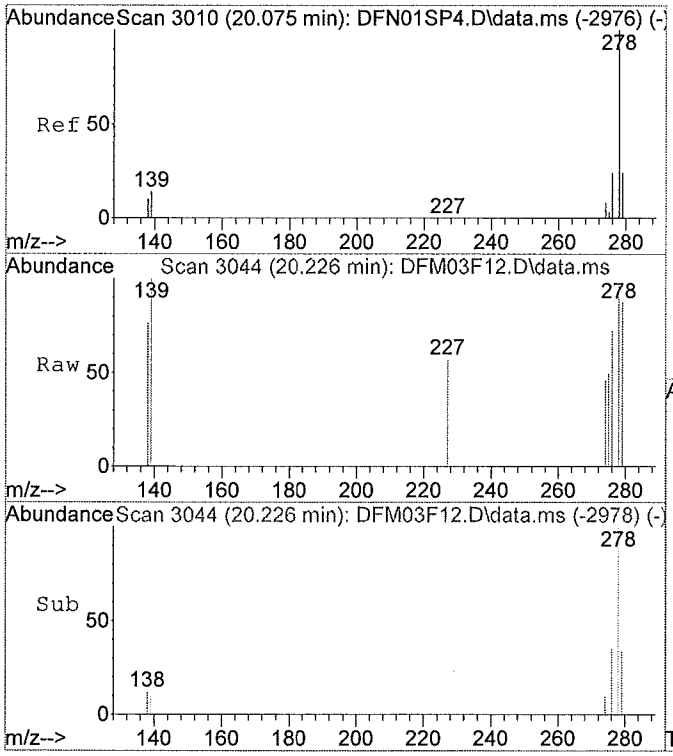


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.06 ug/ml
RT: 20.17 min Scan# 3032
Delta R.T. 0.02 min
Lab File: DFM03F12.D
Acq: 07/15/2015 12:06

Tgt Ion:276 Resp: 32790

Ion	Ratio	Lower	Upper
276	100		
138	44.3	0.0	0.0#
227	0.6	0.0	0.0#
0	0.0	0.0	0.0

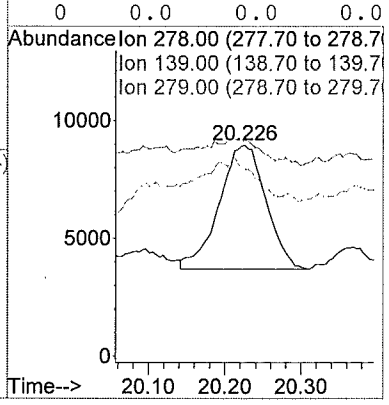


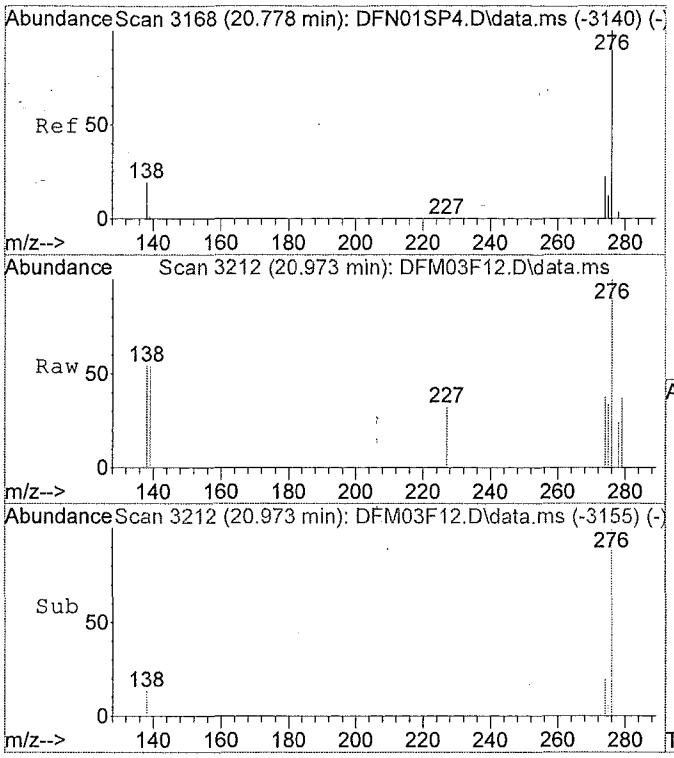


#24
Dibenzo(a,h)anthracene
Concen: 0.04 ug/ml
RT: 20.23 min Scan# 3044
Delta R.T. -0.00 min
Lab File: DFM03F12.D
Acq: 07/15/2015 12:06

Tgt Ion:278 Resp: 22196

Ion	Ratio	Lower	Upper
278	100		
139	10.7	0.0	0.0#
279	0.0	15.8	29.3#
0	0.0	0.0	0.0

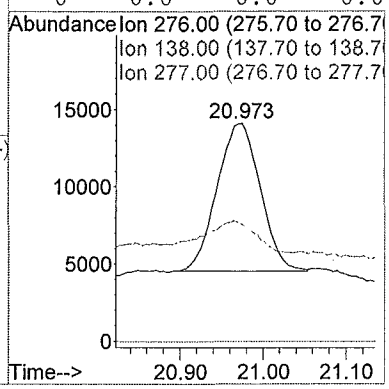




#25
Benzo(g,h,i)perylene
Concen: 0.05 ug/ml
RT: 20.97 min Scan# 3212
Delta R.T. 0.02 min
Lab File: DFM03F12.D
Acq: 07/15/2015 12:06

Tgt Ion:276 Resp: 34611

Ion	Ratio	Lower	Upper
276	100		
138	19.1	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.

F9M08

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375013

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DGA16F13

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 10.0

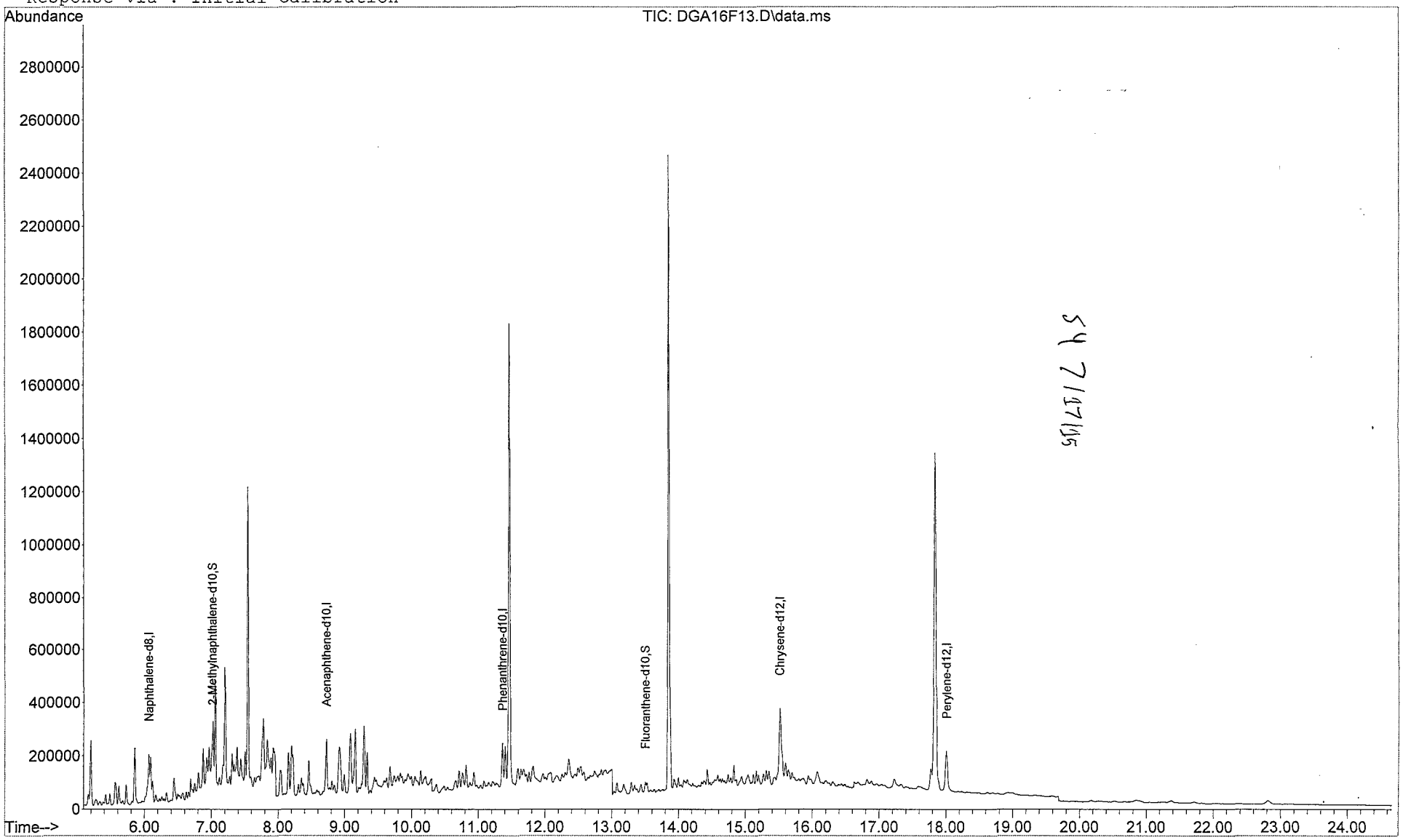
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	110	
91-57-6	2-Methylnaphthalene	240	
208-96-8	Acenaphthylene	37.	U
83-32-9	Acenaphthene	37.	U
86-73-7	Fluorene	24.	J
87-86-5	Pentachlorophenol	75.	U
85-01-8	Phenanthrene	93.	
120-12-7	Anthracene	37.	U
206-44-0	Fluoranthene	15.	J
129-00-0	Pyrene	89.	
56-55-3	Benzo(a)anthracene	23.	J
218-01-9	Chrysene	74.	
205-99-2	Benzo(b)fluoranthene	16.	J
207-08-9	Benzo(k)fluoranthene	37.	U
50-32-8	Benzo(a)pyrene	16.	J
193-39-5	Indeno(1,2,3-cd)pyrene	10.	J
53-70-3	Dibenzo(a,h)anthracene	37.	U
191-24-2	Benzo(g,h,i)perylene	37.	U

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\12JUN15\DGA16F13.D Vial: 14
Acq On : 06/12/2015 19:46 Operator: DJC
Sample : 1515375013 F9M08 (10) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 16 07:25:16 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



SY 7/17/15

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\12JUN15\DGA16F13.D Vial: 14
Acq On : 06/12/2015 19:46 Operator: DJC
Sample : 1515375013 F9M08 (10) Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 16 07:25:16 2015 Results File: DSOM_SIMJ2.RES

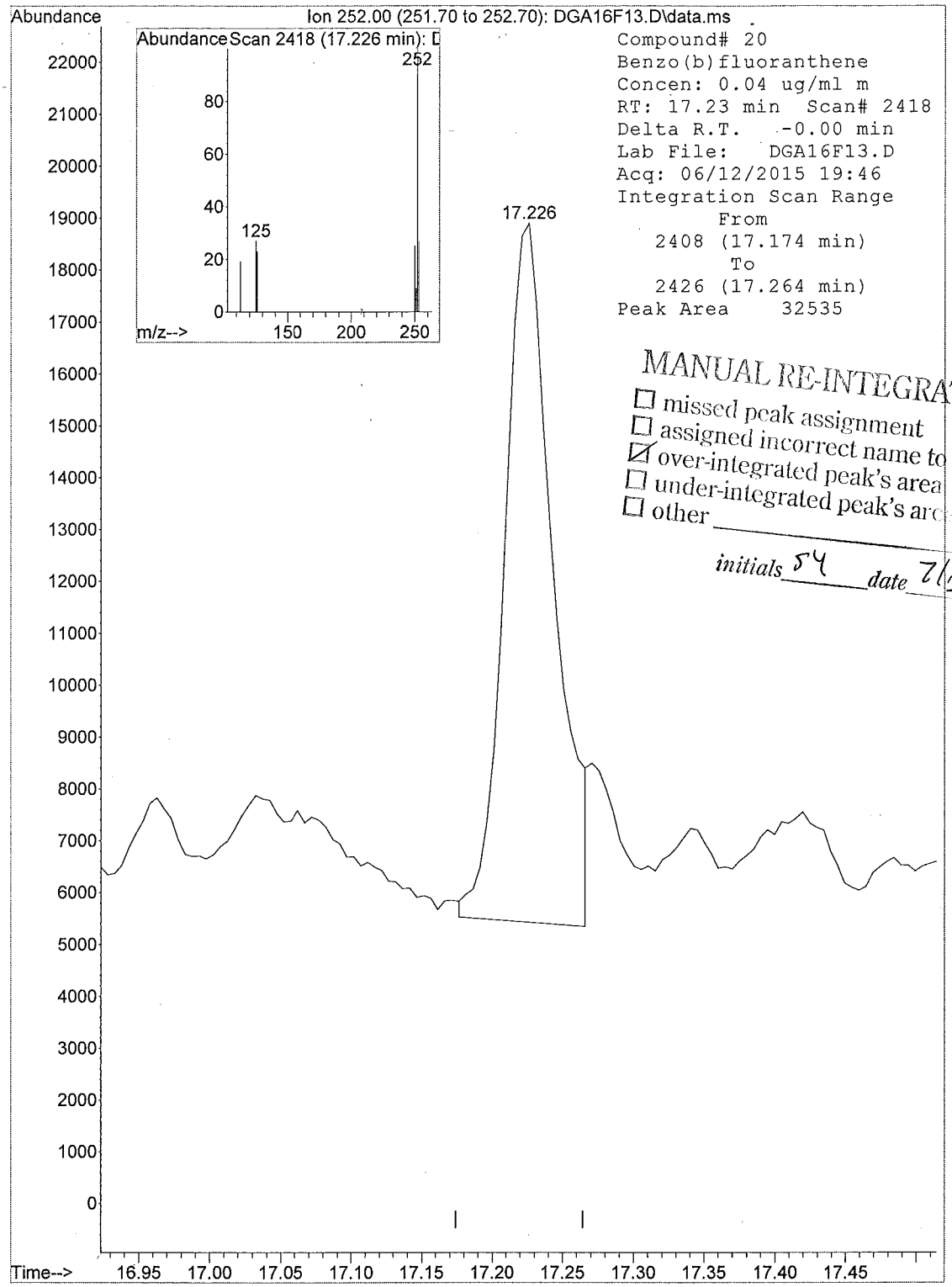
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

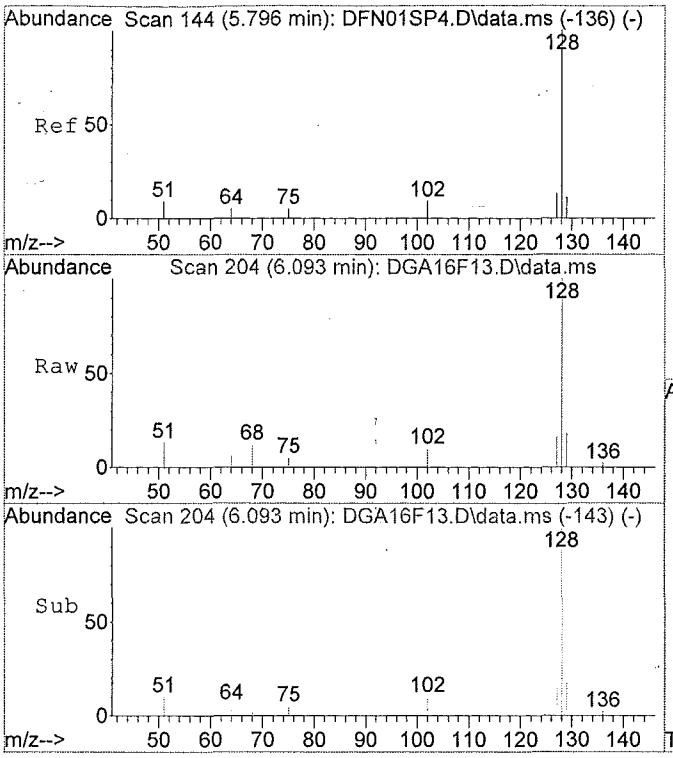
Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	185384	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	133159	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	226095	0.40 ug/ml	
15) Chrysene-d12	15.51	240	252770	0.40 ug/ml	
19) Perylene-d12	18.01	264	243743	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	21941	0.073ug/mL	
13) Fluoranthene-d10	13.50	212	39166	0.063ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	147471	0.305ug/ml	98
4) 2-Methylnaphthalene	7.05	142	198457	0.638ug/ml	98
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	9.68	166	28148	0.065ug/ml	76
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.40	178	161974	0.249ug/ml	95
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.53	202	29688	0.040ug/ml	99
16) Pyrene	13.87	202	188561	0.238ug/ml	89
17) Benzo(a)anthracene	15.50	228	41088	0.061ug/ml	52
18) Chrysene	15.53	228	140690	0.198ug/ml	80
20) Benzo(b)fluoranthene	17.23	252	32535	0.043ug/ml m DJ 7/07/15	95
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.88	252	30655	0.042ug/ml	54
23) Indeno(1,2,3-c,d)pyrene	20.84	276	17198	0.027ug/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)

:01168

M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene

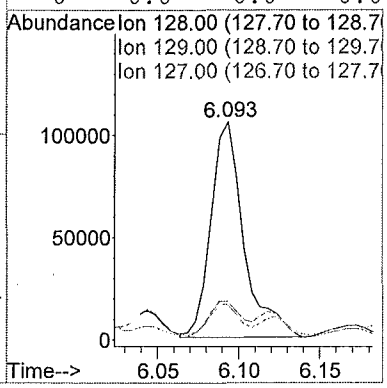


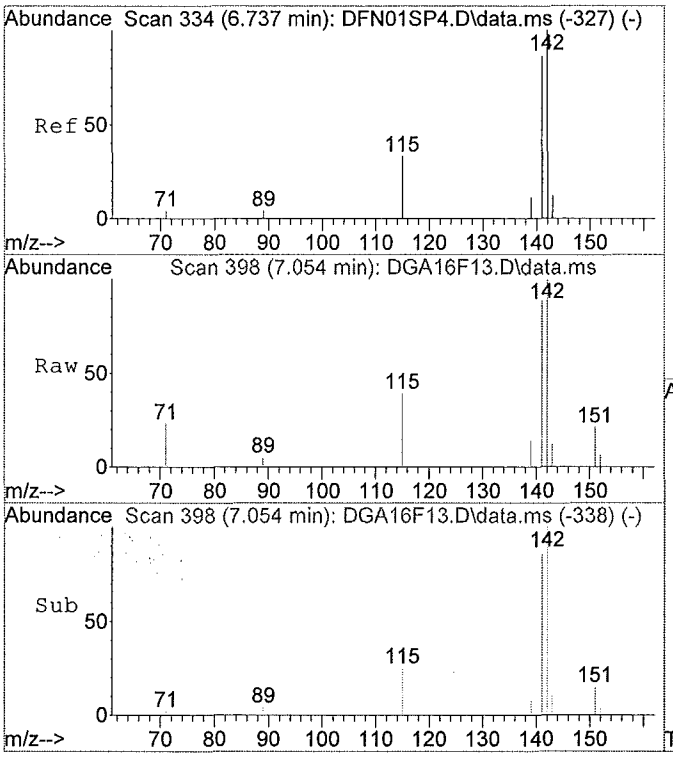


#2
Naphthalene
Concen: 0.31 ug/ml
RT: 6.09 min Scan# 204
Delta R.T. 0.00 min
Lab File: DGA16F13.D
Acq: 06/12/2015 19:46

Tgt Ion:128 Resp: 147471

Ion	Ratio	Lower	Upper
128	100		
129	16.7	0.0	0.0#
127	14.8	11.1	20.5
0	0.0	0.0	0.0

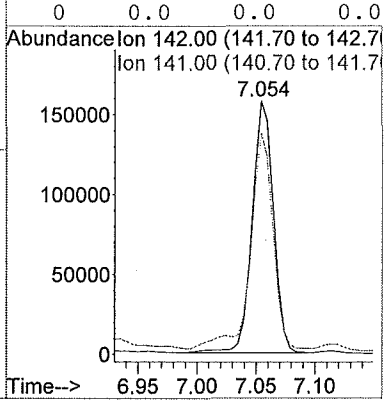


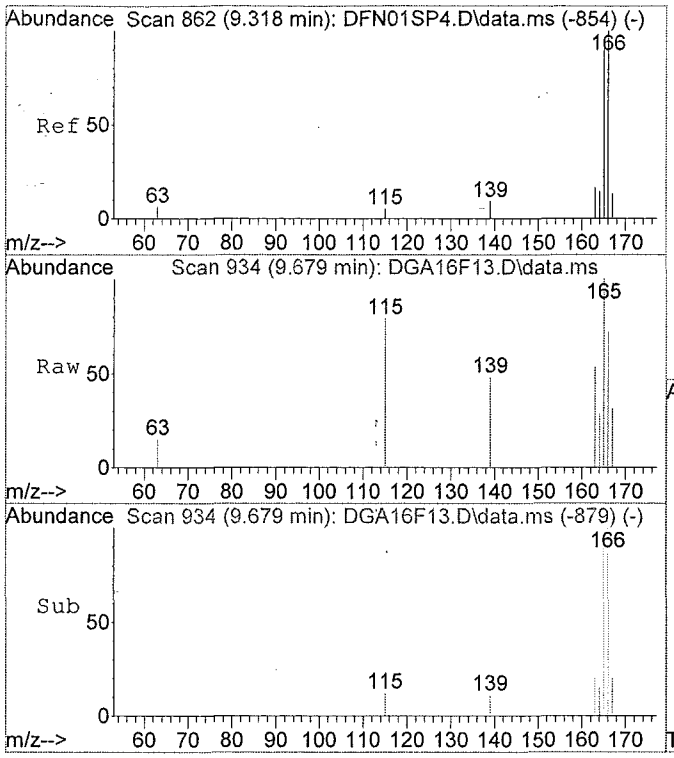


#4
2-Methylnaphthalene
Concen: 0.64 ug/ml
RT: 7.05 min Scan# 398
Delta R.T. -0.00 min
Lab File: DGA16F13.D
Acq: 06/12/2015 19:46

Tgt Ion:142 Resp: 198457

Ion	Ratio	Lower	Upper
142	100		
141	89.5	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

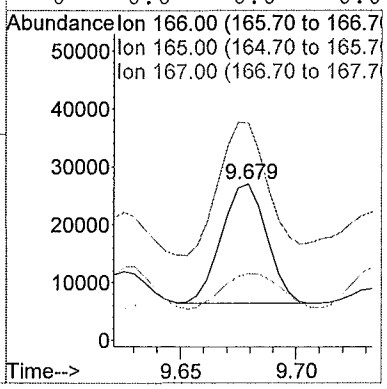


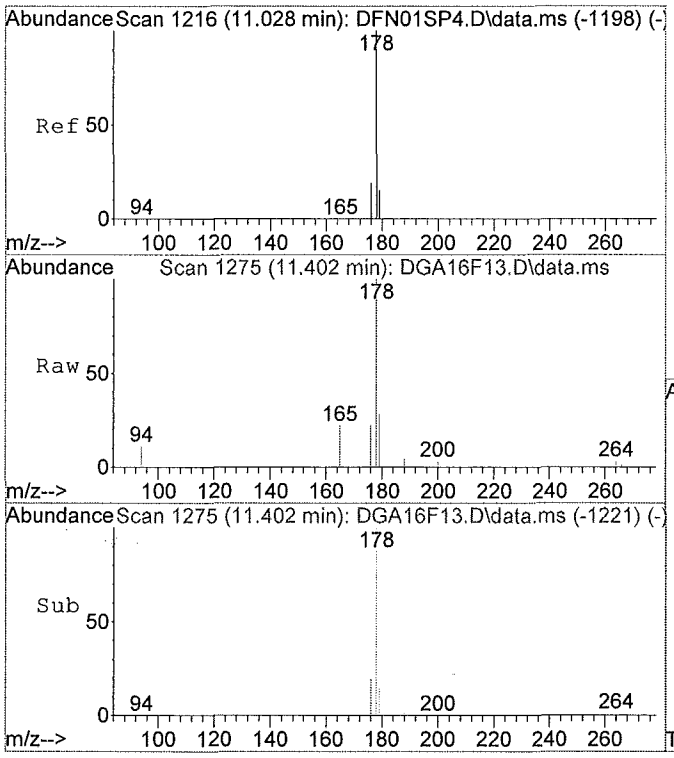


#8
Fluorene
Concen: 0.07 ug/ml
RT: 9.68 min Scan# 934
Delta R.T. 0.00 min
Lab File: DGA16F13.D
Acq: 06/12/2015 19:46

Tgt Ion:166 Resp: 28148

Ion	Ratio	Lower	Upper
166	100		
165	117.7	66.3	123.1
167	36.5	0.0	0.0#
0	0.0	0.0	0.0

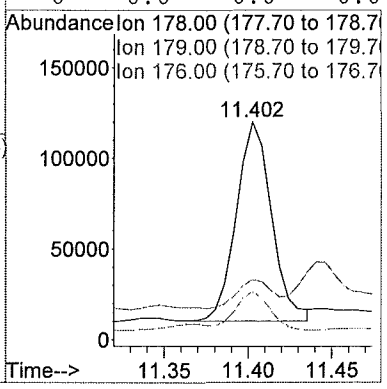


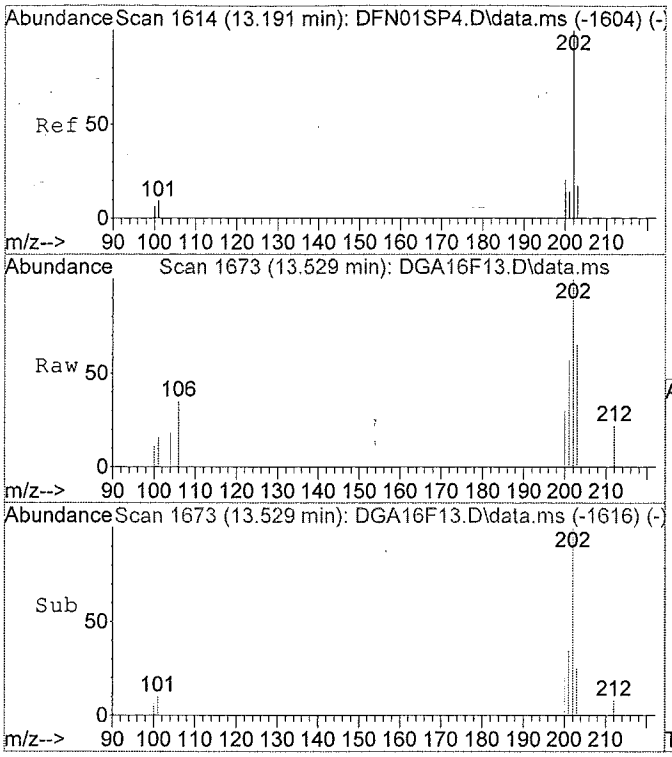


#11
Phenanthrene
Concen: 0.25 ug/ml
RT: 11.40 min Scan# 1275
Delta R.T. -0.01 min
Lab File: DGA16F13.D
Acq: 06/12/2015 19:46

Tgt Ion:178 Resp: 161974

Ion	Ratio	Lower	Upper
178	100		
179	13.6	11.1	20.5
176	18.1	14.1	26.1
0	0.0	0.0	0.0

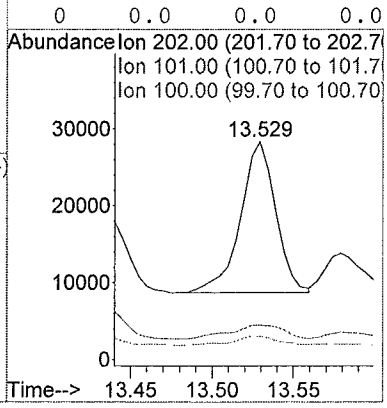


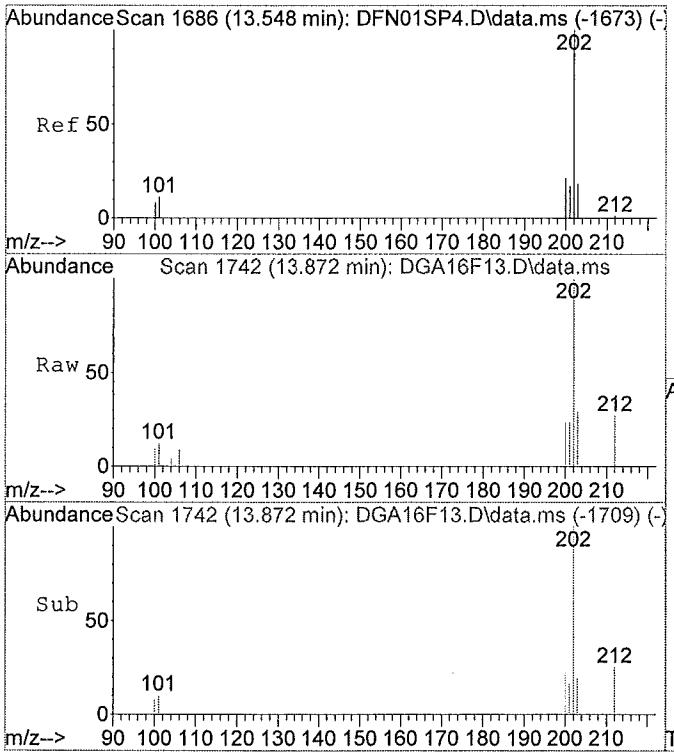


#14
Fluoranthene
Concen: 0.04 ug/ml
RT: 13.53 min Scan# 1673
Delta R.T. -0.00 min
Lab File: DGA16F13.D
Acq: 06/12/2015 19:46

Tgt Ion:202 Resp: 29688

Ion	Ratio	Lower	Upper
202	100		
101	13.9	9.4	17.6
100	7.7	0.0	0.0#
0	0.0	0.0	0.0

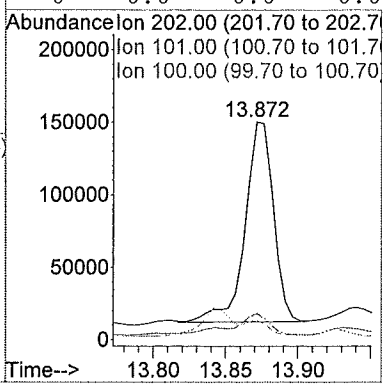


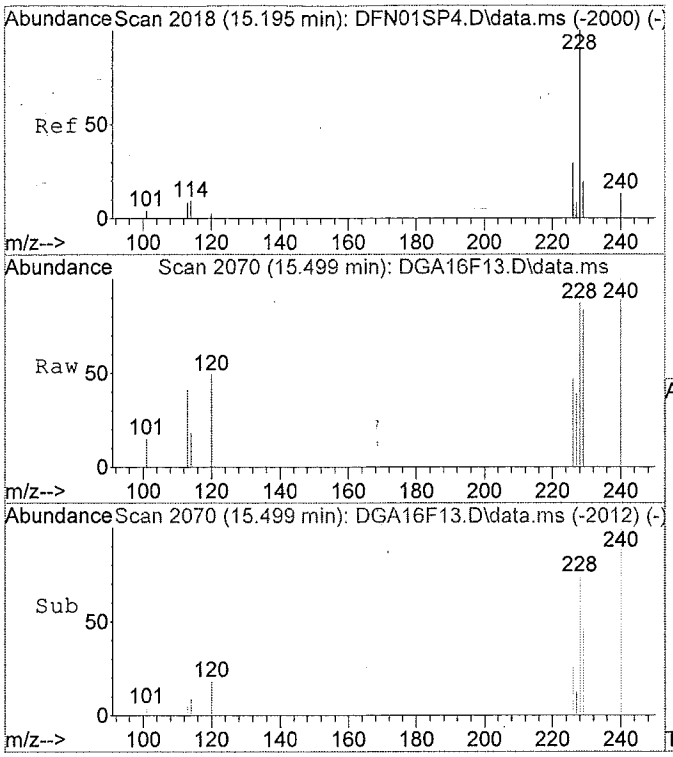


#16
Pyrene
Concen: 0.24 ug/ml
RT: 13.87 min Scan# 1742
Delta R.T. -0.00 min
Lab File: DGA16F13.D
Acq: 06/12/2015 19:46

Tgt Ion:202 Resp: 188561

Ion	Ratio	Lower	Upper
202	100		
101	13.2	10.6	19.6
100	6.5	9.4	17.4#
0	0.0	0.0	0.0

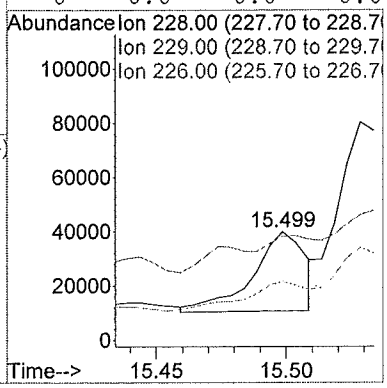


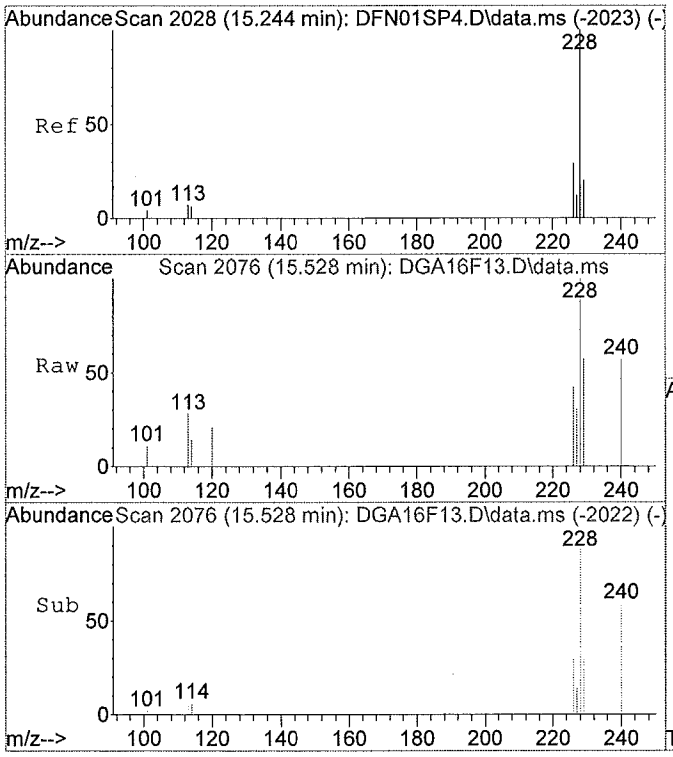


#17
Benzo(a)anthracene
Concen: 0.06 ug/ml
RT: 15.50 min Scan# 2070
Delta R.T. -0.01 min
Lab File: DGA16F13.D
Acq: 06/12/2015 19:46

Tgt Ion:228 Resp: 41088

Ion	Ratio	Lower	Upper
228	100		
229	52.1	14.5	26.9#
226	42.8	18.5	34.3#
0	0.0	0.0	0.0

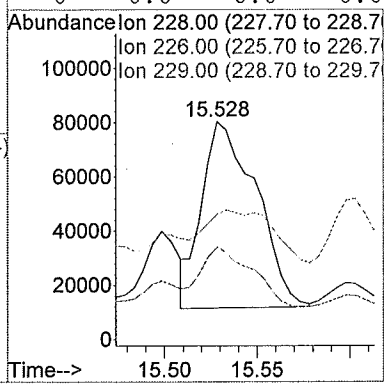


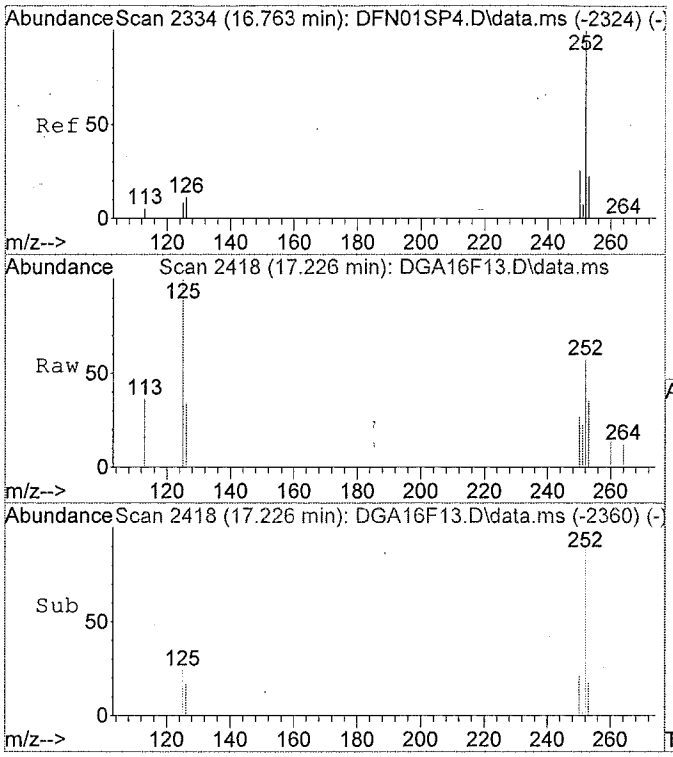


#18
Chrysene
Concen: 0.20 ug/ml
RT: 15.53 min Scan# 2076
Delta R.T. -0.03 min
Lab File: DGA16F13.D
Acq: 06/12/2015 19:46

Tgt Ion:228 Resp: 140690

Ion	Ratio	Lower	Upper
228	100		
226	31.0	19.7	36.7
229	39.9	14.5	26.9#
0	0.0	0.0	0.0

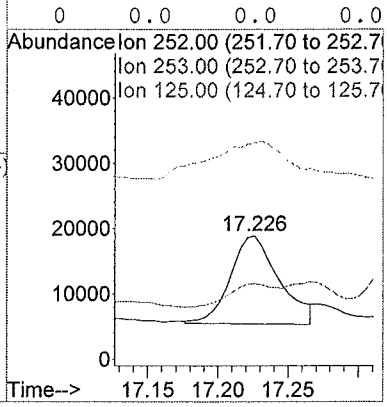


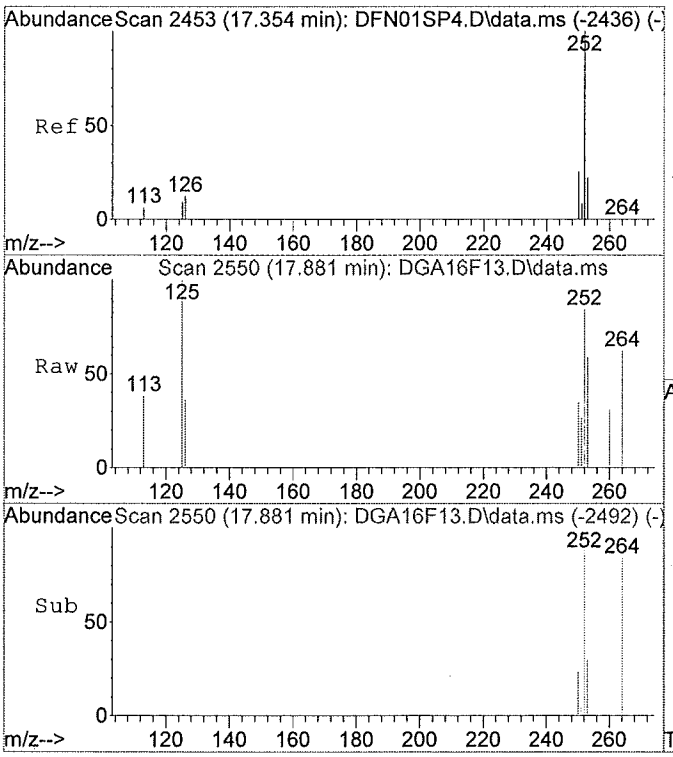


#20
Benzo(b)fluoranthene
Concen: 0.04 ug/ml m
RT: 17.23 min Scan# 2418
Delta R.T. -0.00 min
Lab File: DGA16F13.D
Acq: 06/12/2015 19:46

Tgt Ion:252 Resp: 32535

Ion	Ratio	Lower	Upper
252	100		
253	26.5	15.3	28.3
125	85.2	0.0	0.0#
0	0.0	0.0	0.0

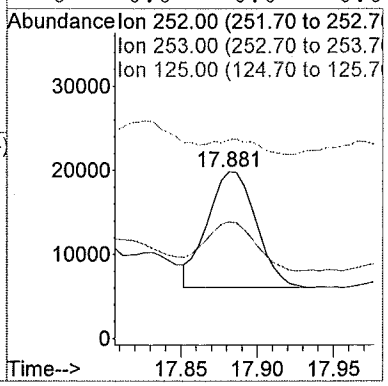


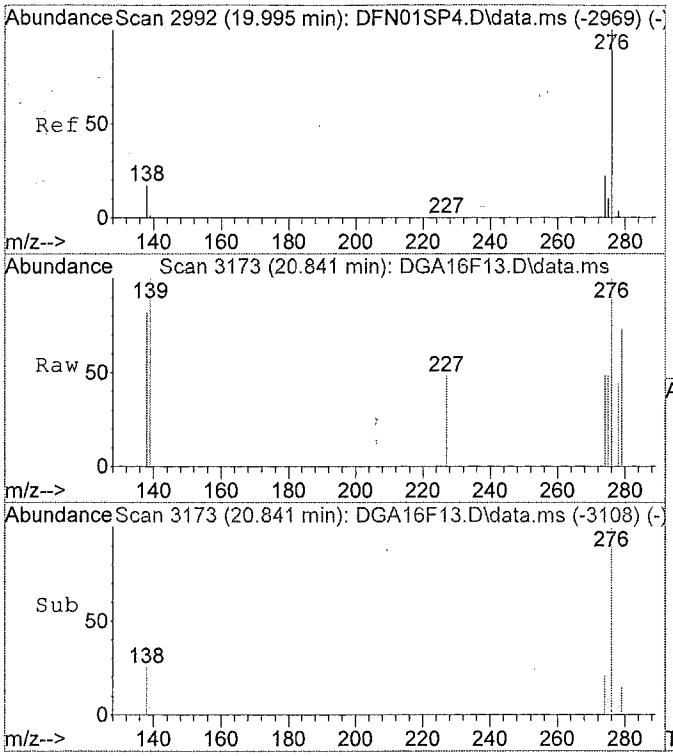


#22
Benzo(a)pyrene
Concen: 0.04 ug/ml
RT: 17.88 min Scan# 2550
Delta R.T. -0.01 min
Lab File: DGA16F13.D
Acq: 06/12/2015 19:46

Tgt Ion:252 Resp: 30655

Ion	Ratio	Lower	Upper
252	100		
253	43.2	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

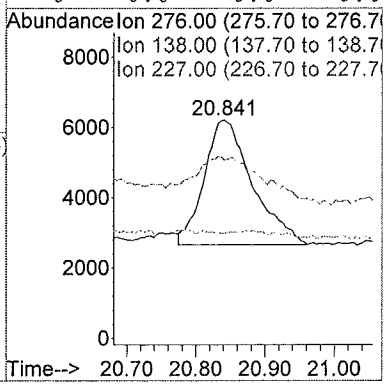




#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.Q3 ug/ml
RT: 20.84 min Scan# 3173
Delta R.T. -0.01 min
Lab File: DGA16F13.D
Acq: 06/12/2015 19:46

Tgt Ion:276 Resp: 17198

Ion	Ratio	Lower	Upper
276	100		
138	6.0	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.

F9M09

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375014

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL13F14

Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/14/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 30.0

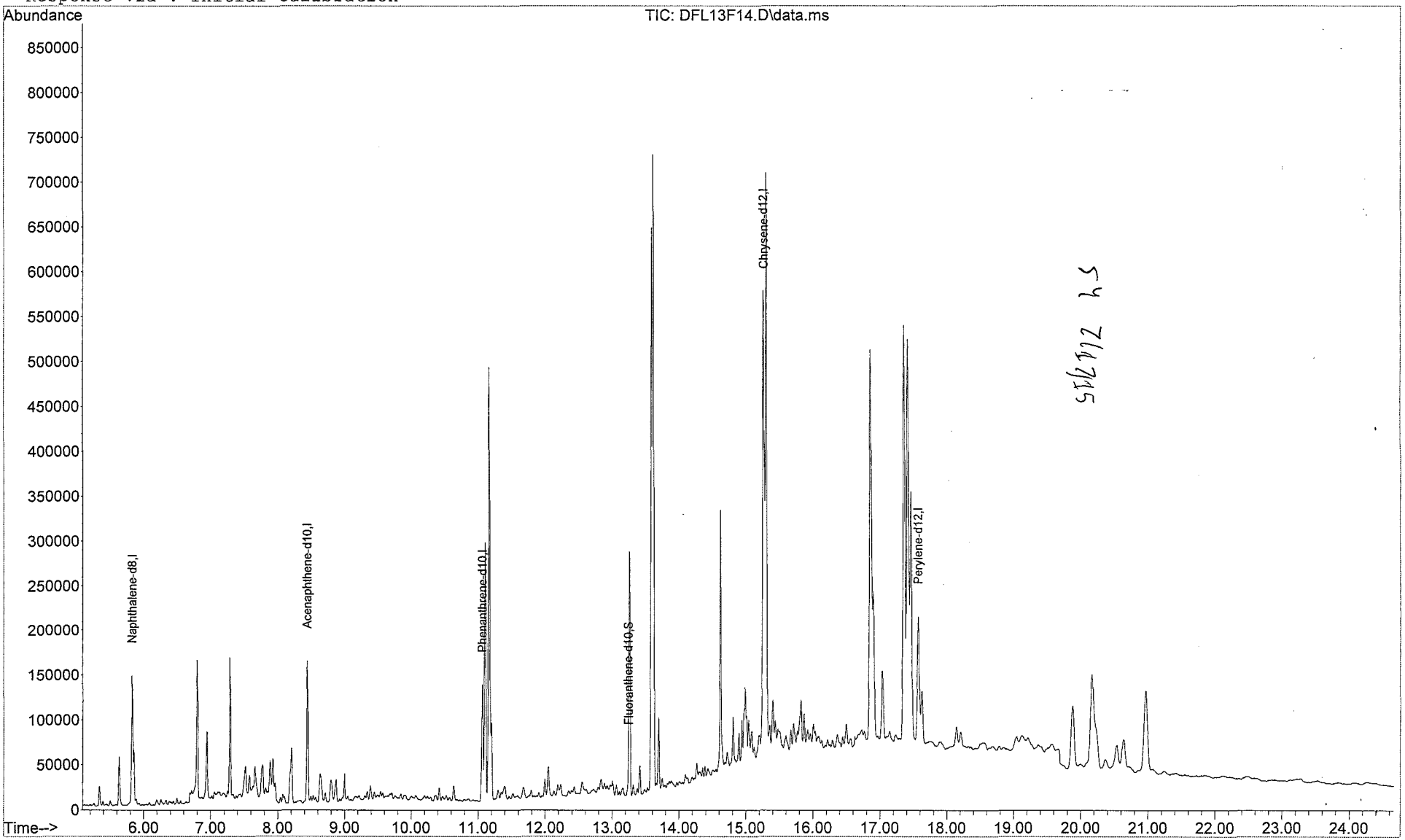
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	130	
91-57-6	2-Methylnaphthalene	330	
208-96-8	Acenaphthylene	130	
83-32-9	Acenaphthene	110	U
86-73-7	Fluorene	25.	J
87-86-5	Pentachlorophenol	220	U
85-01-8	Phenanthrene	700	
120-12-7	Anthracene	200	
206-44-0	Fluoranthene	420	
129-00-0	Pyrene	850	
56-55-3	Benzo(a)anthracene	590	
218-01-9	Chrysene	890	
205-99-2	Benzo(b)fluoranthene	830	
207-08-9	Benzo(k)fluoranthene	190	
50-32-8	Benzo(a)pyrene	500	
193-39-5	Indeno(1,2,3-cd)pyrene	460	
53-70-3	Dibenzo(a,h)anthracene	150	
191-24-2	Benzo(g,h,i)perylene	360	

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL13F14.D Vial: 13
Acq On : 07/14/2015 20:15 Operator: DJC
Sample : 1515375014 F9M09 (30) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 12:13:36 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL13F14.D Vial: 13
Acq On : 07/14/2015 20:15 Operator: DJC
Sample : 1515375014 F9M09 (30) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 12:13:36 2015 Results File: DSOM_SIMJ2.RES

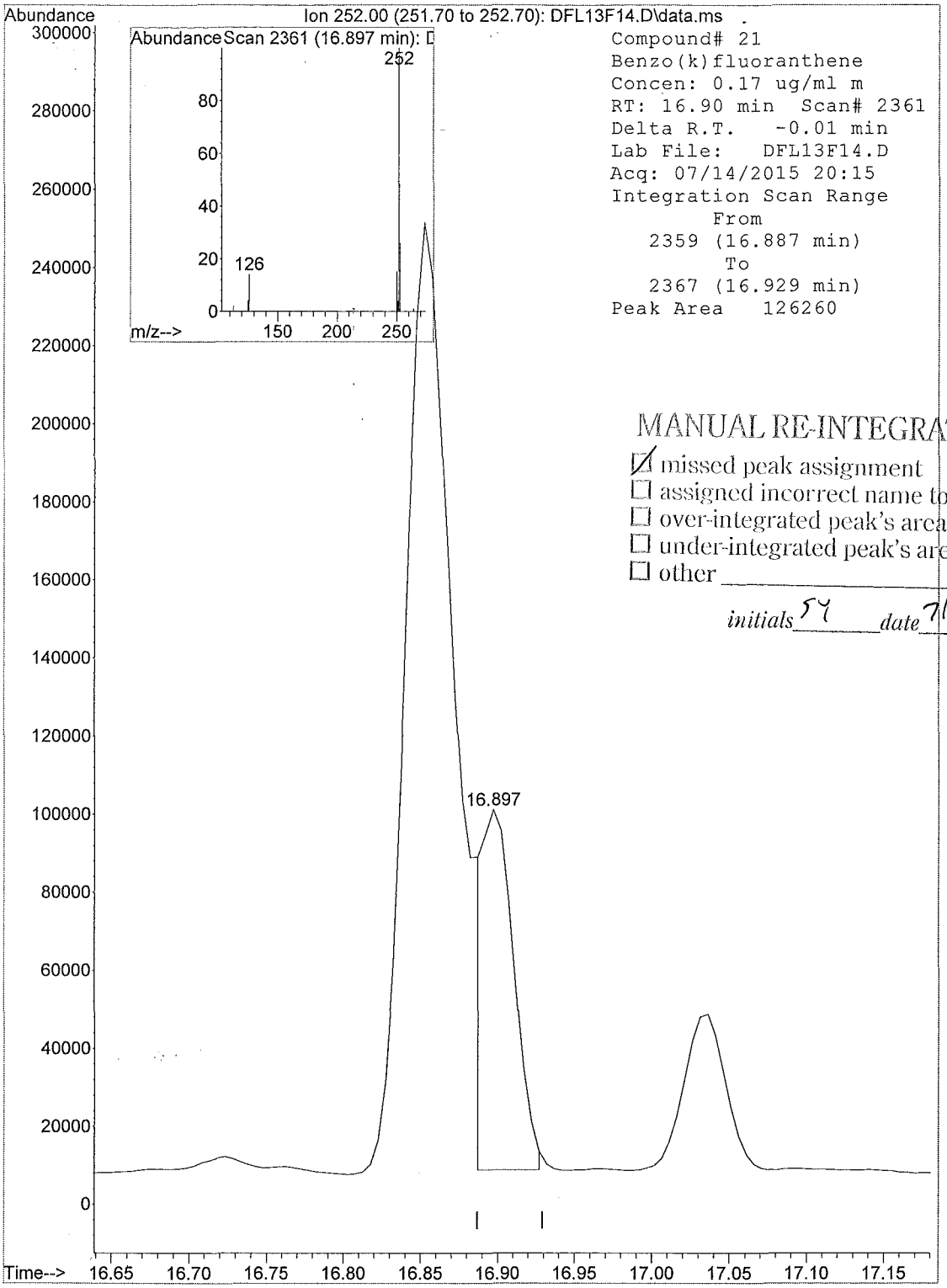
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	154687	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	101539	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	177102	0.40 ug/ml	
15) Chrysene-d12	15.27	240	219729	0.40 ug/ml	
19) Perylene-d12	17.57	264	231722	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	4948	0.020ug/mL	
13) Fluoranthene-d10	13.23	212	10415	0.022ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.85	128	45941	0.114ug/ml	98
4) 2-Methylnaphthalene	6.80	142	75842	0.292ug/ml	98
6) Acenaphthylene	8.20	152	53026	0.119ug/ml	91
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	9.39	166	7260	0.022ug/ml	89
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.10	178	317846	0.623ug/ml	99
12) Anthracene	11.20	178	89928	0.181ug/ml	94
14) Fluoranthene	13.26	202	219719	0.379ug/ml	89
16) Pyrene	13.61	202	521171	0.756ug/ml	89
17) Benzo(a)anthracene	15.25	228	310885	0.531ug/ml	78
18) Chrysene	15.30	228	491154	0.793ug/ml	91
20) Benzo(b)fluoranthene	16.85	252	533680	0.739ug/ml	99
21) Benzo(k)fluoranthene	16.90	252	126260	0.169ug/ml m	98
22) Benzo(a)pyrene	17.46	252	308264	0.447ug/ml	95
23) Indeno(1,2,3-c,d)pyrene	20.16	276	248391	0.411ug/ml	100
24) Dibenzo(a,h)anthracene	20.23	278	88171	0.132ug/ml	91
25) Benzo(g,h,i)perylene	20.96	276	217821	0.321ug/ml	69

7/17/15

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

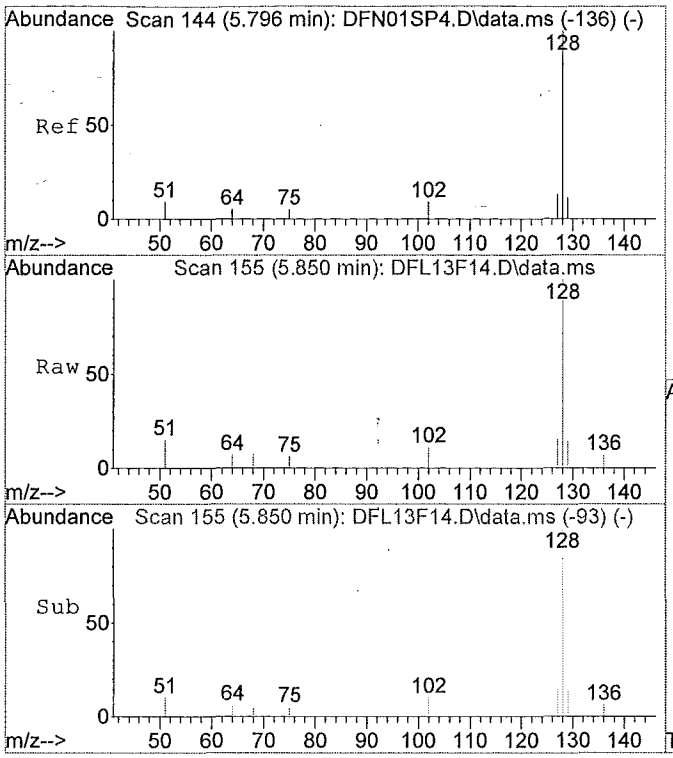
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

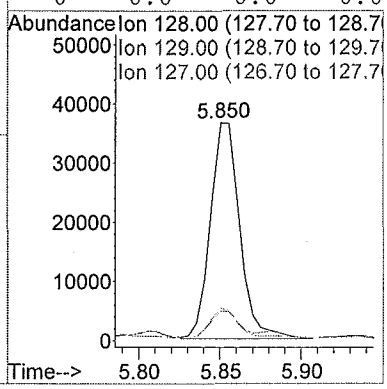
initials SY *date* 7/17/15

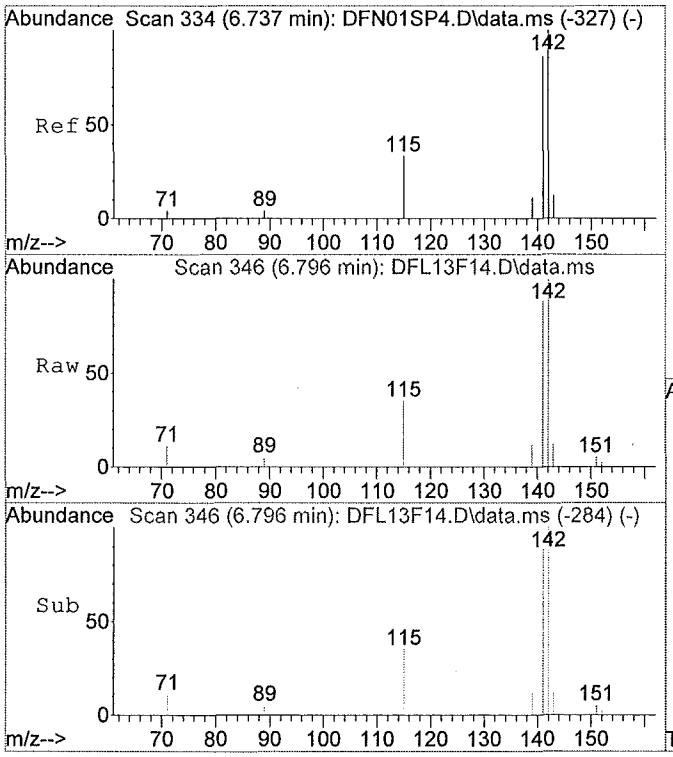


#2
Naphthalene
Concen: 0.11 ug/ml
RT: 5.85 min Scan# 155
Delta R.T. 0.00 min
Lab File: DFL13F14.D
Acq: 07/14/2015 20:15

Tgt Ion:128 Resp: 45941

Ion	Ratio	Lower	Upper
128	100		
129	12.8	0.0	0.0#
127	15.0	11.1	20.5
0	0.0	0.0	0.0

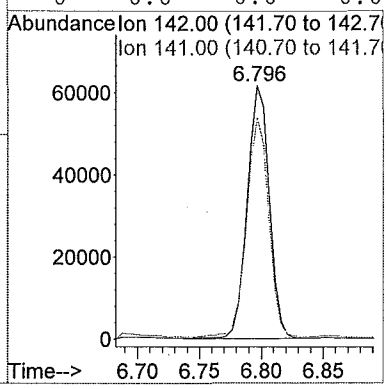


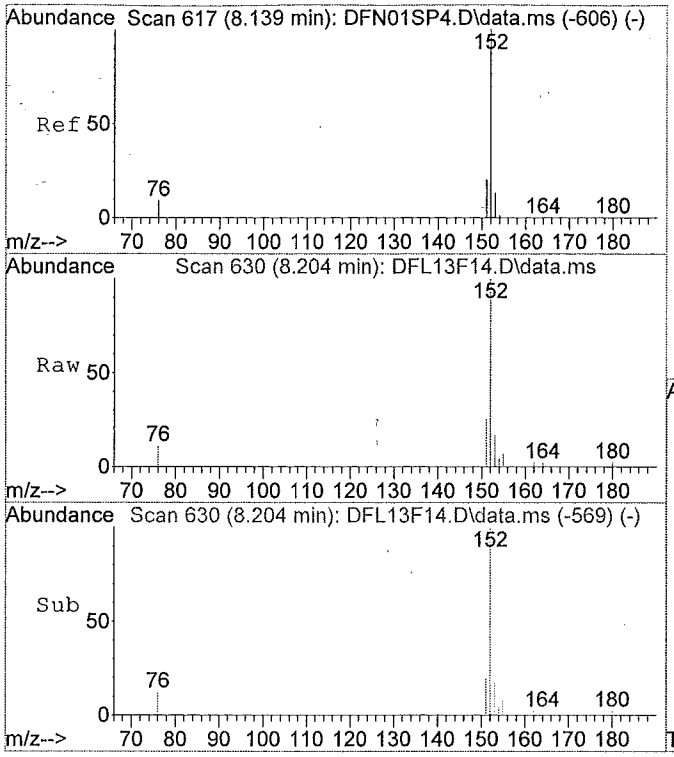


#4
2-Methylnaphthalene
Concen: 0.29 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.00 min
Lab File: DFL13F14.D
Acq: 07/14/2015 20:15

Tgt Ion:142 Resp: 75842

Ion	Ratio	Lower	Upper
142	100		
141	89.5	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

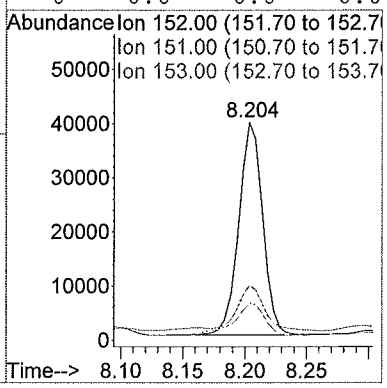


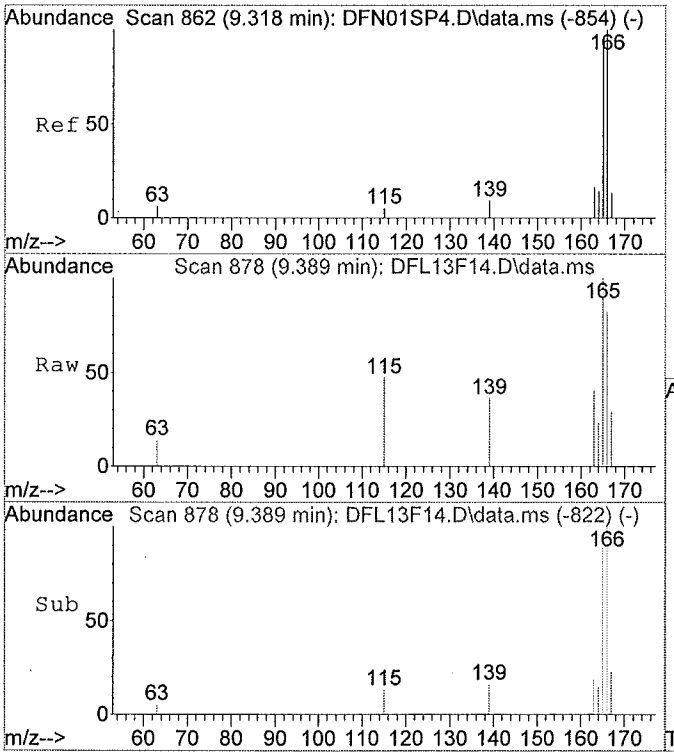


#6
Acenaphthylene
Concen: 0.12 ug/ml
RT: 8.20 min Scan# 630
Delta R.T. 0.00 min
Lab File: DFL13F14.D
Acq: 07/14/2015 20:15

Tgt Ion:152 Resp: 53026

Ion	Ratio	Lower	Upper
152	100		
151	23.8	15.5	28.7
153	19.9	8.8	16.4#
0	0.0	0.0	0.0

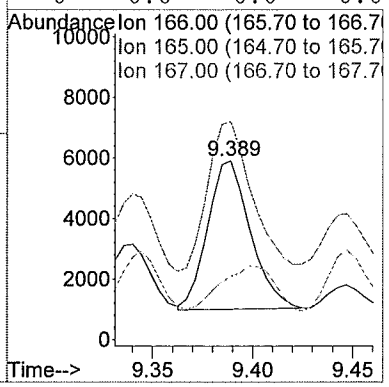


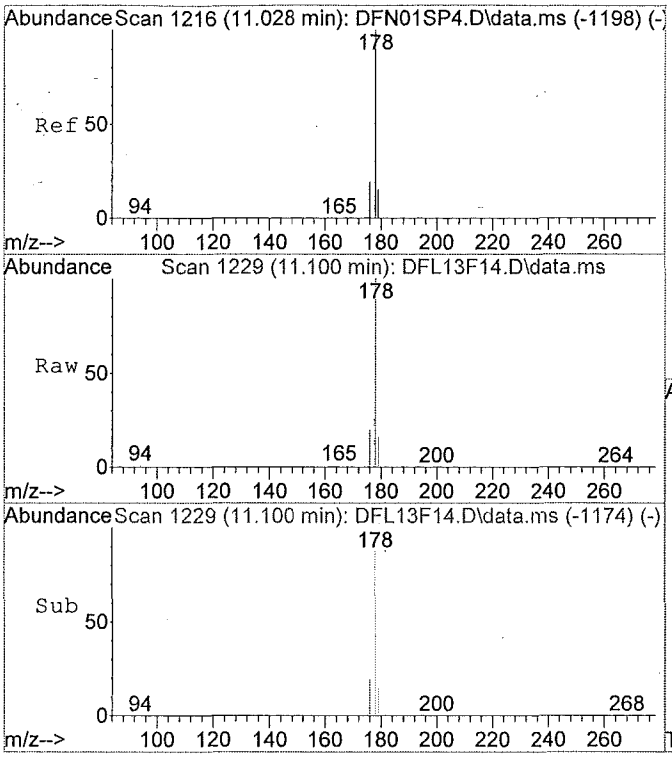


#8
Fluorene
Concen: 0.02 ug/ml
RT: 9.39 min Scan# 878
Delta R.T. 0.00 min
Lab File: DFL13F14.D
Acq: 07/14/2015 20:15

Tgt Ion:166 Resp: 7260

Ion	Ratio	Lower	Upper
166	100		
165	105.2	66.3	123.1
167	38.0	0.0	0.0#
0	0.0	0.0	0.0

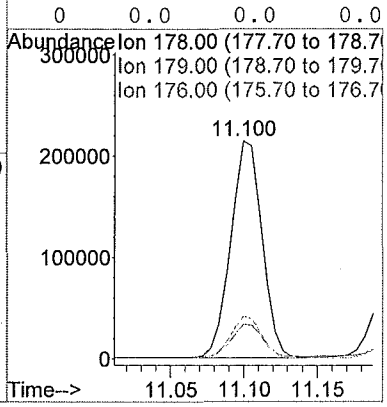


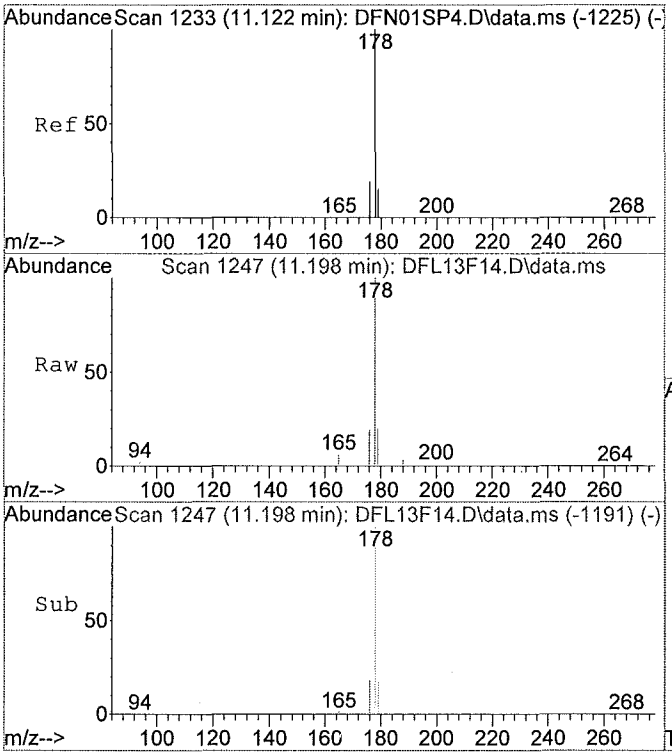


#11
Phenanthrene
Concen: 0.62 ug/ml
RT: 11.10 min Scan# 1229
Delta R.T. -0.00 min
Lab File: DFL13F14.D
Acq: 07/14/2015 20:15

Tgt Ion:178 Resp: 317846

Ion	Ratio	Lower	Upper
178	100		
179	15.5	11.1	20.5
176	19.3	14.1	26.1
0	0.0	0.0	0.0

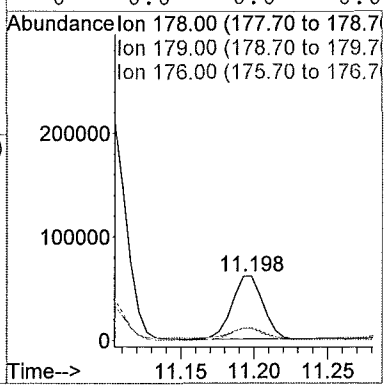


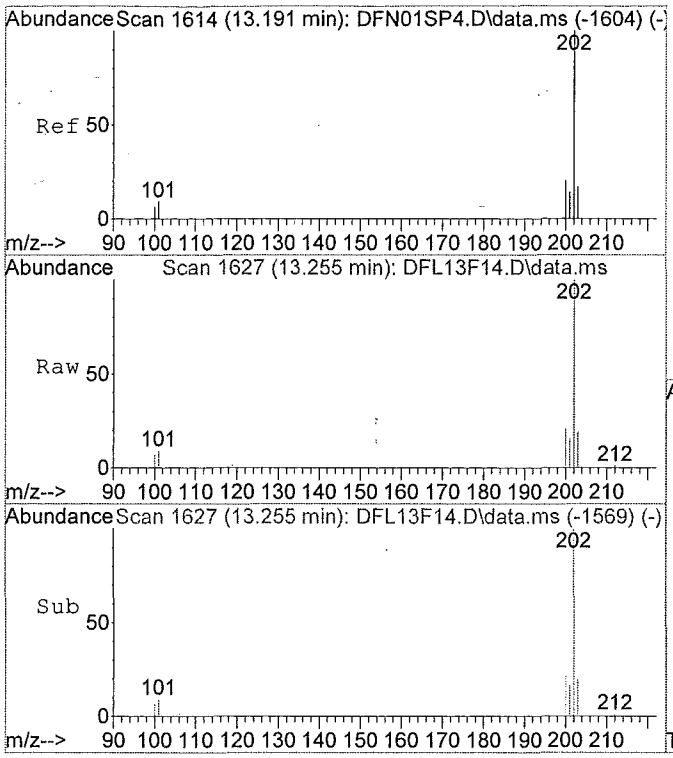


#12
Anthracene
Concen: 0.18 ug/ml
RT: 11.20 min Scan# 1247
Delta R.T. 0.01 min
Lab File: DFL13F14.D
Acq: 07/14/2015 20:15

Tgt Ion:178 Resp: 89928

Ion	Ratio	Lower	Upper
178	100		
179	20.7	11.6	21.6
176	18.7	13.9	25.7
0	0.0	0.0	0.0

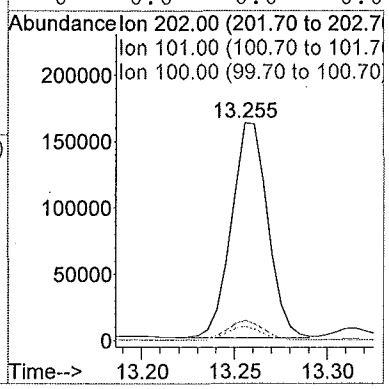


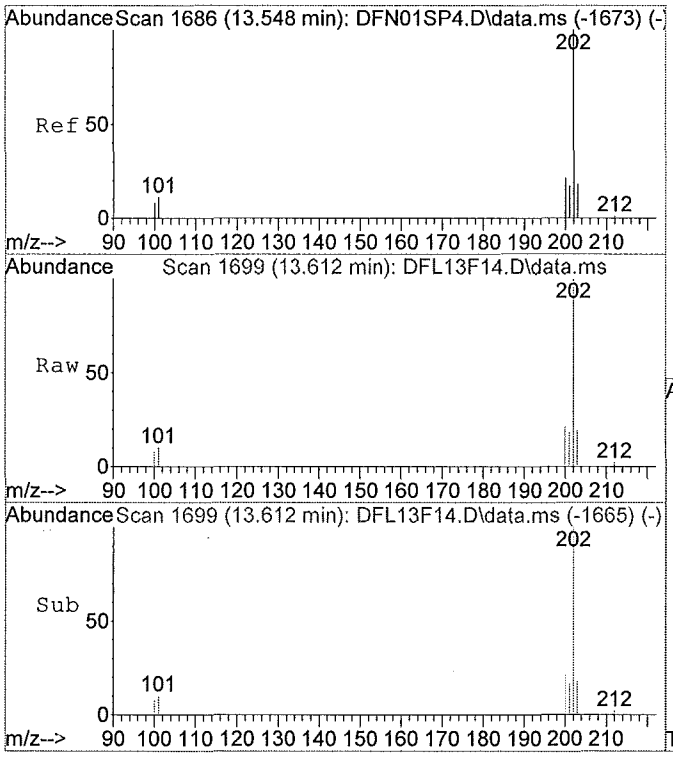


#14
Fluoranthene
Concen: 0.38 ug/ml
RT: 13.26 min Scan# 1627
Delta R.T. -0.00 min
Lab File: DFL13F14.D
Acq: 07/14/2015 20:15

Tgt Ion:202 Resp: 219719

Ion	Ratio	Lower	Upper
202	100		
101	9.1	9.4	17.6#
100	6.2	0.0	0.0#
0	0.0	0.0	0.0

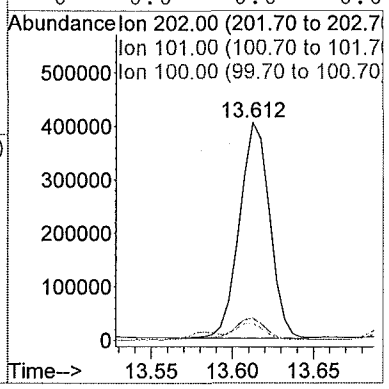


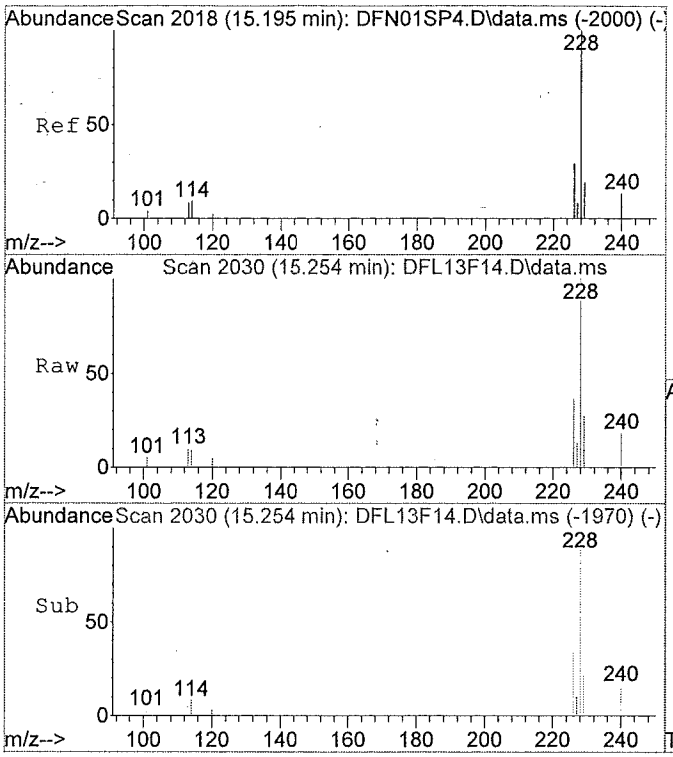


#16
Pyrene
Concen: 0.76 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. -0.00 min
Lab File: DFL13F14.D
Acq: 07/14/2015 20:15

Tgt Ion:202 Resp: 521171

Ion	Ratio	Lower	Upper
202	100		
101	11.2	10.6	19.6
100	8.0	9.4	17.4#
0	0.0	0.0	0.0

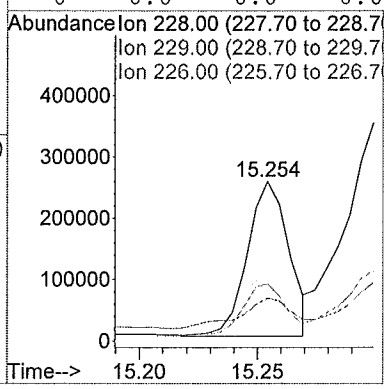


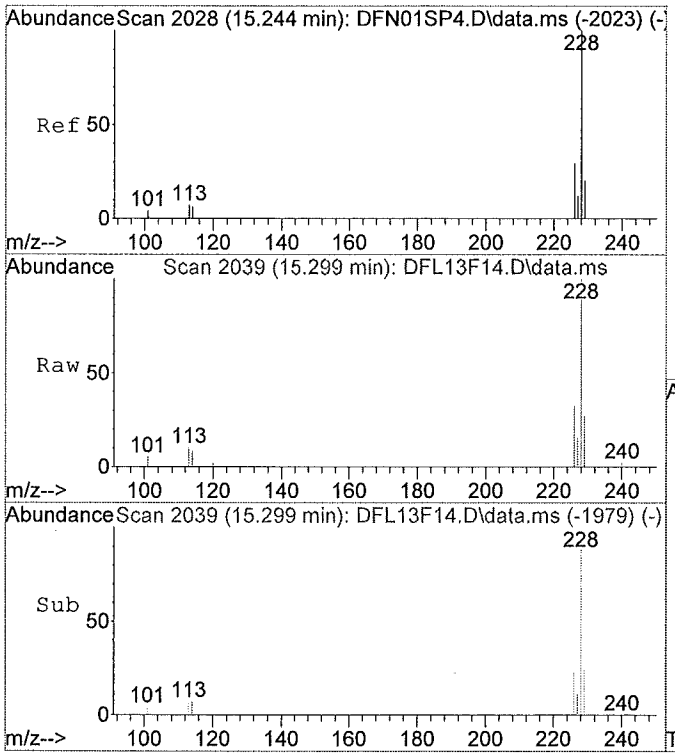


#17
Benzo(a)anthracene
Concen: 0.53 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. -0.00 min
Lab File: DFL13F14.D
Acq: 07/14/2015 20:15

Tgt Ion:228 Resp: 310885

Ion	Ratio	Lower	Upper
228	100		
229	33.2	14.5	26.9#
226	35.3	18.5	34.3#
0	0.0	0.0	0.0

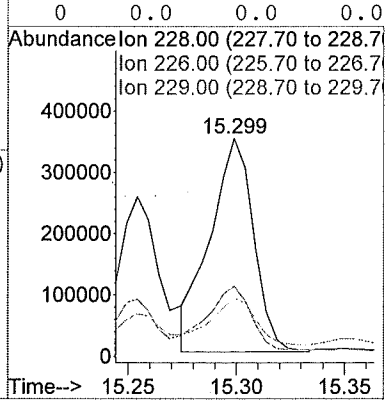


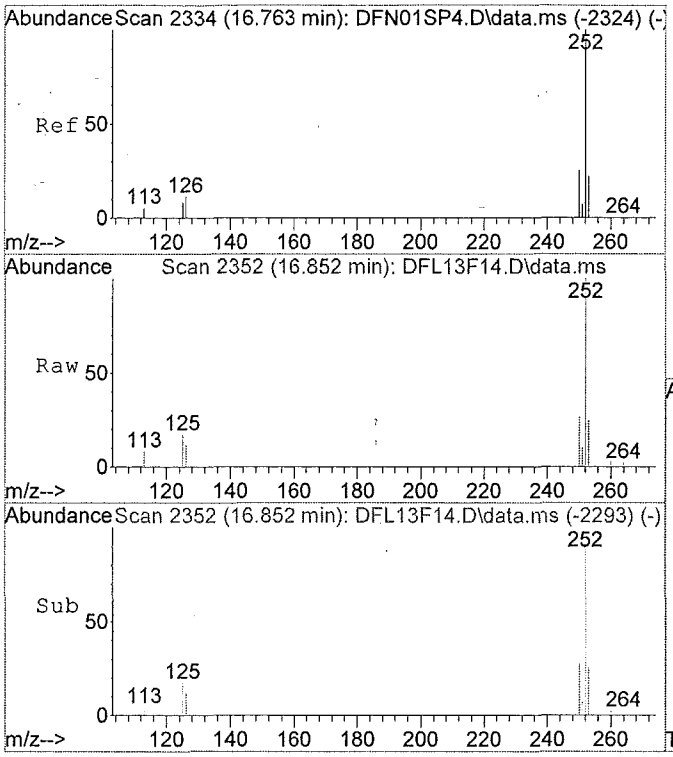


#18
Chrysene
Concen: 0.79 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. -0.00 min
Lab File: DFL13F14.D
Acq: 07/14/2015 20:15

Tgt Ion:228 Resp: 491154

Ion	Ratio	Lower	Upper
228	100		
226	32.8	19.7	36.7
229	25.4	14.5	26.9
0	0.0	0.0	0.0

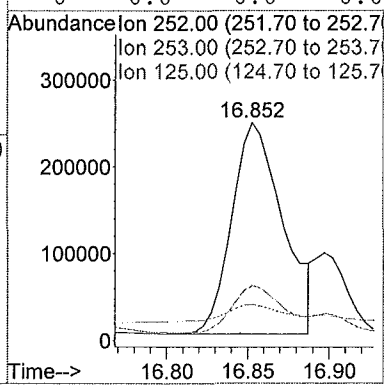


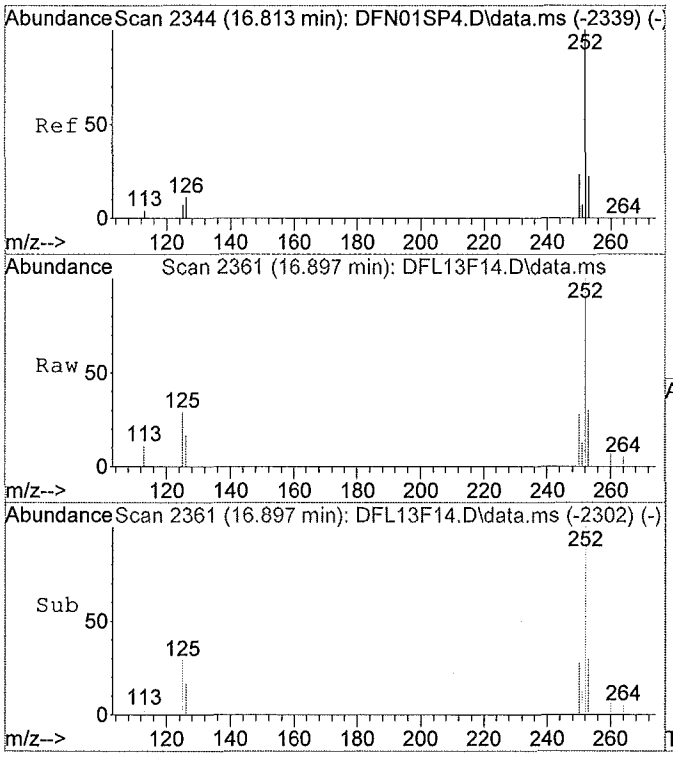


#20
Benzo(b)fluoranthene
Concen: 0.74 ug/ml
RT: 16.85 min Scan# 2352
Delta R.T. -0.00 min
Lab File: DFL13F14.D
Acq: 07/14/2015 20:15

Tgt Ion:252 Resp: 533680

Ion	Ratio	Lower	Upper
252	100		
253	22.4	15.3	28.3
125	7.2	0.0	0.0#
0	0.0	0.0	0.0

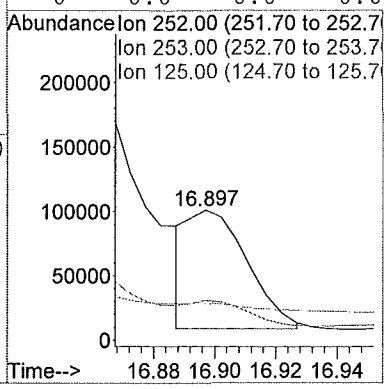


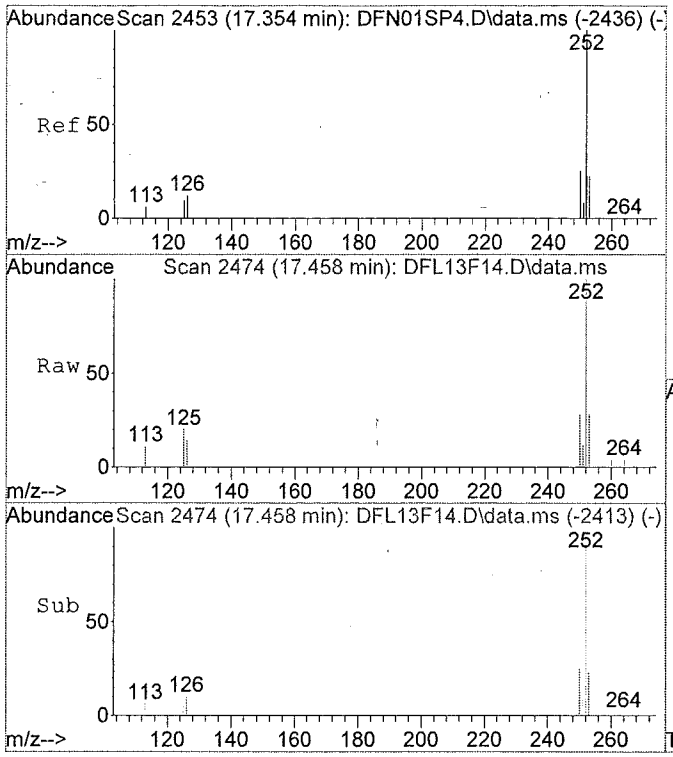


#21
Benzo(k)fluoranthene
Concen: 0.17 ug/ml m
RT: 16.90 min Scan# 2361
Delta R.T. -0.01 min
Lab File: DFL13F14.D
Acq: 07/14/2015 20:15

Tgt Ion:252 Resp: 126260

Ion	Ratio	Lower	Upper
252	100		
253	94.6	15.0	27.8#
125	30.3	0.0	0.0#
0	0.0	0.0	0.0

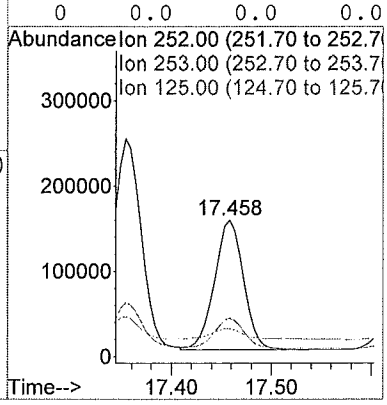


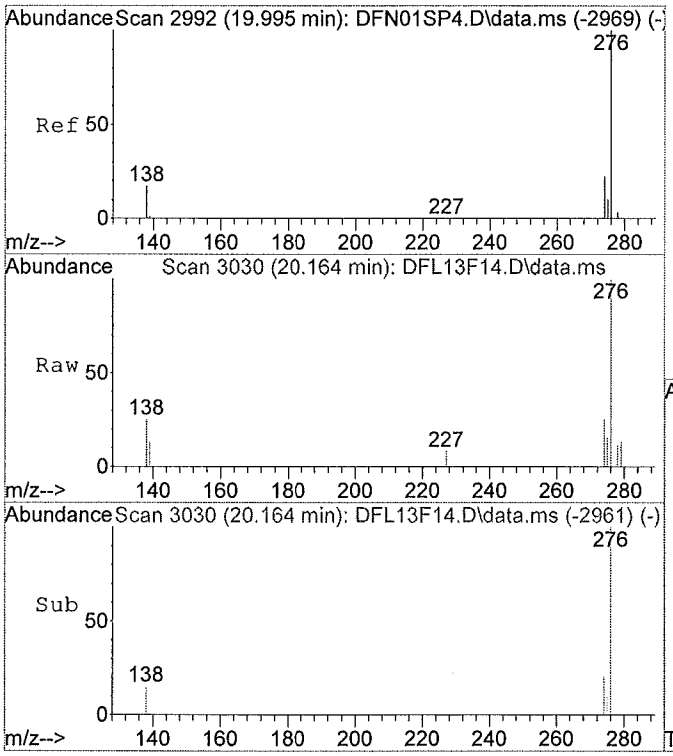


#22
Benzo(a)pyrene
Concen: 0.45 ug/ml
RT: 17.46 min Scan# 2474
Delta R.T. 0.00 min
Lab File: DFL13F14.D
Acq: 07/14/2015 20:15

Tgt Ion:252 Resp: 308264

Ion	Ratio	Lower	Upper
252	100		
253	23.8	15.0	27.8
125	8.0	0.0	0.0#
0	0.0	0.0	0.0

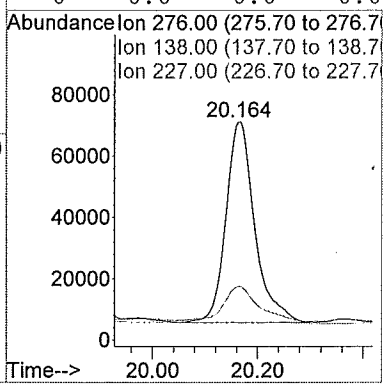


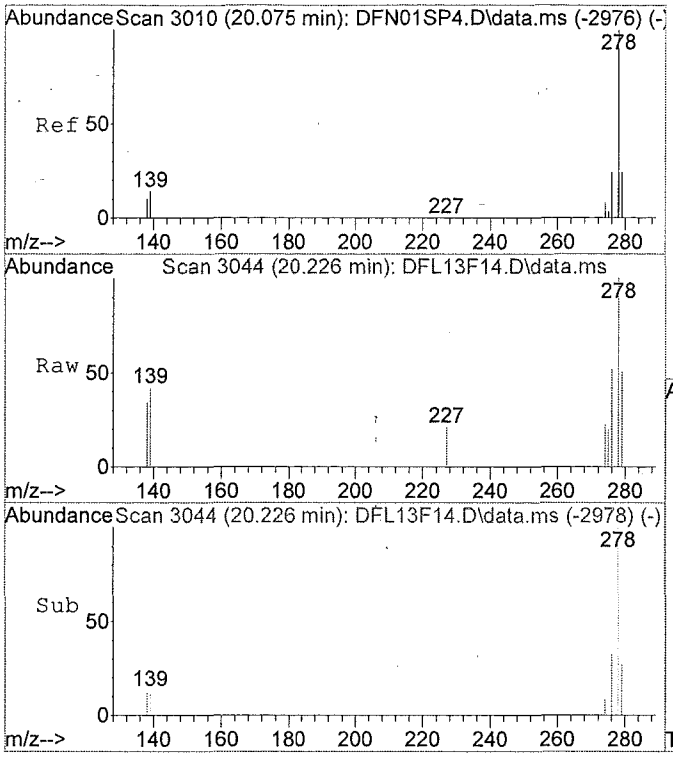


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.41 ug/ml
RT: 20.16 min Scan# 3030
Delta R.T. 0.01 min
Lab File: DFL13F14.D
Acq: 07/14/2015 20:15

Tgt Ion:276 Resp: 248391

Ion	Ratio	Lower	Upper
276	100		
138	21.0	0.0	0.0#
227	0.1	0.0	0.0#
0	0.0	0.0	0.0

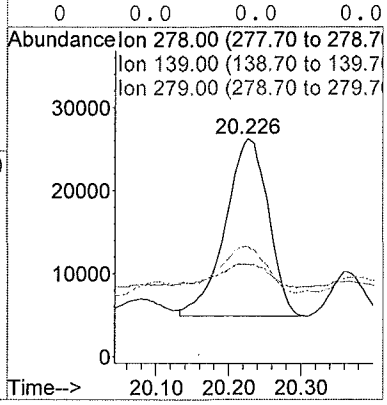


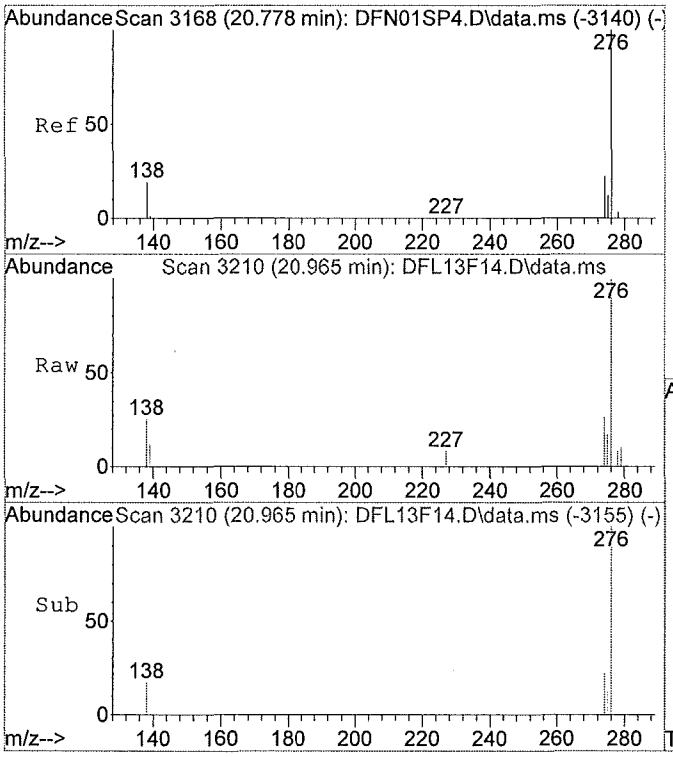


#24
Dibenzo(a,h)anthracene
Concen: 0.13 ug/ml
RT: 20.23 min Scan# 3044
Delta R.T. -0.00 min
Lab File: DFL13F14.D
Acq: 07/14/2015 20:15

Tgt Ion:278 Resp: 88171

Ion	Ratio	Lower	Upper
278	100		
139	15.5	0.0	0.0#
279	26.9	15.8	29.3
0	0.0	0.0	0.0

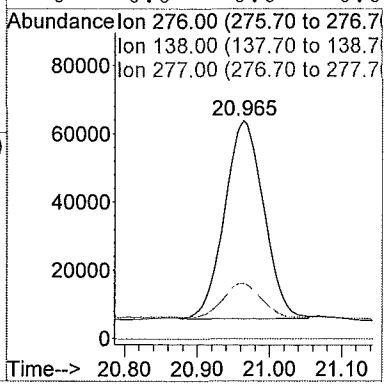




#25
Benzo(g,h,i)perylene
Concen: 0.32 ug/ml
RT: 20.96 min Scan# 3210
Delta R.T. 0.01 min
Lab File: DFL13F14.D
Acq: 07/14/2015 20:15

Tgt Ion:276 Resp: 217821

Ion	Ratio	Lower	Upper
276	100		
138	16.7	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.

F9M10

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375015

Sample wt/vol: 30.1 (g/mL) g Lab File ID: DFL14F15

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/14/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 100.0

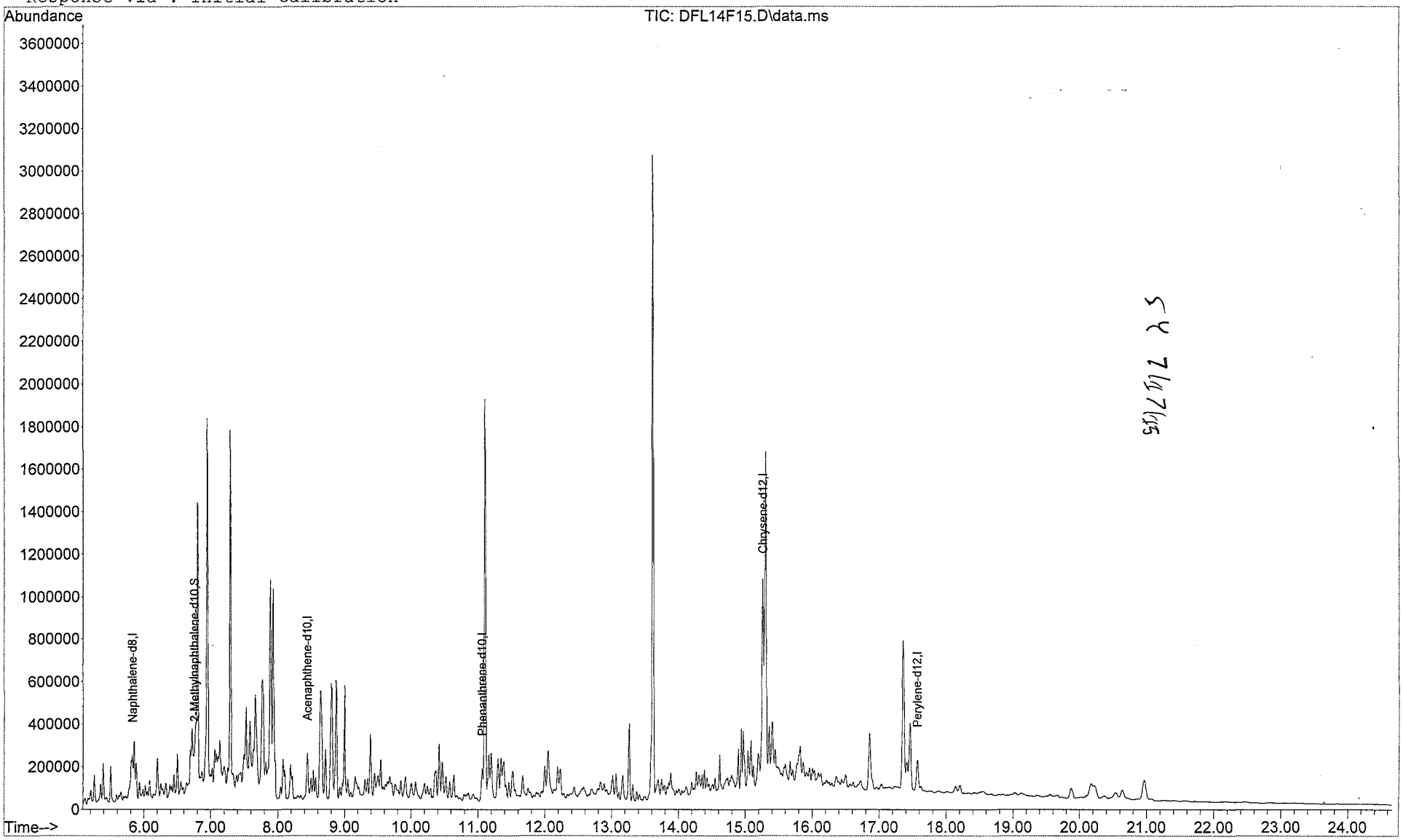
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1600	
91-57-6	2-Methylnaphthalene	8700	E
208-96-8	Acenaphthylene	370	U
83-32-9	Acenaphthene	370	U
86-73-7	Fluorene	1300	
87-86-5	Pentachlorophenol	760	U
85-01-8	Phenanthrene	14000	E
120-12-7	Anthracene	1300	
206-44-0	Fluoranthene	1800	
129-00-0	Pyrene	12000	E
56-55-3	Benzo(a)anthracene	3600	
218-01-9	Chrysene	6900	E
205-99-2	Benzo(b)fluoranthene	1600	
207-08-9	Benzo(k)fluoranthene	170	J
50-32-8	Benzo(a)pyrene	1900	
193-39-5	Indeno(1,2,3-cd)pyrene	1000	
53-70-3	Dibenzo(a,h)anthracene	670	
191-24-2	Benzo(g,h,i)perylene	1400	

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL14F15.D Vial: 14
Acq On : 07/14/2015 20:45 Operator: DJC
Sample : 1515375015 F9M10 (100) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 12:14:21 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



SY 7/17/15

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL14F15.D Vial: 14
Acq On : 07/14/2015 20:45 Operator: DJC
Sample : 1515375015 F9M10 (100) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 12:14:21 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

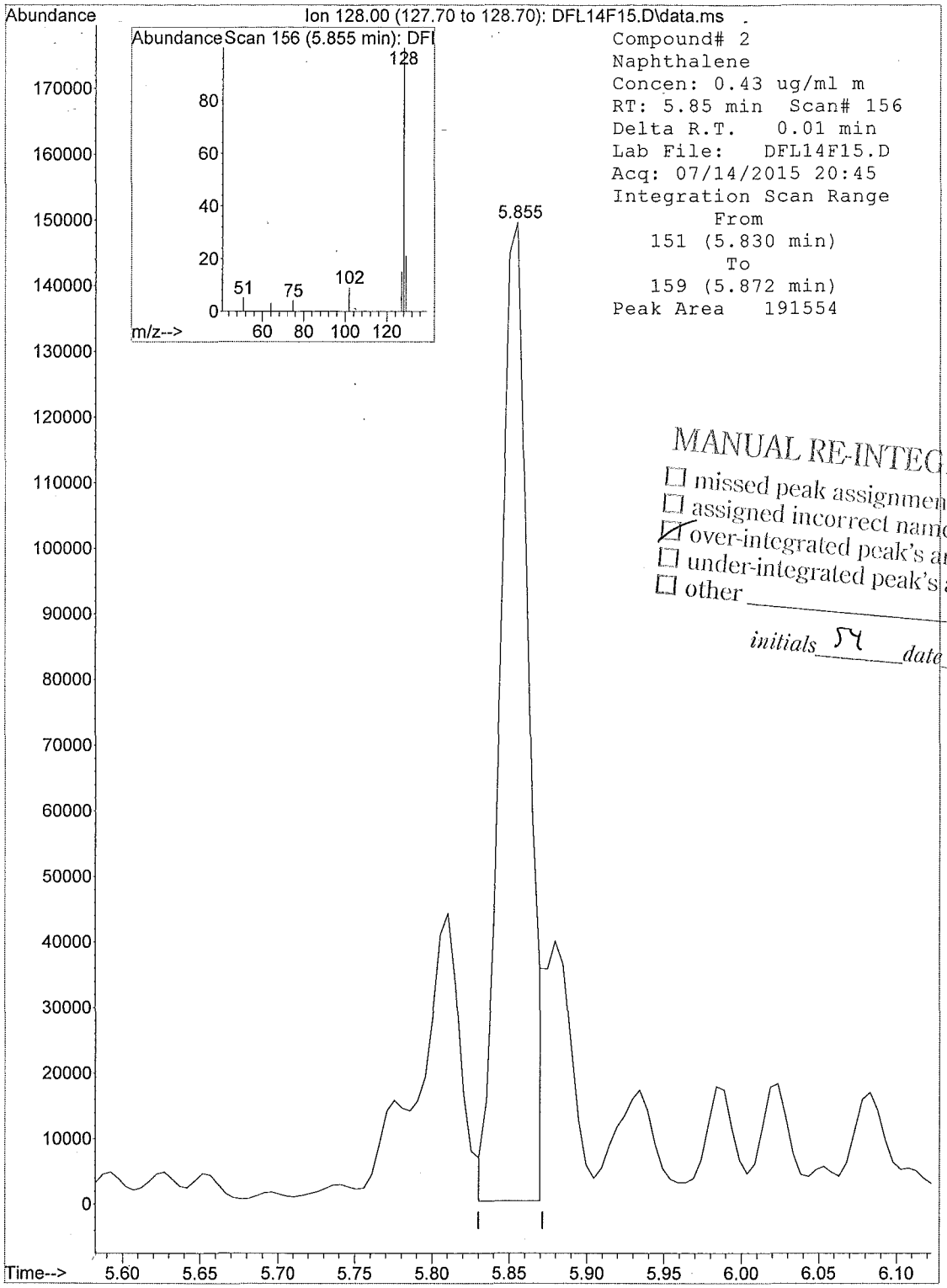
Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	5.83	136	169605	0.40 ug/ml
5) Acenaphthene-d10	8.44	164	119360	0.40 ug/ml
9) Phenanthrene-d10	11.06	188	190838	0.40 ug/ml
15) Chrysene-d12	15.27	240	235234	0.40 ug/ml
19) Perylene-d12	17.57	264	232004	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	6.74	152	20507	0.075ug/mL
13) Fluoranthene-d10	13.32	212	6338	0.012ug/mL

Target Compounds					Qvalue
2) Naphthalene	5.85	128	191554	0.433ug/ml	m54 99
4) 2-Methylnaphthalene	6.80	142	655297	2.301ug/ml	7/17/15 96
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	9.39	166	132155	0.341ug/ml	92
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.11	178	2046072	3.724ug/ml	98
12) Anthracene	11.20	178	191416	0.358ug/ml	65
14) Fluoranthene	13.26	202	299221	0.478ug/ml	95
16) Pyrene	13.61	202	2258098	3.059ug/ml	88
17) Benzo(a)anthracene	15.25	228	591545	0.943ug/ml	71
18) Chrysene	15.30	228	1208060	1.823ug/ml	85
20) Benzo(b)fluoranthene	16.85	252	315553	0.436ug/ml	m54 94
21) Benzo(k)fluoranthene	16.89	252	34451	0.046ug/ml	m 7/17/15 93
22) Benzo(a)pyrene	17.46	252	344777	0.499ug/ml	93
23) Indeno(1,2,3-c,d)pyrene	20.17	276	165838	0.274ug/ml	100
24) Dibenzo(a,h)anthracene	20.23	278	119185	0.178ug/ml	53
25) Benzo(g,h,i)perylene	20.96	276	250075	0.368ug/ml	67

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 01199

M A N U A L I N T E G R A T I O N FOR Naphthalene

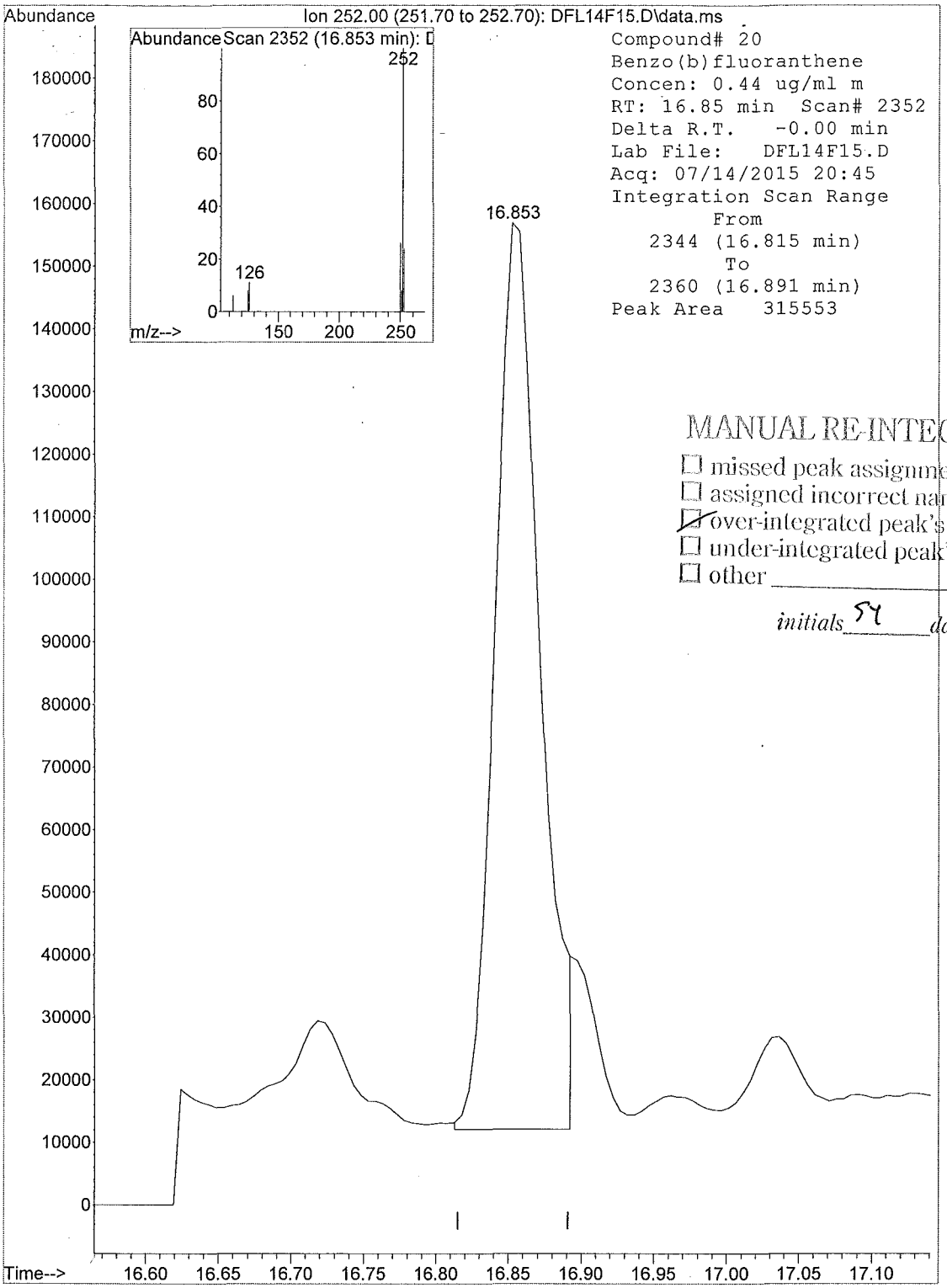


Compound# 2
Naphthalene
Concen: 0.43 ug/ml m
RT: 5.85 min Scan# 156
Delta R.T. 0.01 min
Lab File: DFL14F15.D
Acq: 07/14/2015 20:45
Integration Scan Range
From
151 (5.830 min)
To
159 (5.872 min)
Peak Area 191554

MANUAL RE-INTEGRATION
☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY date 7/17/15

M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene

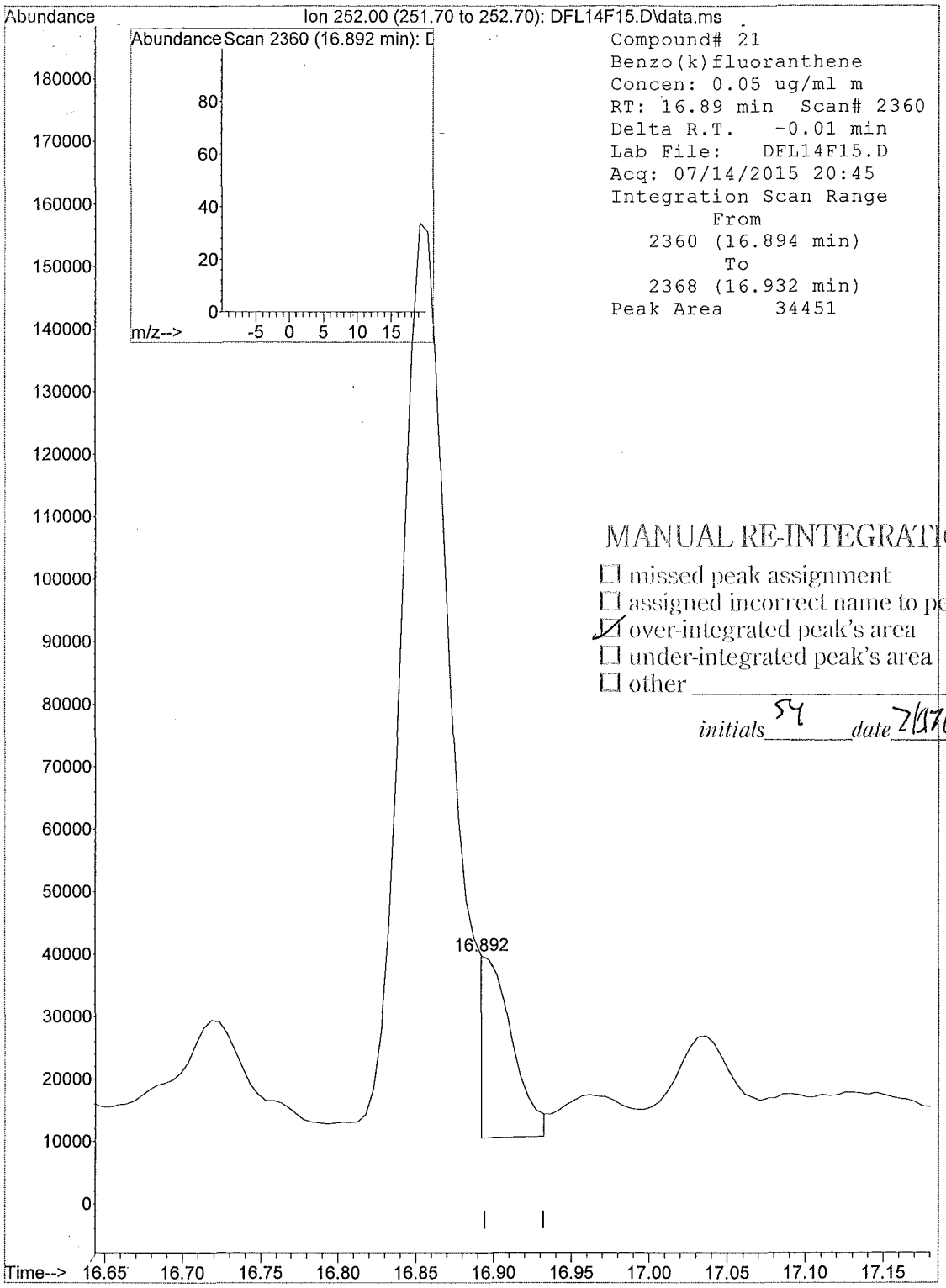


MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 7/17/15

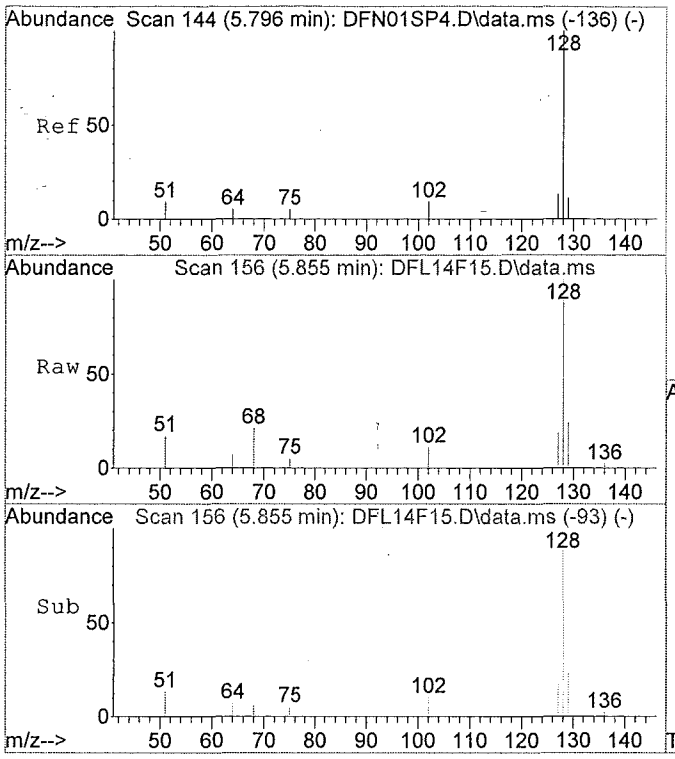
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

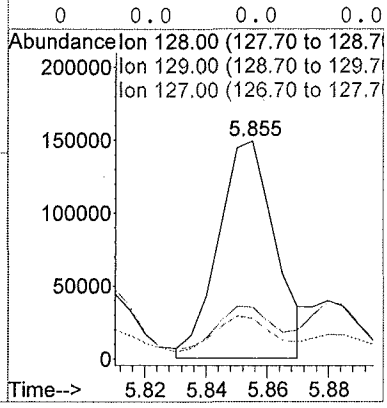
initials SY *date* 7/17/15

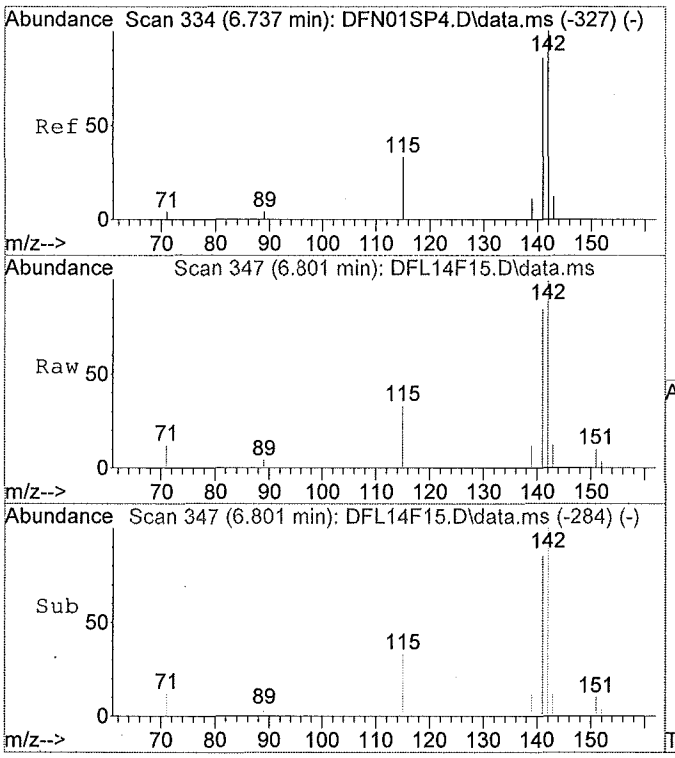


#2
Naphthalene
Concen: 0.43 ug/ml m
RT: 5.85 min Scan# 156
Delta R.T. 0.01 min
Lab File: DFL14F15.D
Acq: 07/14/2015 20:45

Tgt Ion:128 Resp: 191554

Ion	Ratio	Lower	Upper
128	100		
129	23.7	0.0	0.0#
127	18.3	11.1	20.5
0	0.0	0.0	0.0

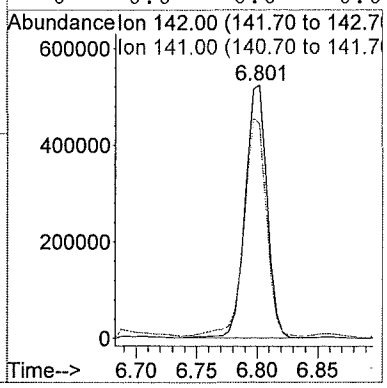


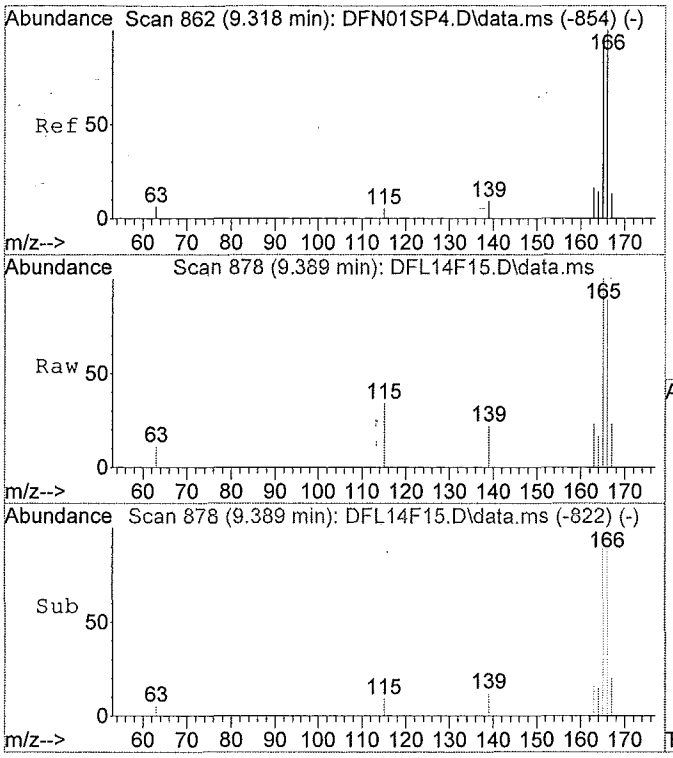


#4
2-Methylnaphthalene
Concen: 2.30 ug/ml
RT: 6.80 min Scan# 347
Delta R.T. 0.01 min
Lab File: DFL14F15.D
Acq: 07/14/2015 20:45

Tgt Ion:142 Resp: 655297

Ion	Ratio	Lower	Upper
142	100		
141	90.9	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

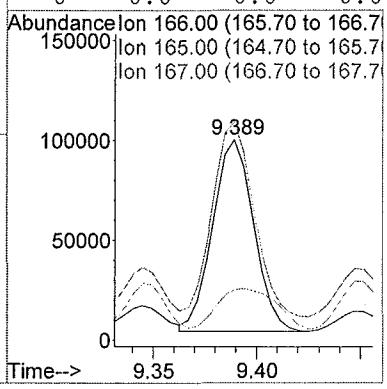


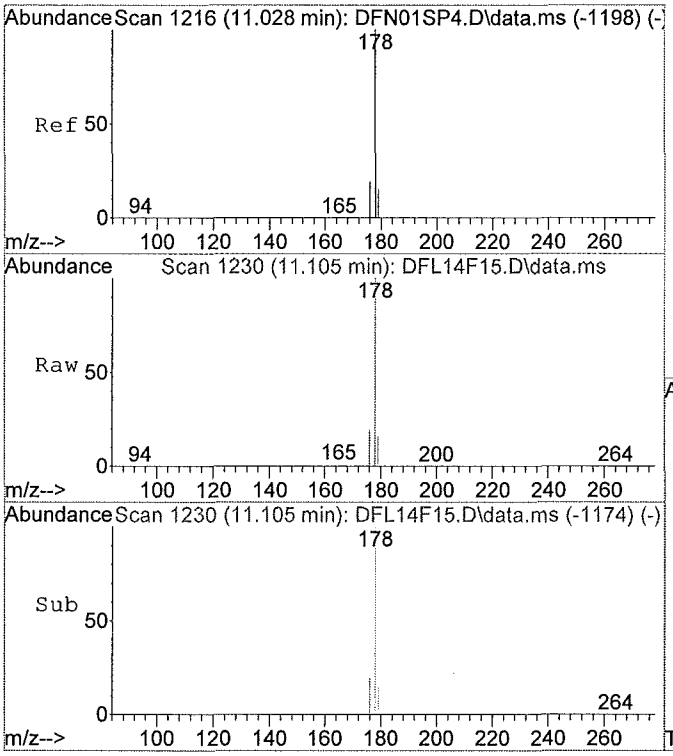


#8
Fluorene
Concen: 0.34 ug/ml
RT: 9.39 min Scan# 878
Delta R.T. 0.00 min
Lab File: DFL14F15.D
Acq: 07/14/2015 20:45

Tgt Ion:166 Resp: 132155

Ion	Ratio	Lower	Upper
166	100		
165	102.3	66.3	123.1
167	29.9	0.0	0.0#
0	0.0	0.0	0.0

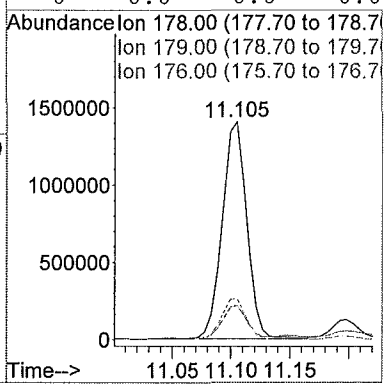


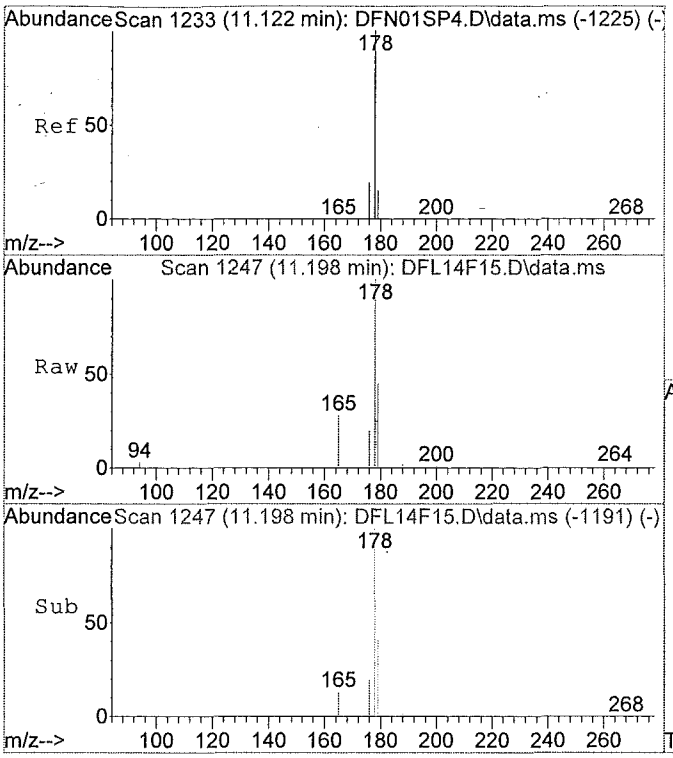


#11
Phenanthrene
Concen: 3.72 ug/ml
RT: 11.11 min Scan# 1230
Delta R.T. 0.01 min
Lab File: DFL14F15.D
Acq: 07/14/2015 20:45

Tgt Ion:178 Resp: 2046072

Ion	Ratio	Lower	Upper
178	100		
179	15.1	11.1	20.5
176	19.4	14.1	26.1
0	0.0	0.0	0.0

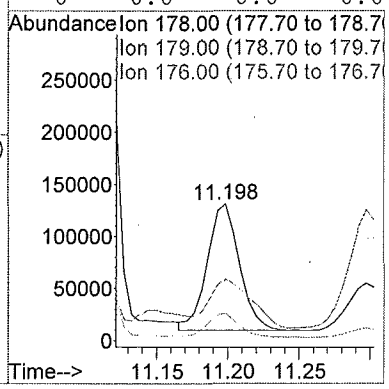


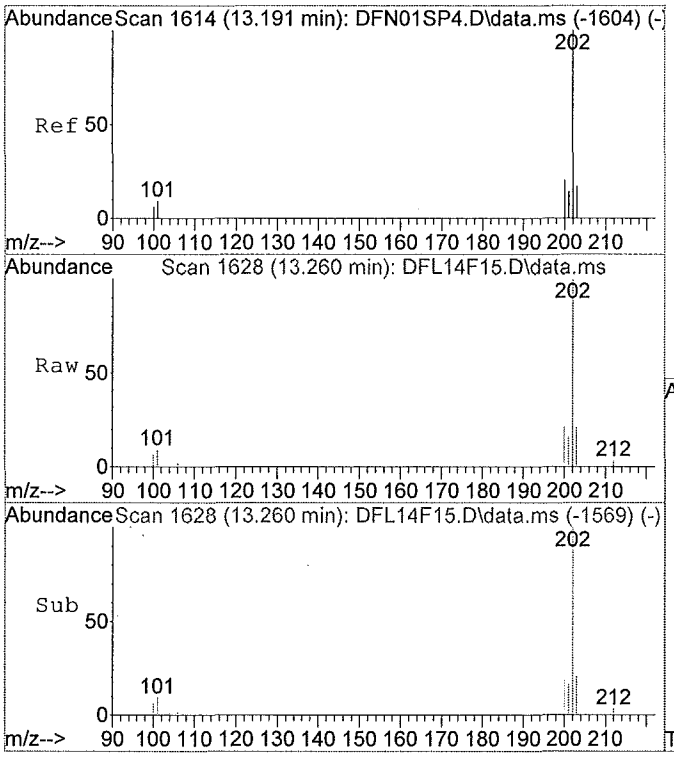


#12
Anthracene
Concen: 0.36 ug/ml
RT: 11.20 min Scan# 1247
Delta R.T. 0.01 min
Lab File: DFL14F15.D
Acq: 07/14/2015 20:45

Tgt Ion:178 Resp: 191416

Ion	Ratio	Lower	Upper
178	100		
179	48.7	11.6	21.6#
176	19.1	13.9	25.7
0	0.0	0.0	0.0

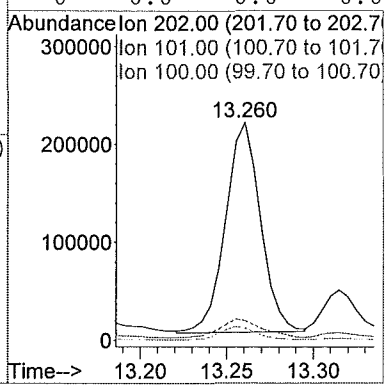


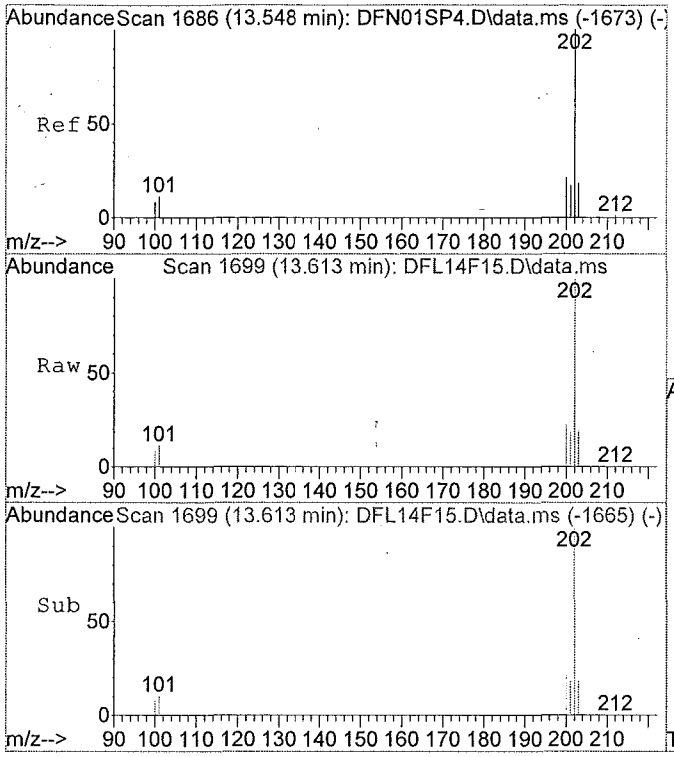


#14
Fluoranthene
Concen: 0.48 ug/ml
RT: 13.26 min Scan# 1628
Delta R.T. 0.00 min
Lab File: DFL14F15.D
Acq: 07/14/2015 20:45

Tgt Ion:202 Resp: 299221

Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.4	17.6
100	6.6	0.0	0.0#
0	0.0	0.0	0.0

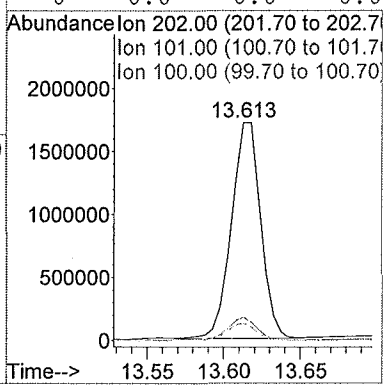


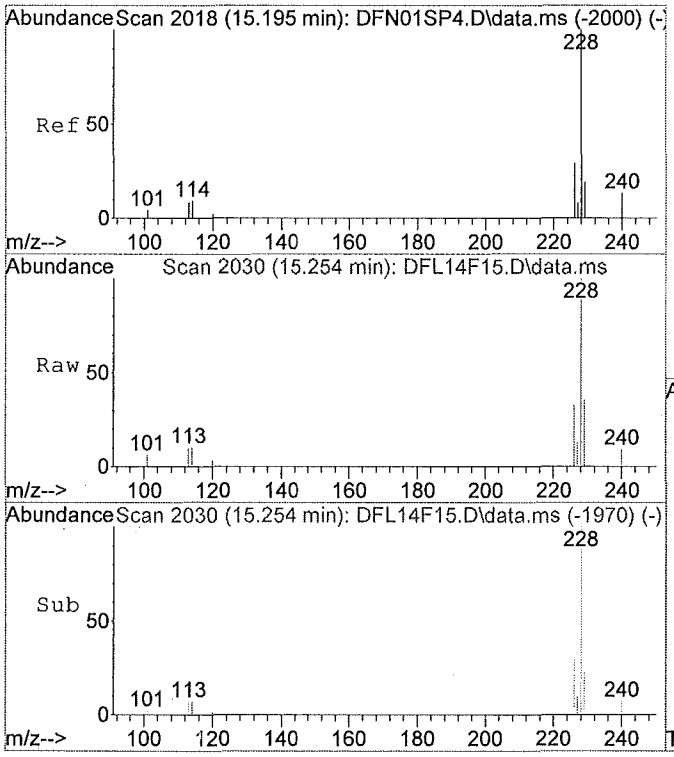


#16
Pyrene
Concen: 3.06 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. -0.00 min
Lab File: DFL14F15.D
Acq: 07/14/2015 20:45

Tgt Ion:202 Resp: 2258098

Ion	Ratio	Lower	Upper
202	100		
101	10.2	10.6	19.6#
100	8.3	9.4	17.4#
0	0.0	0.0	0.0

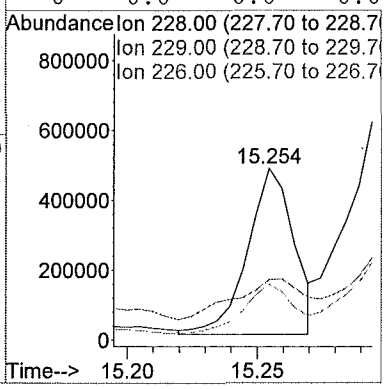


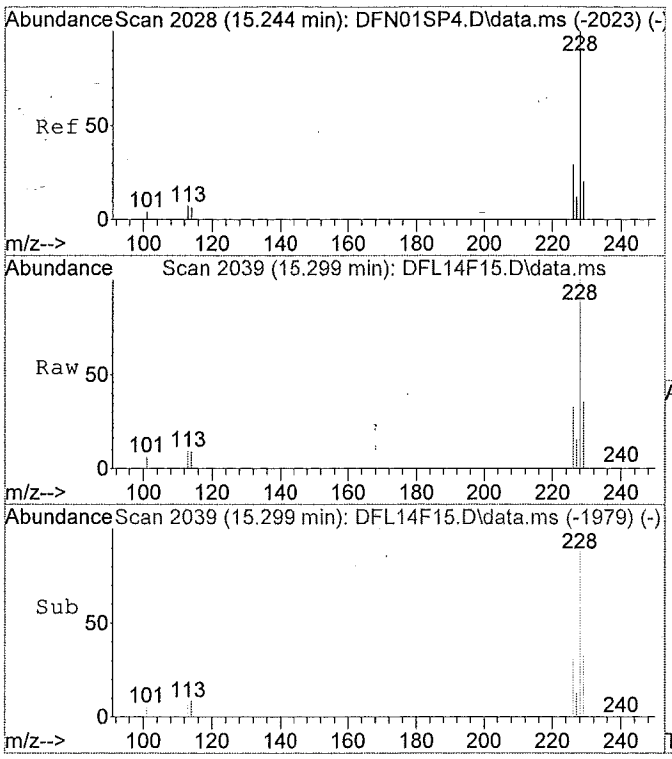


#17
Benzo(a)anthracene
Concen: 0.94 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. -0.00 min
Lab File: DFL14F15.D
Acq: 07/14/2015 20:45

Tgt Ion:228 Resp: 591545

Ion	Ratio	Lower	Upper
228	100		
229	45.2	14.5	26.9#
226	31.4	18.5	34.3
0	0.0	0.0	0.0

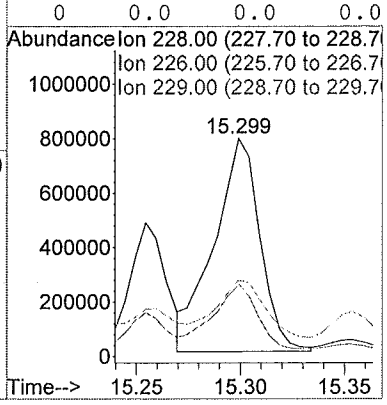


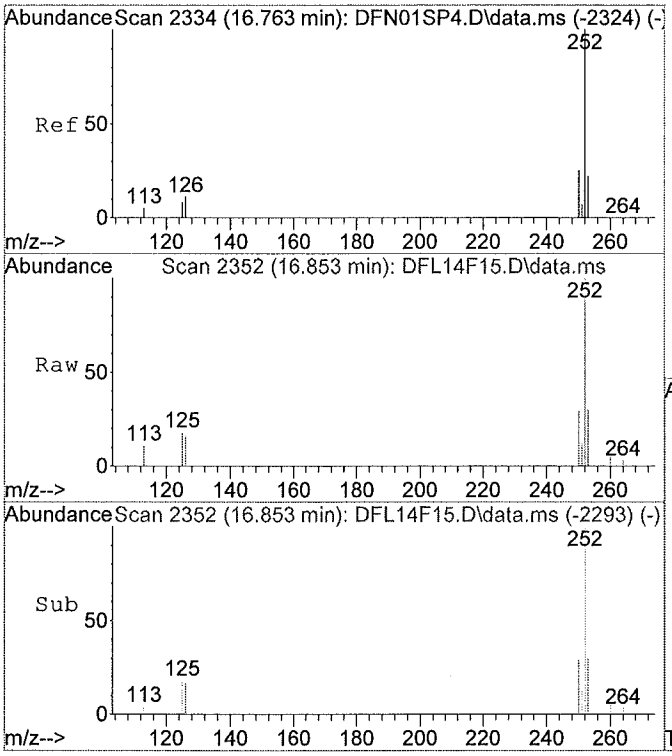


#18
Chrysene
Concen: 1.82 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. -0.00 min
Lab File: DFL14F15.D
Acq: 07/14/2015 20:45

Tgt Ion:228 Resp: 1208060

Ion	Ratio	Lower	Upper
228	100		
226	31.5	19.7	36.7
229	33.4	14.5	26.9#
0	0.0	0.0	0.0

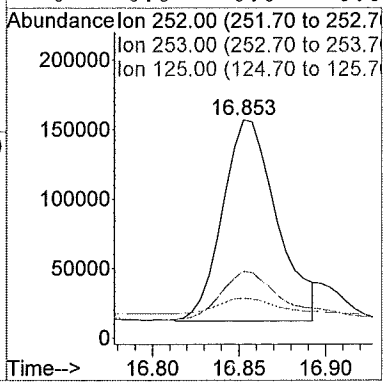


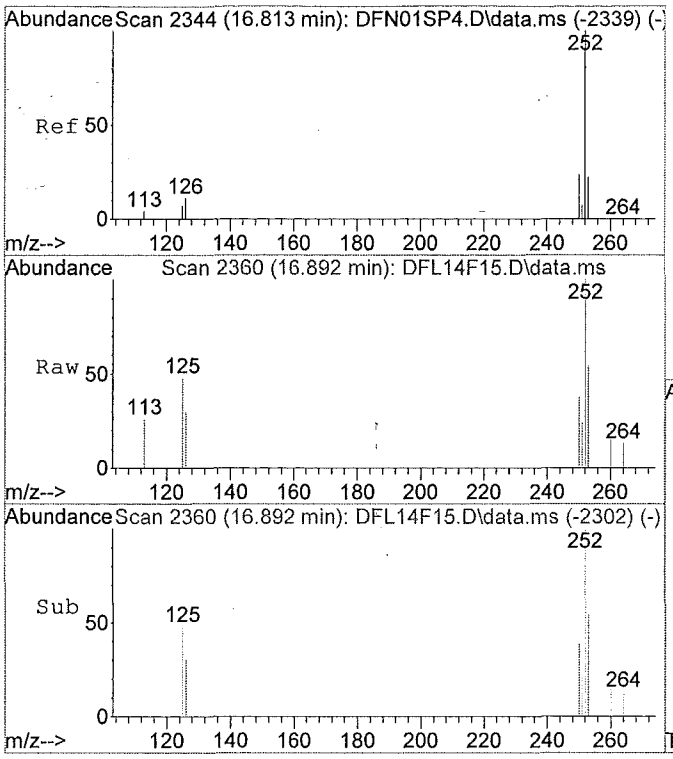


#20
Benzo(b)fluoranthene
Concen: 0.44 ug/ml m
RT: 16.85 min Scan# 2352
Delta R.T. -0.00 min
Lab File: DFL14F15.D
Acq: 07/14/2015 20:45

Tgt Ion:252 Resp: 315553

Ion	Ratio	Lower	Upper
252	100		
253	26.5	15.3	28.3
125	9.7	0.0	0.0#
0	0.0	0.0	0.0

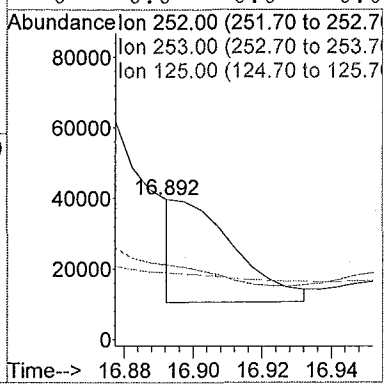


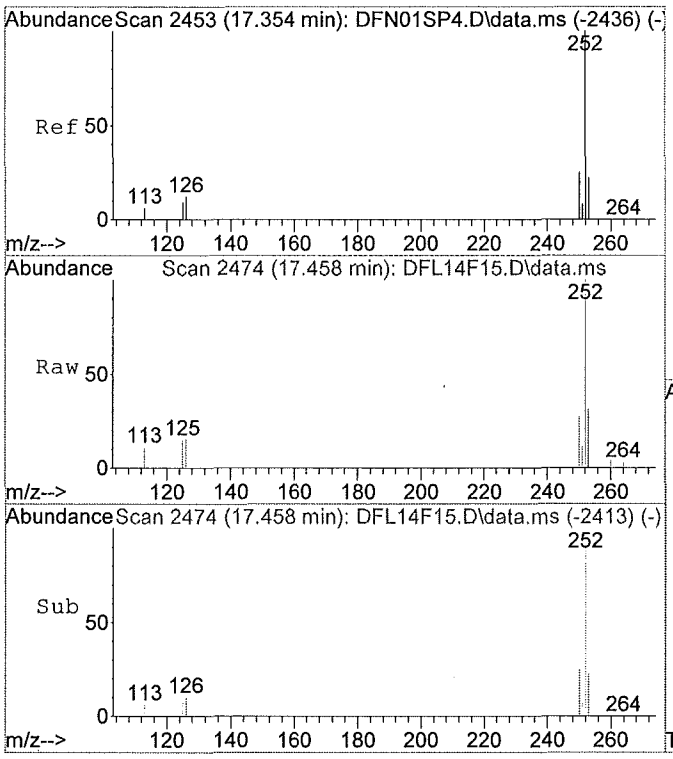


#21
Benzo(k)fluoranthene
Concen: 0.05 ug/ml m
RT: 16.89 min Scan# 2360
Delta R.T. -0.01 min
Lab File: DFL14F15.D
Acq: 07/14/2015 20:45

Tgt Ion:252 Resp: 34451

Ion	Ratio	Lower	Upper
252	100		
253	242.6	15.0	27.8#
125	88.9	0.0	0.0#
0	0.0	0.0	0.0

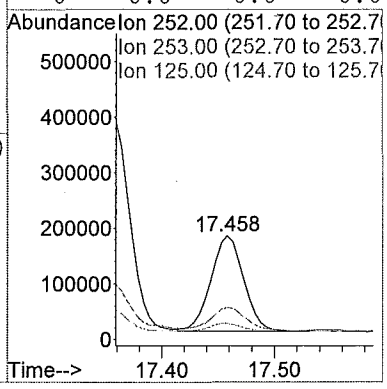


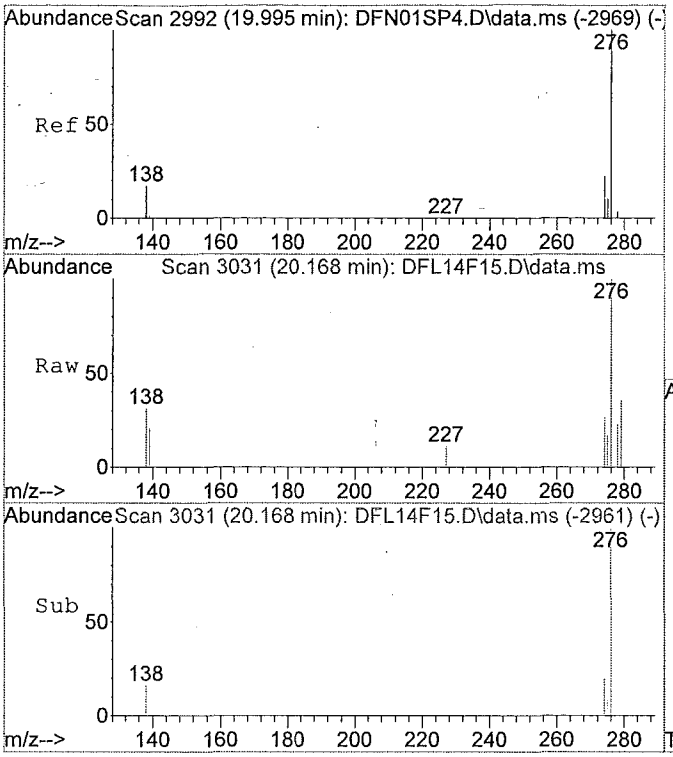


#22
Benzo(a)pyrene
Concen: 0.50 ug/ml
RT: 17.46 min Scan# 2474
Delta R.T. 0.00 min
Lab File: DFL14F15.D
Acq: 07/14/2015 20:45

Tgt Ion:252 Resp: 344777

Ion	Ratio	Lower	Upper
252	100		
253	24.7	15.0	27.8
125	7.6	0.0	0.0#
0	0.0	0.0	0.0

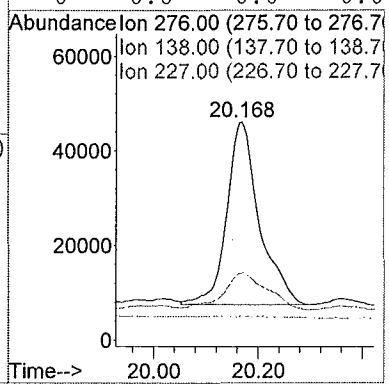


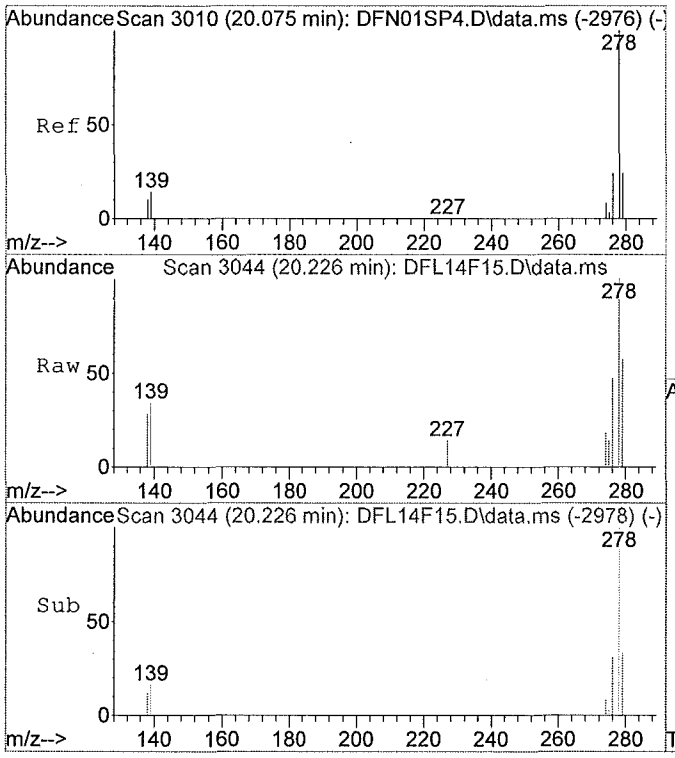


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.27 ug/ml
RT: 20.17 min Scan# 3031
Delta R.T. 0.01 min
Lab File: DFL14F15.D
Acq: 07/14/2015 20:45

Tgt Ion:276 Resp: 165838

Ion	Ratio	Lower	Upper
276	100		
138	27.7	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

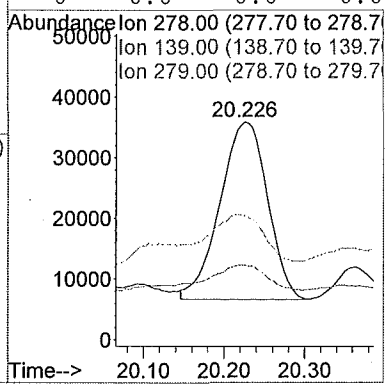


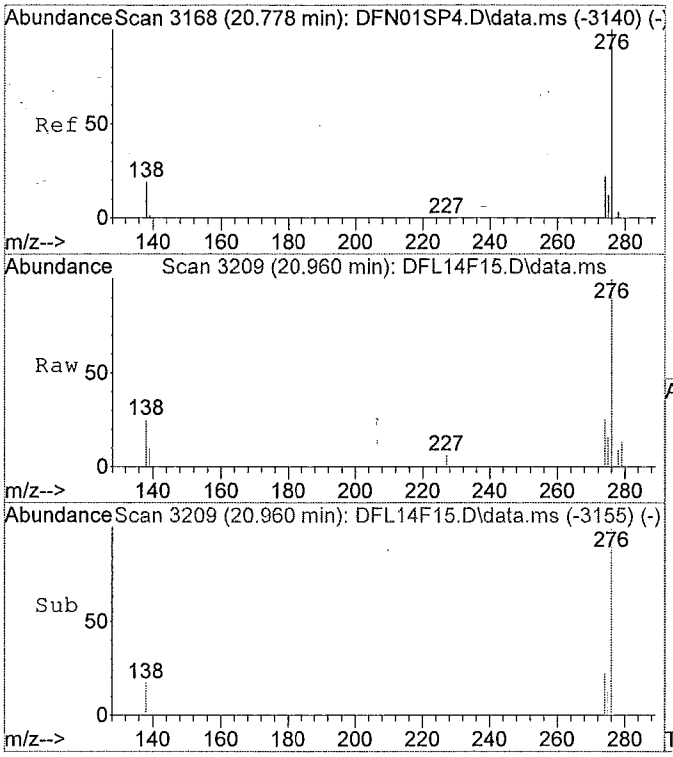


#24
Dibenzo(a,h)anthracene
Concen: 0.18 ug/ml
RT: 20.23 min Scan# 3044
Delta R.T. -0.00 min
Lab File: DFL14F15.D
Acq: 07/14/2015 20:45

Tgt Ion:278 Resp: 119185

Ion	Ratio	Lower	Upper
278	100		
139	16.5	0.0	0.0#
279	0.0	15.8	29.3#
0	0.0	0.0	0.0

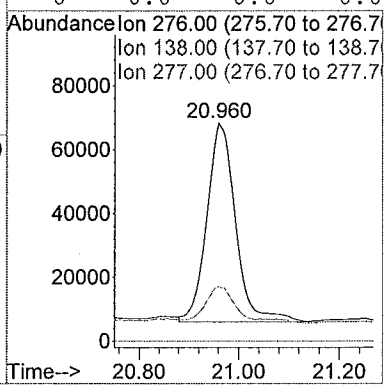




#25
Benzo(g,h,i)perylene
Concen: 0.37 ug/ml
RT: 20.96 min Scan# 3209
Delta R.T. 0.01 min
Lab File: DFL14F15.D
Acq: 07/14/2015 20:45

Tgt Ion:276 Resp: 250075

Ion	Ratio	Lower	Upper
276	100		
138	15.0	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.

F9M11

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375016

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL15F16

Extraction: (Type) SONC

% Moisture: 12. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/14/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 50.0

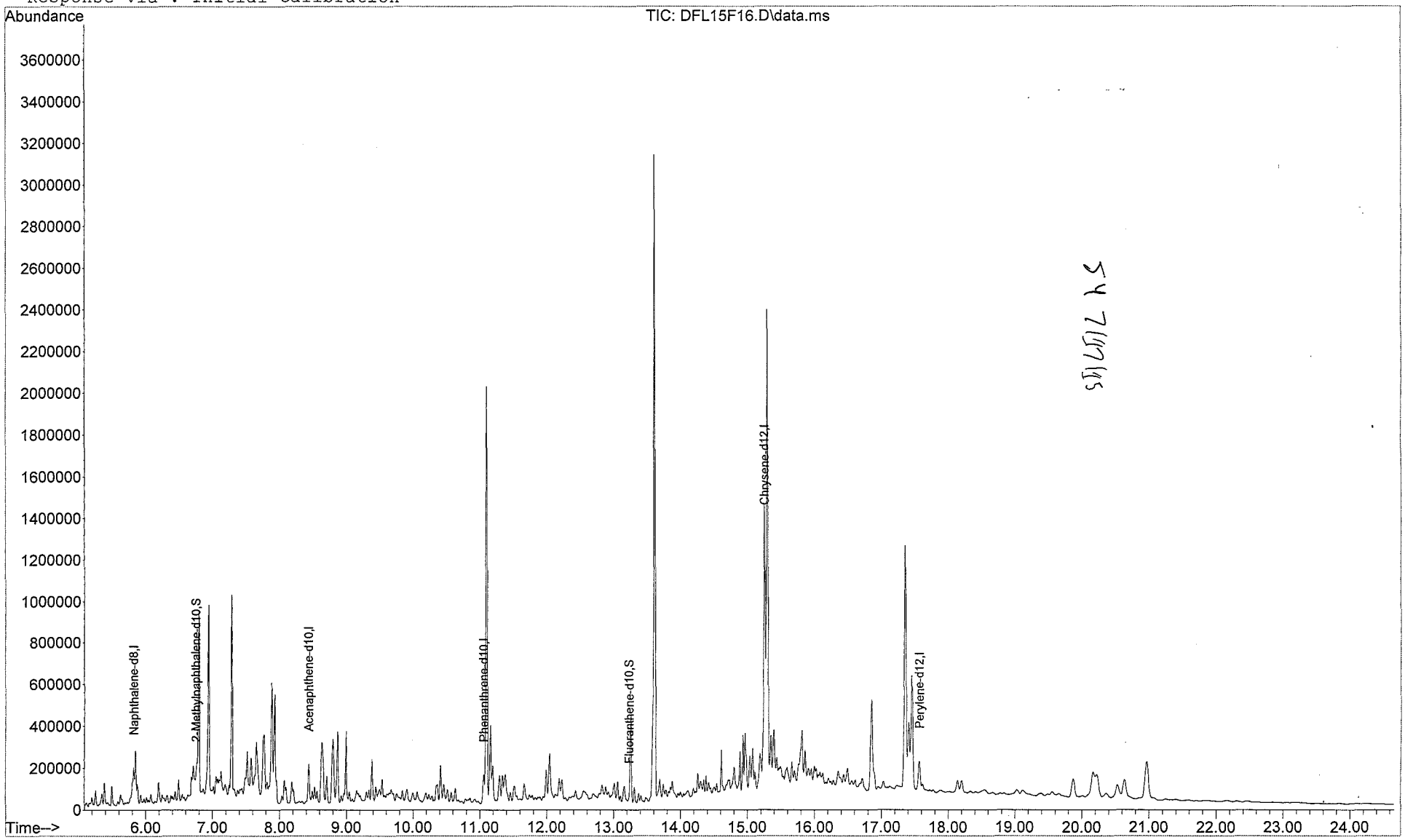
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	840	
91-57-6	2-Methylnaphthalene	3000	E
208-96-8	Acenaphthylene	190	U
83-32-9	Acenaphthene	170	J
86-73-7	Fluorene	480	
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	7900	E
120-12-7	Anthracene	610	
206-44-0	Fluoranthene	1100	
129-00-0	Pyrene	6200	E
56-55-3	Benzo(a)anthracene	2700	E
218-01-9	Chrysene	5000	E
205-99-2	Benzo(b)fluoranthene	1400	
207-08-9	Benzo(k)fluoranthene	110	J
50-32-8	Benzo(a)pyrene	1700	
193-39-5	Indeno(1,2,3-cd)pyrene	910	
53-70-3	Dibenzo(a,h)anthracene	600	
191-24-2	Benzo(g,h,i)perylene	1300	

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL15F16.D Vial: 15
Acq On : 07/14/2015 21:15 Operator: DJC
Sample : 1515375016 F9M11 (50) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 12:15:12 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL15F16.D Vial: 15
Acq On : 07/14/2015 21:15 Operator: DJC
Sample : 1515375016 F9M11 (50) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 12:15:12 2015 Results File: DSOM_SIMJ2.RES

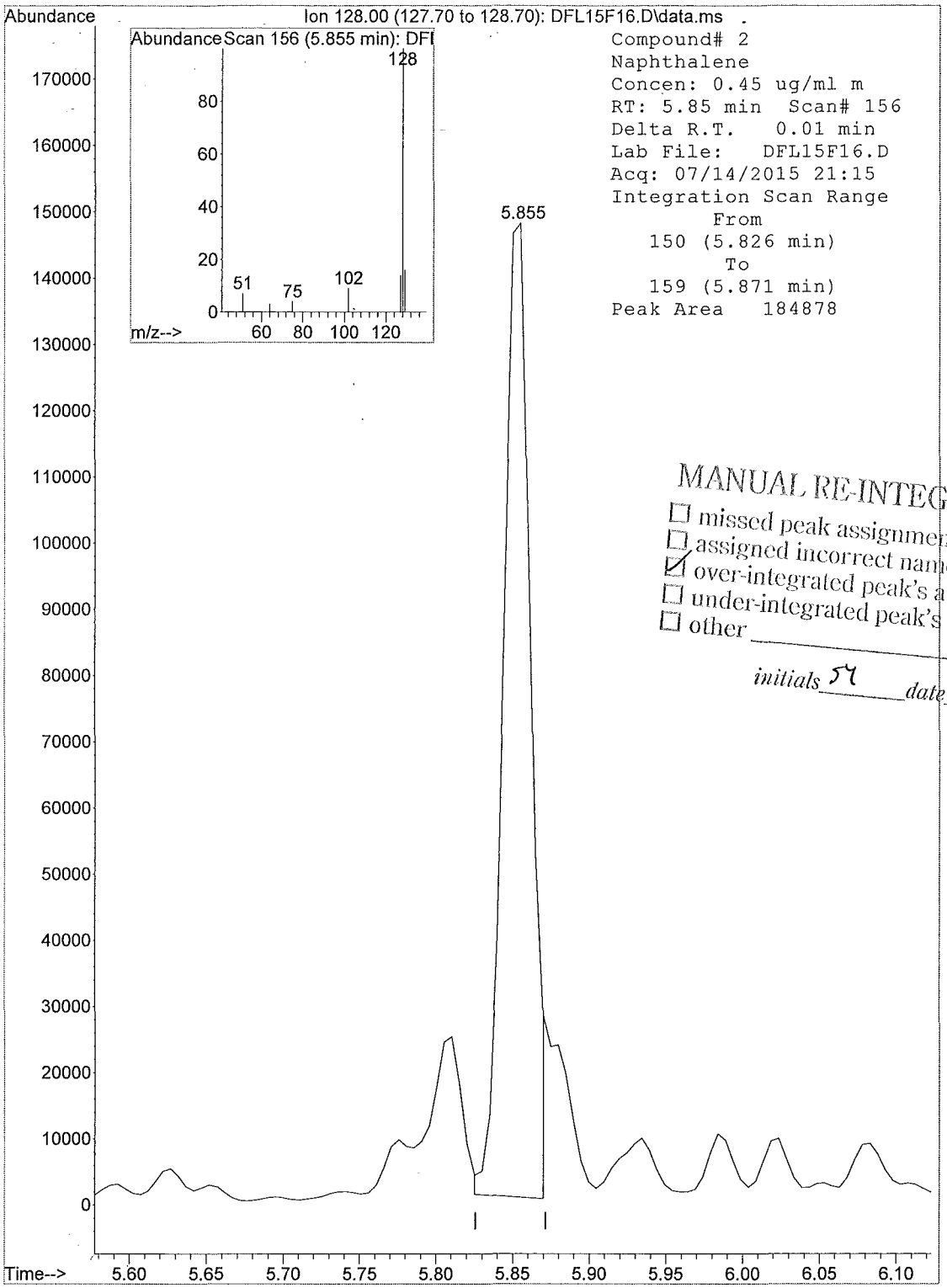
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	157625	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	108353	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	179883	0.40 ug/ml	
15) Chrysene-d12	15.27	240	221965	0.40 ug/ml	
19) Perylene-d12	17.57	264	228188	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	13498	0.053ug/mL	
13) Fluoranthene-d10	13.23	212	18610	0.038ug/mL	m 7/15/15
Target Compounds					Qvalue
2) Naphthalene	5.85	128	184878	0.450ug/ml	m 7/15/15 92
4) 2-Methylnaphthalene	6.80	142	422924	1.598ug/ml	97
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	8.50	153	27106	0.089ug/ml	90
8) Fluorene	9.39	166	90087	0.256ug/ml	93
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.11	178	2183243	4.216ug/ml	98
12) Anthracene	11.20	178	163581	0.325ug/ml	78
14) Fluoranthene	13.26	202	346923	0.588ug/ml	92
16) Pyrene	13.61	202	2290807	3.289ug/ml	88
17) Benzo(a)anthracene	15.25	228	848126	1.433ug/ml	78
18) Chrysene	15.30	228	1649655	2.638ug/ml	89
20) Benzo(b)fluoranthene	16.85	252	533262	0.750ug/ml	m 7/15/15 94
21) Benzo(k)fluoranthene	16.90	252	41529	0.056ug/ml	m 93
22) Benzo(a)pyrene	17.46	252	617115	0.908ug/ml	96
23) Indeno(1,2,3-c,d)pyrene	20.17	276	288641	0.485ug/ml	100
24) Dibenzo(a,h)anthracene	20.23	278	209884	0.319ug/ml	33
25) Benzo(g,h,i)perylene	20.97	276	456802	0.683ug/ml	72

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 041203

M A N U A L I N T E G R A T I O N FOR Naphthalene

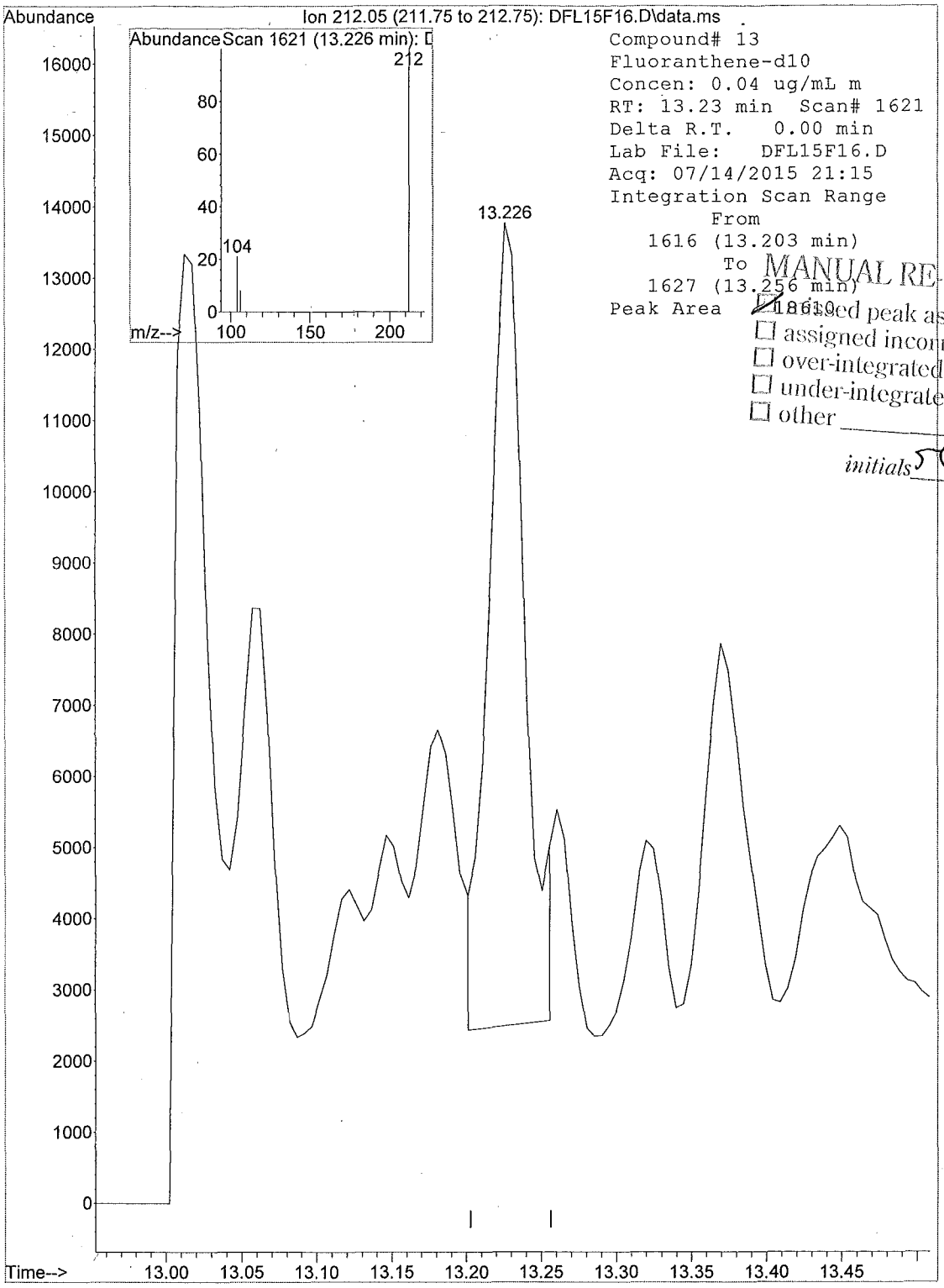


Compound# 2
Naphthalene
Concen: 0.45 ug/ml m
RT: 5.85 min Scan# 156
Delta R.T. 0.01 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15
Integration Scan Range
From
150 (5.826 min)
To
159 (5.871 min)
Peak Area 184878

MANUAL RE-INTEGRATION
☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/17/15

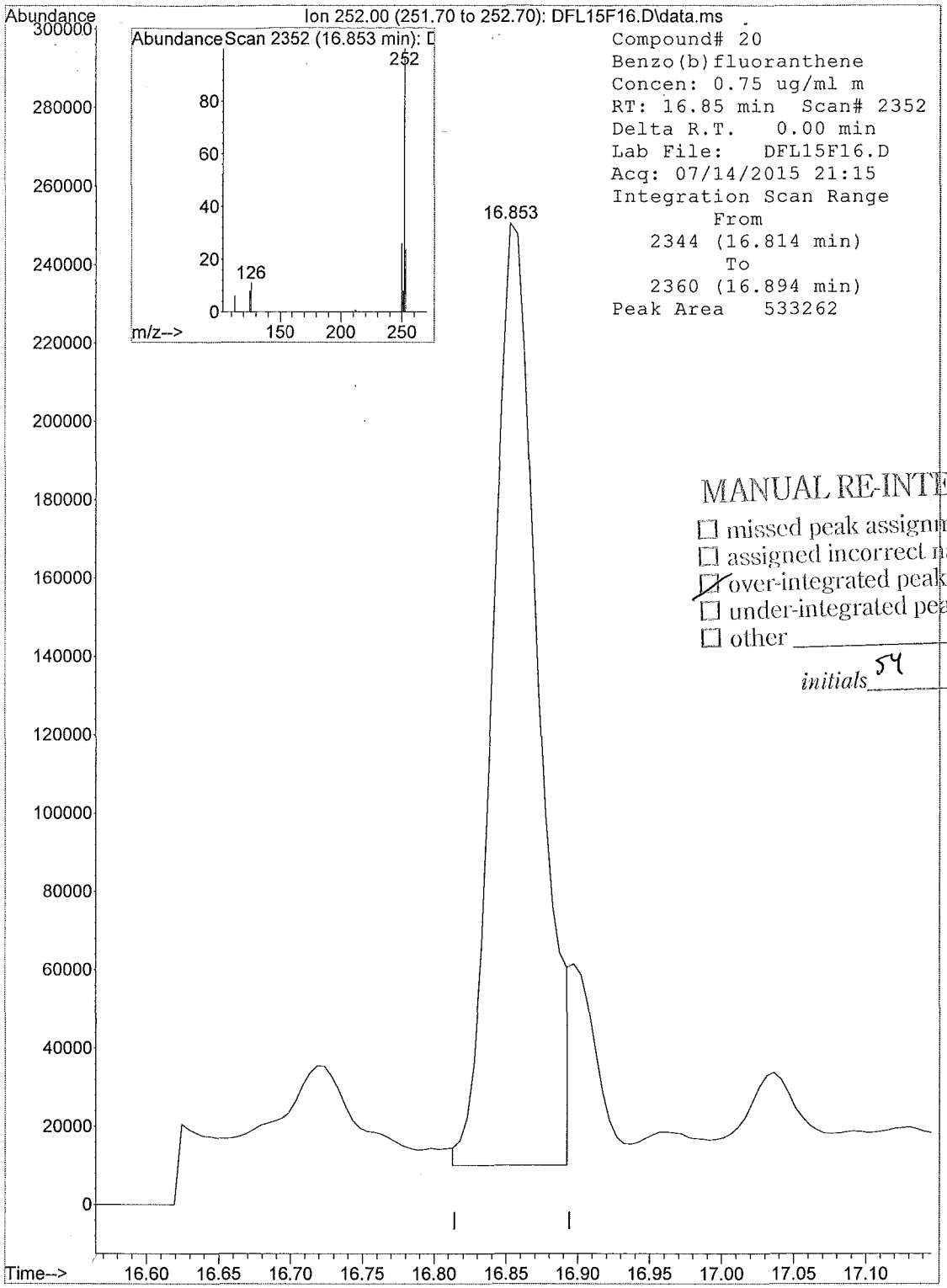
M A N U A L I N T E G R A T I O N FOR Fluoranthene-d10



Compound# 13
Fluoranthene-d10
Concen: 0.04 ug/mL m
RT: 13.23 min Scan# 1621
Delta R.T. 0.00 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15
Integration Scan Range
From
1616 (13.203 min)
To
1627 (13.256 min)
Peak Area 18610

MANUAL RE-INTEGRATION
☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____
initials ST date 7/17/15

M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene

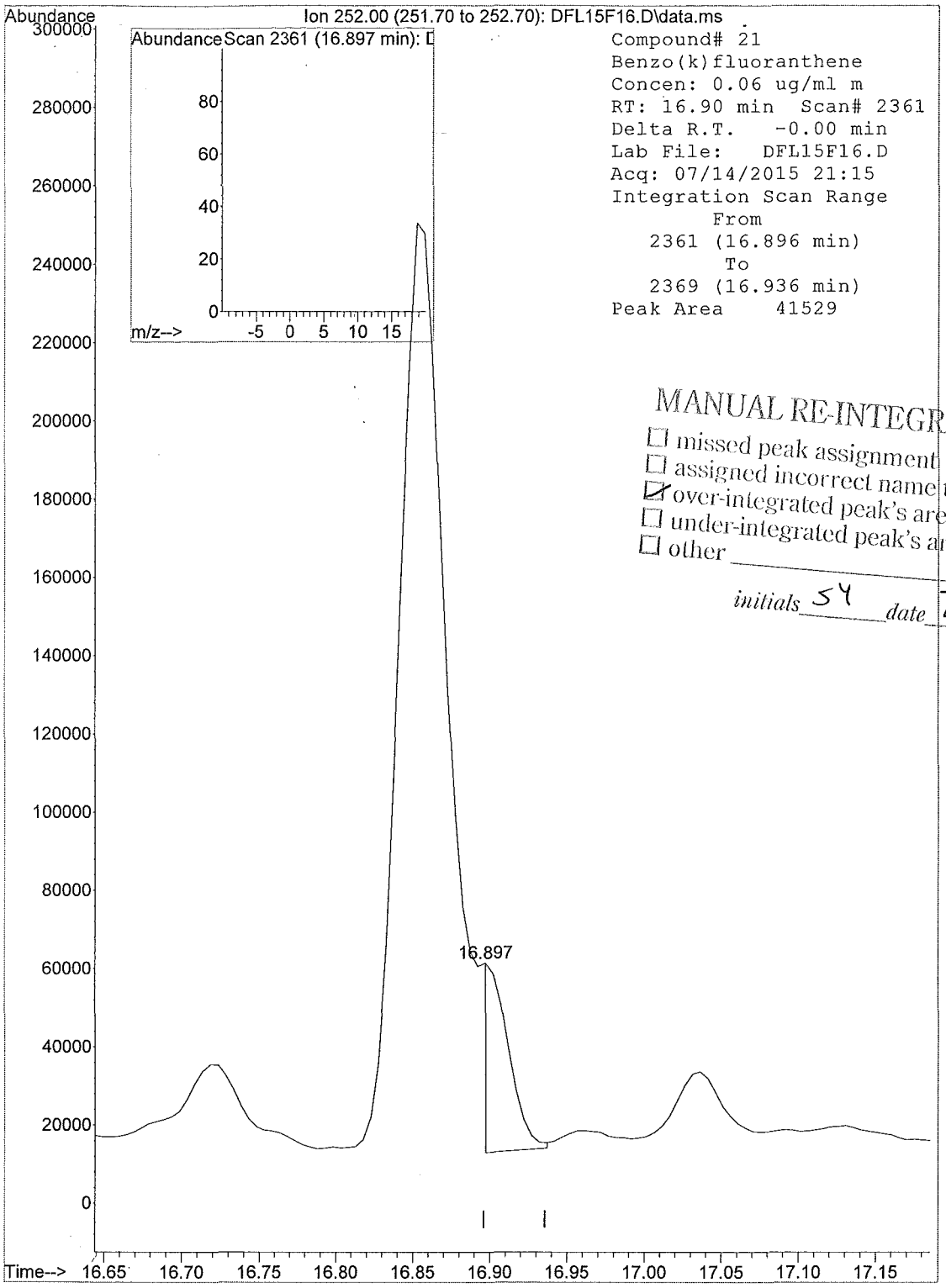


MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/17/15

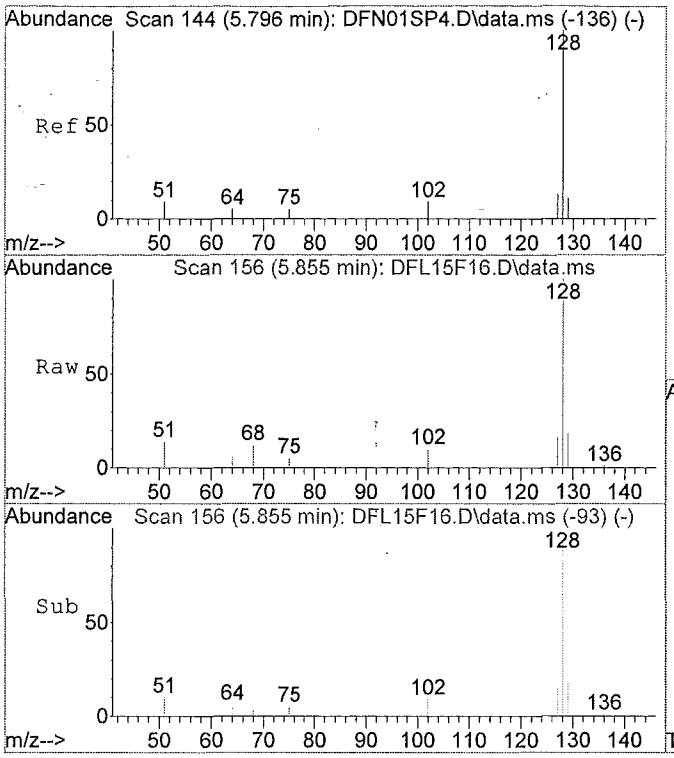
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

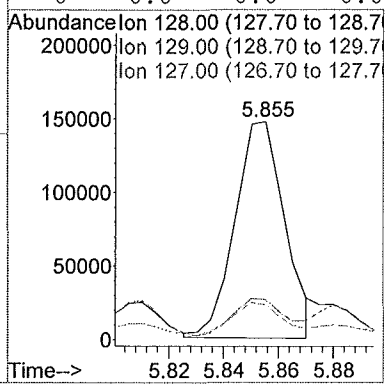
initials SY *date* 7/17/15

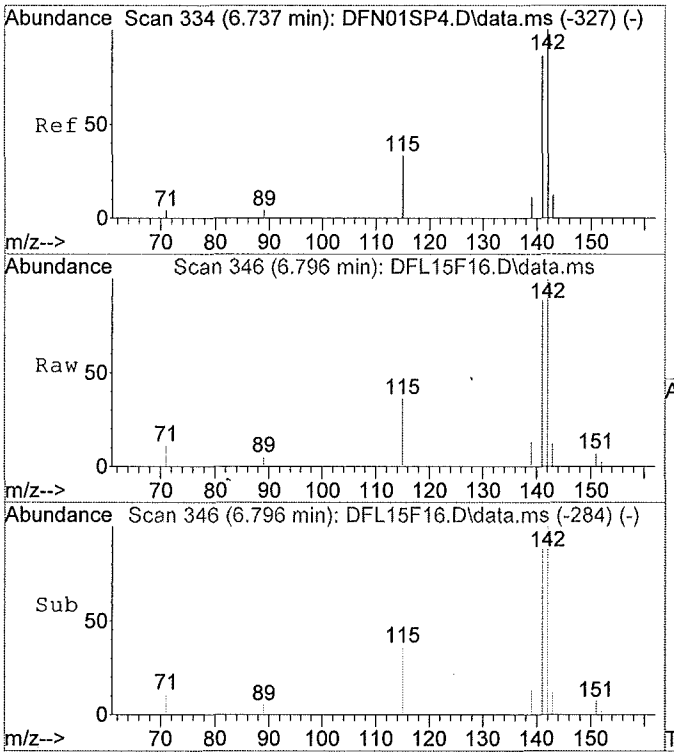


#2
Naphthalene
Concen: 0.45 ug/ml m
RT: 5.85 min Scan# 156
Delta R.T. 0.01 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15

Tgt Ion:128 Resp: 184878

Ion	Ratio	Lower	Upper
128	100		
129	17.7	0.0	0.0#
127	13.8	11.1	20.5
0	0.0	0.0	0.0

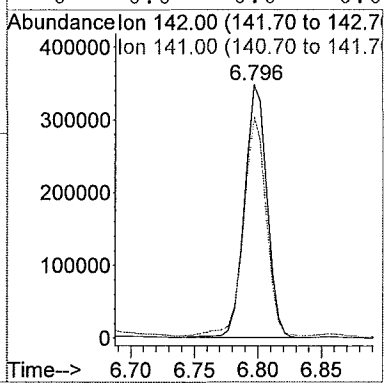


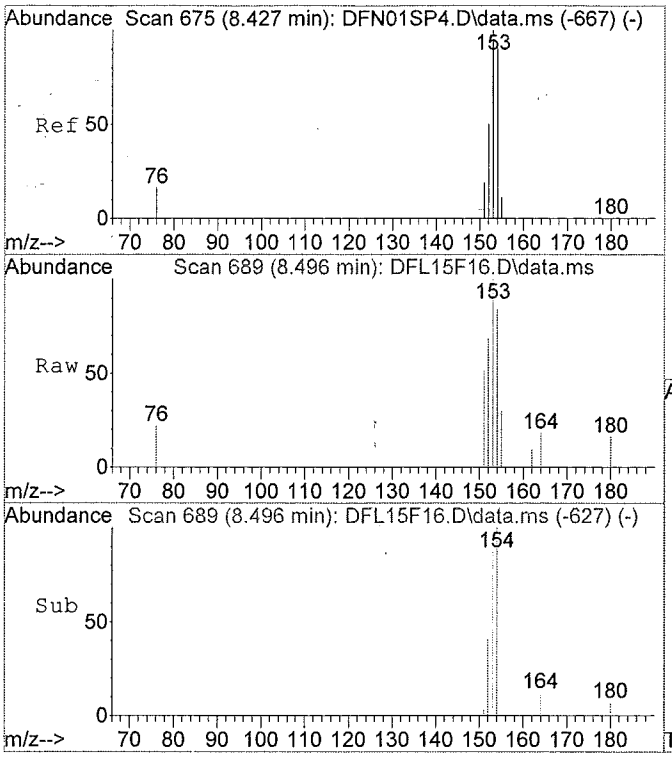


#4
2-Methylnaphthalene
Concen: 1.60 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.00 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15

Tgt Ion:142 Resp: 422924

Ion	Ratio	Lower	Upper
142	100		
141	90.4	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

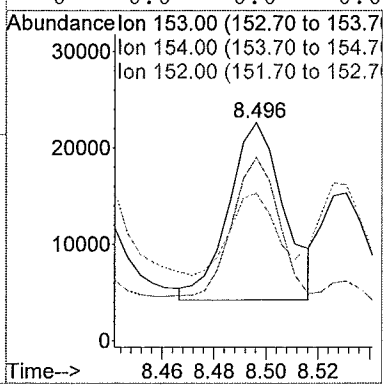


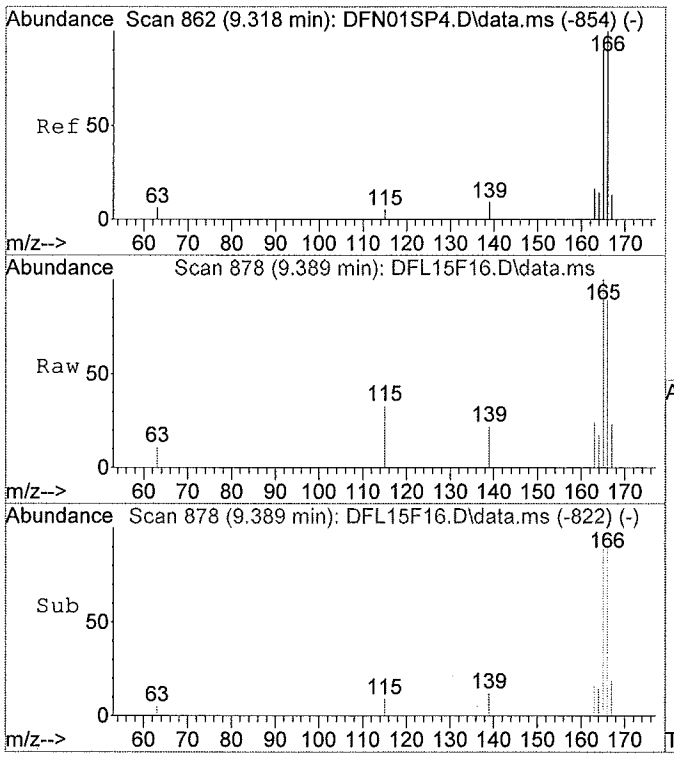


#7
Acenaphthene
Concen: 0.09 ug/ml
RT: 8.50 min Scan# 689
Delta R.T. 0.00 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15

Tgt Ion:153 Resp: 27106

Ion	Ratio	Lower	Upper
153	100		
154	86.9	65.1	120.9
152	61.6	35.2	65.4
0	0.0	0.0	0.0

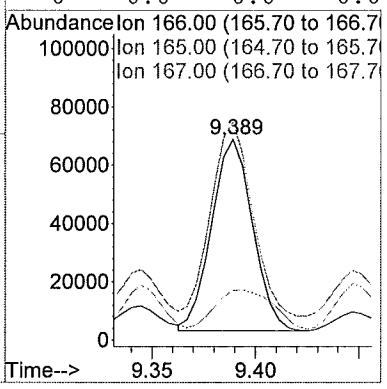


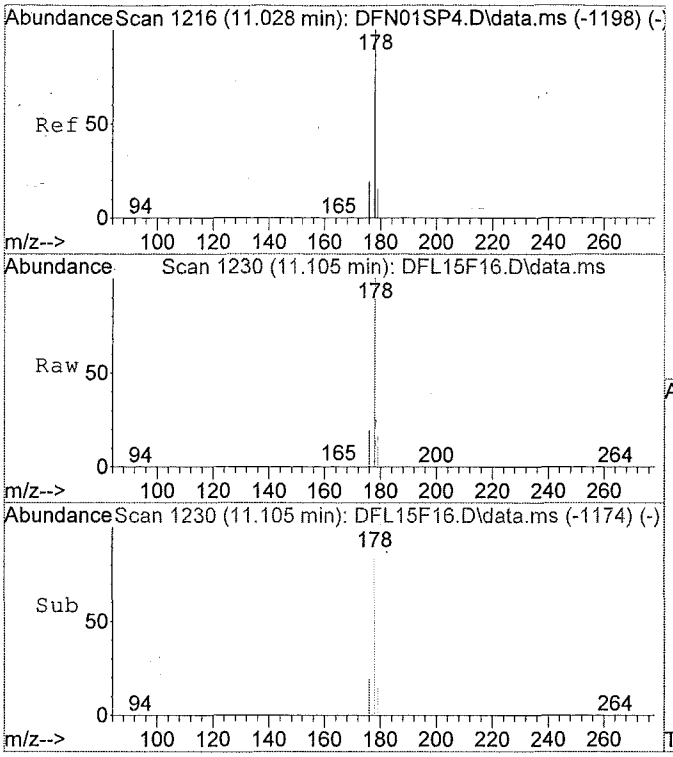


#8
Fluorene
Concen: 0.26 ug/ml
RT: 9.39 min Scan# 878
Delta R.T. 0.00 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15

Tgt Ion:166 Resp: 90087

Ion	Ratio	Lower	Upper
166	100		
165	101.1	66.3	123.1
167	28.4	0.0	0.0#
0	0.0	0.0	0.0

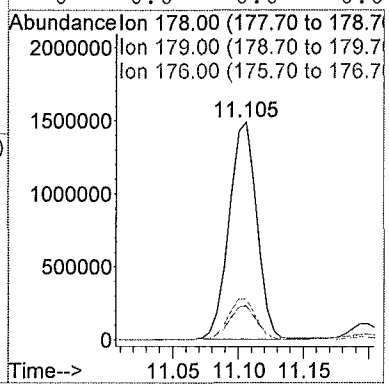


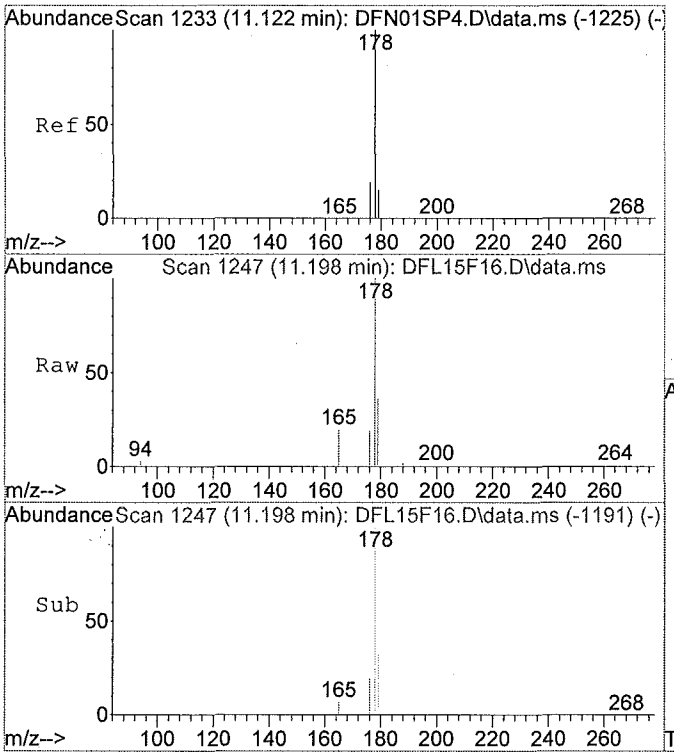


#11
Phenanthrene
Concen: 4.22 ug/ml
RT: 11.11 min Scan# 1230
Delta R.T. 0.01 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15

Tgt Ion:178 Resp: 2183243

Ion	Ratio	Lower	Upper
178	100		
179	15.2	11.1	20.5
176	19.3	14.1	26.1
0	0.0	0.0	0.0

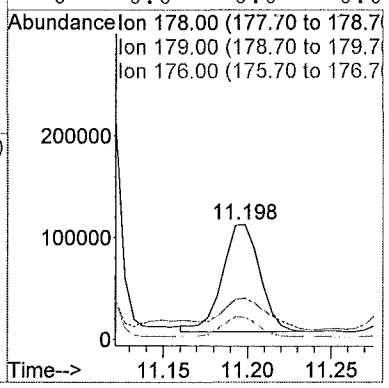


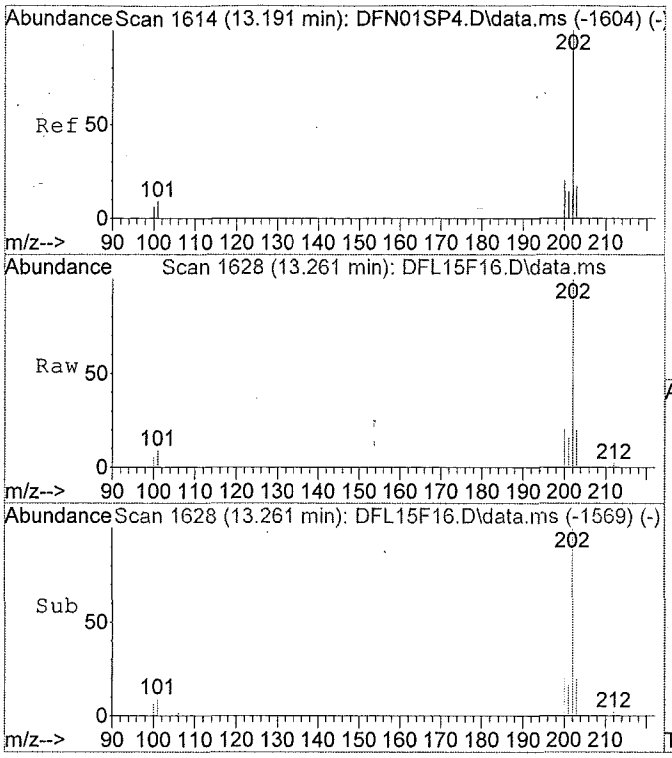


#12
Anthracene
Concen: 0.32 ug/ml
RT: 11.20 min Scan# 1247
Delta R.T. 0.01 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15

Tgt Ion:178 Resp: 163581

Ion	Ratio	Lower	Upper
178	100		
179	36.4	11.6	21.6#
176	18.5	13.9	25.7
0	0.0	0.0	0.0

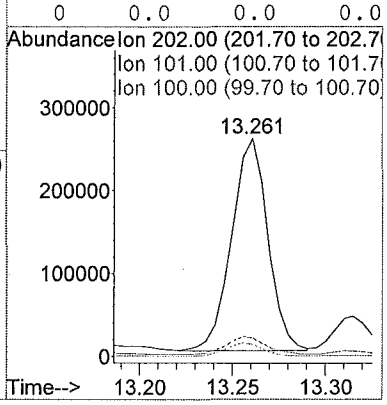


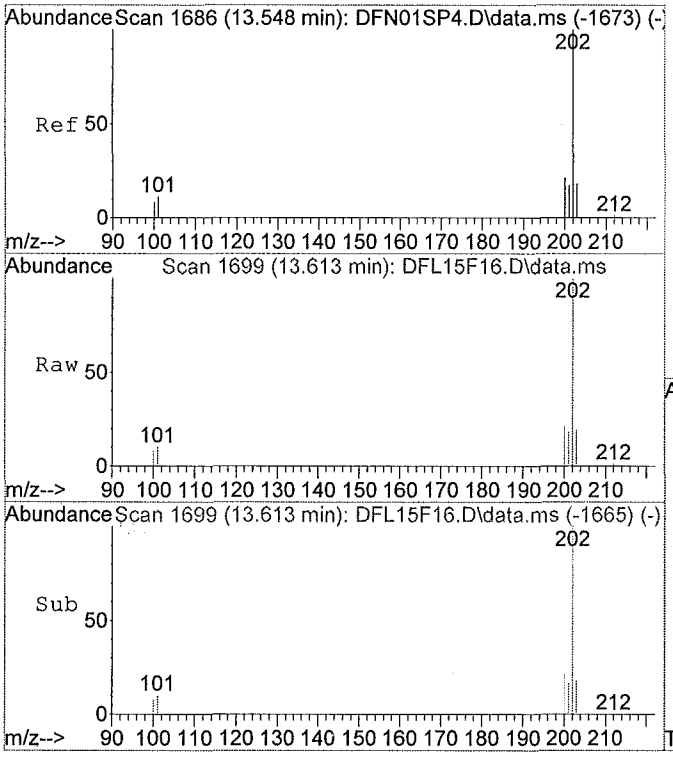


#14
Fluoranthene
Concen: 0.59 ug/ml
RT: 13.26 min Scan# 1628
Delta R.T. 0.00 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15

Tgt Ion:202 Resp: 346923

Ion	Ratio	Lower	Upper
202	100		
101	10.2	9.4	17.6
100	6.4	0.0	0.0#
0	0.0	0.0	0.0

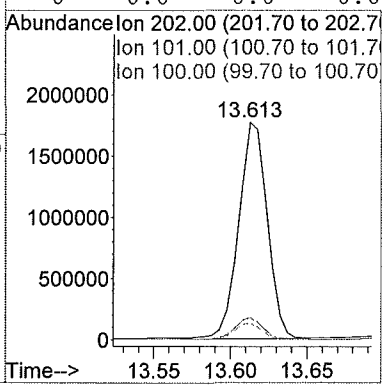


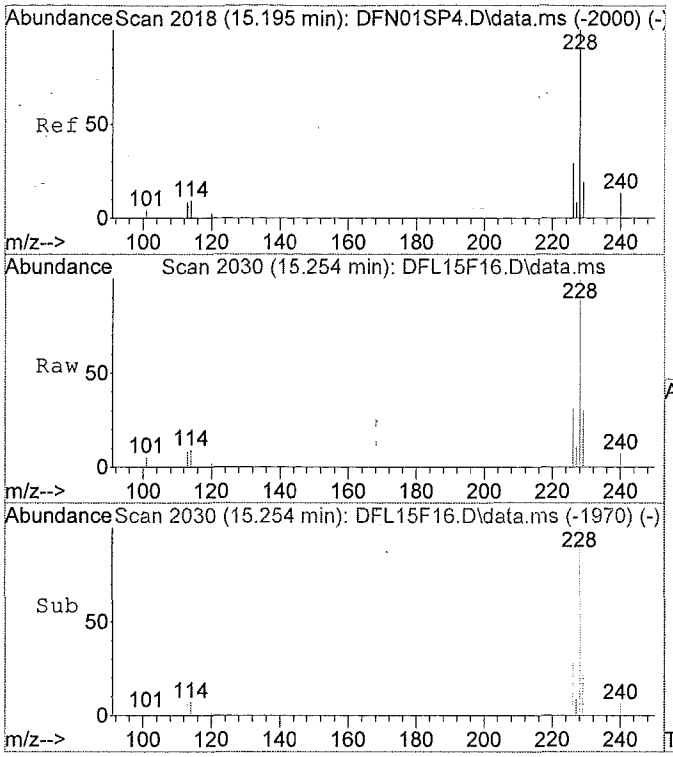


#16
Pyrene
Concen: 3.29 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. 0.00 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15

Tgt Ion:202 Resp: 2290807

Ion	Ratio	Lower	Upper
202	100		
101	10.3	10.6	19.6#
100	8.4	9.4	17.4#
0	0.0	0.0	0.0

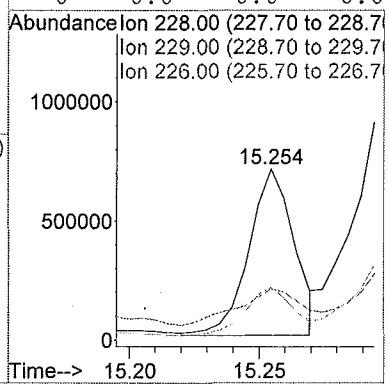


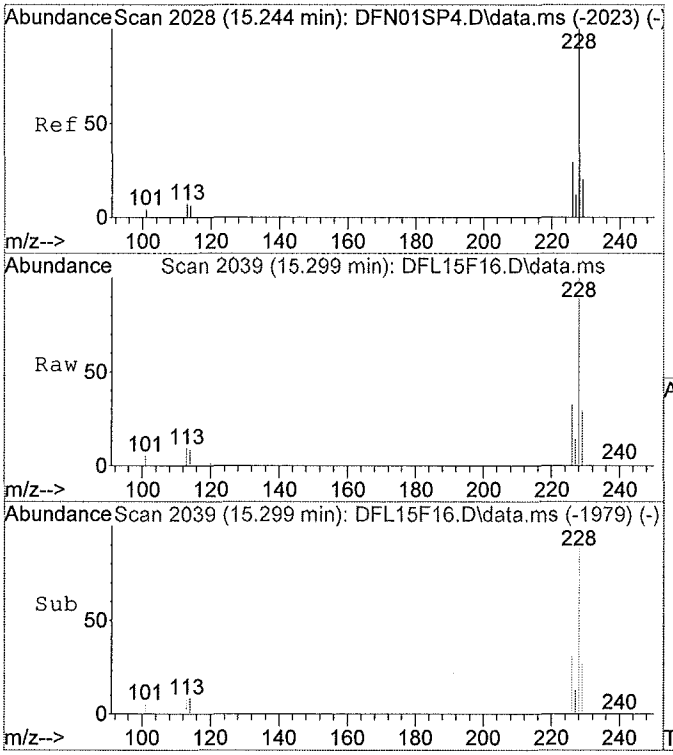


#17
Benzo(a)anthracene
Concen: 1.43 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. 0.00 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15

Tgt Ion:228 Resp: 848126

Ion	Ratio	Lower	Upper
228	100		
229	39.5	14.5	26.9#
226	30.4	18.5	34.3
0	0.0	0.0	0.0

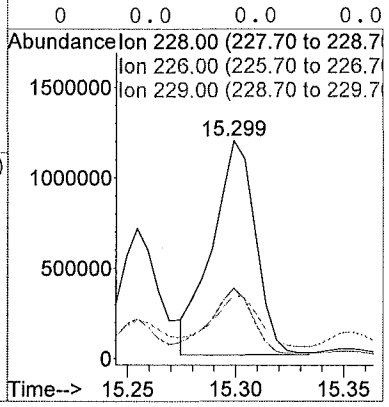


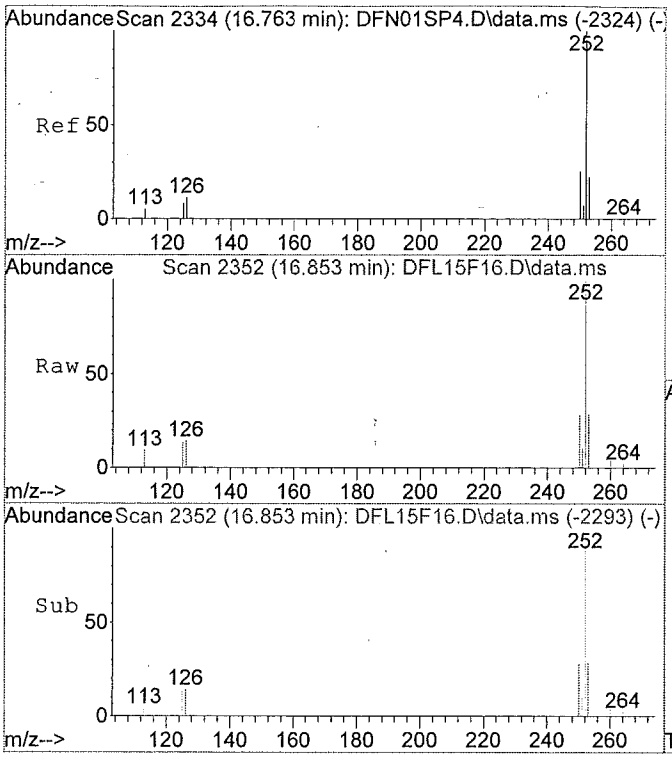


#18
Chrysene
Concen: 2.64 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15

Tgt Ion:228 Resp: 1649655

Ion	Ratio	Lower	Upper
228	100		
226	31.1	19.7	36.7
229	29.7	14.5	26.9#
0	0.0	0.0	0.0

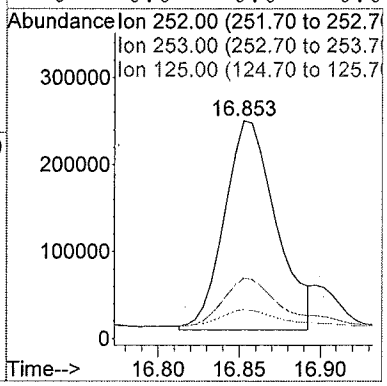


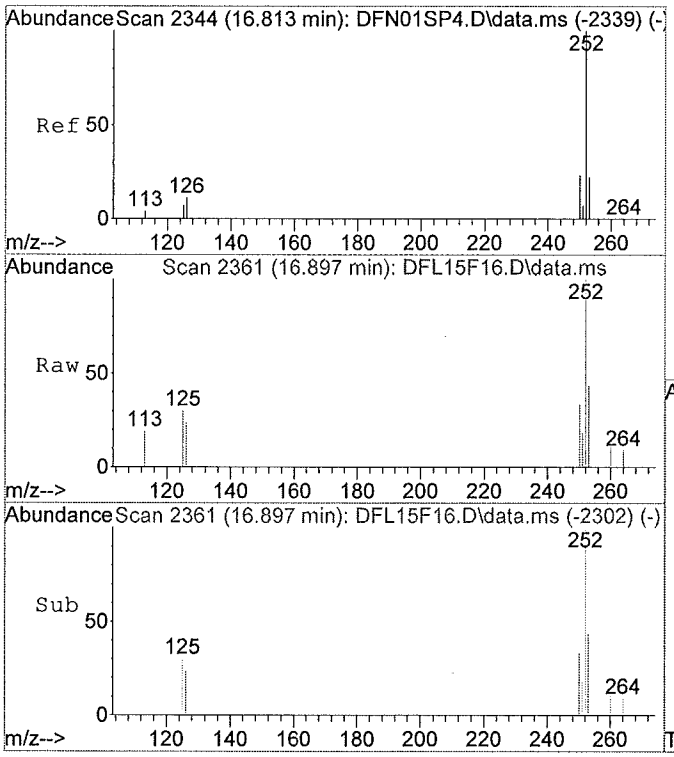


#20
Benzo(b)fluoranthene
Concen: 0.75 ug/ml m
RT: 16.85 min Scan# 2352
Delta R.T. 0.00 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15

Tgt Ion:252 Resp: 533262

Ion	Ratio	Lower	Upper
252	100		
253	26.2	15.3	28.3
125	8.8	0.0	0.0#
0	0.0	0.0	0.0

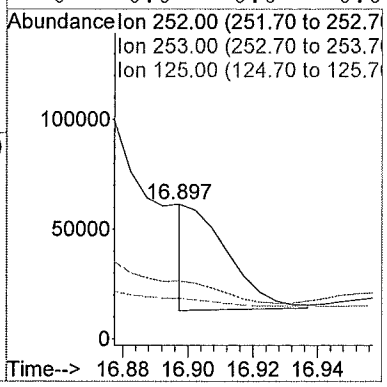


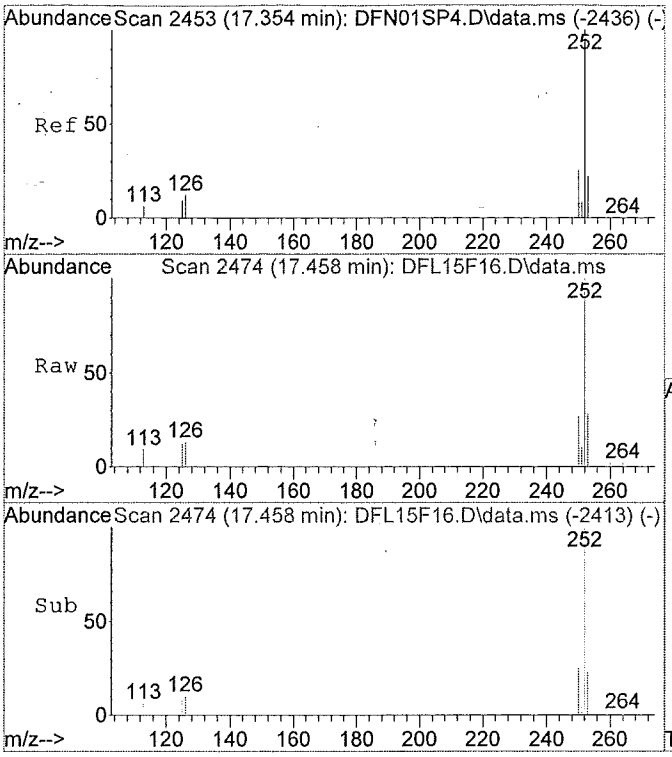


#21
Benzo(k)fluoranthene
Concen: 0.06 ug/ml m
RT: 16.90 min Scan# 2361
Delta R.T. -0.00 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15

Tgt Ion:252 Resp: 41529

Ion	Ratio	Lower	Upper
252	100		
253	336.8	15.0	27.8#
125	113.2	0.0	0.0#
0	0.0	0.0	0.0

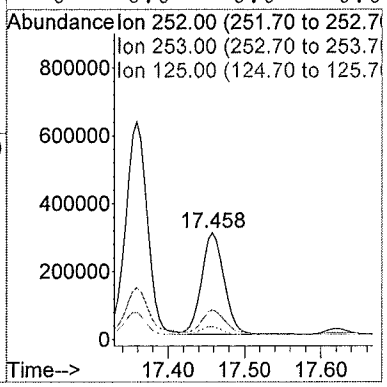


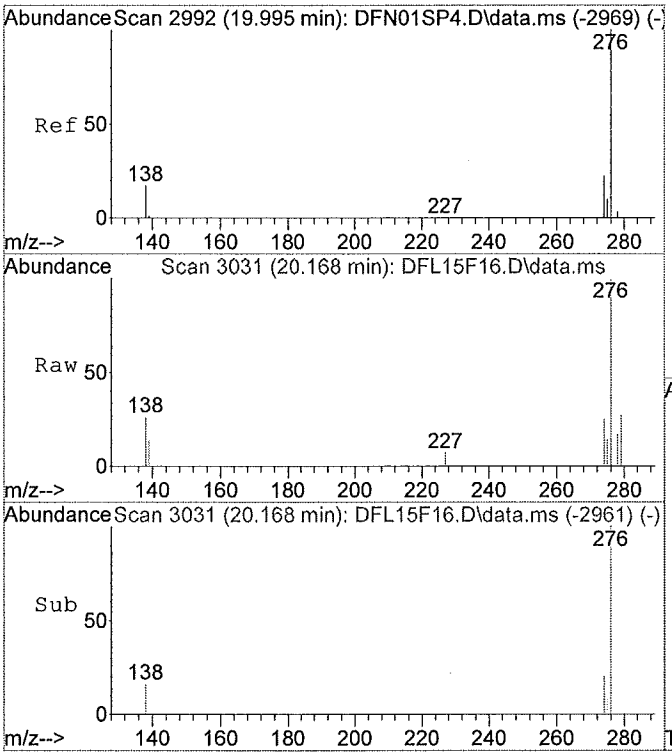


#22
Benzo(a)pyrene
Concen: 0.91 ug/ml
RT: 17.46 min Scan# 2474
Delta R.T. 0.00 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15

Tgt Ion:252 Resp: 617115

Ion	Ratio	Lower	Upper
252	100		
253	23.3	15.0	27.8
125	7.6	0.0	0.0#
0	0.0	0.0	0.0

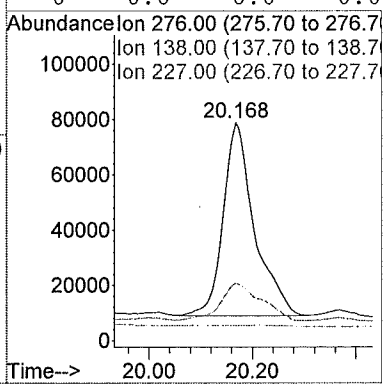


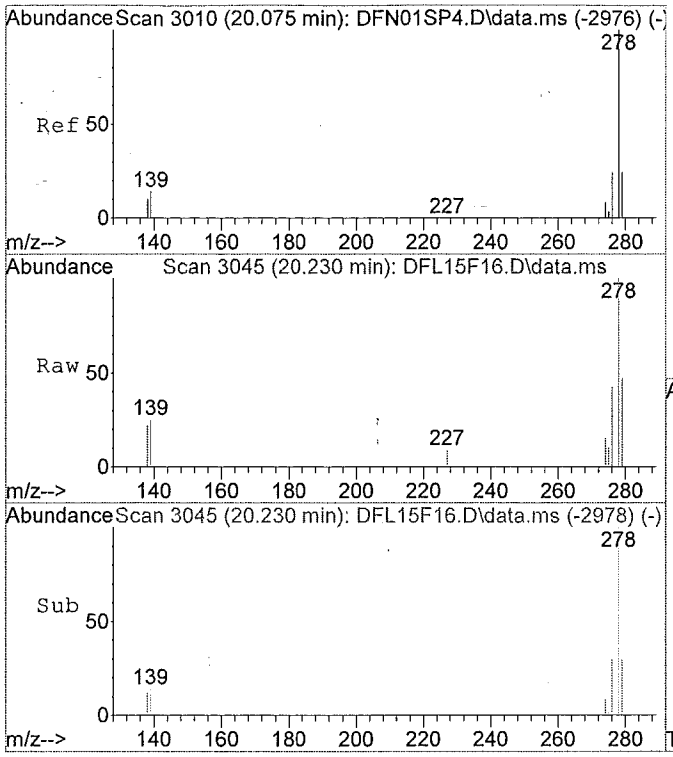


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.49 ug/ml
RT: 20.17 min Scan# 3031
Delta R.T. 0.01 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15

Tgt Ion:276 Resp: 288641

Ion	Ratio	Lower	Upper
276	100		
138	25.8	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

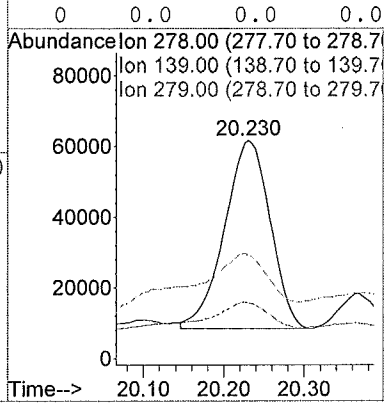


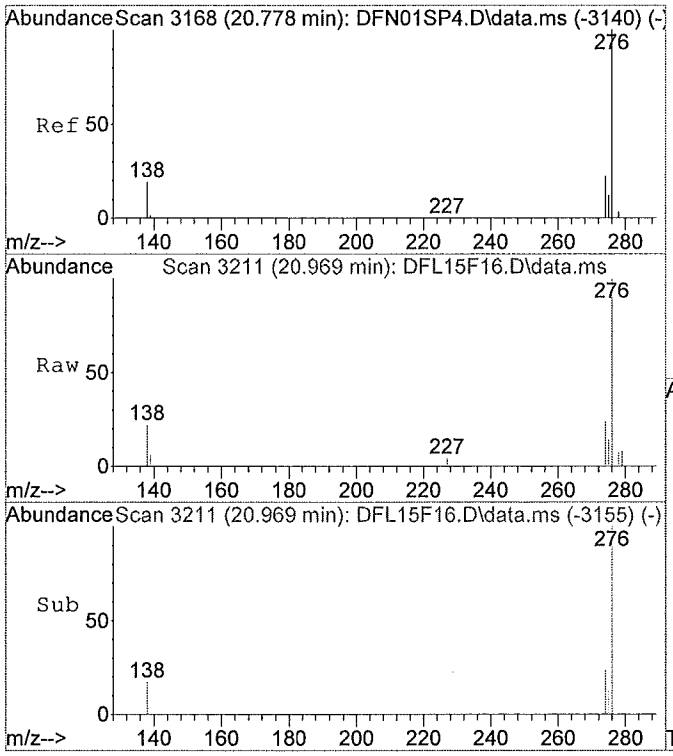


#24
Dibenzo(a,h)anthracene
Concen: 0.32 ug/ml
RT: 20.23 min Scan# 3045
Delta R.T. 0.00 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15

Tgt Ion:278 Resp: 209884

Ion	Ratio	Lower	Upper
278	100		
139	20.2	0.0	0.0#
279	54.9	15.8	29.3#
0	0.0	0.0	0.0

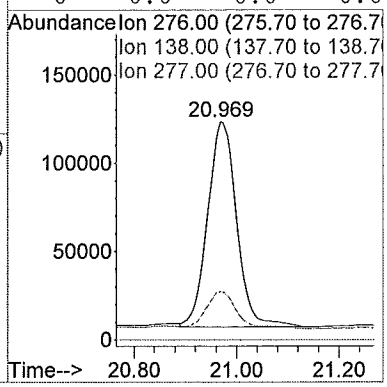




#25
Benzo(g,h,i)perylene
Concen: 0.68 ug/ml
RT: 20.97 min Scan# 3211
Delta R.T. 0.02 min
Lab File: DFL15F16.D
Acq: 07/14/2015 21:15

Tgt Ion:276 Resp: 456802

Ion	Ratio	Lower	Upper
276	100		
138	19.8	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.

F9M12

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375017

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL16F17

Extraction: (Type) SONC

% Moisture: 9.3 Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/14/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 50.0

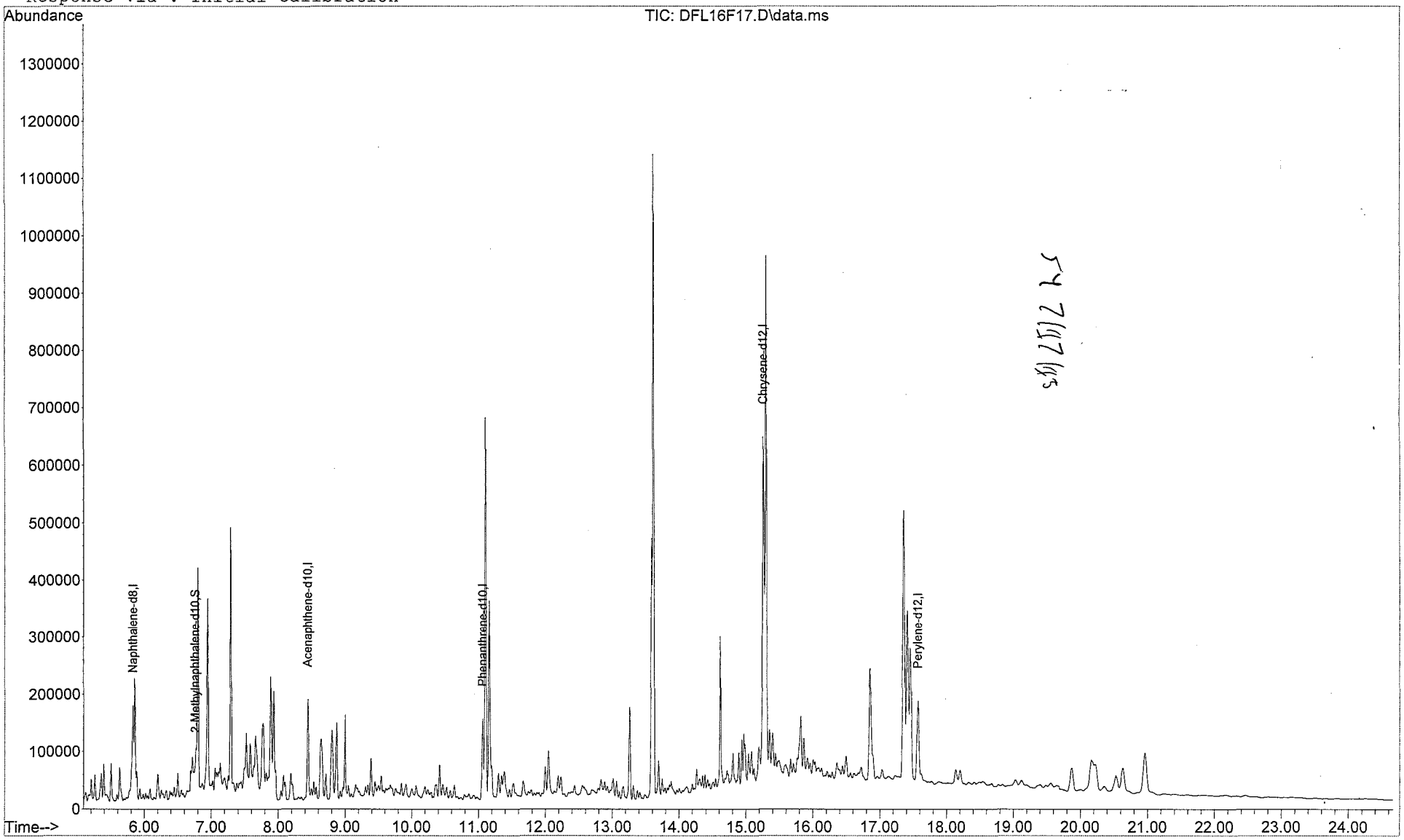
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	680	
91-57-6	2-Methylnaphthalene	1200	
208-96-8	Acenaphthylene	180	U
83-32-9	Acenaphthene	52.	J
86-73-7	Fluorene	150	J
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	2400	E
120-12-7	Anthracene	190	
206-44-0	Fluoranthene	400	
129-00-0	Pyrene	2100	E
56-55-3	Benzo(a)anthracene	1100	
218-01-9	Chrysene	2000	E
205-99-2	Benzo(b)fluoranthene	600	
207-08-9	Benzo(k)fluoranthene	74.	J
50-32-8	Benzo(a)pyrene	700	
193-39-5	Indeno(1,2,3-cd)pyrene	390	
53-70-3	Dibenzo(a,h)anthracene	250	
191-24-2	Benzo(g,h,i)perylene	480	

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL16F17.D Vial: 16
Acq On : 07/14/2015 21:44 Operator: DJC
Sample : 1515375017 F9M12 (50) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 12:15:51 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

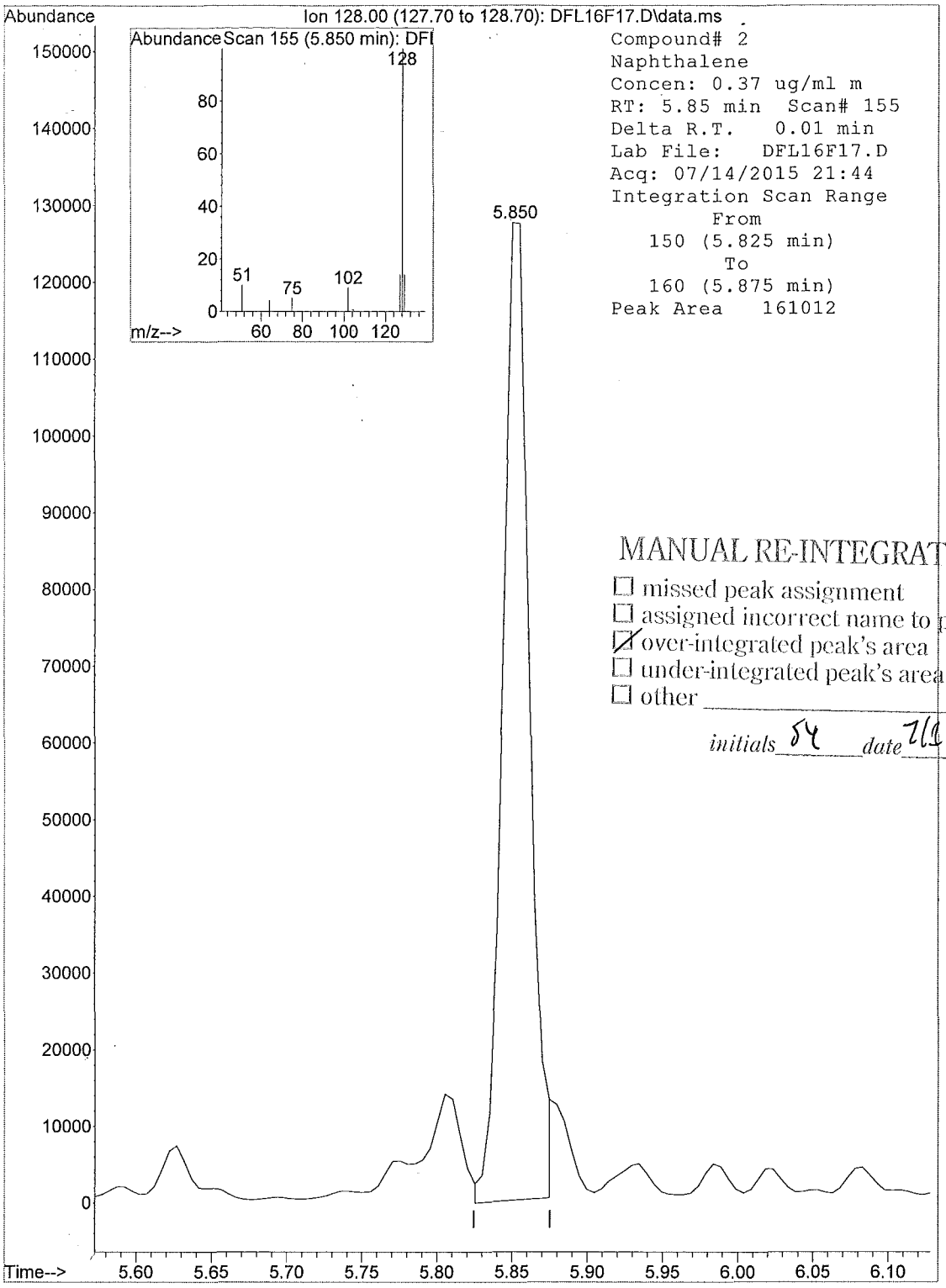
Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL16F17.D Vial: 16
Acq On : 07/14/2015 21:44 Operator: DJC
Sample : 1515375017 F9M12 (50) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 12:15:51 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	165318	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	109932	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	188838	0.40 ug/ml	
15) Chrysene-d12	15.26	240	223949	0.40 ug/ml	
19) Perylene-d12	17.57	264	232474	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	7065	0.026ug/mL	
13) Fluoranthene-d10	13.23	212	8029	0.016ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.85	128	161012	0.373ug/ml m	93
4) 2-Methylnaphthalene	6.80	142	188566	0.679ug/ml	98
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	8.50	153	8789	0.029ug/ml	87
8) Fluorene	9.39	166	29382	0.082ug/ml	93
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.11	178	717052	1.319ug/ml	99
12) Anthracene	11.19	178	54753	0.104ug/ml	81
14) Fluoranthene	13.26	202	134612	0.217ug/ml	92
16) Pyrene	13.61	202	808572	1.151ug/ml	88
17) Benzo(a)anthracene	15.25	228	363397	0.609ug/ml	82
18) Chrysene	15.30	228	696412	1.104ug/ml	90
20) Benzo(b)fluoranthene	16.85	252	235892	0.326ug/ml m	96
21) Benzo(k)fluoranthene	16.89	252	30388	0.040ug/ml m	95
22) Benzo(a)pyrene	17.45	252	264858	0.383ug/ml	95
23) Indeno(1,2,3-c,d)pyrene	20.16	276	127780	0.211ug/ml	100
24) Dibenzo(a,h)anthracene	20.23	278	90761	0.135ug/ml	38
25) Benzo(g,h,i)perylene	20.96	276	179629	0.264ug/ml	73

(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 Naphthalene

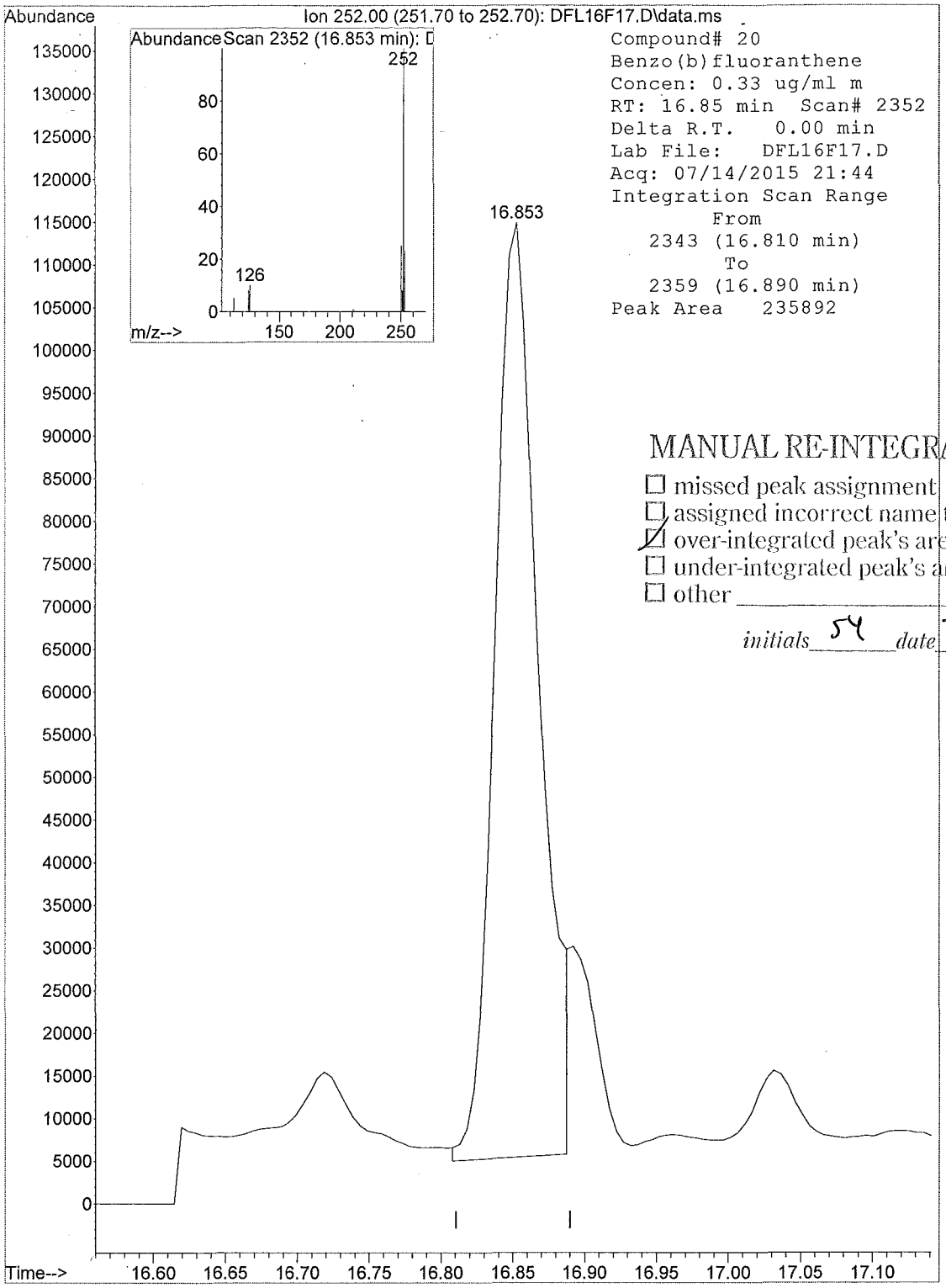


MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/27/15

M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene

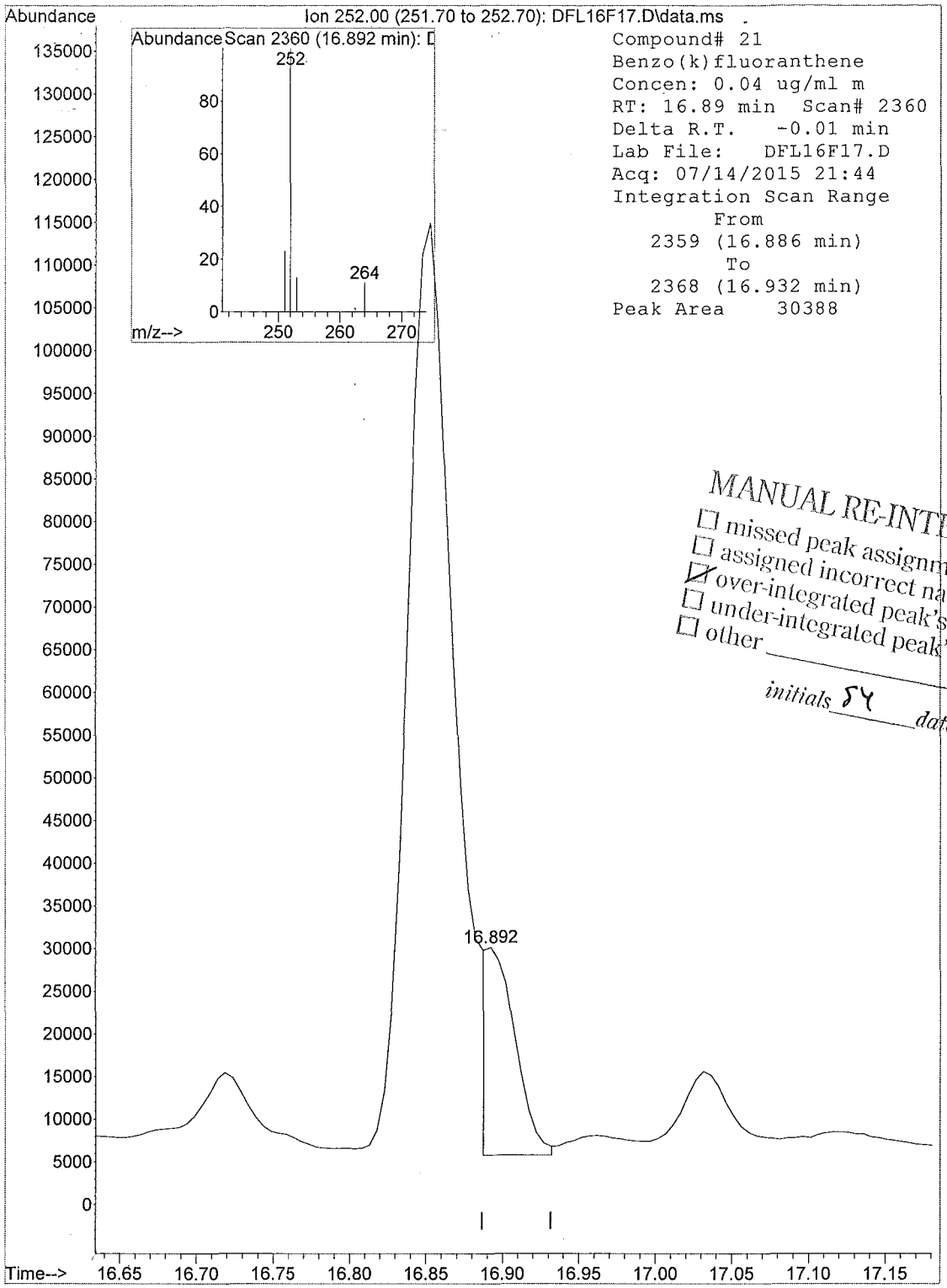


MANUAL RE-INTEGRATION

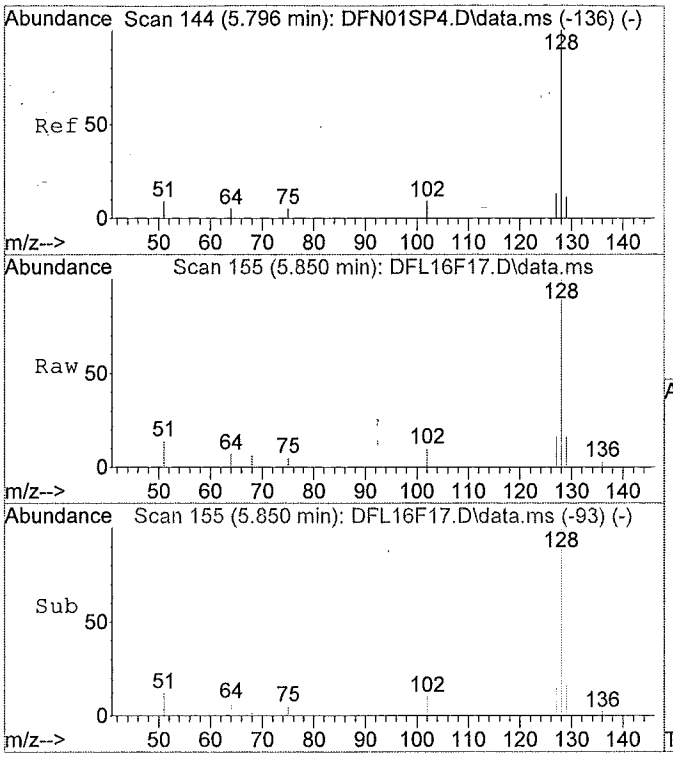
- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 7/17/15

M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



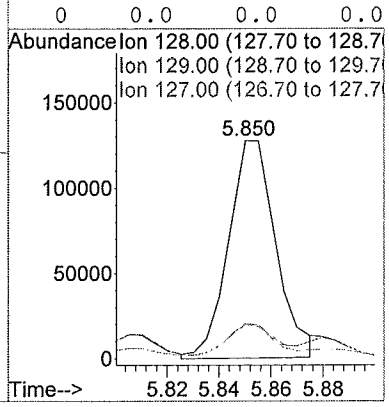
MANUAL RE-INTEGRATION
☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____
initials SY date 7/17/15

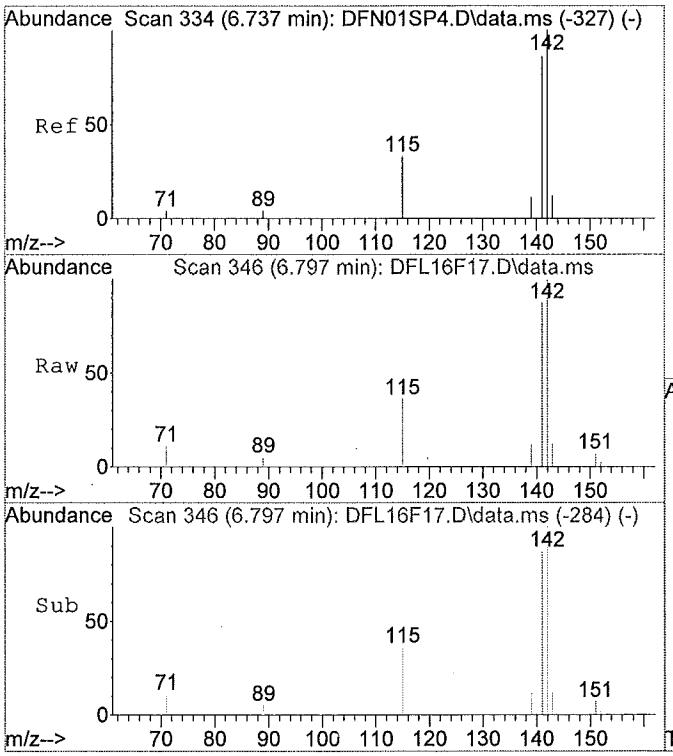


#2
Naphthalene
Concen: 0.37 ug/ml m
RT: 5.85 min Scan# 155
Delta R.T. 0.01 min
Lab File: DFL16F17.D
Acq: 07/14/2015 21:44

Tgt Ion:128 Resp: 161012

Ion	Ratio	Lower	Upper
128	100		
129	15.7	0.0	0.0#
127	13.7	11.1	20.5
0	0.0	0.0	0.0

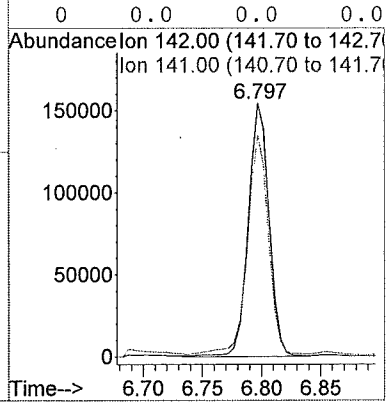


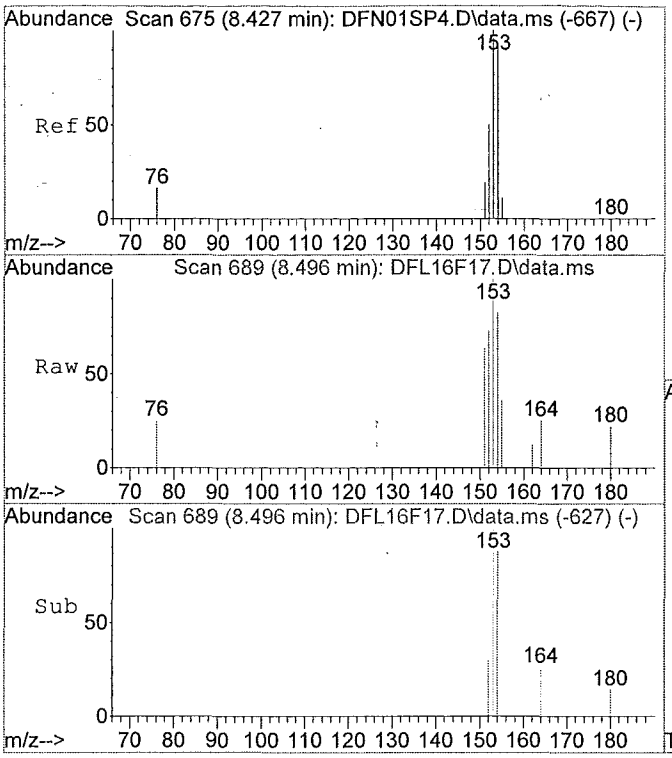


#4
2-Methylnaphthalene
Concen: 0.68 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.01 min
Lab File: DFL16F17.D
Acq: 07/14/2015 21:44

Tgt Ion:142 Resp: 188566

Ion	Ratio	Lower	Upper
142	100		
141	89.4	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

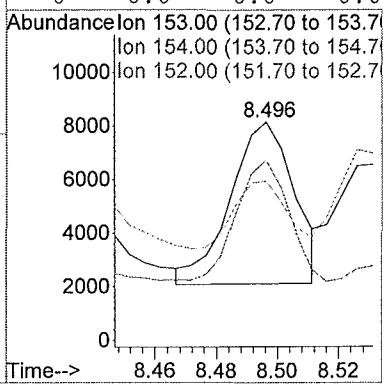


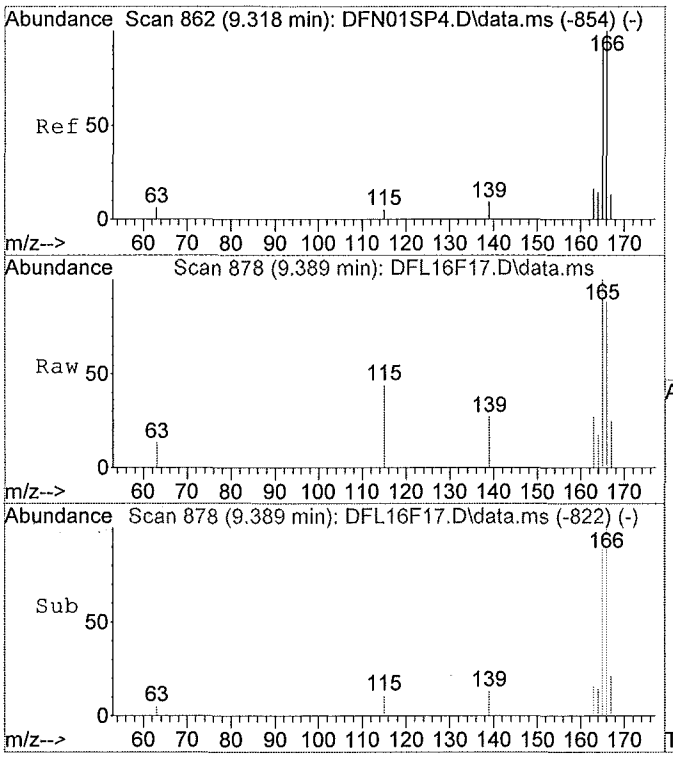


#7
Acenaphthene
Concen: 0.03 ug/ml
RT: 8.50 min Scan# 689
Delta R.T. 0.01 min
Lab File: DFL16F17.D
Acq: 07/14/2015 21:44

Tgt Ion:153 Resp: 8789

Ion	Ratio	Lower	Upper
153	100		
154	86.5	65.1	120.9
152	67.5	35.2	65.4#
0	0.0	0.0	0.0

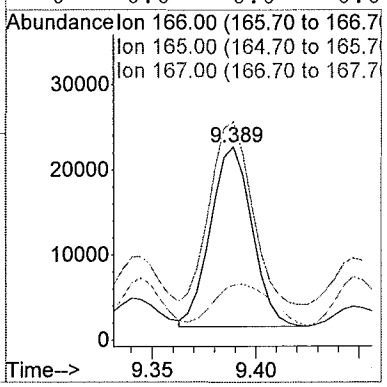


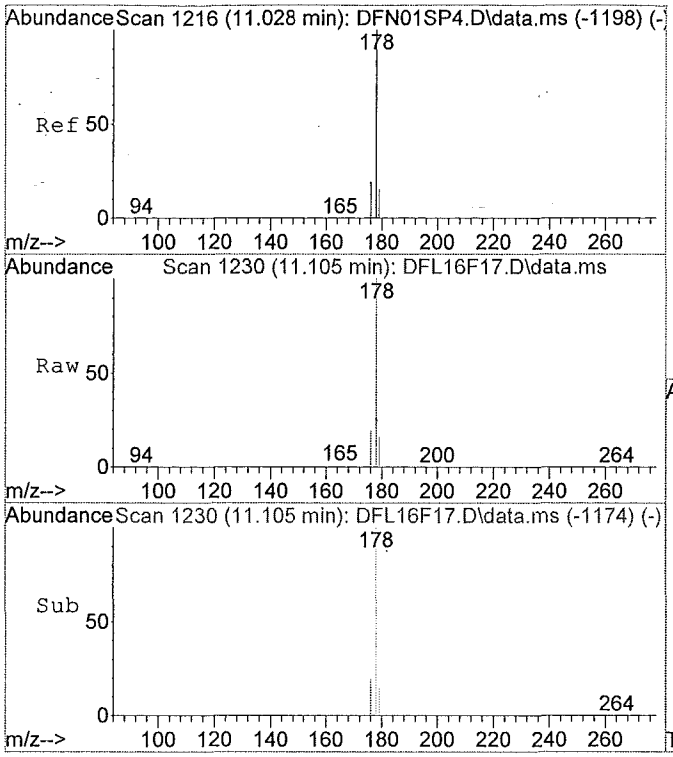


#8
Fluorene
Concen: 0.08 ug/ml
RT: 9.39 min Scan# 878
Delta R.T. 0.00 min
Lab File: DFL16F17.D
Acq: 07/14/2015 21:44

Tgt Ion:166 Resp: 29382

Ion	Ratio	Lower	Upper
166	100		
165	101.9	66.3	123.1
167	31.5	0.0	0.0#
0	0.0	0.0	0.0

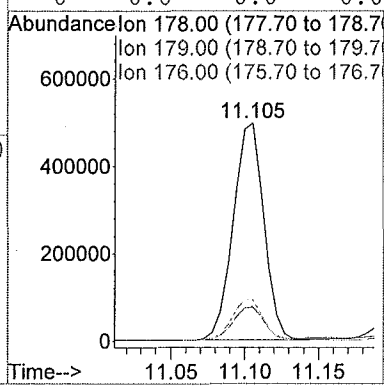


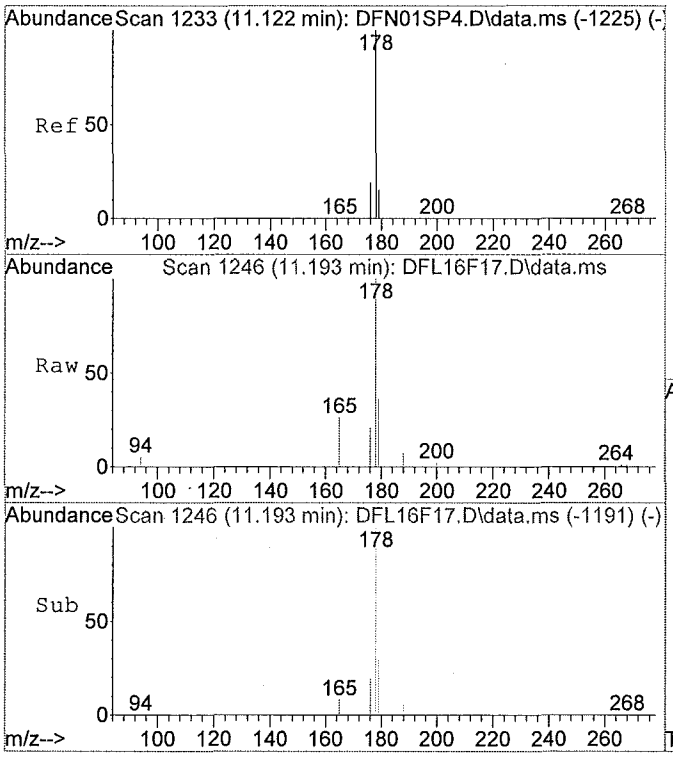


#11
Phenanthrene
Concen: 1.32 ug/ml
RT: 11.11 min Scan# 1230
Delta R.T. 0.01 min
Lab File: DFL16F17.D
Acq: 07/14/2015 21:44

Tgt Ion:178 Resp: 717052

Ion	Ratio	Lower	Upper
178	100		
179	15.1	11.1	20.5
176	19.6	14.1	26.1
0	0.0	0.0	0.0

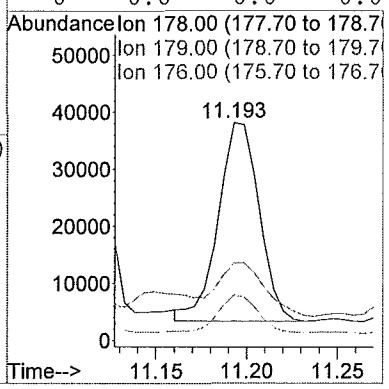


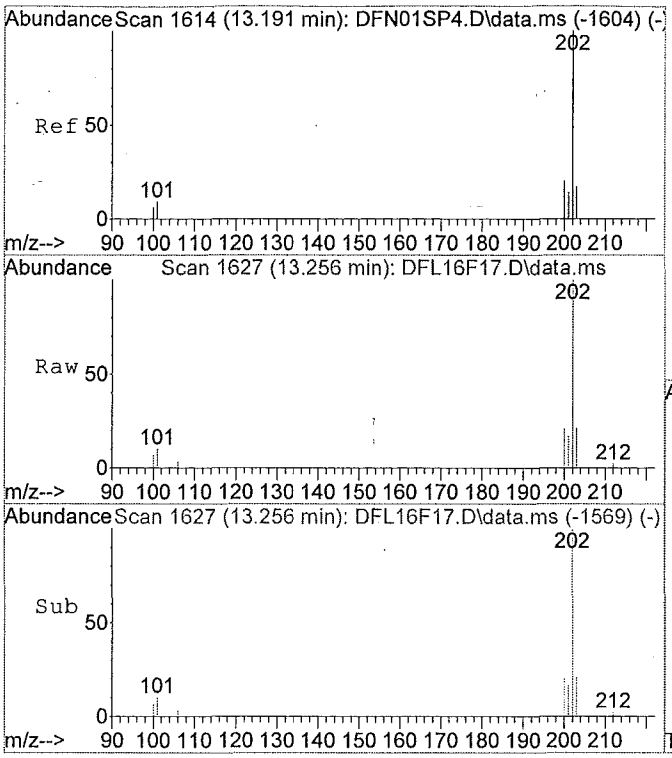


#12
Anthracene
Concen: 0.10 ug/ml
RT: 11.19 min Scan# 1246
Delta R.T. 0.00 min
Lab File: DFL16F17.D
Acq: 07/14/2015 21:44

Tgt Ion:178 Resp: 54753

Ion	Ratio	Lower	Upper
178	100		
179	34.1	11.6	21.6#
176	19.1	13.9	25.7
0	0.0	0.0	0.0

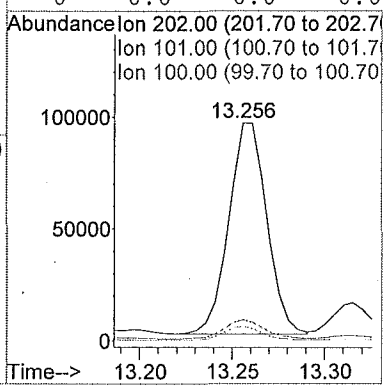


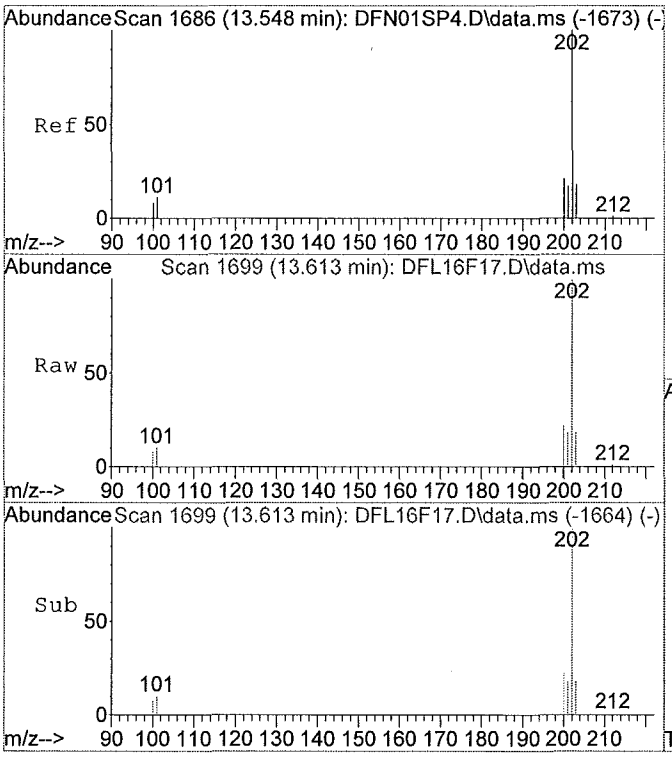


#14
Fluoranthene
Concen: 0.22 ug/ml
RT: 13.26 min Scan# 1627
Delta R.T. 0.00 min
Lab File: DFL16F17.D
Acq: 07/14/2015 21:44

Tgt Ion:202 Resp: 134612

Ion	Ratio	Lower	Upper
202	100		
101	10.1	9.4	17.6
100	6.5	0.0	0.0#
0	0.0	0.0	0.0

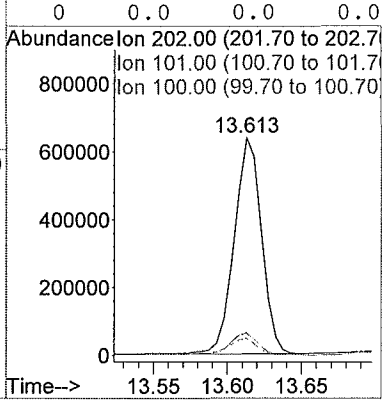


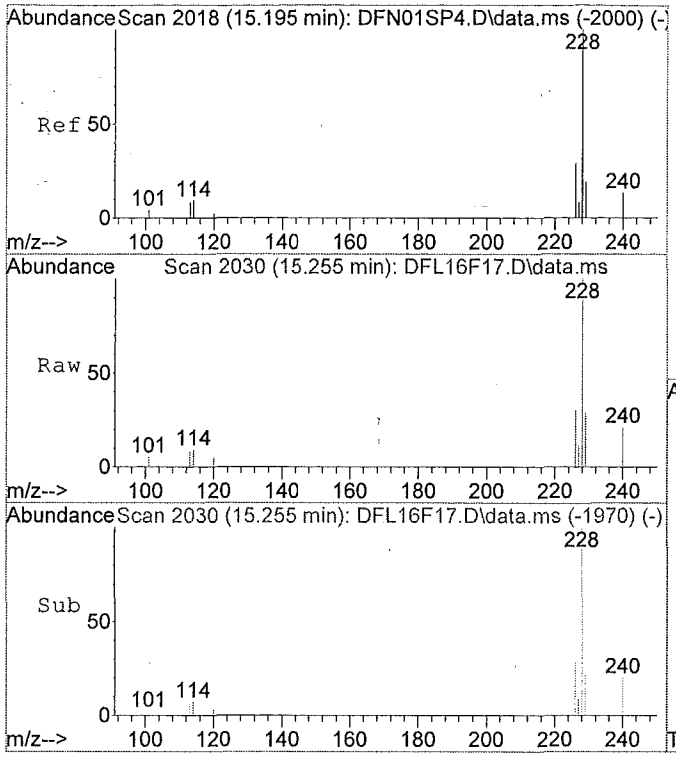


#16
Pyrene
Concen: 1.15 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. 0.00 min
Lab File: DFL16F17.D
Acq: 07/14/2015 21:44

Tgt Ion:202 Resp: 808572

Ion	Ratio	Lower	Upper
202	100		
101	10.7	10.6	19.6
100	7.7	9.4	17.4#
0	0.0	0.0	0.0

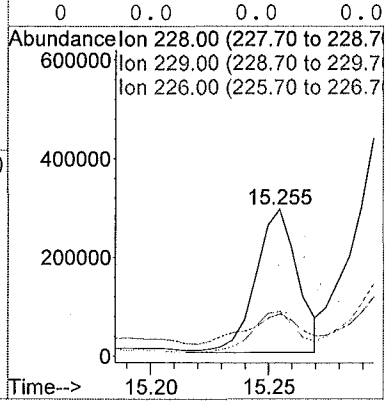


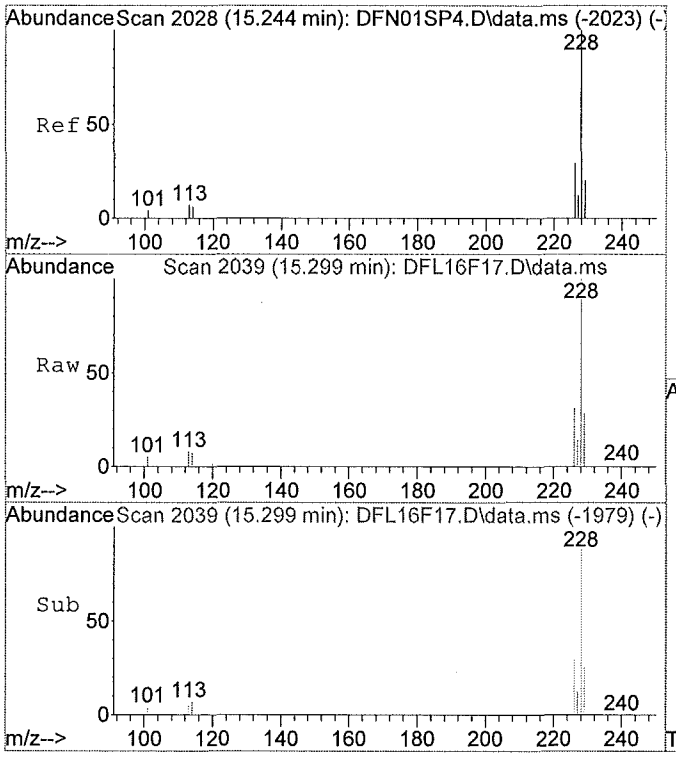


#17
Benzo(a)anthracene
Concen: 0.61 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. 0.00 min
Lab File: DFL16F17.D
Acq: 07/14/2015 21:44

Tgt Ion:228 Resp: 363397

Ion	Ratio	Lower	Upper
228	100		
229	35.5	14.5	26.9#
226	30.1	18.5	34.3
0	0.0	0.0	0.0

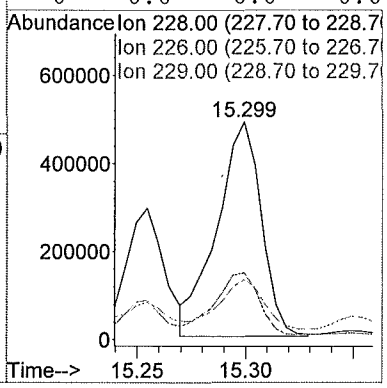


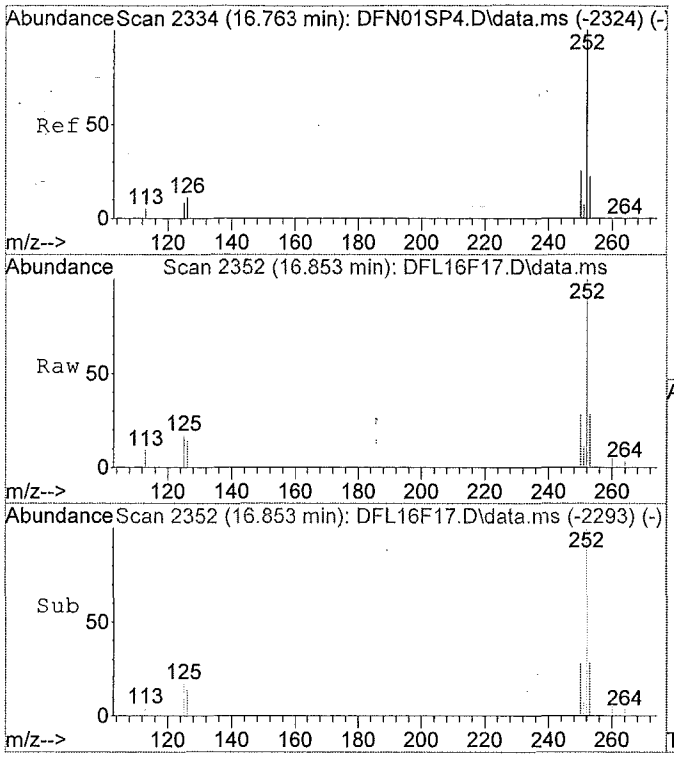


#18
Chrysene
Concen: 1.10 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFL16F17.D
Acq: 07/14/2015 21:44

Tgt Ion:228 Resp: 696412

Ion	Ratio	Lower	Upper
228	100		
226	30.8	19.7	36.7
229	29.1	14.5	26.9#
0	0.0	0.0	0.0

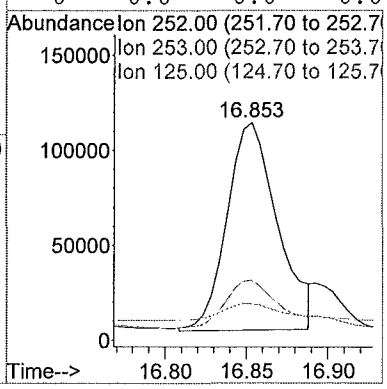


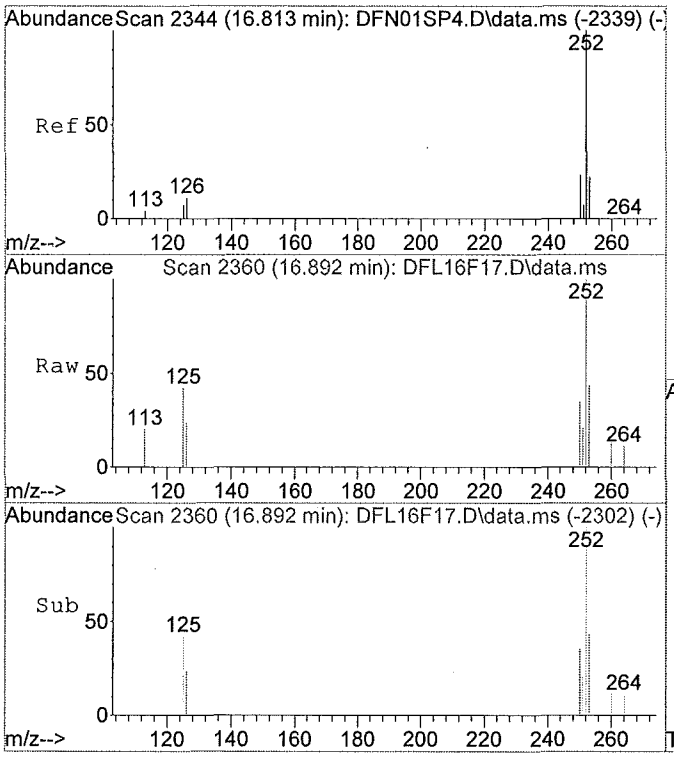


#20
Benzo(b)fluoranthene
Concen: 0.33 ug/ml m
RT: 16.85 min Scan# 2352
Delta R.T. 0.00 min
Lab File: DFL16F17.D
Acq: 07/14/2015 21:44

Tgt Ion:252 Resp: 235892

Ion	Ratio	Lower	Upper
252	100		
253	26.2	15.3	28.3
125	9.8	0.0	0.0#
0	0.0	0.0	0.0

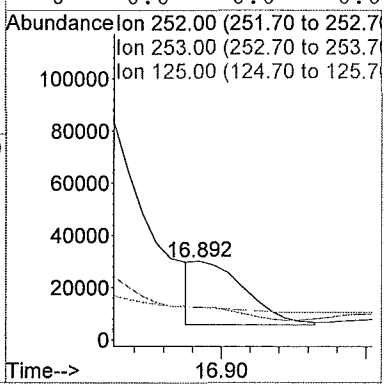


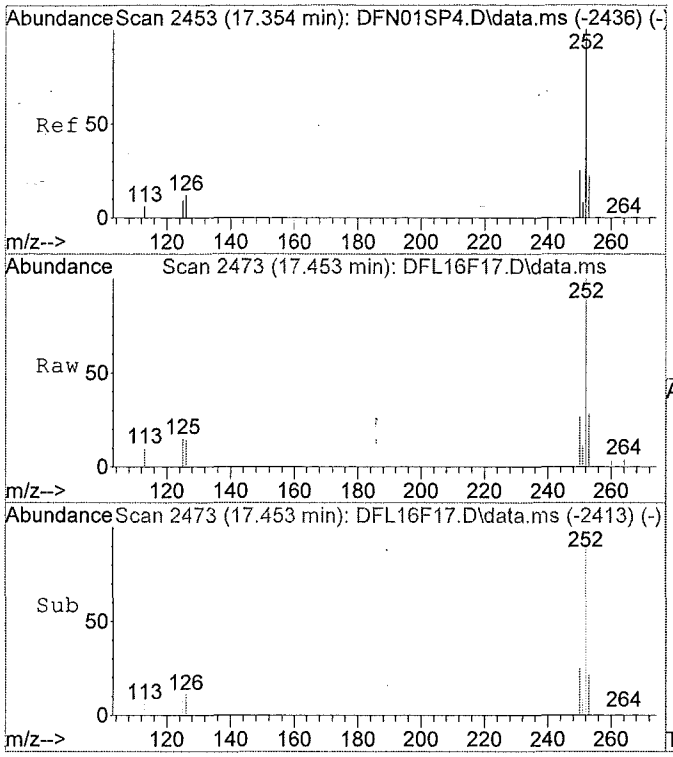


#21
Benzo(k)fluoranthene
Concen: 0.04 ug/ml m
RT: 16.89 min Scan# 2360
Delta R.T. -0.01 min
Lab File: DFL16F17.D
Acq: 07/14/2015 21:44

Tgt Ion:252 Resp: 30388

Ion	Ratio	Lower	Upper
252	100		
253	203.4	15.0	27.8#
125	75.8	0.0	0.0#
0	0.0	0.0	0.0

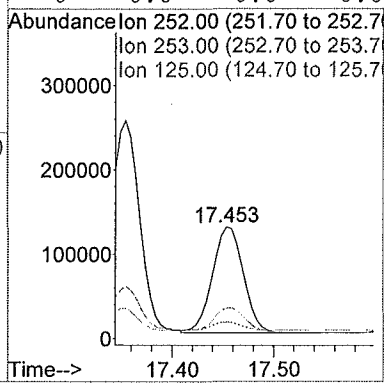


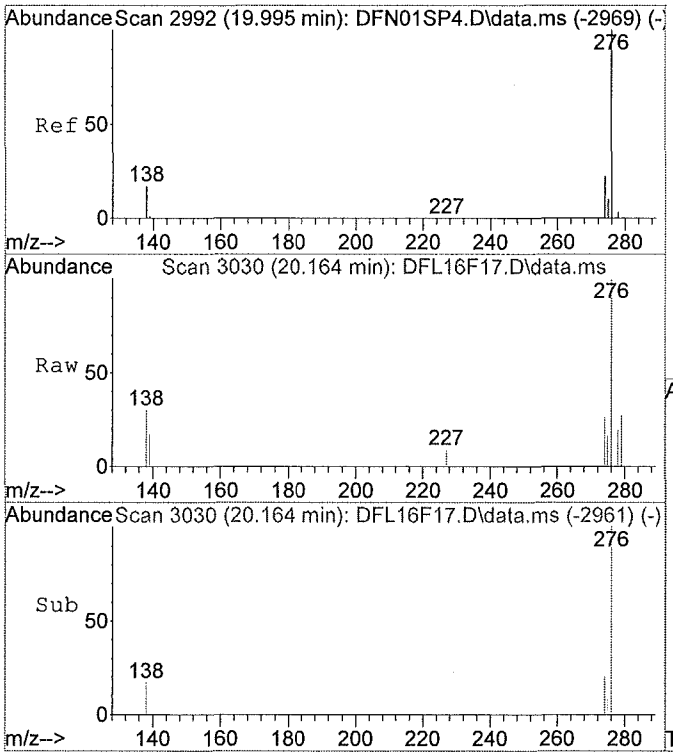


#22
Benzo(a)pyrene
Concen: 0.38 ug/ml
RT: 17.45 min Scan# 2473
Delta R.T. 0.00 min
Lab File: DFL16F17.D
Acq: 07/14/2015 21:44

Tgt Ion:252 Resp: 264858

Ion	Ratio	Lower	Upper
252	100		
253	23.6	15.0	27.8
125	7.7	0.0	0.0#
0	0.0	0.0	0.0

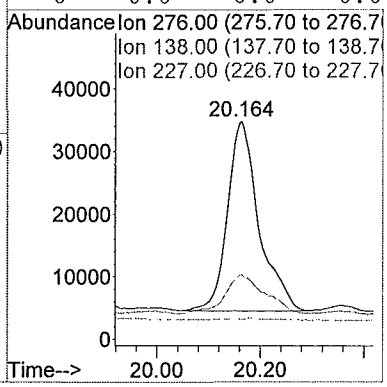


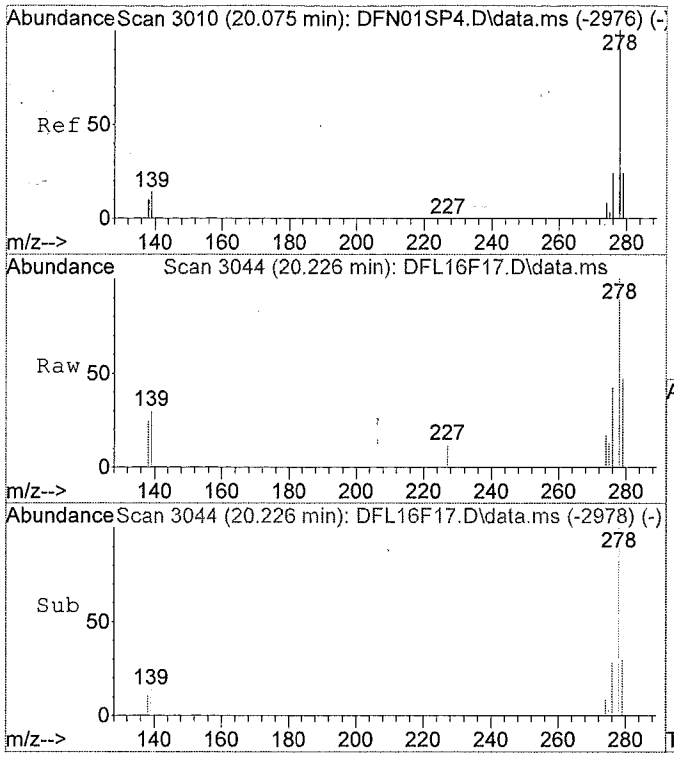


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.21 ug/ml
RT: 20.16 min Scan# 3030
Delta R.T. 0.01 min
Lab File: DFL16F17.D
Acq: 07/14/2015 21:44

Tgt Ion:276 Resp: 127780

Ion	Ratio	Lower	Upper
276	100		
138	26.0	0.0	0.0#
227	0.2	0.0	0.0#
0	0.0	0.0	0.0

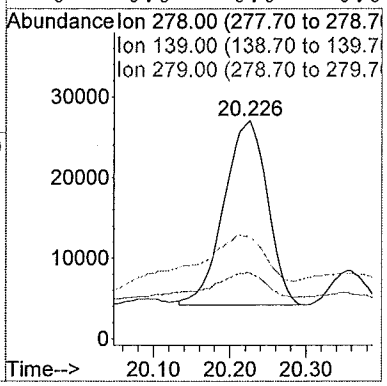


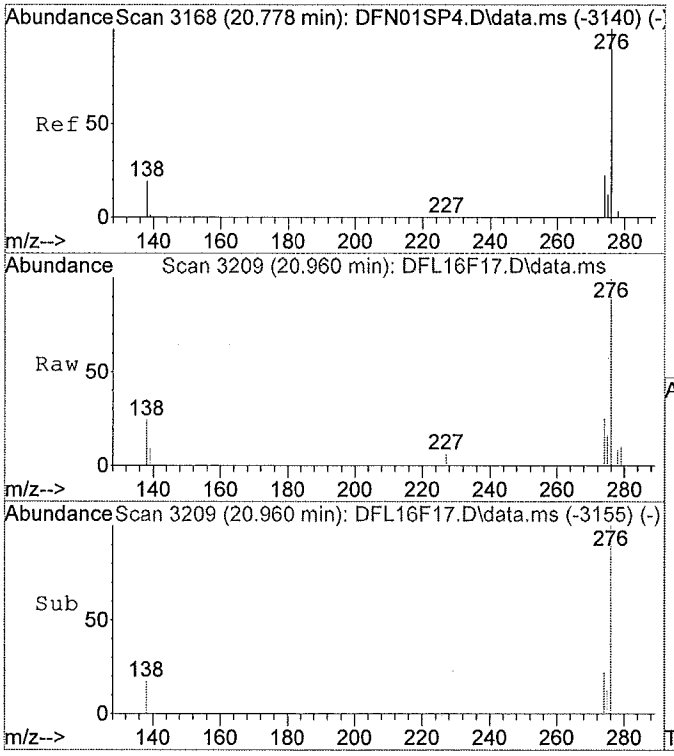


#24
Dibenzo(a,h)anthracene
Concen: 0.14 ug/ml
RT: 20.23 min Scan# 3044
Delta R.T. -0.00 min
Lab File: DFL16F17.D
Acq: 07/14/2015 21:44

Tgt Ion:278 Resp: 90761

Ion	Ratio	Lower	Upper
278	100		
139	21.8	0.0	0.0#
279	52.5	15.8	29.3#
0	0.0	0.0	0.0

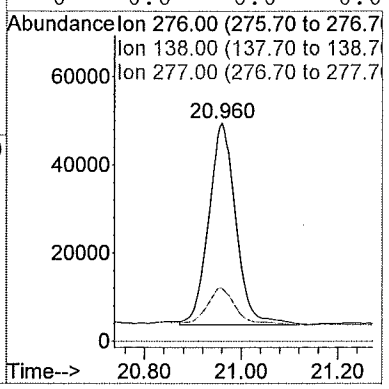




#25
Benzo(g,h,i)perylene
Concen: 0.26 ug/ml
RT: 20.96 min Scan# 3209
Delta R.T. 0.01 min
Lab File: DFL16F17.D
Acq: 07/14/2015 21:44

Tgt Ion:276 Resp: 179629

Ion	Ratio	Lower	Upper
276	100		
138	20.4	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.

F9M12DL

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375017DL

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFM04F17

Extraction: (Type) SONC

% Moisture: 9.3 Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/15/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 100.0

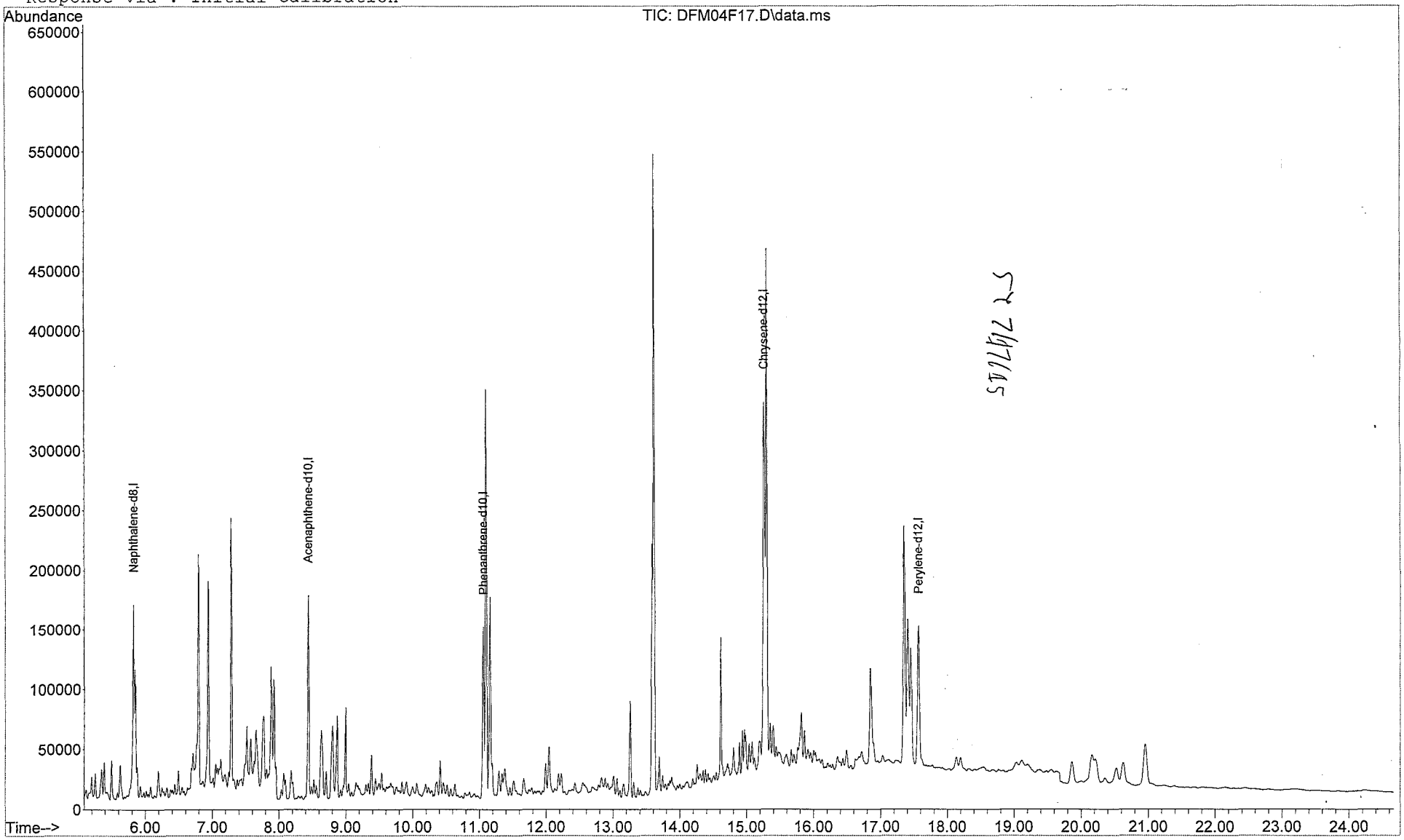
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	720	D
91-57-6	2-Methylnaphthalene	1200	D
208-96-8	Acenaphthylene	360	U
83-32-9	Acenaphthene	360	U
86-73-7	Fluorene	150	JD
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	2400	D
120-12-7	Anthracene	180	JD
206-44-0	Fluoranthene	390	D
129-00-0	Pyrene	2200	D
56-55-3	Benzo(a)anthracene	1100	D
218-01-9	Chrysene	2000	D
205-99-2	Benzo(b)fluoranthene	620	D
207-08-9	Benzo(k)fluoranthene	89.	JD
50-32-8	Benzo(a)pyrene	700	D
193-39-5	Indeno(1,2,3-cd)pyrene	410	D
53-70-3	Dibenzo(a,h)anthracene	260	JD
191-24-2	Benzo(g,h,i)perylene	560	D

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\15JUL15D\DFM04F17.D Vial: 4
Acq On : 07/15/2015 12:36 Operator: DJC
Sample : 1515375017DL F9M12DL (100) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 12:24:32 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\15JUL15D\DFM04F17.D Vial: 4
Acq On : 07/15/2015 12:36 Operator: DJC
Sample : 1515375017DL F9M12DL (100) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 12:24:32 2015 Results File: DSOM_SIMJ2.RES

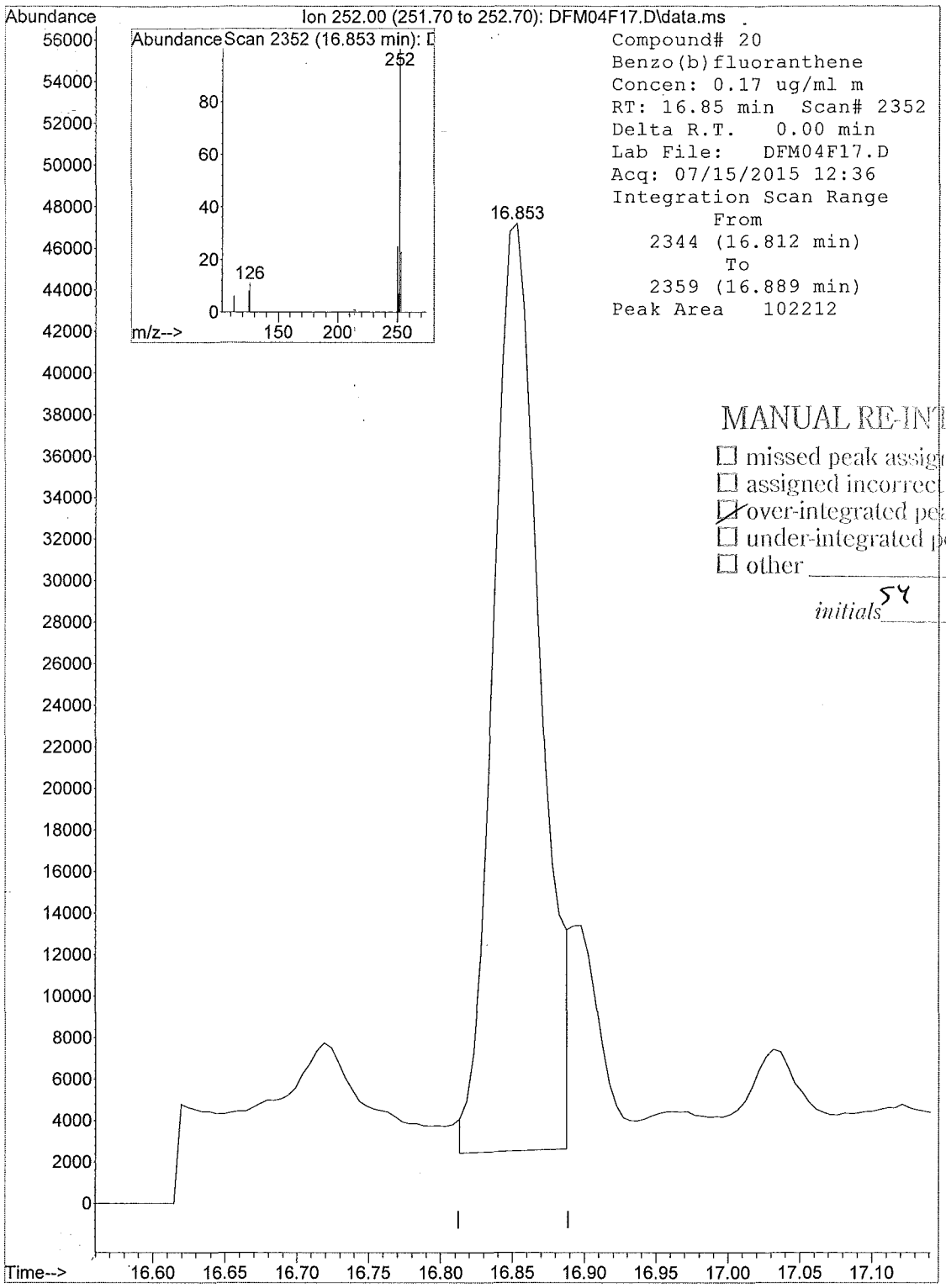
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	167618	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	109367	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	188362	0.40 ug/ml	
15) Chrysene-d12	15.27	240	203799	0.40 ug/ml	
19) Perylene-d12	17.57	264	192476	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	3669	0.014ug/mL	
13) Fluoranthene-d10	13.23	212	4006	0.008ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.85	128	86412	0.198ug/ml	94
4) 2-Methylnaphthalene	6.80	142	94756	0.337ug/ml	96
6) Acenaphthylene	0.00	152		Not Detected	
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	9.39	166	14765	0.042ug/ml	92
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.10	178	357814	0.660ug/ml	99
12) Anthracene	11.20	178	26359	0.050ug/ml	80
14) Fluoranthene	13.26	202	66248	0.107ug/ml	92
16) Pyrene	13.61	202	392149	0.613ug/ml	91
17) Benzo(a)anthracene	15.25	228	163124	0.300ug/ml	79
18) Chrysene	15.30	228	316873	0.552ug/ml	90
20) Benzo(b)fluoranthene	16.85	252	102212	0.170ug/ml m	96
21) Benzo(k)fluoranthene	16.90	252	15104	0.024ug/ml m	95
22) Benzo(a)pyrene	17.45	252	109208	0.191ug/ml	94
23) Indeno(1,2,3-c,d)pyrene	20.16	276	56698	0.113ug/ml	100
24) Dibenzo(a,h)anthracene	20.22	278	38898	0.070ug/ml	96
25) Benzo(g,h,i)perylene	20.96	276	86416	0.153ug/ml	70

SY 7/17/15

(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(b)fluoranthene

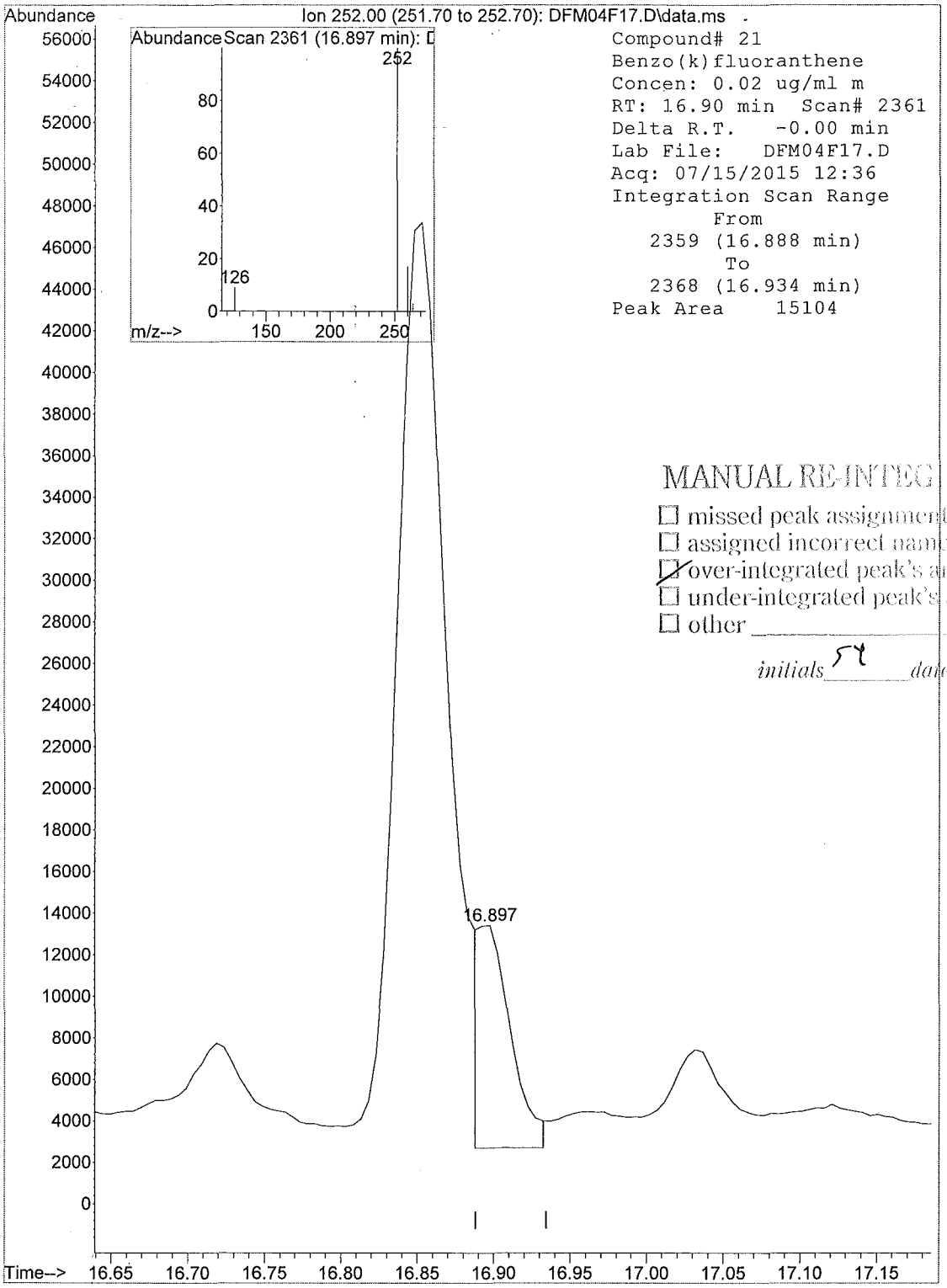


MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/17/15

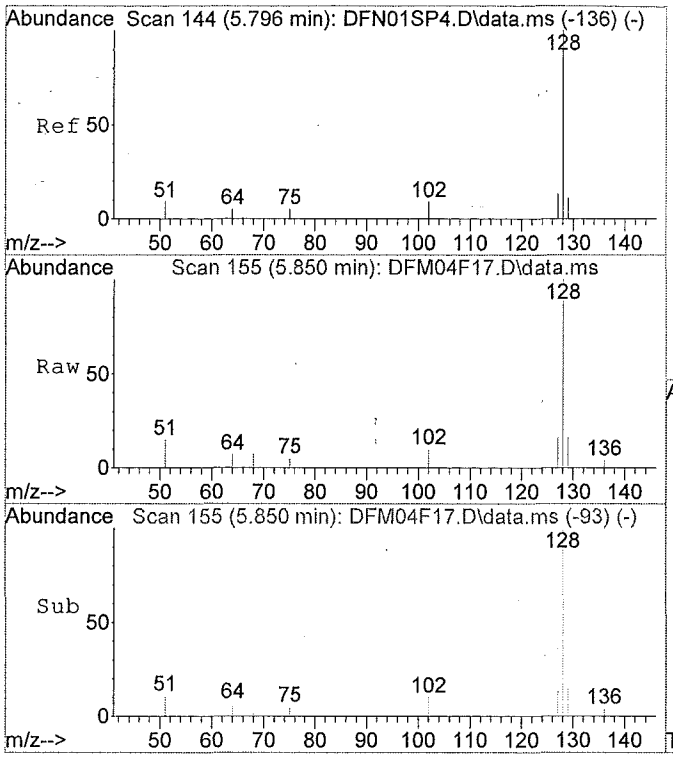
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

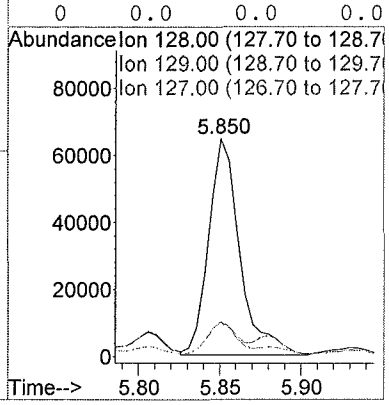
initials SY *date* 7/17/15

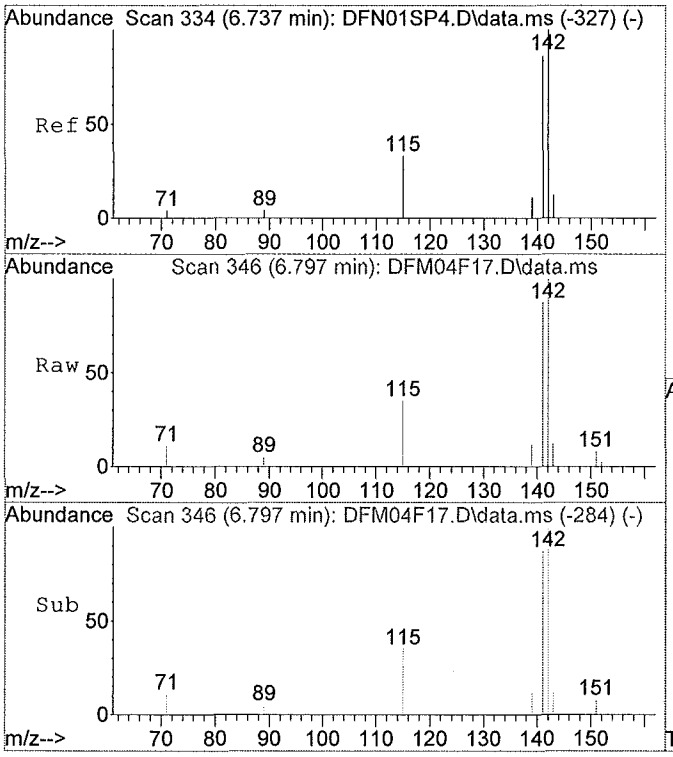


#2
Naphthalene
Concen: 0.20 ug/ml
RT: 5.85 min Scan# 155
Delta R.T. 0.01 min
Lab File: DFM04F17.D
Acq: 07/15/2015 12:36

Tgt Ion:128 Resp: 86412

Ion	Ratio	Lower	Upper
128	100		
129	14.5	0.0	0.0#
127	13.2	11.1	20.5
0	0.0	0.0	0.0

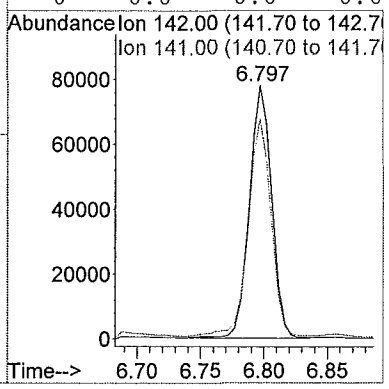


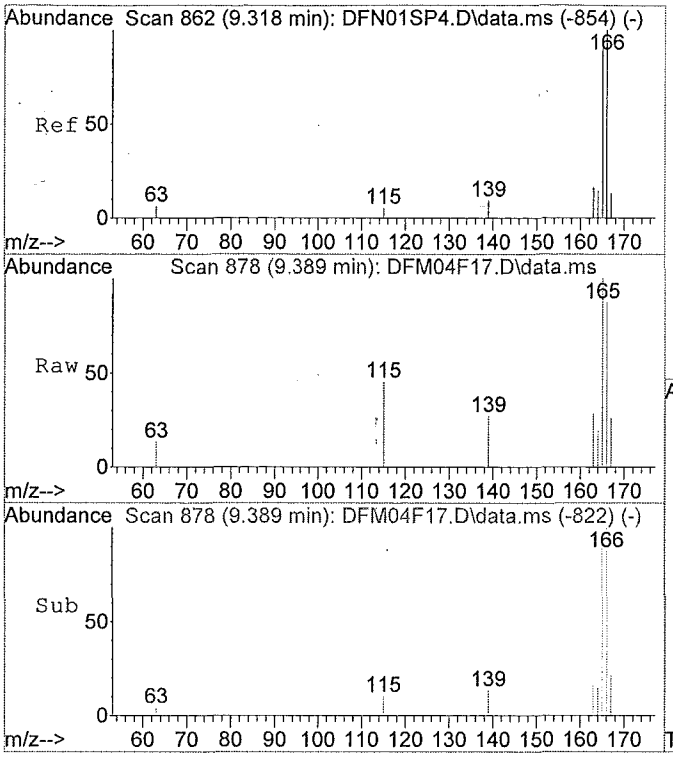


#4
2-Methylnaphthalene
Concen: 0.34 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.01 min
Lab File: DFM04F17.D
Acq: 07/15/2015 12:36

Tgt Ion:142 Resp: 94756

Ion	Ratio	Lower	Upper
142	100		
141	91.1	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

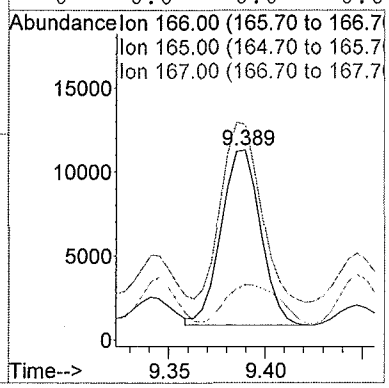


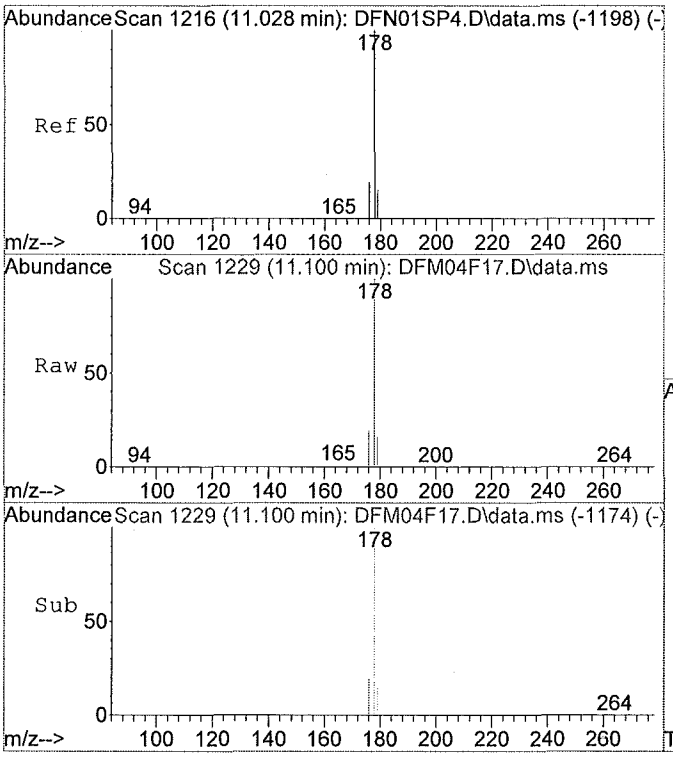


#8
Fluorene
Concen: 0.04 ug/ml
RT: 9.39 min Scan# 878
Delta R.T. 0.00 min
Lab File: DFM04F17.D
Acq: 07/15/2015 12:36

Tgt Ion:166 Resp: 14765

Ion	Ratio	Lower	Upper
166	100		
165	102.1	66.3	123.1
167	30.5	0.0	0.0#
0	0.0	0.0	0.0

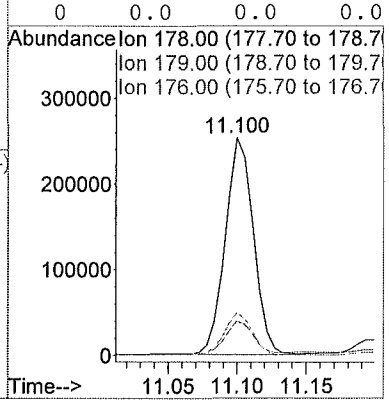


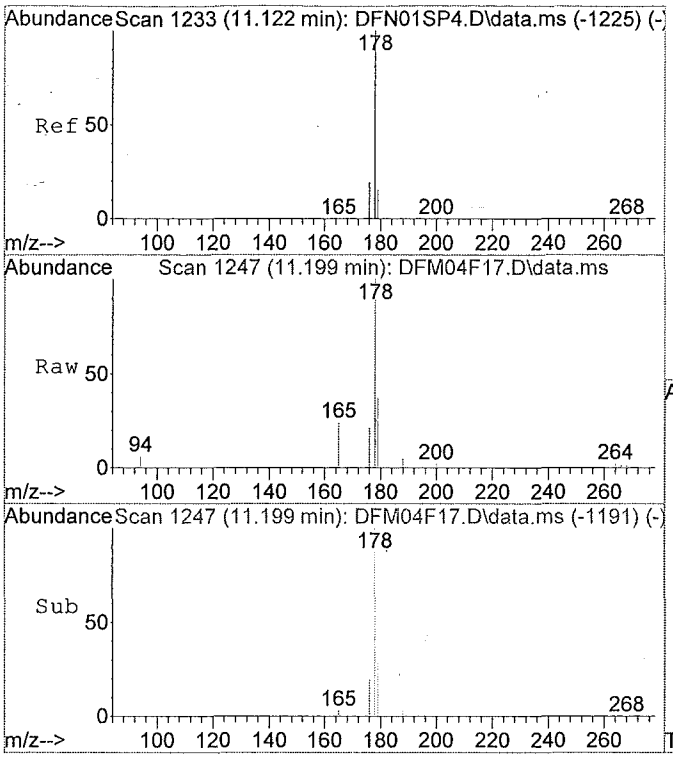


#11
Phenanthrene
Concen: 0.66 ug/ml
RT: 11.10 min Scan# 1229
Delta R.T. 0.00 min
Lab File: DFM04F17.D
Acq: 07/15/2015 12:36

Tgt Ion:178 Resp: 357814

Ion	Ratio	Lower	Upper
178	100		
179	15.0	11.1	20.5
176	19.6	14.1	26.1
0	0.0	0.0	0.0

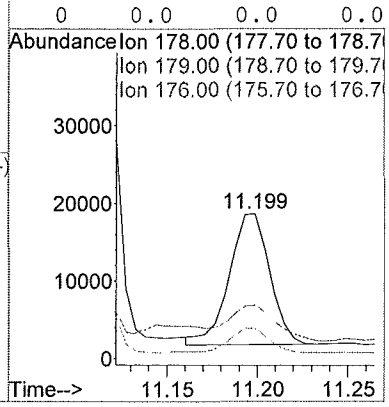


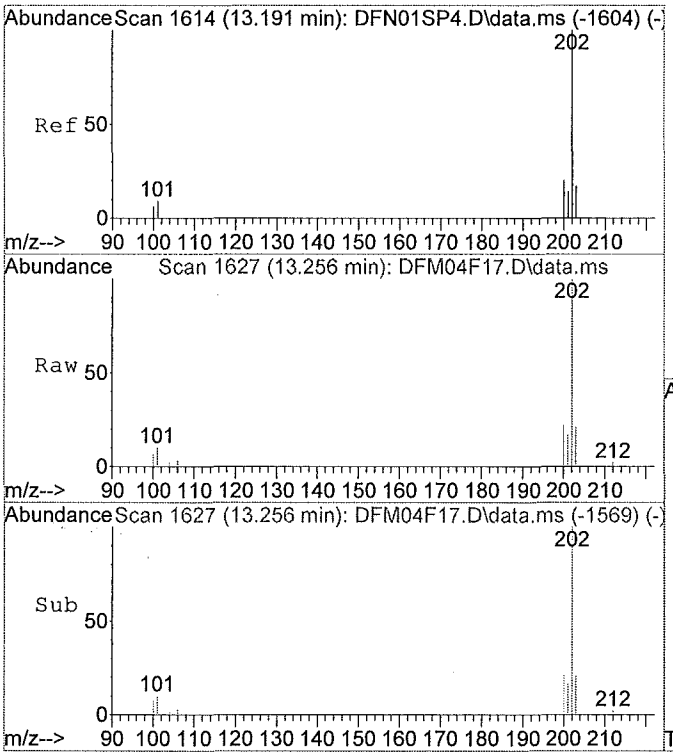


#12
Anthracene
Concen: 0.05 ug/ml
RT: 11.20 min Scan# 1247
Delta R.T. 0.01 min
Lab File: DFM04F17.D
Acq: 07/15/2015 12:36

Tgt Ion:178 Resp: 26359

Ion	Ratio	Lower	Upper
178	100		
179	34.4	11.6	21.6#
176	18.5	13.9	25.7
0	0.0	0.0	0.0

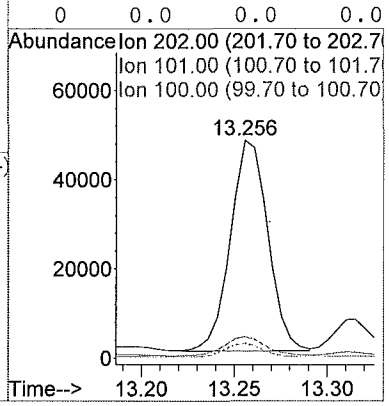


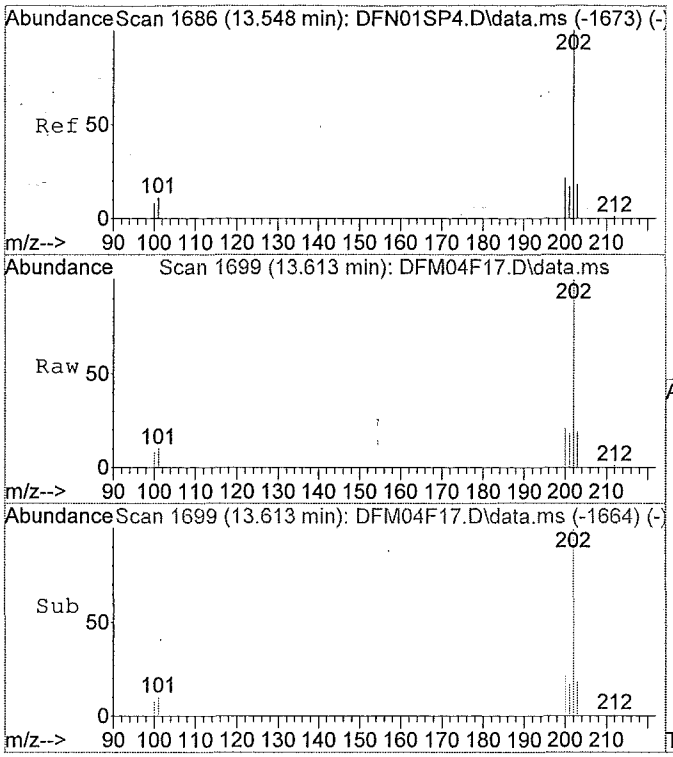


#14
Fluoranthene
Concen: 0.11 ug/ml
RT: 13.26 min Scan# 1627
Delta R.T. 0.00 min
Lab File: DFM04F17.D
Acq: 07/15/2015 12:36

Tgt Ion:202 Resp: 66248

Ion	Ratio	Lower	Upper
202	100		
101	10.3	9.4	17.6
100	6.8	0.0	0.0#
0	0.0	0.0	0.0

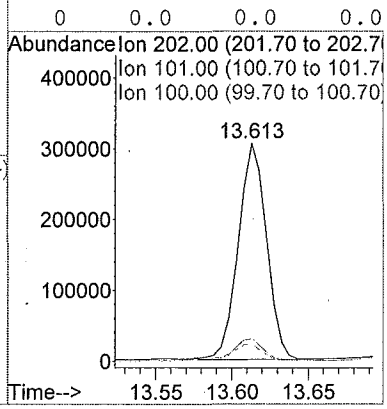


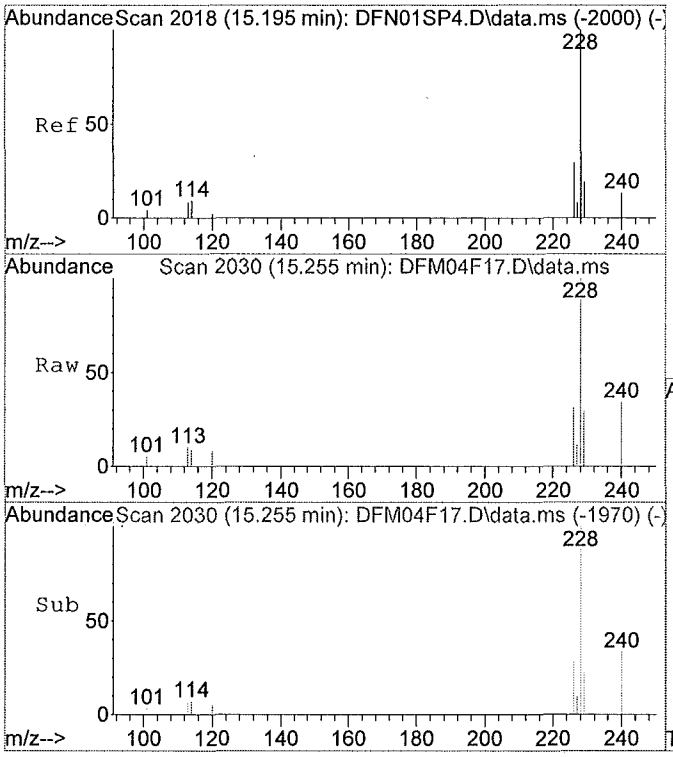


#16
Pyrene
Concen: 0.61 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. 0.00 min
Lab File: DFM04F17.D
Acq: 07/15/2015 12:36

Tgt Ion:202 Resp: 392149

Ion	Ratio	Lower	Upper
202	100		
101	10.8	10.6	19.6
100	10.3	9.4	17.4
0	0.0	0.0	0.0

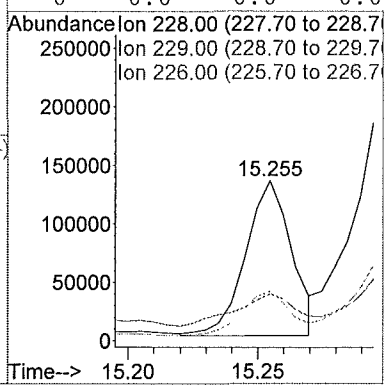


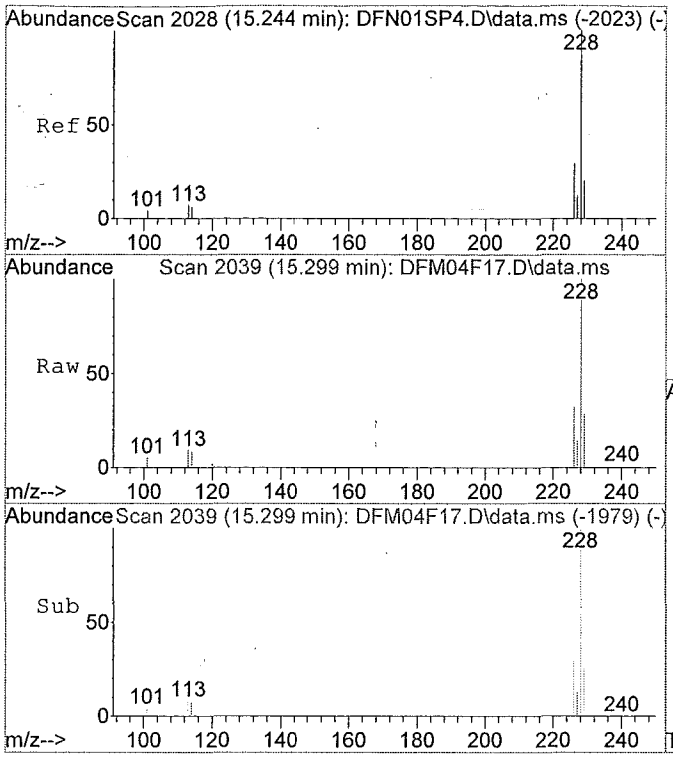


#17
Benzo(a)anthracene
Concen: 0.30 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. 0.00 min
Lab File: DFM04F17.D
Acq: 07/15/2015 12:36

Tgt Ion:228 Resp: 163124

Ion	Ratio	Lower	Upper
228	100		
229	38.6	14.5	26.9#
226	30.2	18.5	34.3
0	0.0	0.0	0.0

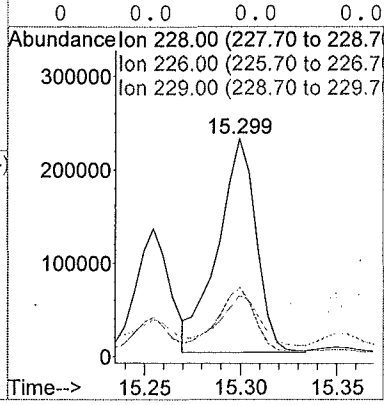


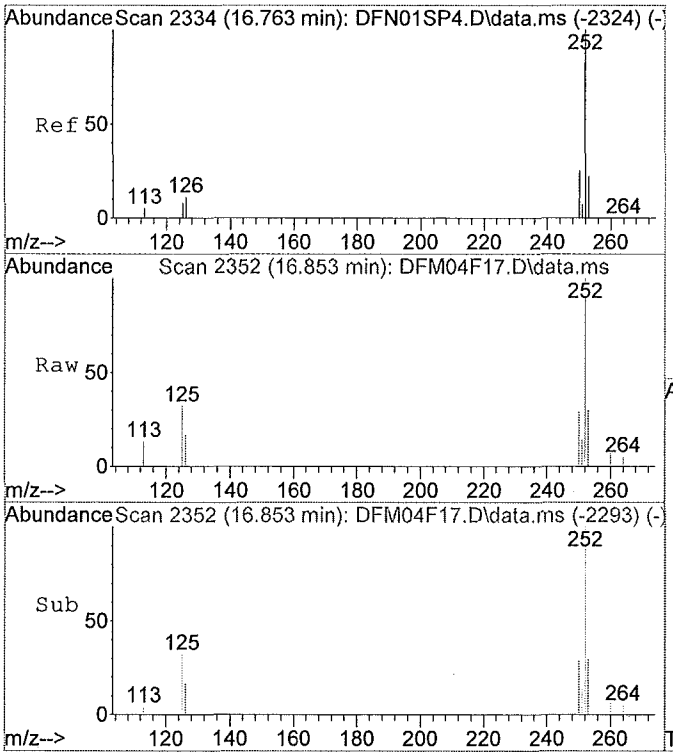


#18
Chrysene
Concen: 0.55 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFM04F17.D
Acq: 07/15/2015 12:36

Tgt Ion:228 Resp: 316873

Ion	Ratio	Lower	Upper
228	100		
226	31.1	19.7	36.7
229	28.1	14.5	26.9#
0	0.0	0.0	0.0

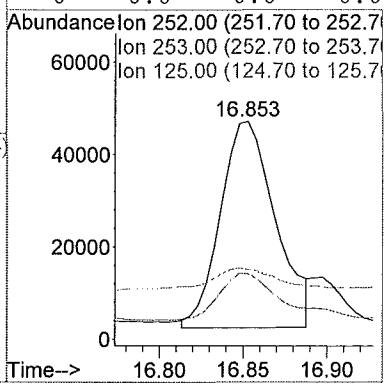


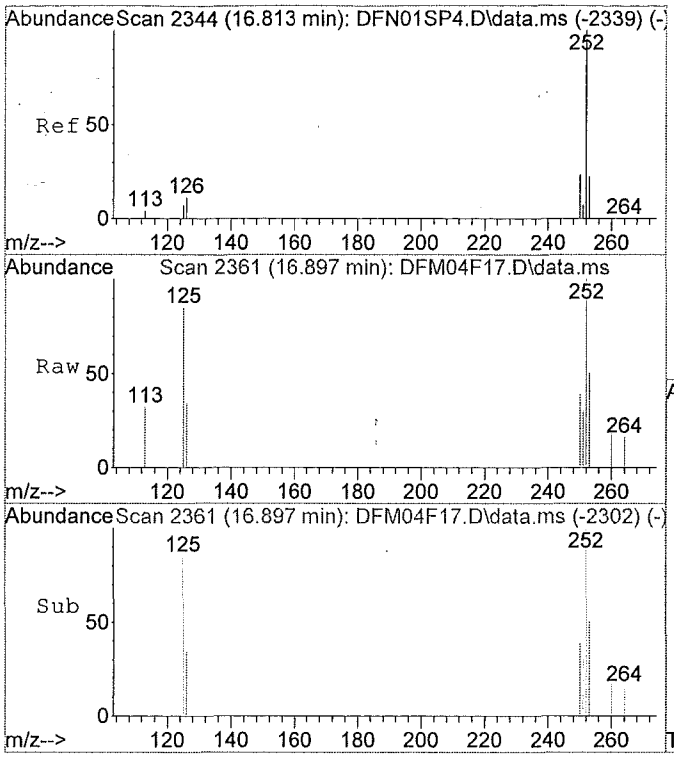


#20
Benzo(b)fluoranthene
Concen: 0.17 ug/ml m
RT: 16.85 min Scan# 2352
Delta R.T. 0.00 min
Lab File: DFM04F17.D
Acq: 07/15/2015 12:36

Tgt Ion:252 Resp: 102212

Ion	Ratio	Lower	Upper
252	100		
253	25.3	15.3	28.3
125	0.0	0.0	0.0
0	0.0	0.0	0.0

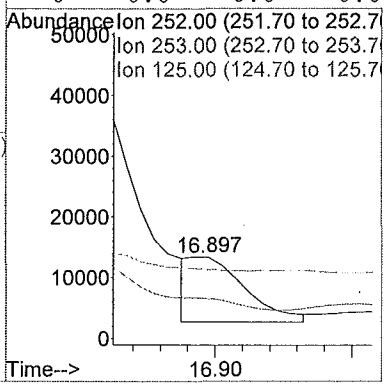


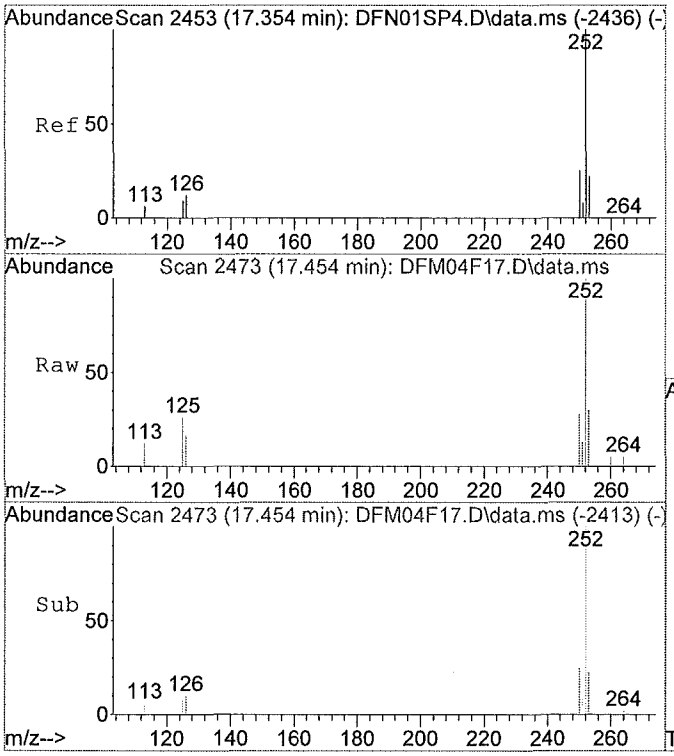


#21
Benzo(k)fluoranthene
Concen: 0.02 ug/ml m
RT: 16.90 min Scan# 2361
Delta R.T. -0.00 min
Lab File: DFM04F17.D
Acq: 07/15/2015 12:36

Tgt Ion:252 Resp: 15104

Ion	Ratio	Lower	Upper
252	100		
253	171.1	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

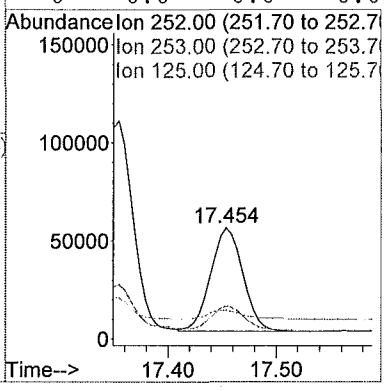


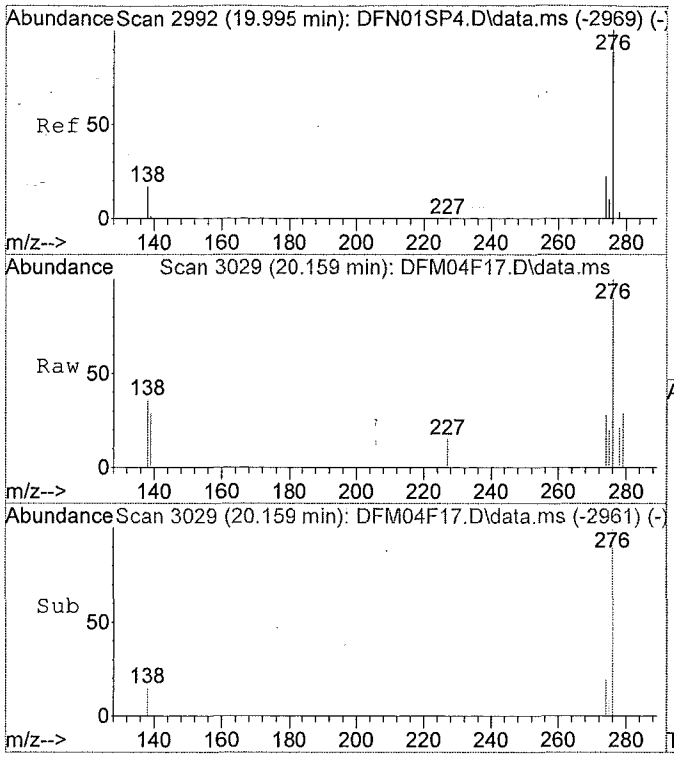


#22
Benzo(a)pyrene
Concen: 0.19 ug/ml
RT: 17.45 min Scan# 2473
Delta R.T. 0.00 min
Lab File: DFM04F17.D
Acq: 07/15/2015 12:36

Tgt Ion:252 Resp: 109208

Ion	Ratio	Lower	Upper
252	100		
253	24.1	15.0	27.8
125	11.0	0.0	0.0#
0	0.0	0.0	0.0

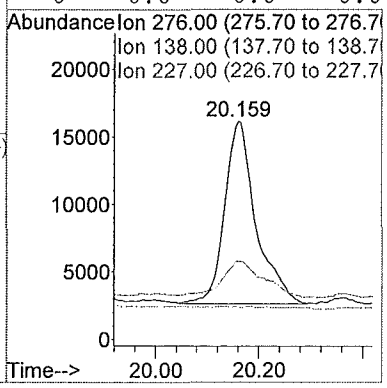


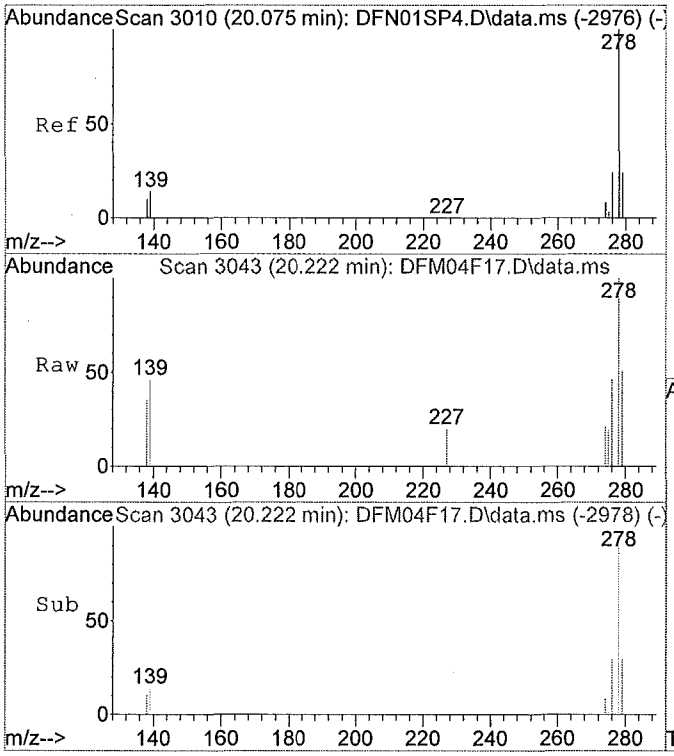


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.11 ug/ml
RT: 20.16 min Scan# 3029
Delta R.T. 0.00 min
Lab File: DFM04F17.D
Acq: 07/15/2015 12:36

Tgt Ion:276 Resp: 56698

Ion	Ratio	Lower	Upper
276	100		
138	26.7	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

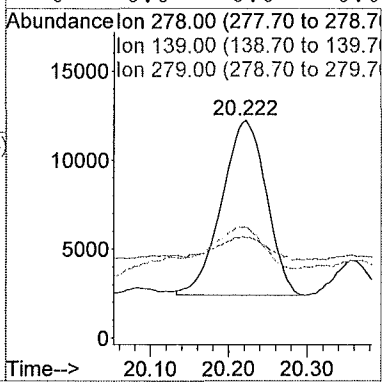


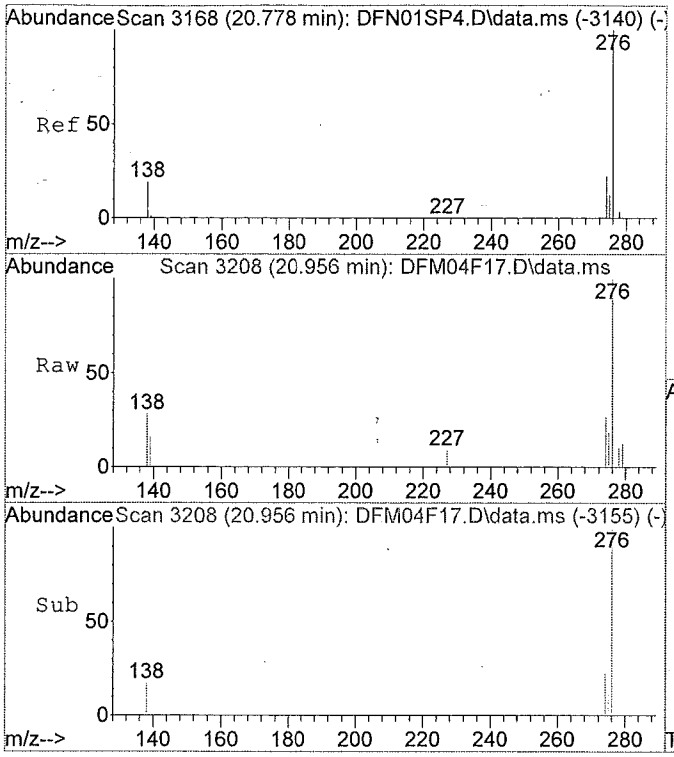


#24
Dibenzo(a,h)anthracene
Concen: 0.07 ug/ml
RT: 20.22 min Scan# 3043
Delta R.T. -0.01 min
Lab File: DFM04F17.D
Acq: 07/15/2015 12:36

Tgt Ion:278 Resp: 38898

Ion	Ratio	Lower	Upper
278	100		
139	14.7	0.0	0.0#
279	24.5	15.8	29.3
0	0.0	0.0	0.0

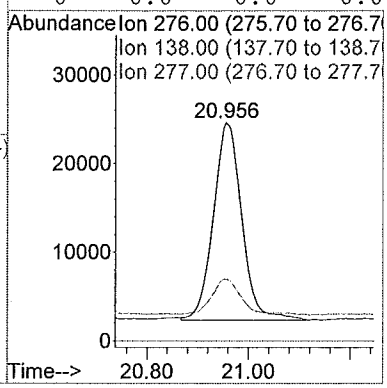




#25
Benzo(g,h,i)perylene
Concen: 0.15 ug/ml
RT: 20.96 min Scan# 3208
Delta R.T. 0.00 min
Lab File: DFM04F17.D
Acq: 07/15/2015 12:36

Tgt Ion:276 Resp: 86416

Ion	Ratio	Lower	Upper
276	100		
138	17.4	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.

F9M13

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375018

Sample wt/vol: 30.2 (g/mL) g Lab File ID: DFL17F18

Extraction: (Type) SONC

% Moisture: 16. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/14/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 30.0

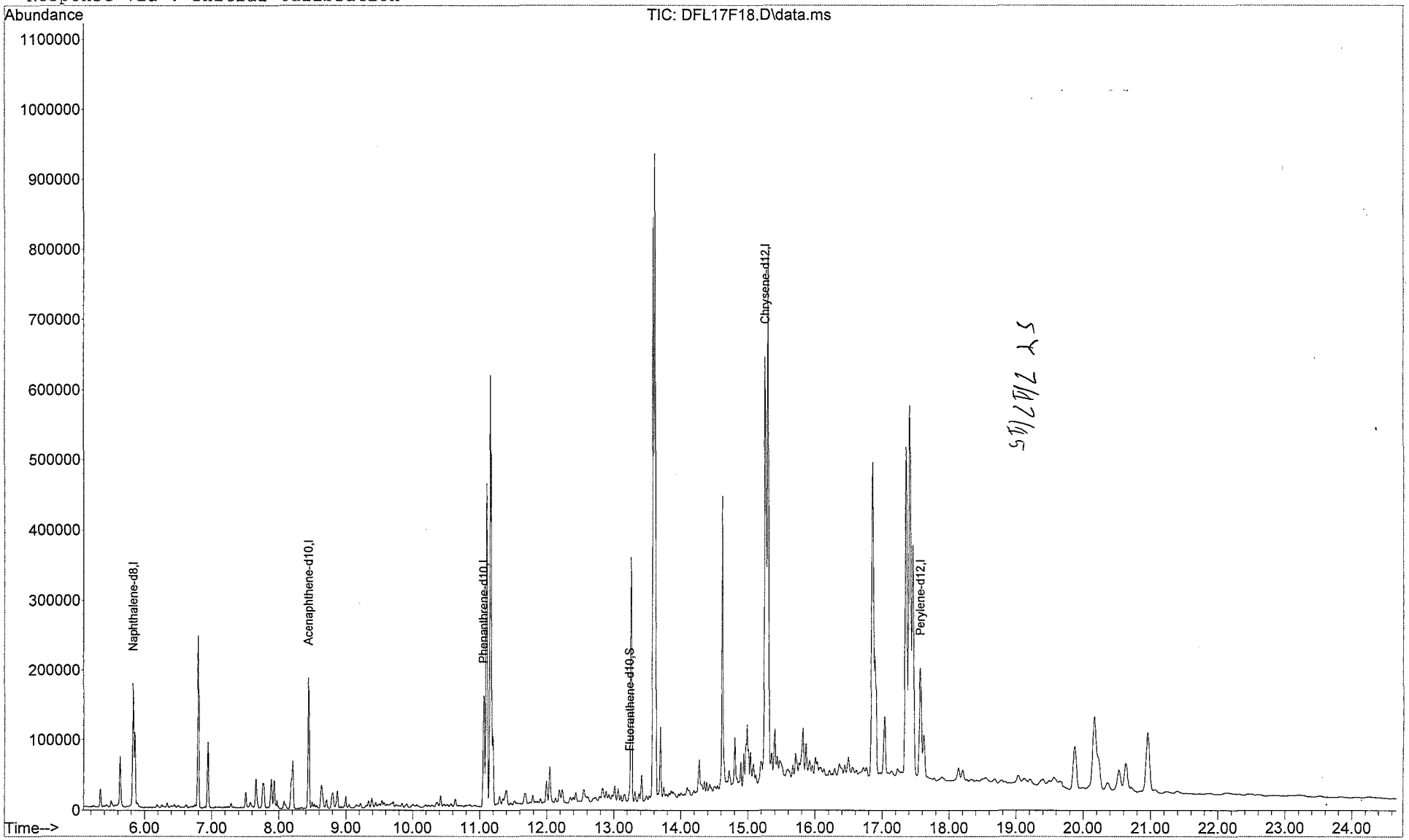
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	190	
91-57-6	2-Methylnaphthalene	430	
208-96-8	Acenaphthylene	130	
83-32-9	Acenaphthene	120	U
86-73-7	Fluorene	120	U
87-86-5	Pentachlorophenol	240	U
85-01-8	Phenanthrene	940	
120-12-7	Anthracene	200	
206-44-0	Fluoranthene	470	
129-00-0	Pyrene	1000	
56-55-3	Benzo(a)anthracene	640	
218-01-9	Chrysene	990	
205-99-2	Benzo(b)fluoranthene	790	
207-08-9	Benzo(k)fluoranthene	220	
50-32-8	Benzo(a)pyrene	550	
193-39-5	Indeno(1,2,3-cd)pyrene	430	
53-70-3	Dibenzo(a,h)anthracene	140	
191-24-2	Benzo(g,h,i)perylene	320	

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL17F18.D Vial: 17
Acq On : 07/14/2015 22:14 Operator: DJC
Sample : 1515375018 F9M13 (30) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 12:16:25 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



SY 7/17/15

Quantitation Report

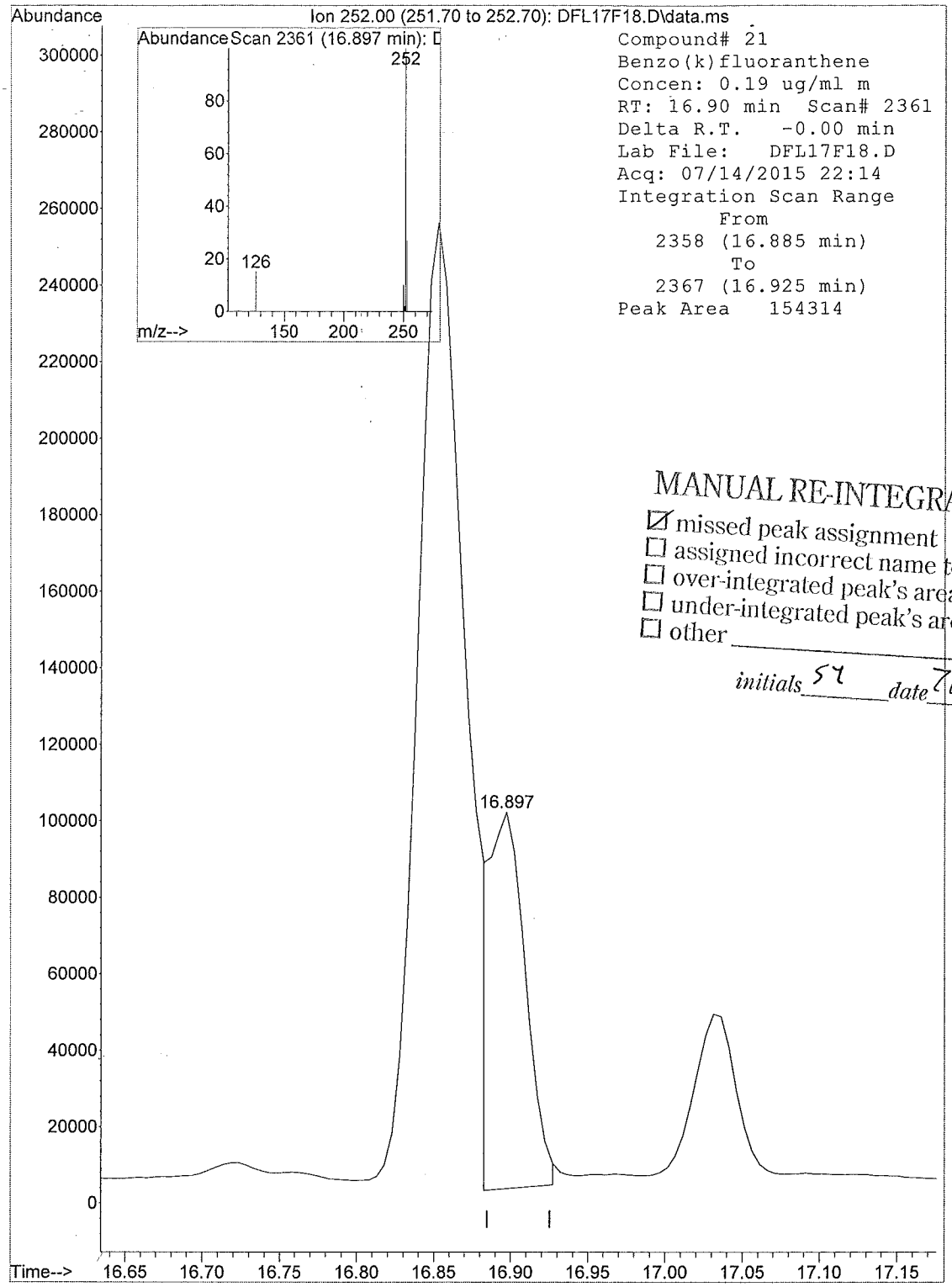
Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL17F18.D Vial: 17
Acq On : 07/14/2015 22:14 Operator: DJC
Sample : 1515375018 F9M13 (30) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 12:16:25 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	189550	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	122225	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	213887	0.40 ug/ml	
15) Chrysene-d12	15.26	240	250865	0.40 ug/ml	
19) Perylene-d12	17.57	264	256903	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	4853	0.016ug/mL	
13) Fluoranthene-d10	13.23	212	13008	0.022ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.86	128	81354	0.165ug/ml	96
4) 2-Methylnaphthalene	6.80	142	115115	0.362ug/ml	99
6) Acenaphthylene	8.20	152	59579	0.111ug/ml	94
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.10	178	493378	0.801ug/ml	98
12) Anthracene	11.19	178	103901	0.173ug/ml	96
14) Fluoranthene	13.26	202	278279	0.397ug/ml	91
16) Pyrene	13.61	202	670400	0.852ug/ml	89
17) Benzo(a)anthracene	15.25	228	363286	0.543ug/ml	82
18) Chrysene	15.30	228	593251	0.839ug/ml	96
20) Benzo(b)fluoranthene	16.85	252	533919	0.667ug/ml	98
21) Benzo(k)fluoranthene	16.90	252	154314	0.186ug/ml m 7/17/15	97
22) Benzo(a)pyrene	17.45	252	356551	0.466ug/ml	95
23) Indeno(1,2,3-c,d)pyrene	20.16	276	243128	0.363ug/ml	100
24) Dibenzo(a,h)anthracene	20.23	278	89634	0.121ug/ml	89
25) Benzo(g,h,i)perylene	20.96	276	204493	0.272ug/ml	70

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

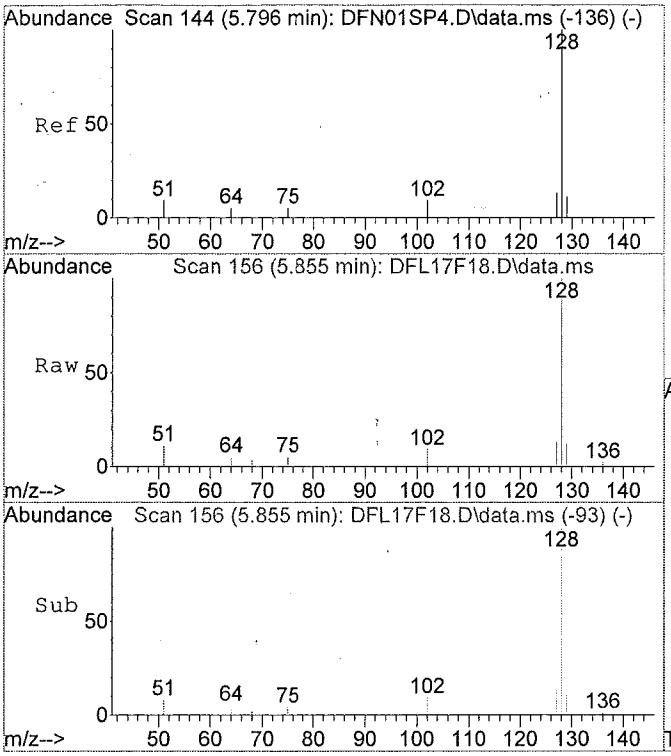
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☒ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

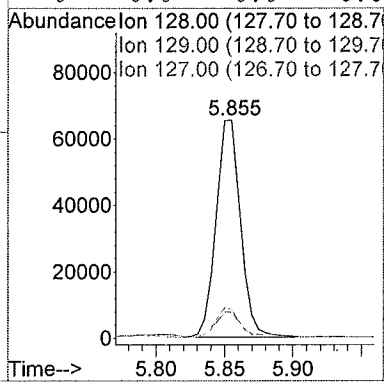
initials SY *date* 7/17/15

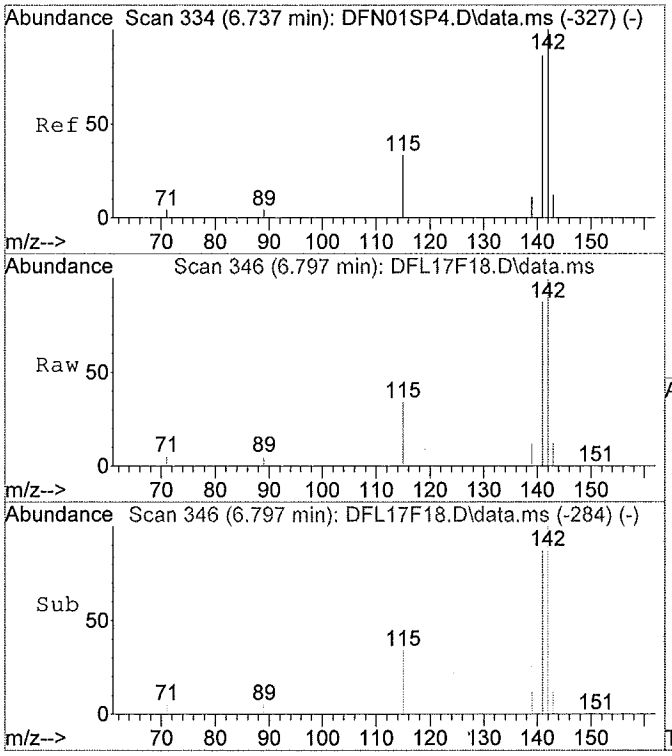


#2
Naphthalene
Concen: 0.16 ug/ml
RT: 5.86 min Scan# 156
Delta R.T. 0.01 min
Lab File: DFL17F18.D
Acq: 07/14/2015 22:14

Tgt Ion:128 Resp: 81354

Ion	Ratio	Lower	Upper
128	100		
129	13.6	0.0	0.0#
127	13.9	11.1	20.5
0	0.0	0.0	0.0

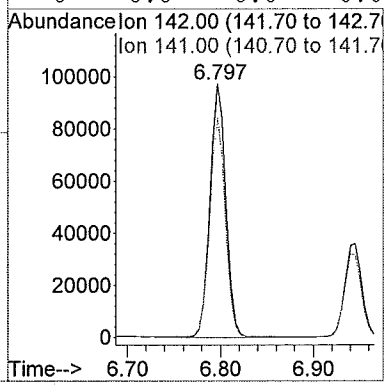


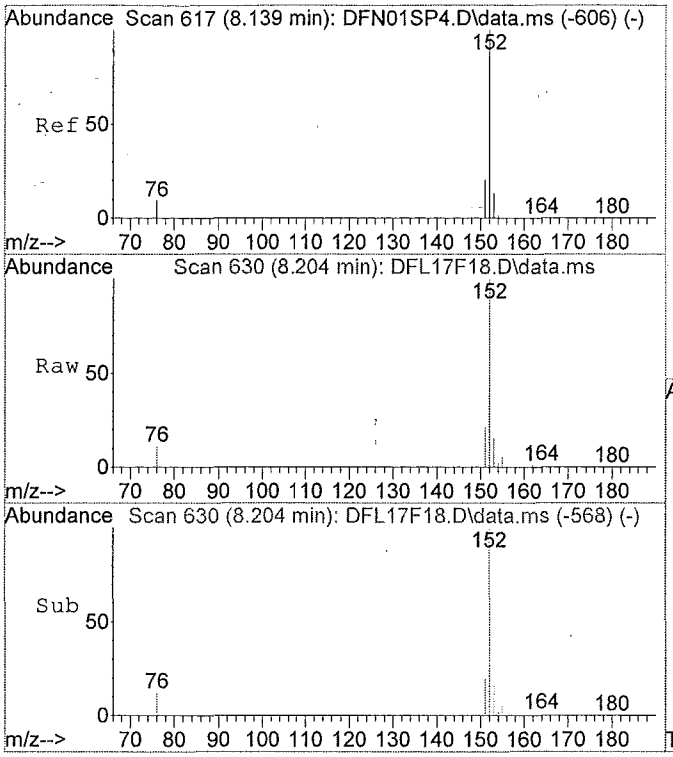


#4
2-Methylnaphthalene
Concen: 0.36 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.01 min
Lab File: DFL17F18.D
Acq: 07/14/2015 22:14

Tgt Ion:142 Resp: 115115

Ion	Ratio	Lower	Upper
142	100		
141	86.4	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

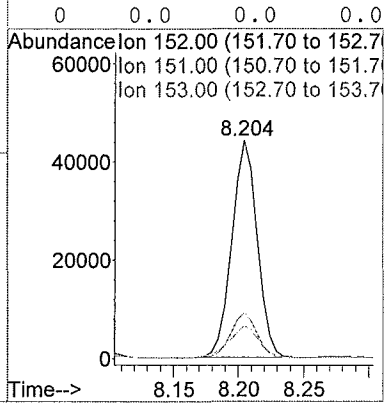


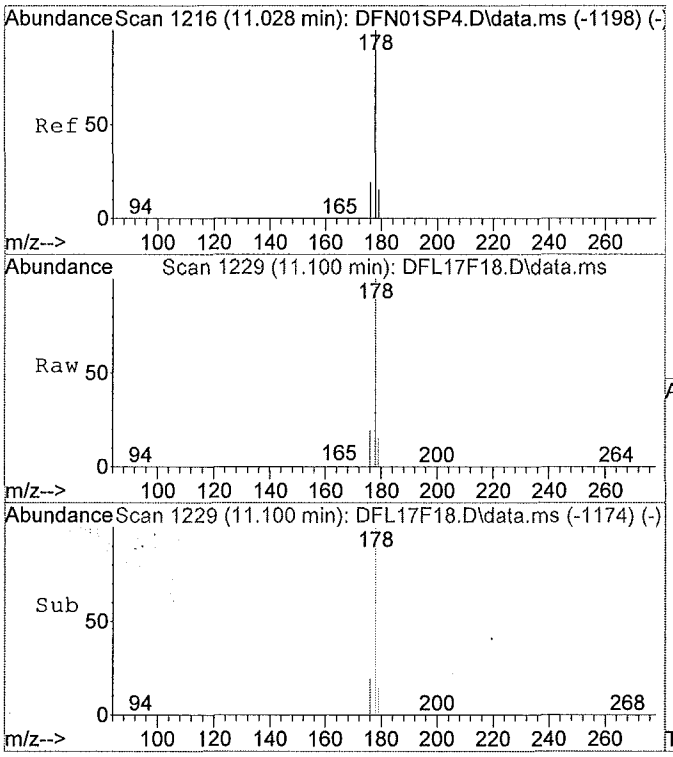


#6
Acenaphthylene
Concen: 0.11 ug/ml
RT: 8.20 min Scan# 630
Delta R.T. 0.01 min
Lab File: DFL17F18.D
Acq: 07/14/2015 22:14

Tgt Ion:152 Resp: 59579

Ion	Ratio	Lower	Upper
152	100		
151	21.0	15.5	28.7
153	17.3	8.8	16.4#
0	0.0	0.0	0.0

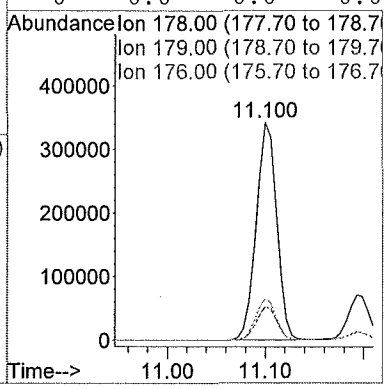


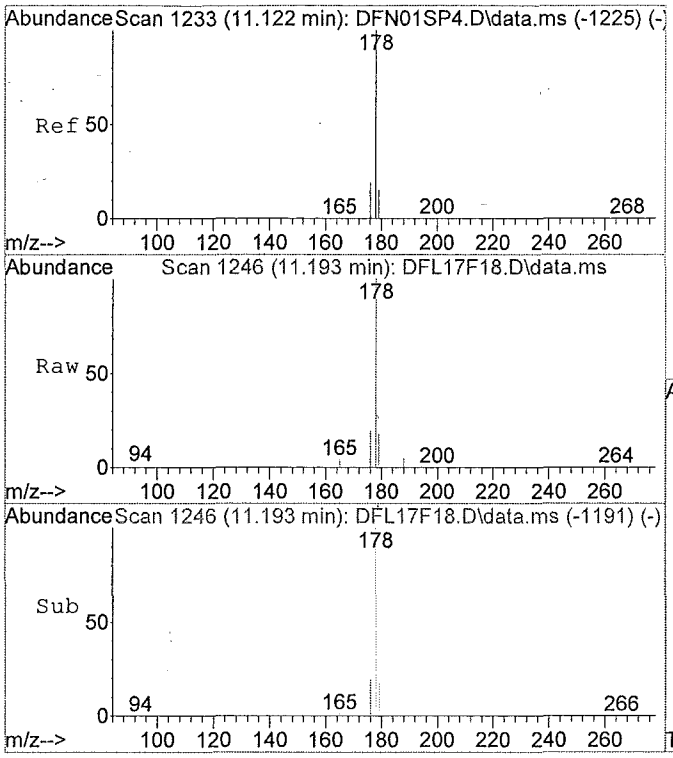


#11
Phenanthrene
Concen: 0.80 ug/ml
RT: 11.10 min Scan# 1229
Delta R.T. 0.00 min
Lab File: DFL17F18.D
Acq: 07/14/2015 22:14

Tgt Ion:178 Resp: 493378

Ion	Ratio	Lower	Upper
178	100		
179	15.5	11.1	20.5
176	19.1	14.1	26.1
0	0.0	0.0	0.0

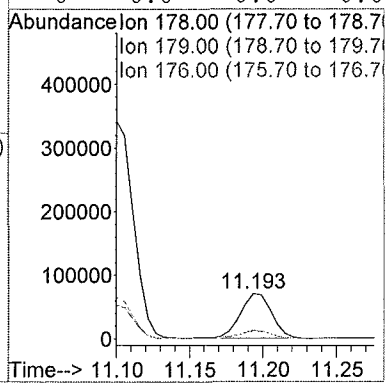


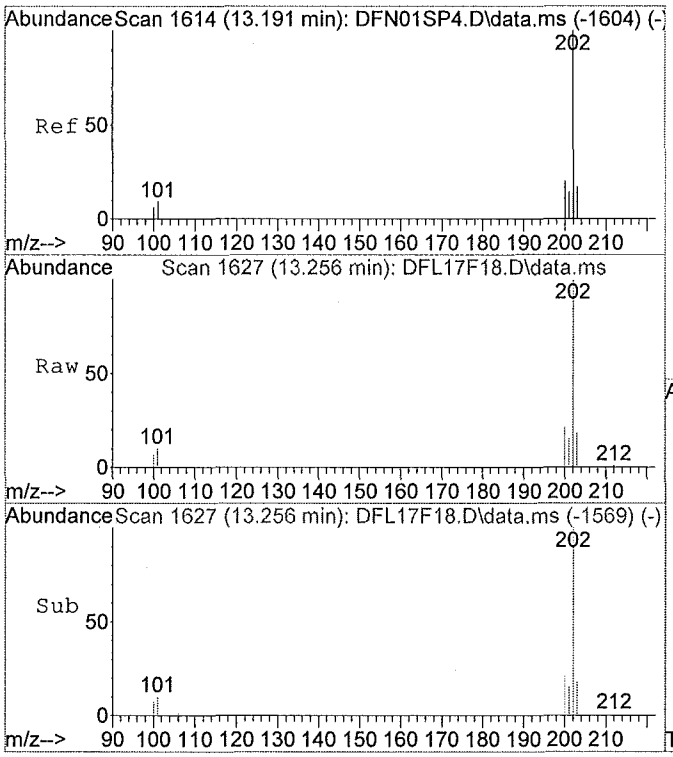


#12
Anthracene
Concen: 0.17 ug/ml
RT: 11.19 min Scan# 1246
Delta R.T. 0.00 min
Lab File: DFL17F18.D
Acq: 07/14/2015 22:14

Tgt Ion:178 Resp: 103901

Ion	Ratio	Lower	Upper
178	100		
179	19.5	11.6	21.6
176	18.6	13.9	25.7
0	0.0	0.0	0.0

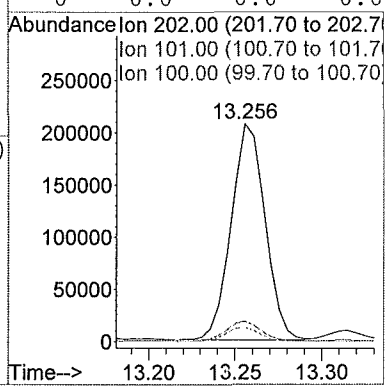


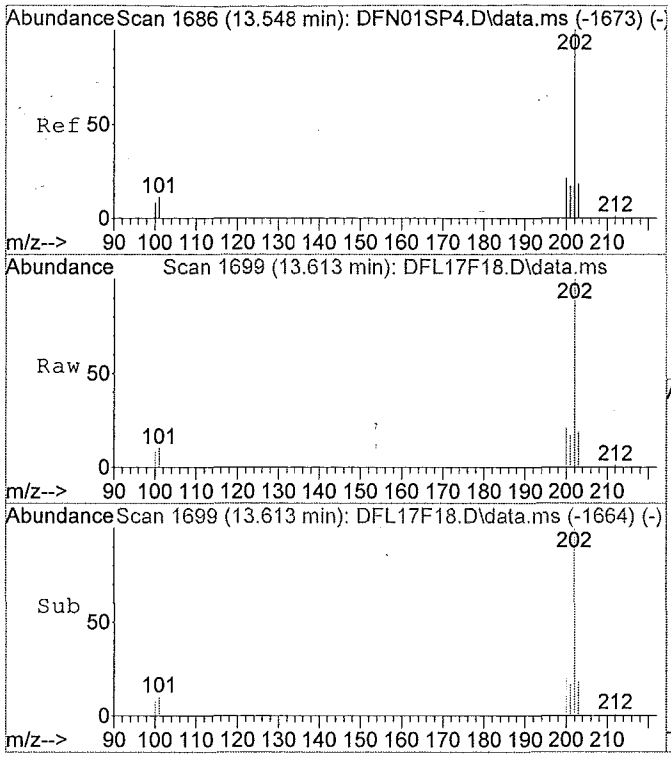


#14
Fluoranthene
Concen: 0.40 ug/ml
RT: 13.26 min Scan# 1627
Delta R.T. 0.00 min
Lab File: DFL17F18.D
Acq: 07/14/2015 22:14

Tgt Ion:202 Resp: 278279

Ion	Ratio	Lower	Upper
202	100		
101	9.8	9.4	17.6
100	6.7	0.0	0.0#
0	0.0	0.0	0.0

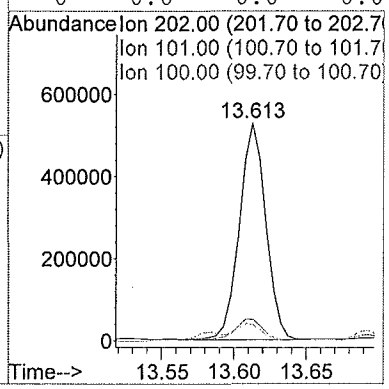


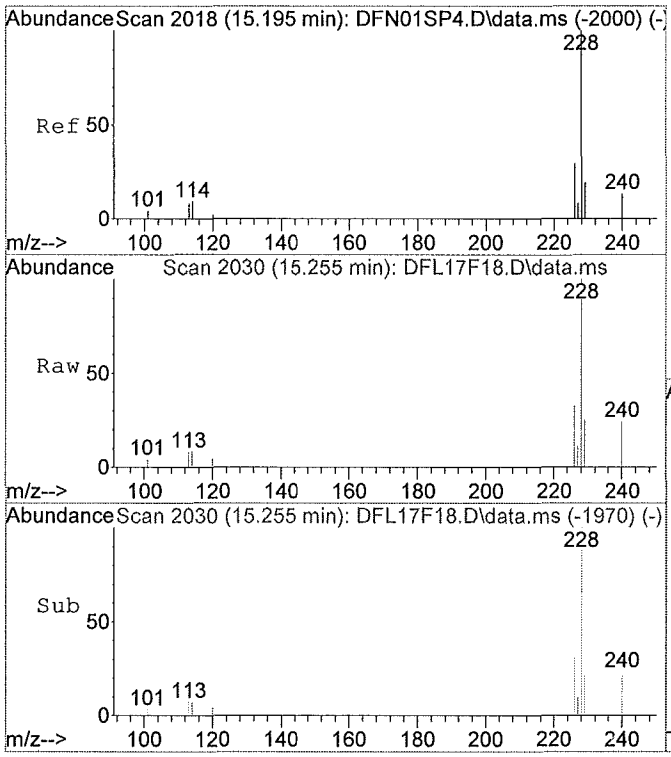


#16
Pyrene
Concen: 0.85 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. 0.00 min
Lab File: DFL17F18.D
Acq: 07/14/2015 22:14

Tgt Ion:202 Resp: 670400

Ion	Ratio	Lower	Upper
202	100		
101	11.5	10.6	19.6
100	8.1	9.4	17.4#
0	0.0	0.0	0.0

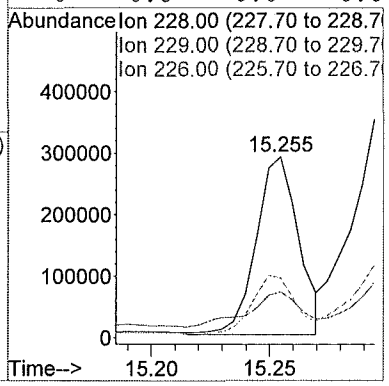


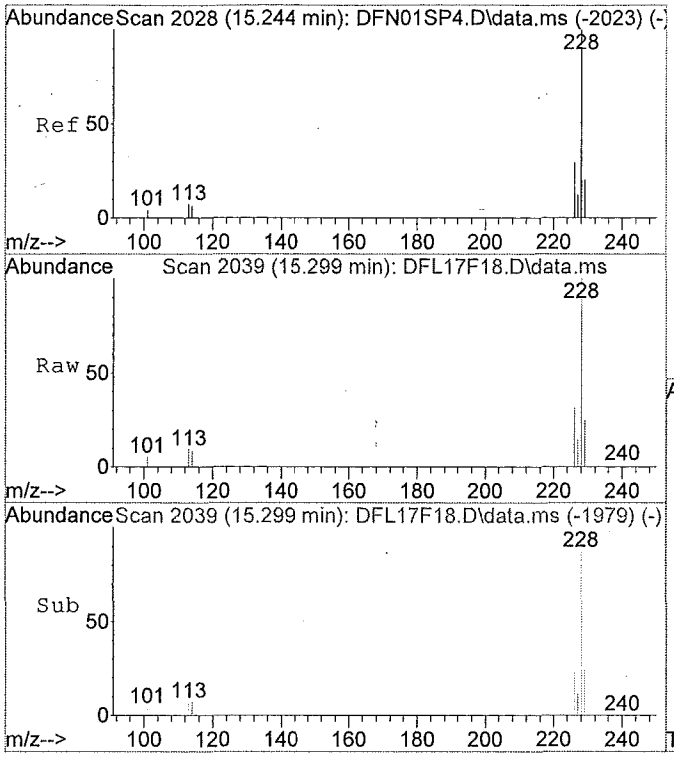


#17
Benzo(a)anthracene
Concen: 0.54 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. 0.00 min
Lab File: DFL17F18.D
Acq: 07/14/2015 22:14

Tgt Ion:228 Resp: 363286

Ion	Ratio	Lower	Upper
228	100		
229	30.7	14.5	26.9#
226	34.0	18.5	34.3
0	0.0	0.0	0.0

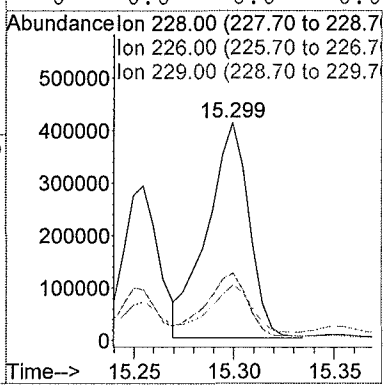


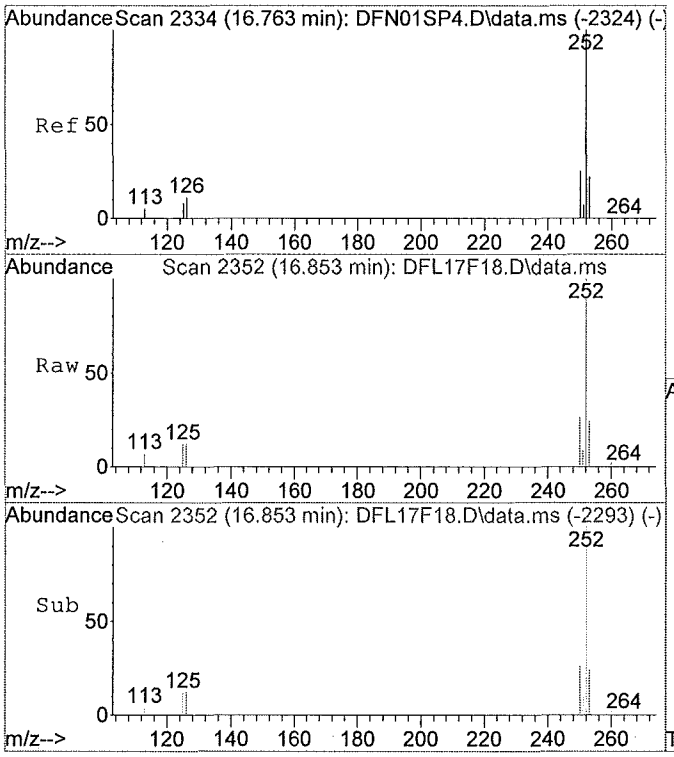


#18
Chrysene
Concen: 0.84 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFL17F18.D
Acq: 07/14/2015 22:14

Tgt Ion:228 Resp: 593251

Ion	Ratio	Lower	Upper
228	100		
226	29.2	19.7	36.7
229	24.1	14.5	26.9
0	0.0	0.0	0.0

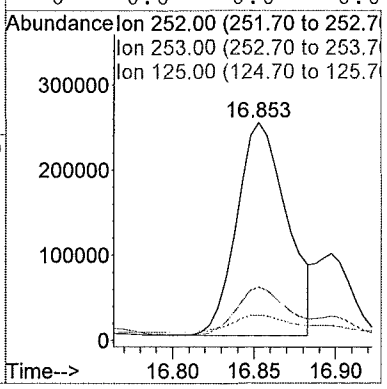


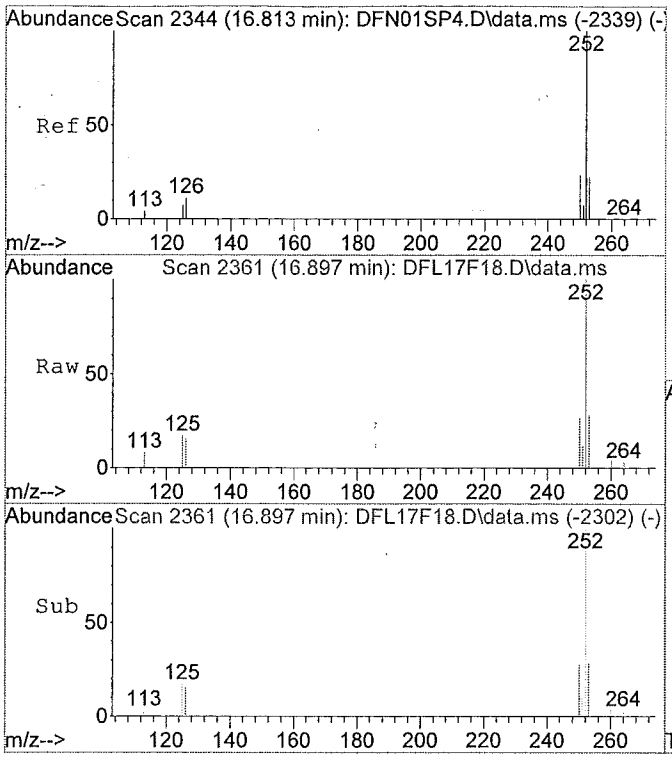


#20
Benzo(b)fluoranthene
Concen: 0.67 ug/ml
RT: 16.85 min Scan# 2352
Delta R.T. 0.00 min
Lab File: DFL17F18.D
Acq: 07/14/2015 22:14

Tgt Ion:252 Resp: 533919

Ion	Ratio	Lower	Upper
252	100		
253	22.6	15.3	28.3
125	10.5	0.0	0.0#
0	0.0	0.0	0.0

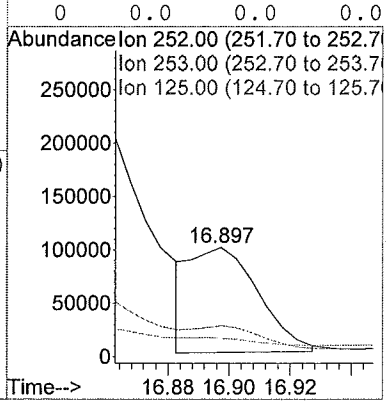


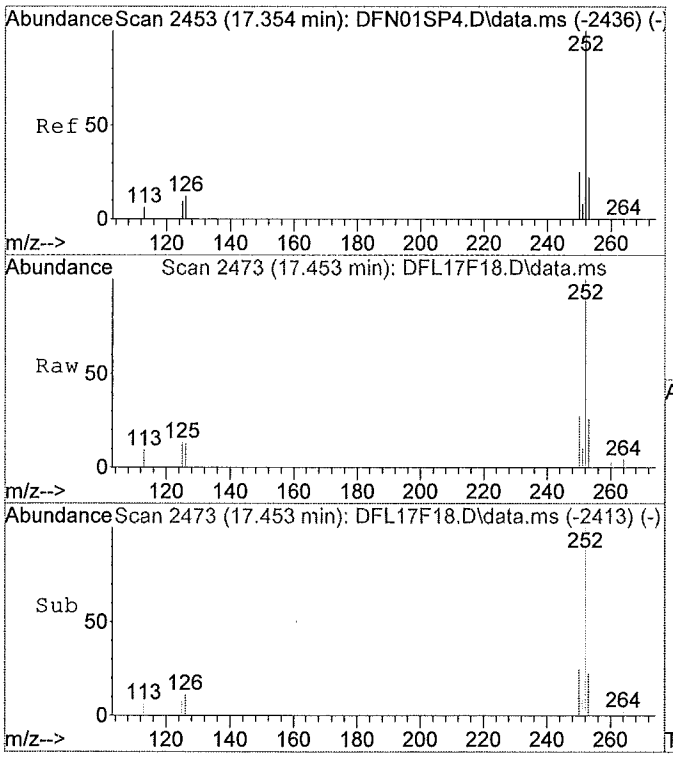


#21
Benzo(k)fluoranthene
Concen: 0.19 ug/ml m
RT: 16.90 min Scan# 2361
Delta R.T. -0.00 min
Lab File: DFL17F18.D
Acq: 07/14/2015 22:14

Tgt Ion:252 Resp: 154314

Ion	Ratio	Lower	Upper
252	100		
253	78.2	15.0	27.8#
125	36.3	0.0	0.0#
0	0.0	0.0	0.0

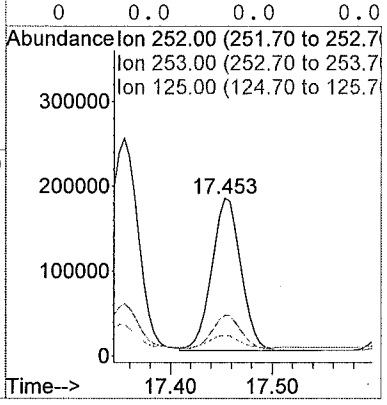


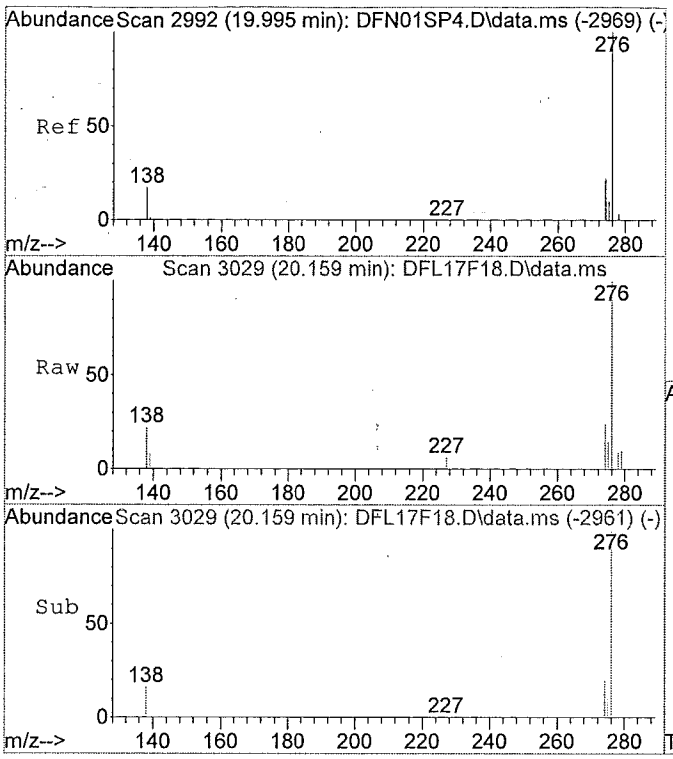


#22
Benzo(a)pyrene
Concen: 0.47 ug/ml
RT: 17.45 min Scan# 2473
Delta R.T. 0.00 min
Lab File: DFL17F18.D
Acq: 07/14/2015 22:14

Tgt Ion:252 Resp: 356551

Ion	Ratio	Lower	Upper
252	100		
253	24.0	15.0	27.8
125	8.3	0.0	0.0#
0	0.0	0.0	0.0

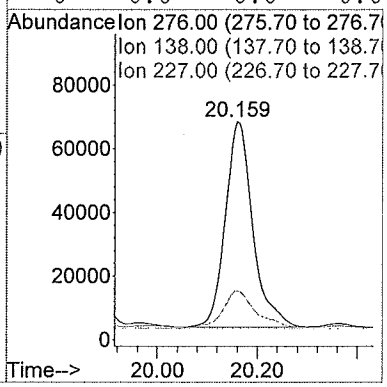


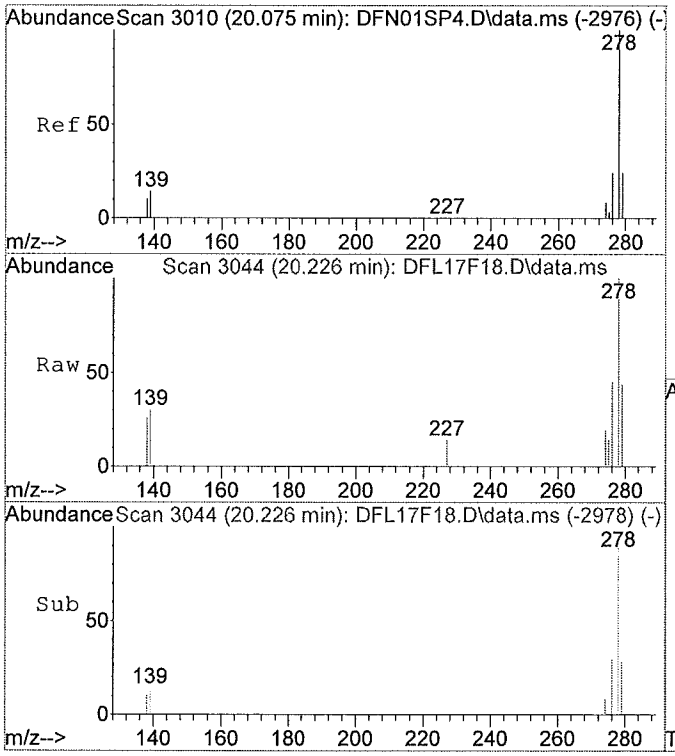


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.36 ug/ml
RT: 20.16 min Scan# 3029
Delta R.T. 0.00 min
Lab File: DFL17F18.D
Acq: 07/14/2015 22:14

Tgt Ion:276 Resp: 243128

Ion	Ratio	Lower	Upper
276	100		
138	21.2	0.0	0.0#
227	0.1	0.0	0.0#
0	0.0	0.0	0.0

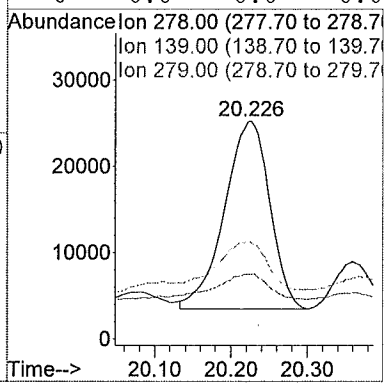


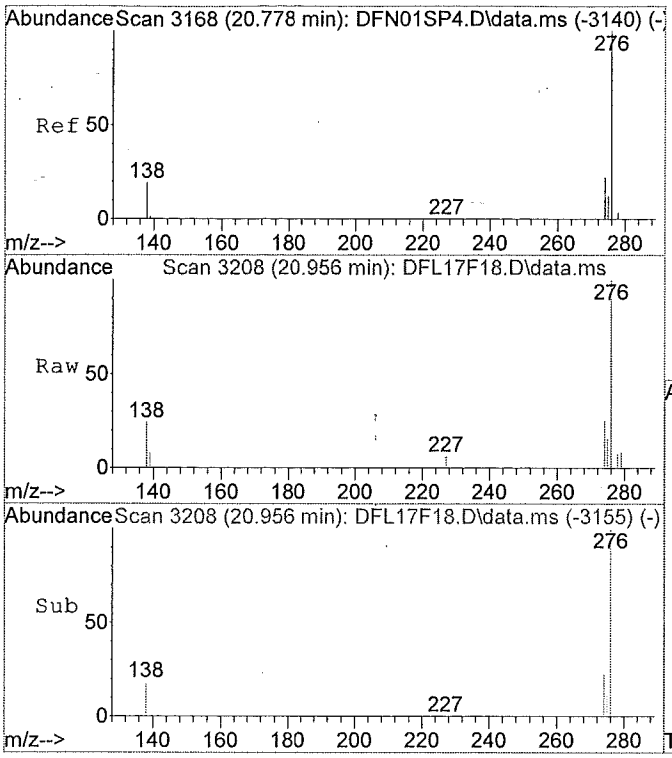


#24
Dibenzo(a,h)anthracene
Concen: 0.12 ug/ml
RT: 20.23 min Scan# 3044
Delta R.T. -0.00 min
Lab File: DFL17F18.D
Acq: 07/14/2015 22:14

Tgt Ion:278 Resp: 89634

Ion	Ratio	Lower	Upper
278	100		
139	17.6	0.0	0.0#
279	27.8	15.8	29.3
0	0.0	0.0	0.0

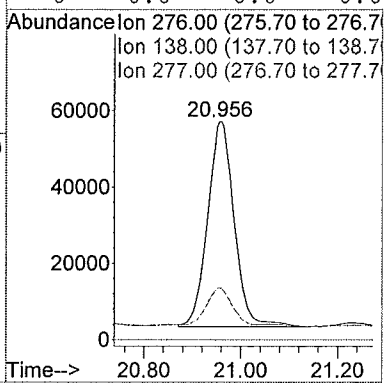




#25
Benzo(g,h,i)perylene
Concen: 0.27 ug/ml
RT: 20.96 min Scan# 3208
Delta R.T. 0.00 min
Lab File: DFL17F18.D
Acq: 07/14/2015 22:14

Tgt Ion:276 Resp: 204493

Ion	Ratio	Lower	Upper
276	100		
138	17.2	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.

F9M14

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375019

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DFL18F19

Extraction: (Type) SONC

% Moisture: 13. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/14/2015

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 10.0

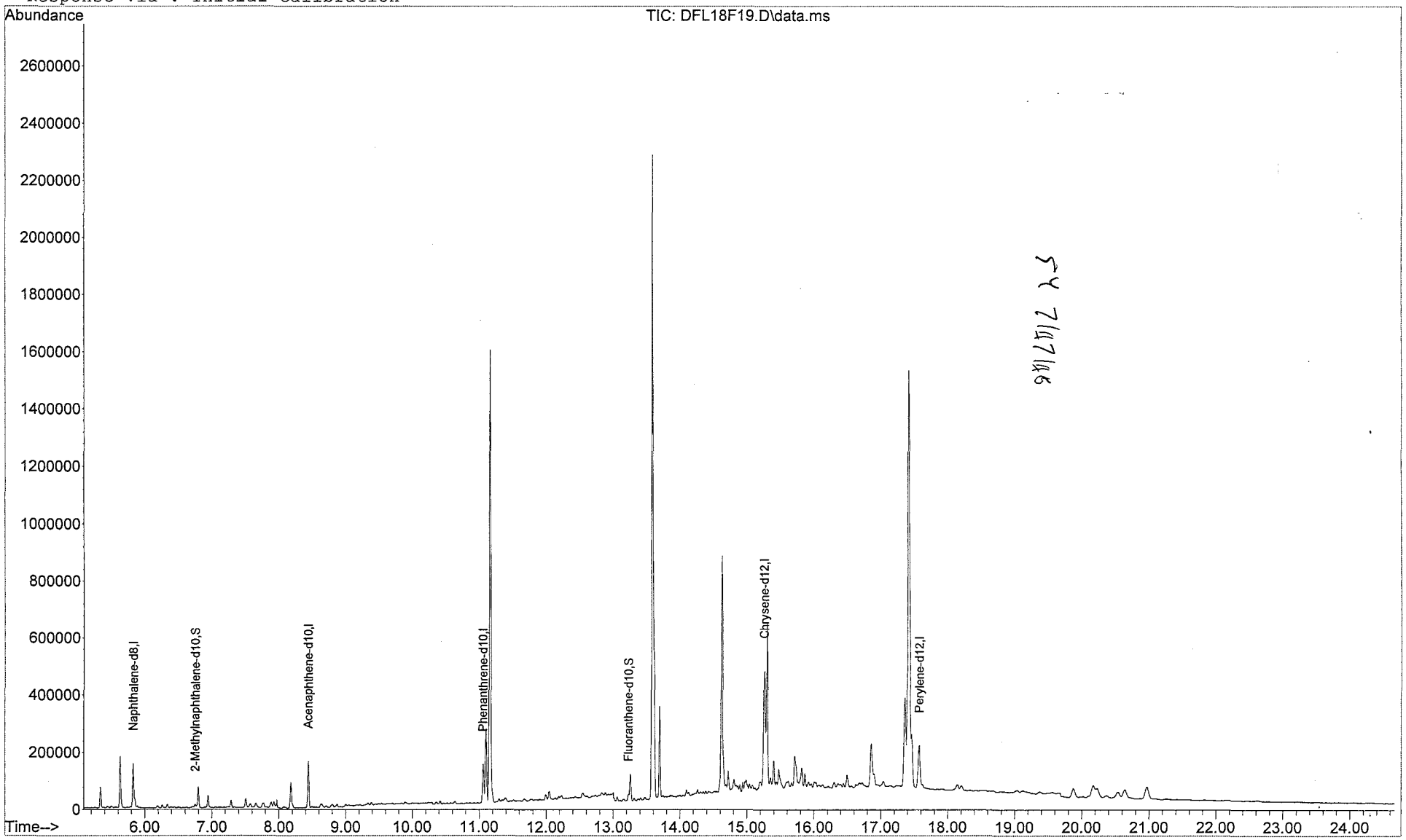
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	19.	J
91-57-6	2-Methylnaphthalene	48.	
208-96-8	Acenaphthylene	8.0	J
83-32-9	Acenaphthene	38.	U
86-73-7	Fluorene	38.	U
87-86-5	Pentachlorophenol	77.	U
85-01-8	Phenanthrene	200	
120-12-7	Anthracene	27.	J
206-44-0	Fluoranthene	47.	
129-00-0	Pyrene	190	
56-55-3	Benzo(a)anthracene	150	
218-01-9	Chrysene	240	
205-99-2	Benzo(b)fluoranthene	89.	
207-08-9	Benzo(k)fluoranthene	14.	J
50-32-8	Benzo(a)pyrene	100	
193-39-5	Indeno(1,2,3-cd)pyrene	59.	
53-70-3	Dibenzo(a,h)anthracene	33.	J
191-24-2	Benzo(g,h,i)perylene	55.	

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL18F19.D Vial: 18
Acq On : 07/14/2015 22:44 Operator: DJC
Sample : 1515375019 F9M14 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 12:16:54 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



SY 7/17/15

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL18F19.D Vial: 18
Acq On : 07/14/2015 22:44 Operator: DJC
Sample : 1515375019 F9M14 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 12:16:54 2015 Results File: DSOM_SIMJ2.RES

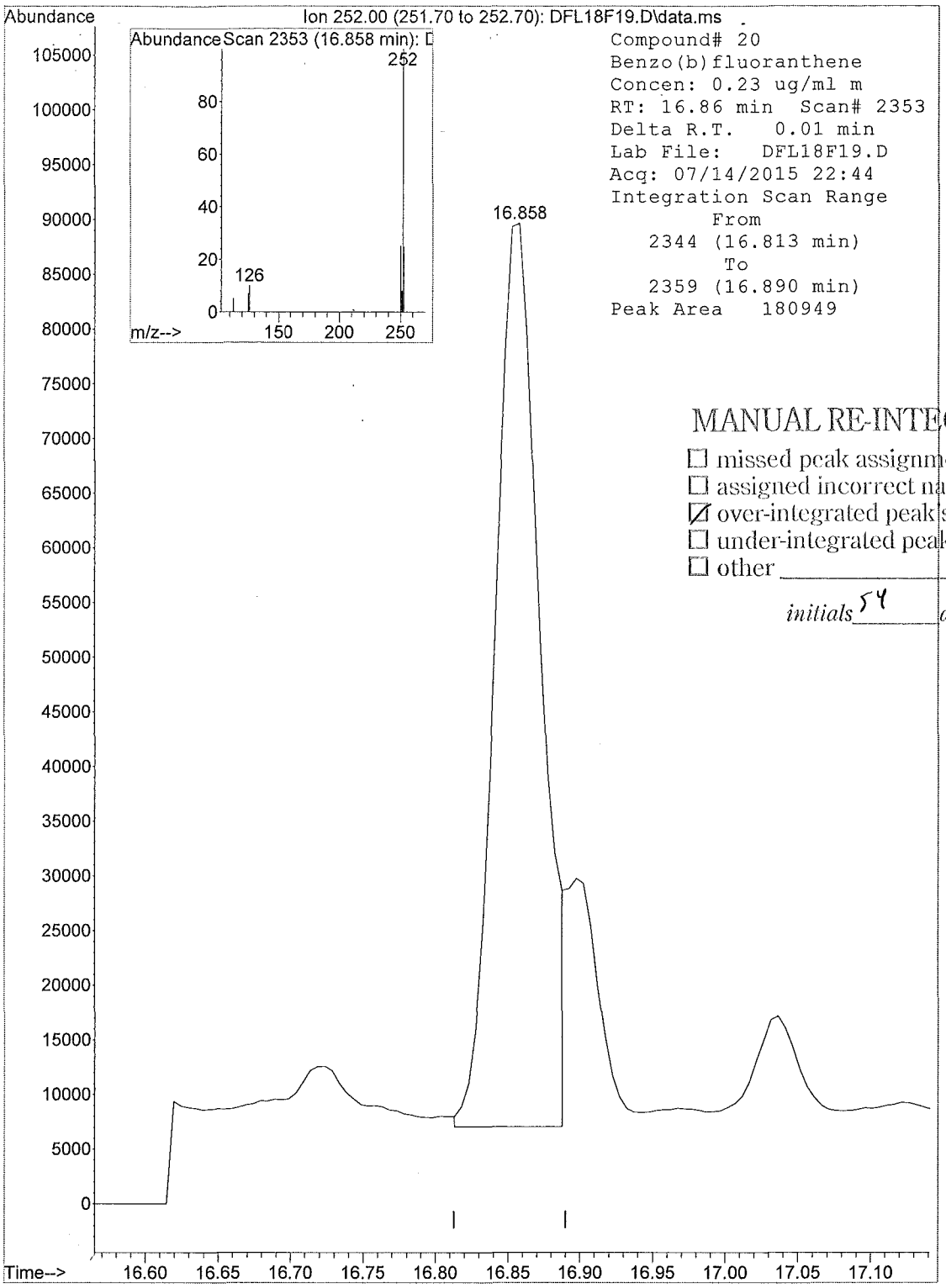
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	161176	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	105752	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	186367	0.40 ug/ml	
15) Chrysene-d12	15.27	240	231237	0.40 ug/ml	
19) Perylene-d12	17.57	264	247623	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	12286	0.047ug/mL	
13) Fluoranthene-d10	13.23	212	29586	0.058ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.85	128	20598	0.049ug/ml	96
4) 2-Methylnaphthalene	6.80	142	34214	0.126ug/ml	99
6) Acenaphthylene	8.20	152	9656	0.021ug/ml	79
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.10	178	276031	0.514ug/ml	99
12) Anthracene	11.19	178	36696	0.070ug/ml	98
14) Fluoranthene	13.26	202	75034	0.123ug/ml	89
16) Pyrene	13.61	202	362251	0.499ug/ml	78
17) Benzo(a)anthracene	15.25	228	242920	0.394ug/ml	87
18) Chrysene	15.30	228	416894	0.640ug/ml	93
20) Benzo(b)fluoranthene	16.86	252	180949	0.234ug/ml m SY 7/17/15	100
21) Benzo(k)fluoranthene	16.90	252	28973	0.036ug/ml m	99
22) Benzo(a)pyrene	17.46	252	200248	0.272ug/ml	94
23) Indeno(1,2,3-c,d)pyrene	20.17	276	99587	0.154ug/ml	100
24) Dibenzo(a,h)anthracene	20.23	278	61540	0.086ug/ml	95
25) Benzo(g,h,i)perylene	20.97	276	104968	0.145ug/ml	71

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 041257

M A N U A L I N T E G R A T I O N FOR Benzo(b)fluoranthene

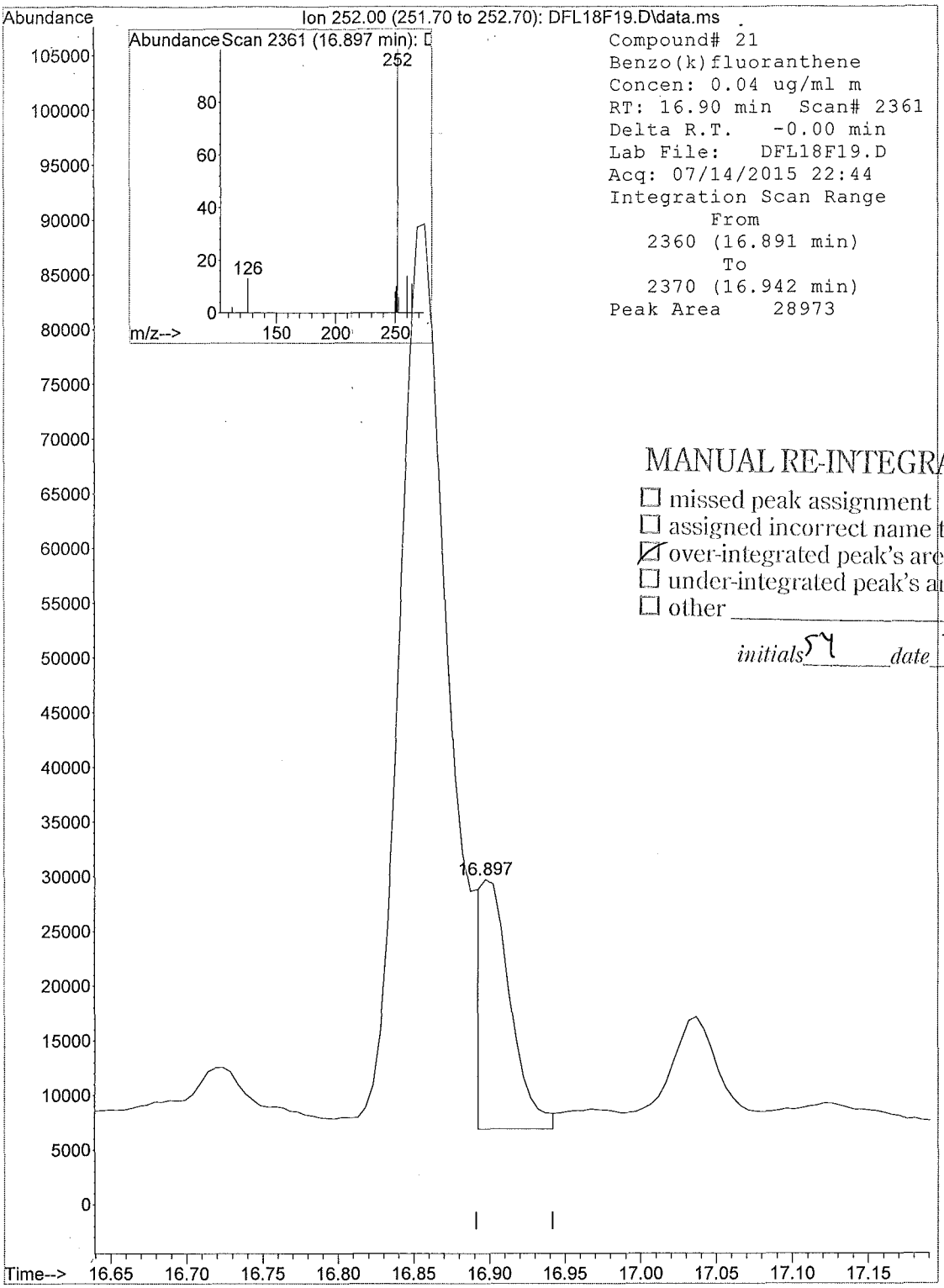


MANUAL RE-INTEGRATION

☐ missed peak assignment
☐ assigned incorrect name to peak
☑ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/17/15

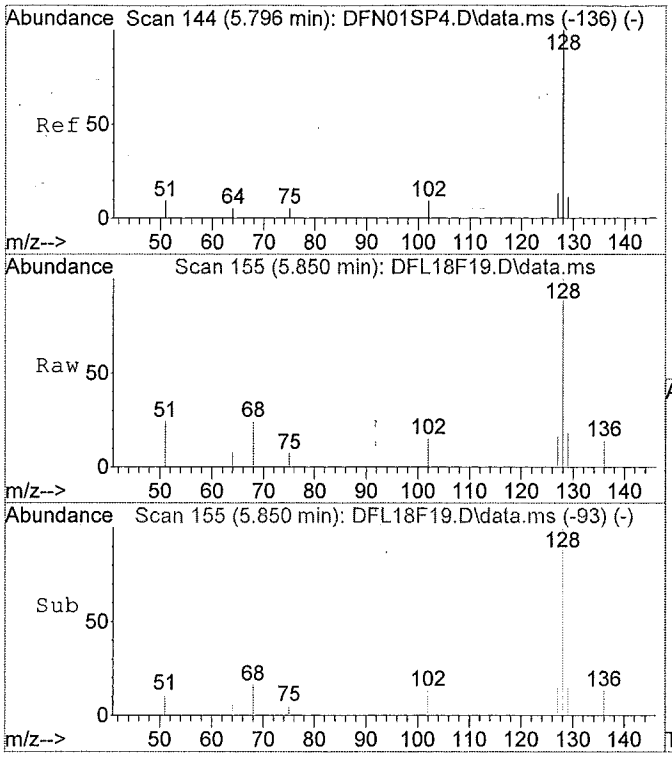
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

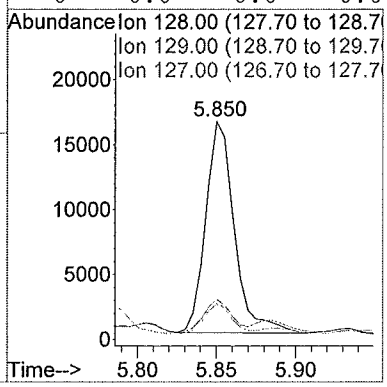
initials SY *date* 7/17/15

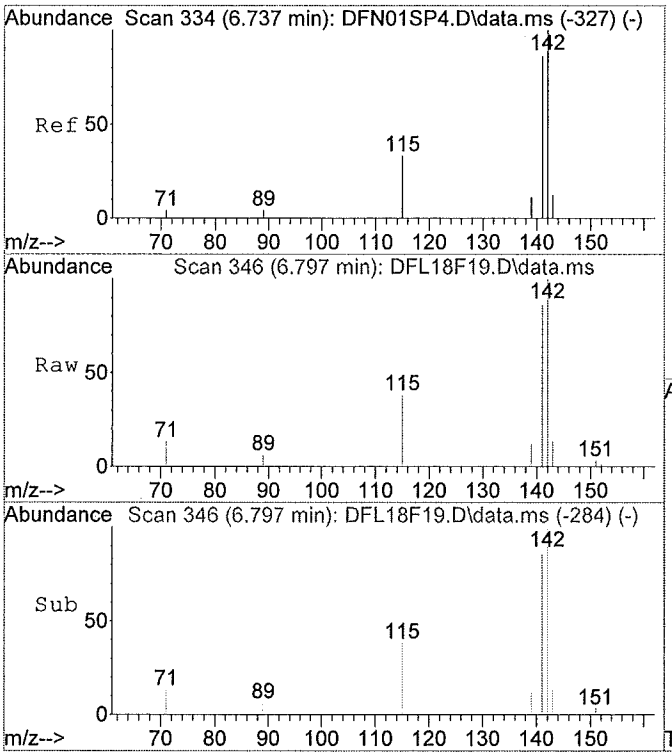


#2
Naphthalene
Concen: 0.05 ug/ml
RT: 5.85 min Scan# 155
Delta R.T. 0.01 min
Lab File: DFL18F19.D
Acq: 07/14/2015 22:44

Tgt Ion:128 Resp: 20598

Ion	Ratio	Lower	Upper
128	100		
129	16.6	0.0	0.0#
127	14.1	11.1	20.5
0	0.0	0.0	0.0

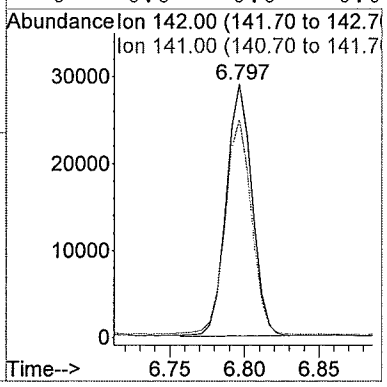


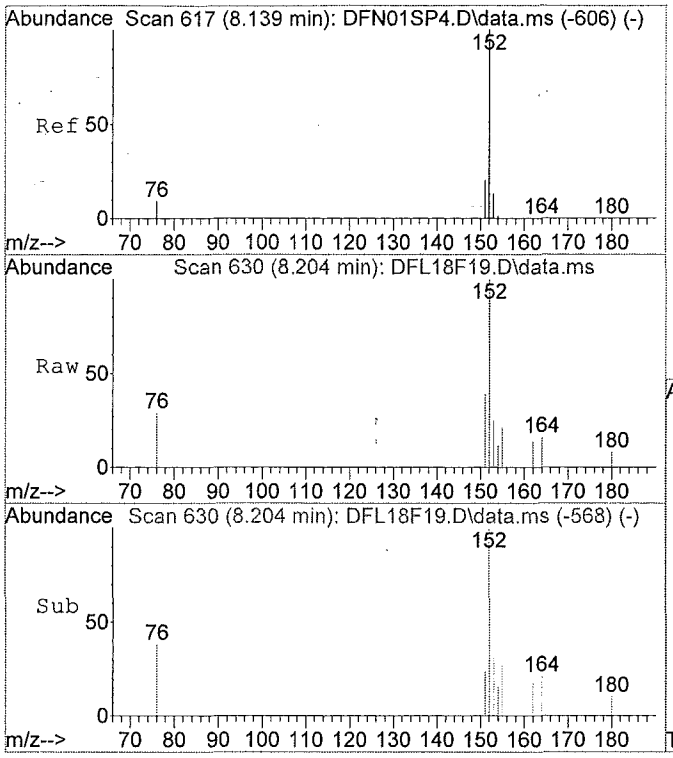


#4
2-Methylnaphthalene
Concen: 0.13 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.01 min
Lab File: DFL18F19.D
Acq: 07/14/2015 22:44

Tgt Ion:142 Resp: 34214

Ion	Ratio	Lower	Upper
142	100		
141	88.1	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

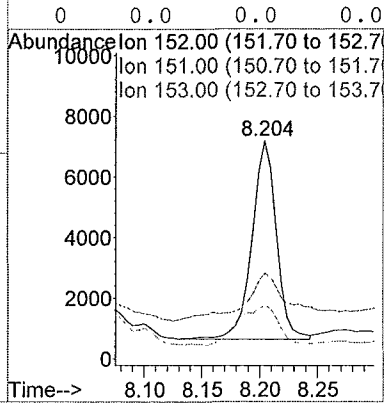


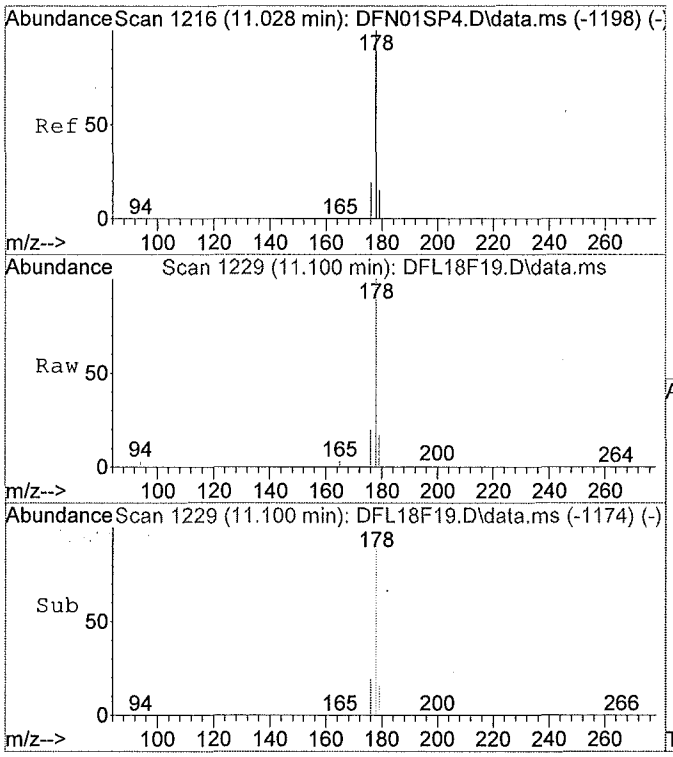


#6
Acenaphthylene
Concen: 0.02 ug/ml
RT: 8.20 min Scan# 630
Delta R.T. 0.01 min
Lab File: DFL18F19.D
Acq: 07/14/2015 22:44

Tgt Ion:152 Resp: 9656

Ion	Ratio	Lower	Upper
152	100		
151	24.9	15.5	28.7
153	31.3	8.8	16.4#
0	0.0	0.0	0.0

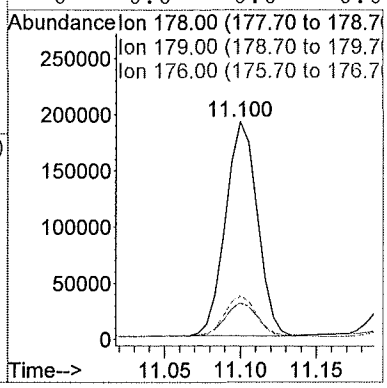


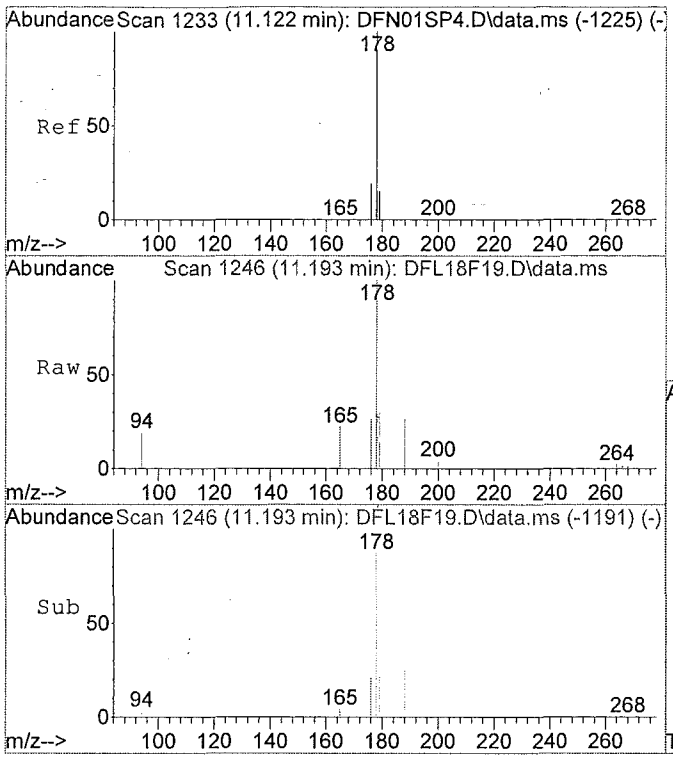


#11
Phenanthrene
Concen: 0.51 ug/ml
RT: 11.10 min Scan# 1229
Delta R.T. 0.00 min
Lab File: DFL18F19.D
Acq: 07/14/2015 22:44

Tgt Ion:178 Resp: 276031

Ion	Ratio	Lower	Upper
178	100		
179	15.7	11.1	20.5
176	19.1	14.1	26.1
0	0.0	0.0	0.0

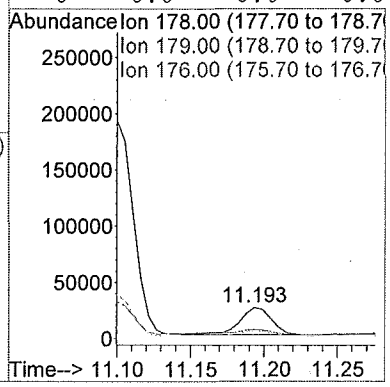


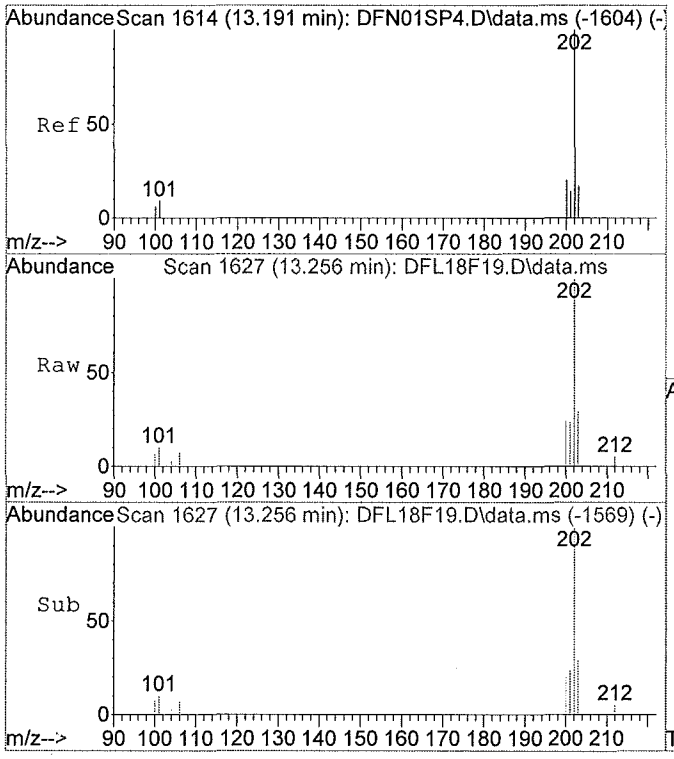


#12
Anthracene
Concen: 0.07 ug/ml
RT: 11.19 min Scan# 1246
Delta R.T. 0.00 min
Lab File: DFL18F19.D
Acq: 07/14/2015 22:44

Tgt Ion:178 Resp: 36696

Ion	Ratio	Lower	Upper
178	100		
179	18.5	11.6	21.6
176	20.1	13.9	25.7
0	0.0	0.0	0.0

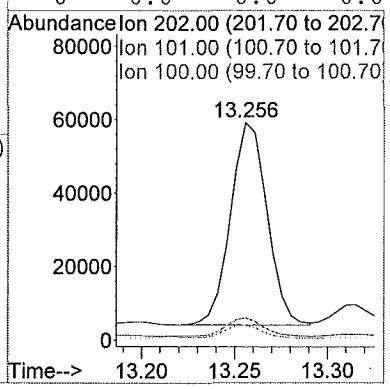


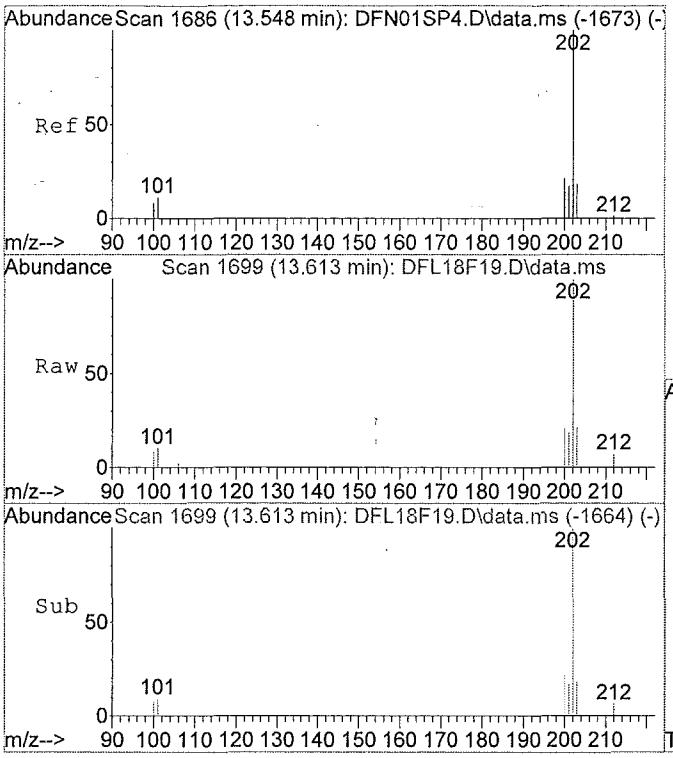


#14
Fluoranthene
Concen: 0.12 ug/ml
RT: 13.26 min Scan# 1627
Delta R.T. 0.00 min
Lab File: DFL18F19.D
Acq: 07/14/2015 22:44

Tgt Ion:202 Resp: 75034

Ion	Ratio	Lower	Upper
202	100		
101	9.1	9.4	17.6#
100	6.2	0.0	0.0#
0	0.0	0.0	0.0

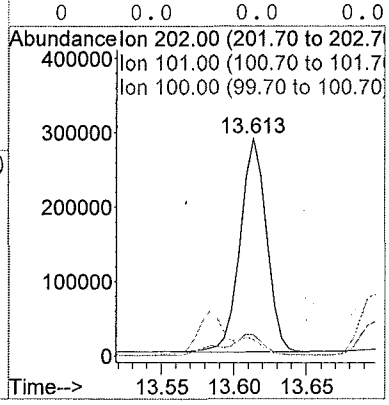


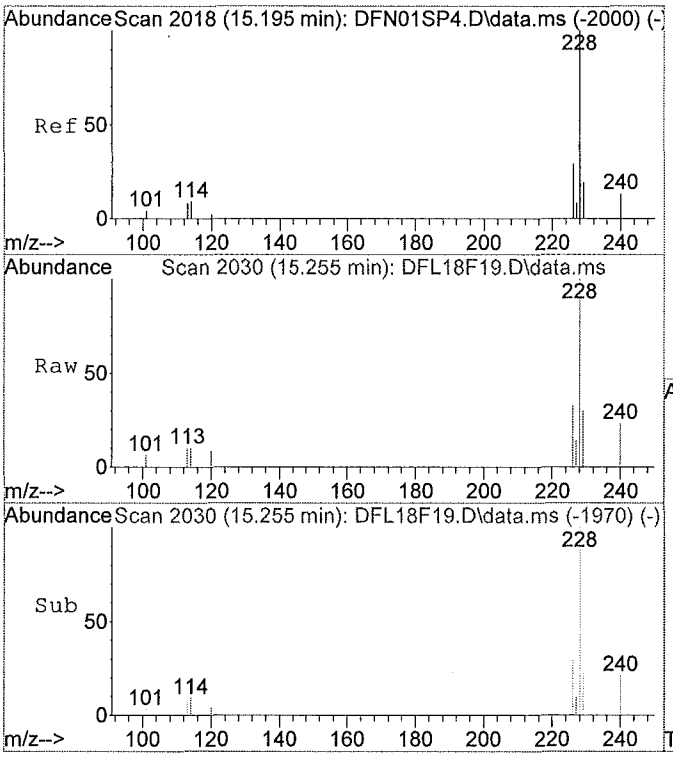


#16
Pyrene
Concen: 0.50 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. 0.00 min
Lab File: DFL18F19.D
Acq: 07/14/2015 22:44

Tgt Ion:202 Resp: 362251

Ion	Ratio	Lower	Upper
202	100		
101	10.0	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

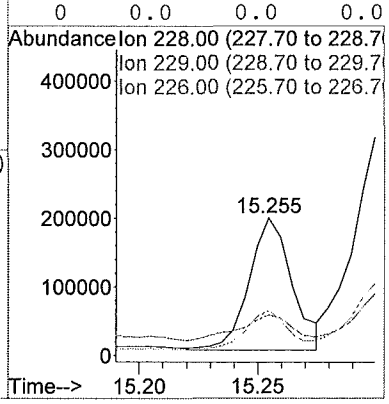


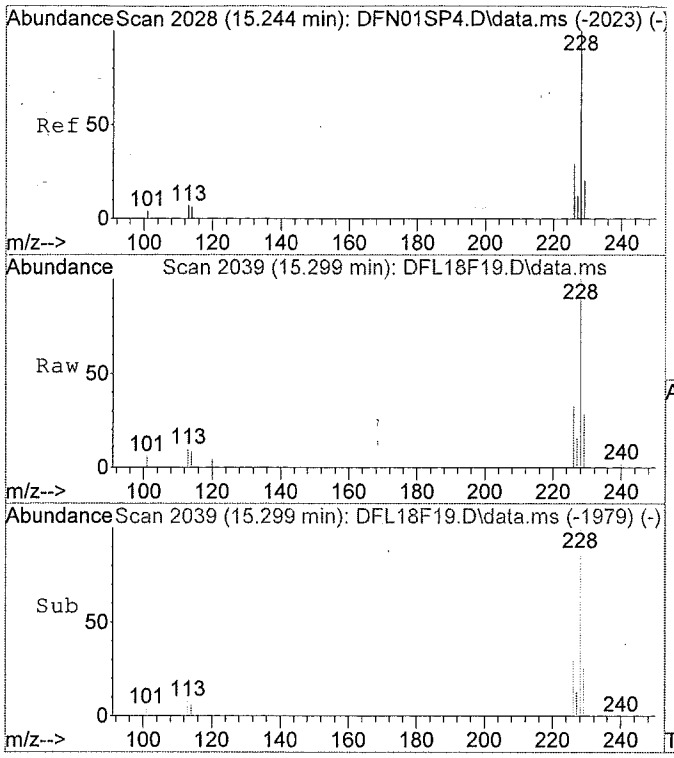


#17
Benzo(a)anthracene
Concen: 0.39 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. 0.00 min
Lab File: DFL18F19.D
Acq: 07/14/2015 22:44

Tgt Ion:228 Resp: 242920

Ion	Ratio	Lower	Upper
228	100		
229	32.2	14.5	26.9#
226	28.3	18.5	34.3
0	0.0	0.0	0.0

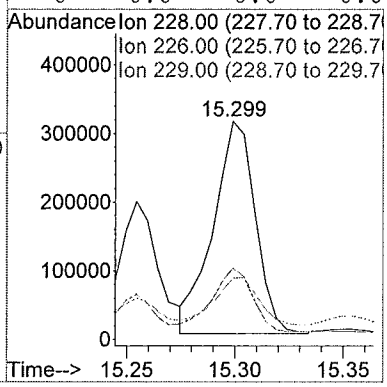


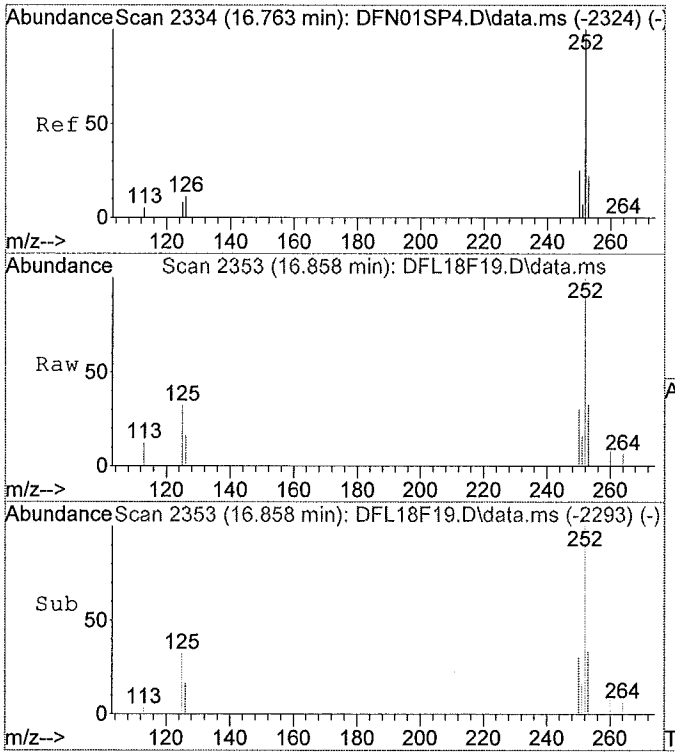


#18
Chrysene
Concen: 0.64 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFL18F19.D
Acq: 07/14/2015 22:44

Tgt Ion:228 Resp: 416894

Ion	Ratio	Lower	Upper
228	100		
226	29.8	19.7	36.7
229	27.0	14.5	26.9#
0	0.0	0.0	0.0

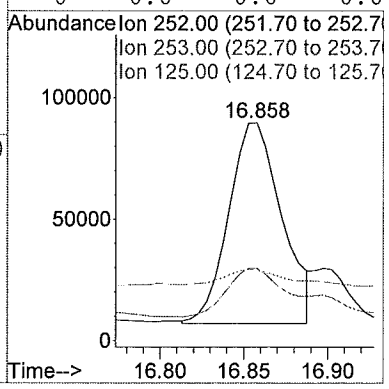


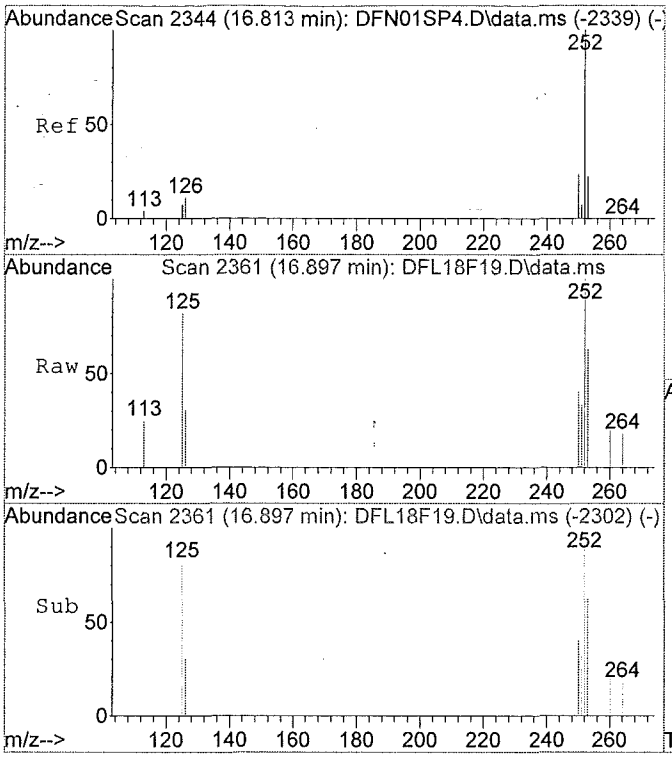


#20
Benzo(b)fluoranthene
Concen: 0.23 ug/ml m
RT: 16.86 min Scan# 2353
Delta R.T. 0.01 min
Lab File: DFL18F19.D
Acq: 07/14/2015 22:44

Tgt Ion:252 Resp: 180949

Ion	Ratio	Lower	Upper
252	100		
253	25.3	15.3	28.3
125	0.0	0.0	0.0
0	0.0	0.0	0.0

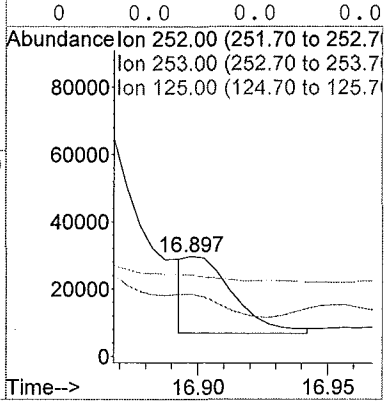


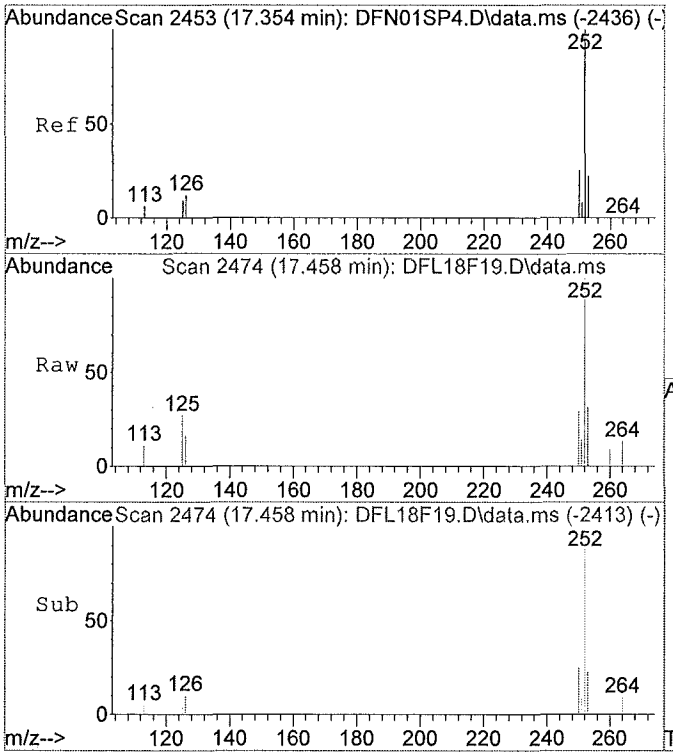


#21
Benzo(k)fluoranthene
Concen: 0.04 ug/ml m
RT: 16.90 min Scan# 2361
Delta R.T. -0.00 min
Lab File: DFL18F19.D
Acq: 07/14/2015 22:44

Tgt Ion:252 Resp: 28973

Ion	Ratio	Lower	Upper
252	100		
253	158.1	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

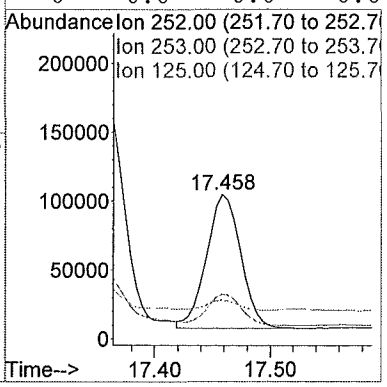


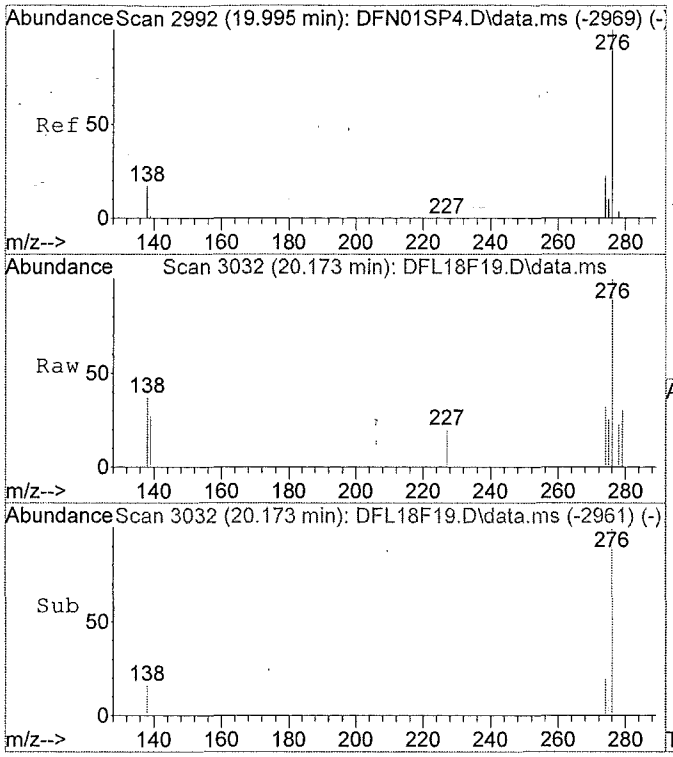


#22
Benzo(a)pyrene
Concen: 0.27 ug/ml
RT: 17.46 min Scan# 2474
Delta R.T. 0.01 min
Lab File: DFL18F19.D
Acq: 07/14/2015 22:44

Tgt Ion:252 Resp: 200248

Ion	Ratio	Lower	Upper
252	100		
253	24.0	15.0	27.8
125	7.1	0.0	0.0#
0	0.0	0.0	0.0

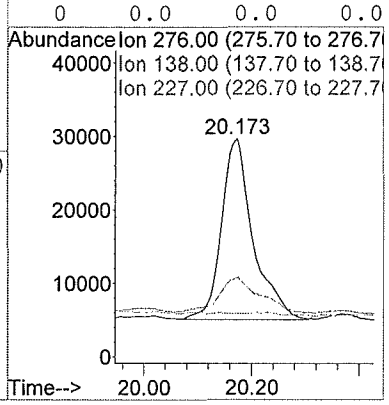


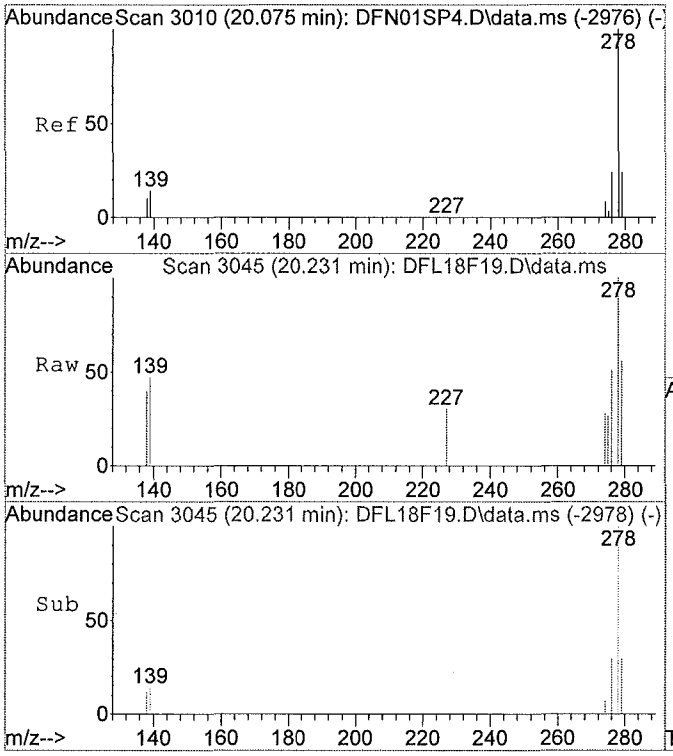


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.15 ug/ml
RT: 20.17 min Scan# 3032
Delta R.T. 0.02 min
Lab File: DFL18F19.D
Acq: 07/14/2015 22:44

Tgt Ion:276 Resp: 99587

Ion	Ratio	Lower	Upper
276	100		
138	25.4	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

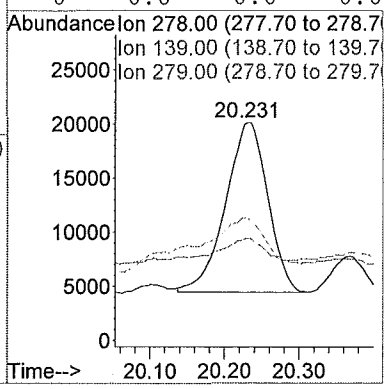


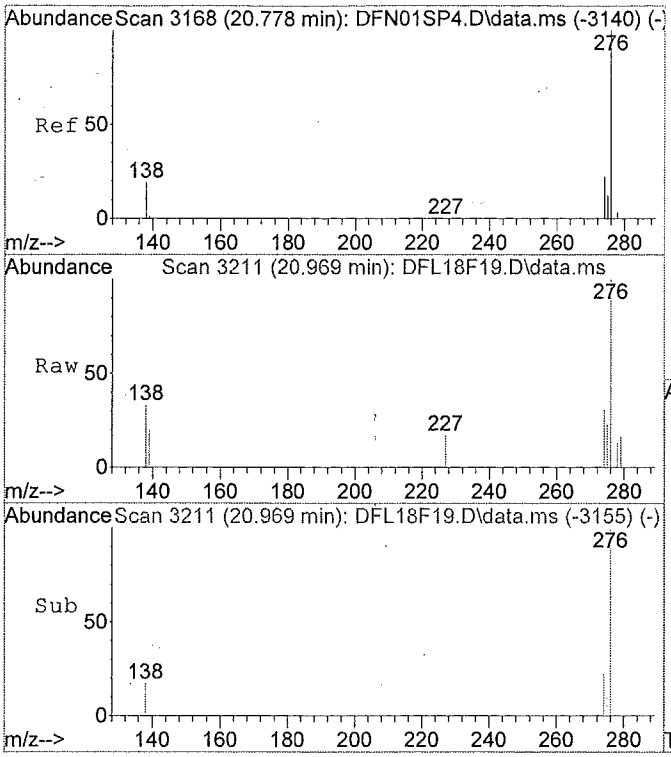


#24
Dibenzo(a,h)anthracene
Concen: 0.09 ug/ml
RT: 20.23 min Scan# 3045
Delta R.T. 0.00 min
Lab File: DFL18F19.D
Acq: 07/14/2015 22:44

Tgt Ion:278 Resp: 61540

Ion	Ratio	Lower	Upper
278	100		
139	18.9	0.0	0.0#
279	19.9	15.8	29.3
0	0.0	0.0	0.0

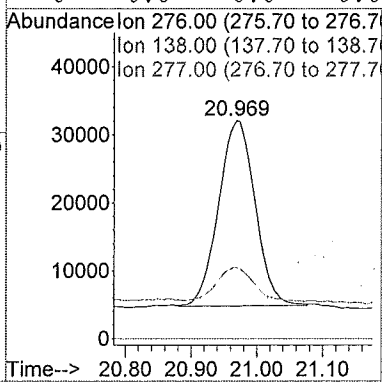




#25
Benzo(g,h,i)perylene
Concen: 0.14 ug/ml
RT: 20.97 min Scan# 3211
Delta R.T. 0.02 min
Lab File: DFL18F19.D
Acq: 07/14/2015 22:44

Tgt Ion:276 Resp: 104968

Ion	Ratio	Lower	Upper
276	100		
138	18.2	16.2	30.0
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



01287

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M17

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375020

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL19F20

Extraction: (Type) SONC

% Moisture: 19. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/14/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 10.0

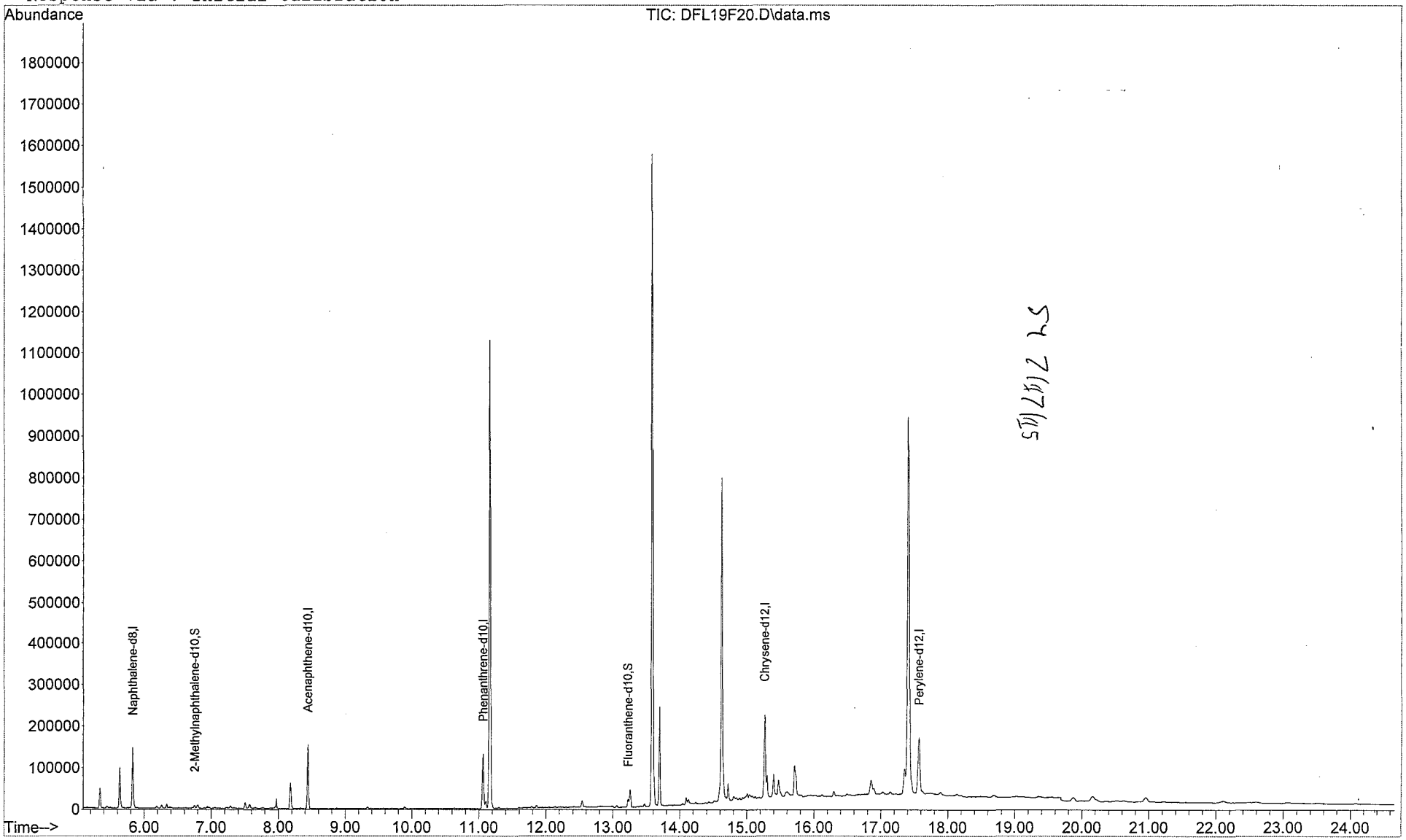
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	40.	U
91-57-6	2-Methylnaphthalene	40.	U
208-96-8	Acenaphthylene	40.	U
83-32-9	Acenaphthene	40.	U
86-73-7	Fluorene	40.	U
87-86-5	Pentachlorophenol	82.	U
85-01-8	Phenanthrene	14.	J
120-12-7	Anthracene	40.	U
206-44-0	Fluoranthene	23.	J
129-00-0	Pyrene	29.	J
56-55-3	Benzo(a)anthracene	20.	J
218-01-9	Chrysene	27.	J
205-99-2	Benzo(b)fluoranthene	26.	J
207-08-9	Benzo(k)fluoranthene	40.	U
50-32-8	Benzo(a)pyrene	18.	J
193-39-5	Indeno(1,2,3-cd)pyrene	21.	J
53-70-3	Dibenzo(a,h)anthracene	40.	U
191-24-2	Benzo(g,h,i)perylene	14.	J

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL19F20.D Vial: 19
Acq On : 07/14/2015 23:14 Operator: DJC
Sample : 1515375020 F9M17 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 12:17:24 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL19F20.D Vial: 19
Acq On : 07/14/2015 23:14 Operator: DJC
Sample : 1515375020 F9M17 (10) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 12:17:24 2015 Results File: DSOM_SIMJ2.RES

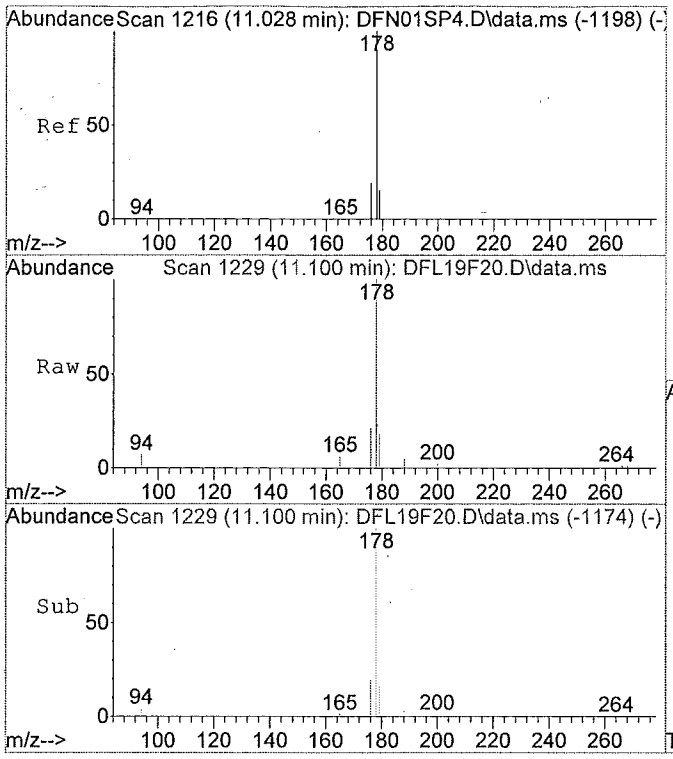
Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	5.83	136	155307	0.40 ug/ml
5) Acenaphthene-d10	8.44	164	99386	0.40 ug/ml
9) Phenanthrene-d10	11.06	188	174273	0.40 ug/ml
15) Chrysene-d12	15.27	240	203909	0.40 ug/ml
19) Perylene-d12	17.57	264	219365	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	6.75	152	9134	0.036ug/mL
13) Fluoranthene-d10	13.23	212	17824	0.037ug/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	11.10	178	17031	0.034ug/ml	97
12) Anthracene	0.00	178		Not Detected	
14) Fluoranthene	13.26	202	32310	0.057ug/ml	95
16) Pyrene	13.61	202	45727	0.071ug/ml	1
17) Benzo(a)anthracene	15.25	228	27081	0.050ug/ml	71
18) Chrysene	15.30	228	37500	0.065ug/ml	91
20) Benzo(b)fluoranthene	16.85	252	43032	0.063ug/ml	99
21) Benzo(k)fluoranthene	0.00	252		Not Detected	
22) Benzo(a)pyrene	17.45	252	28407	0.043ug/ml	91
23) Indeno(1,2,3-c,d)pyrene	20.16	276	29171	0.051ug/ml	100
24) Dibenzo(a,h)anthracene	0.00	278		Not Detected	
25) Benzo(g,h,i)perylene	20.96	276	22870	0.036ug/ml	75

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

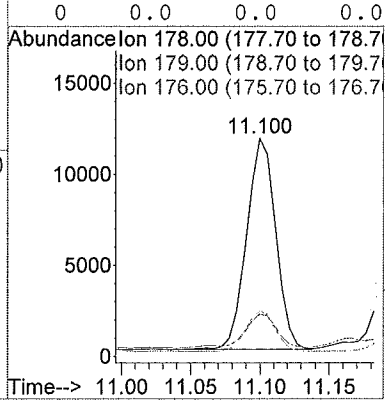
: 91270

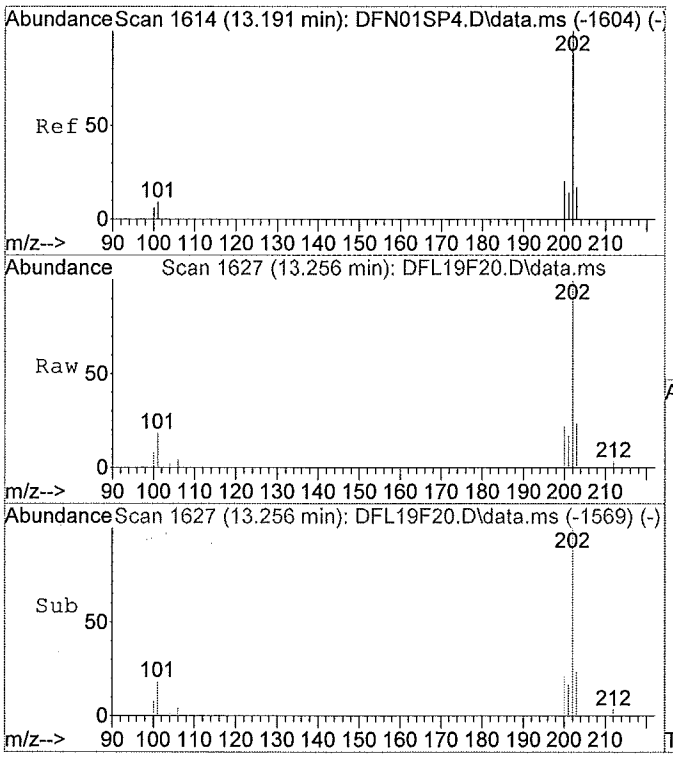


#11
Phenanthrene
Concen: 0.03 ug/ml
RT: 11.10 min Scan# 1229
Delta R.T. 0.00 min
Lab File: DFL19F20.D
Acq: 07/14/2015 23:14

Tgt Ion:178 Resp: 17031

Ion	Ratio	Lower	Upper
178	100		
179	18.0	11.1	20.5
176	19.9	14.1	26.1
0	0.0	0.0	0.0

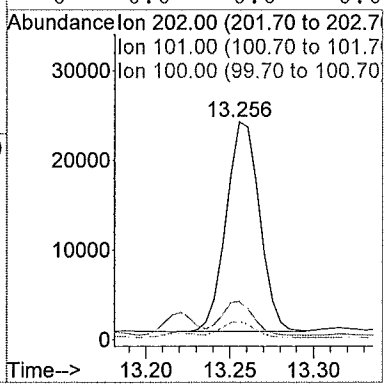


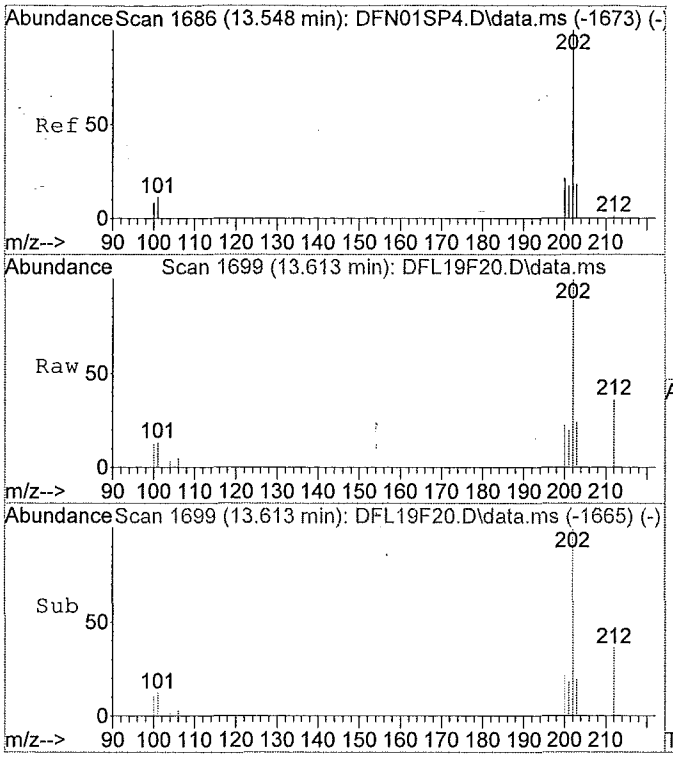


#14
Fluoranthene
Concen: 0.06 ug/ml
RT: 13.26 min Scan# 1627
Delta R.T. 0.00 min
Lab File: DFL19F20.D
Acq: 07/14/2015 23:14

Tgt Ion:202 Resp: 32310

Ion	Ratio	Lower	Upper
202	100		
101	15.3	9.4	17.6
100	7.4	0.0	0.0#
0	0.0	0.0	0.0

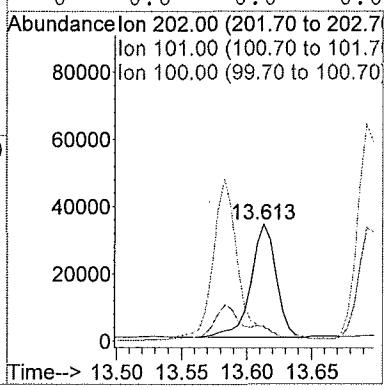


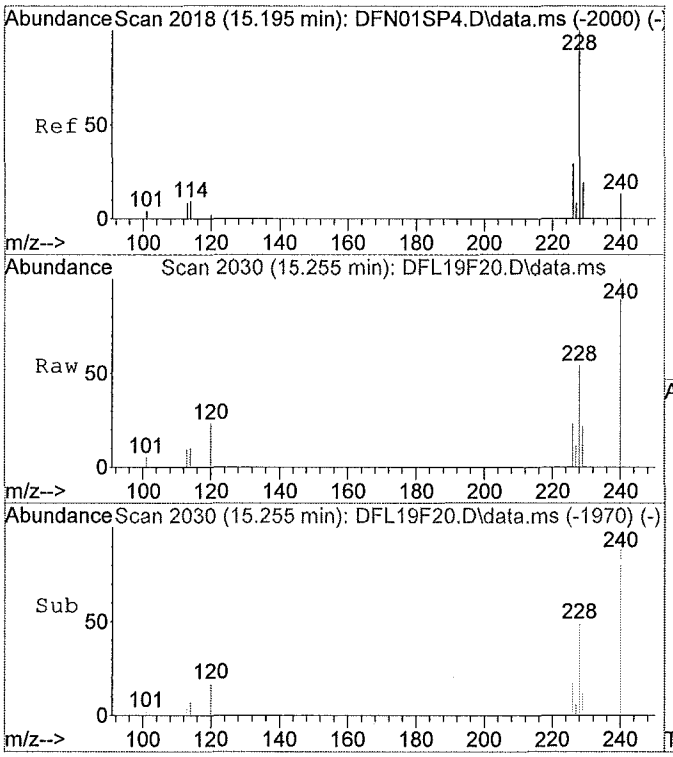


#16
Pyrene
Concen: 0.07 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. 0.00 min
Lab File: DFL19F20.D
Acq: 07/14/2015 23:14

Tgt Ion:202 Resp: 45727

Ion	Ratio	Lower	Upper
202	100		
101	32.2	10.6	19.6#
100	141.5	9.4	17.4#
0	0.0	0.0	0.0

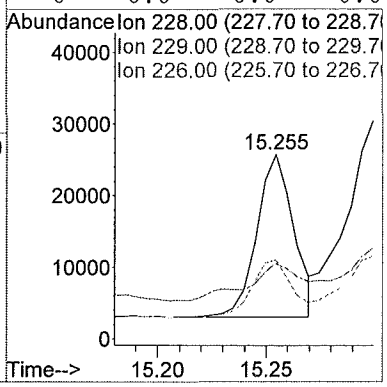


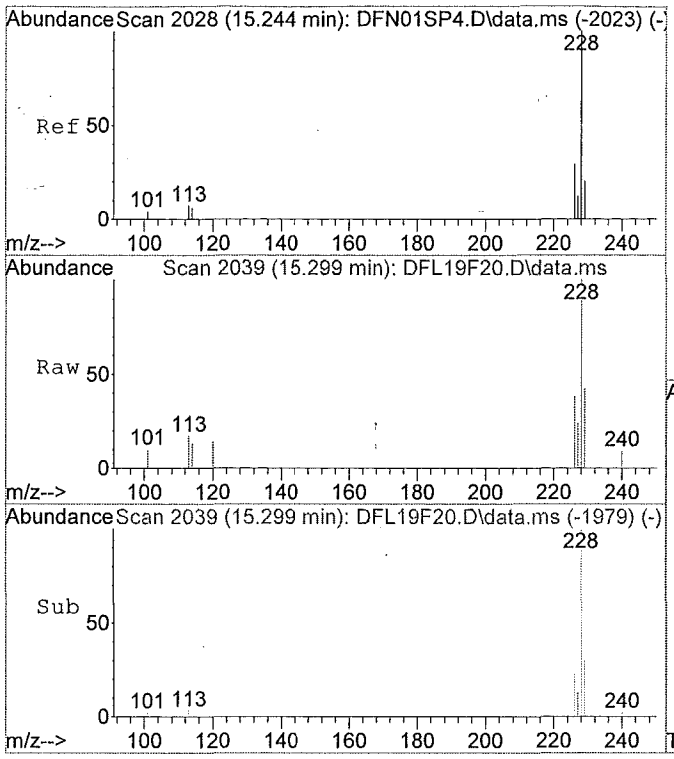


#17
Benzo(a)anthracene
Concen: 0.05 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. 0.00 min
Lab File: DFL19F20.D
Acq: 07/14/2015 23:14

Tgt Ion:228 Resp: 27081

Ion	Ratio	Lower	Upper
228	100		
229	36.8	14.5	26.9#
226	38.8	18.5	34.3#
0	0.0	0.0	0.0

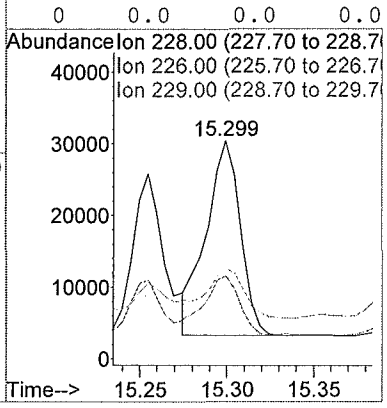


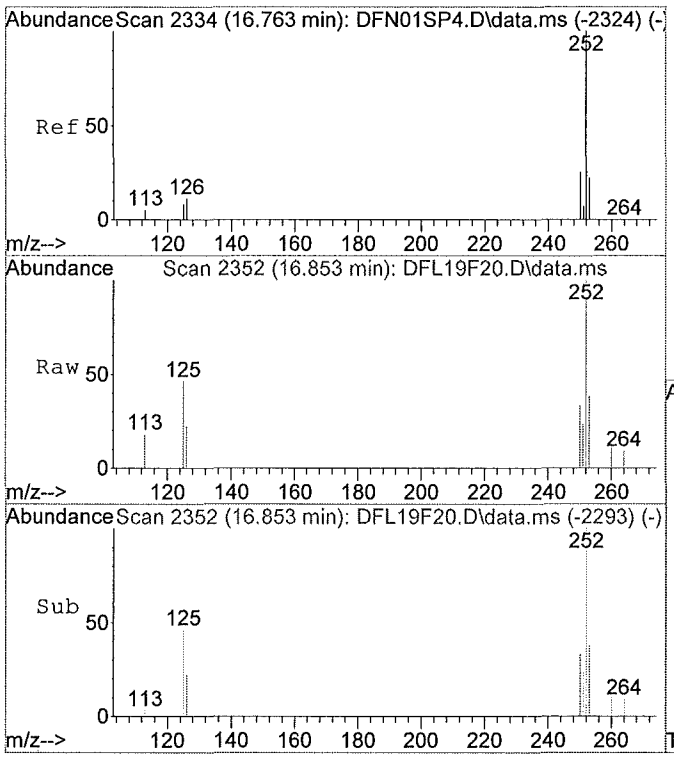


#18
Chrysene
Concen: 0.07 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFL19F20.D
Acq: 07/14/2015 23:14

Tgt Ion:228 Resp: 37500

Ion	Ratio	Lower	Upper
228	100		
226	32.4	19.7	36.7
229	26.0	14.5	26.9
0	0.0	0.0	0.0

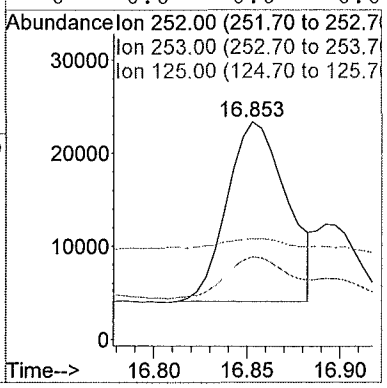


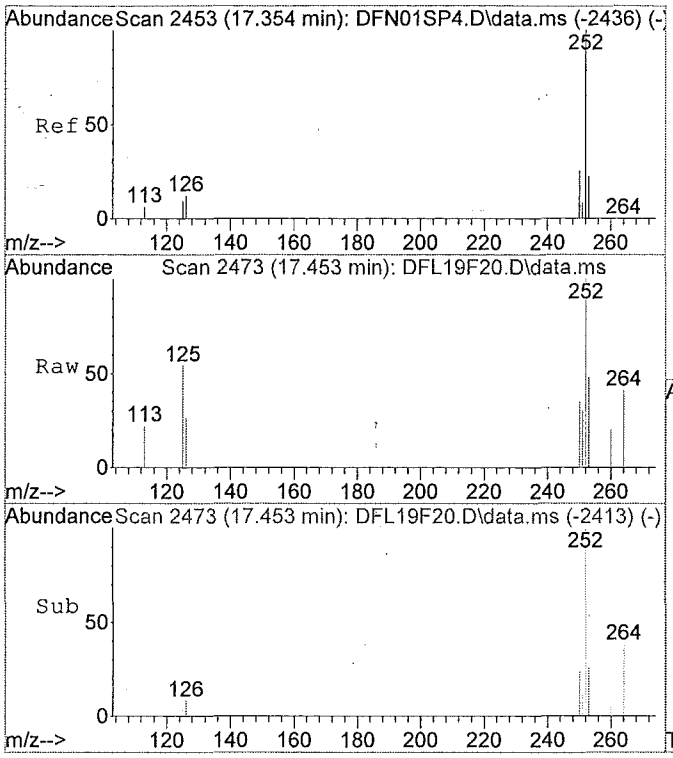


#20
Benzo(b)fluoranthene
Concen: 0.06 ug/ml
RT: 16.85 min Scan# 2352
Delta R.T. 0.00 min
Lab File: DFL19F20.D
Acq: 07/14/2015 23:14

Tgt Ion:252 Resp: 43032

Ion	Ratio	Lower	Upper
252	100		
253	21.1	15.3	28.3
125	0.0	0.0	0.0
0	0.0	0.0	0.0

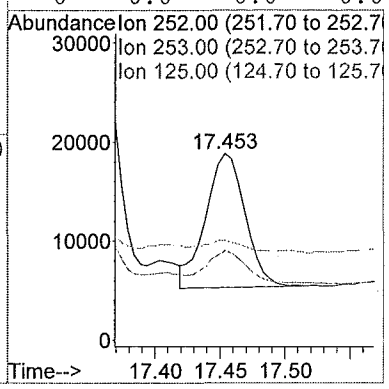


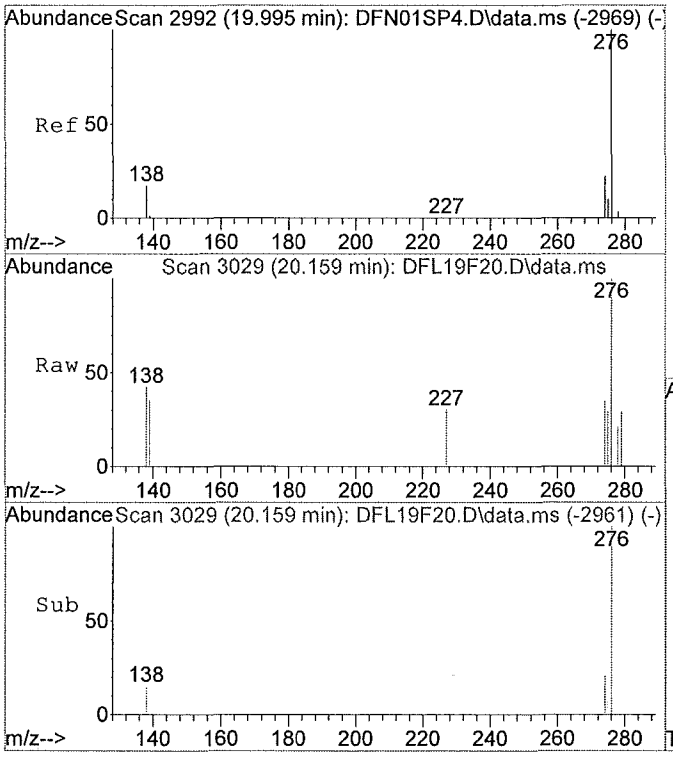


#22
Benzo(a)pyrene
Concen: 0.04 ug/ml
RT: 17.45 min Scan# 2473
Delta R.T. 0.00 min
Lab File: DFL19F20.D
Acq: 07/14/2015 23:14

Tgt Ion:252 Resp: 28407

Ion	Ratio	Lower	Upper
252	100		
253	25.5	15.0	27.8
125	7.4	0.0	0.0#
0	0.0	0.0	0.0

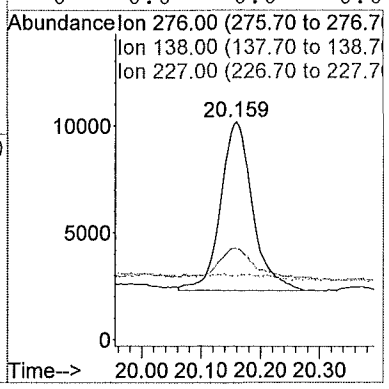


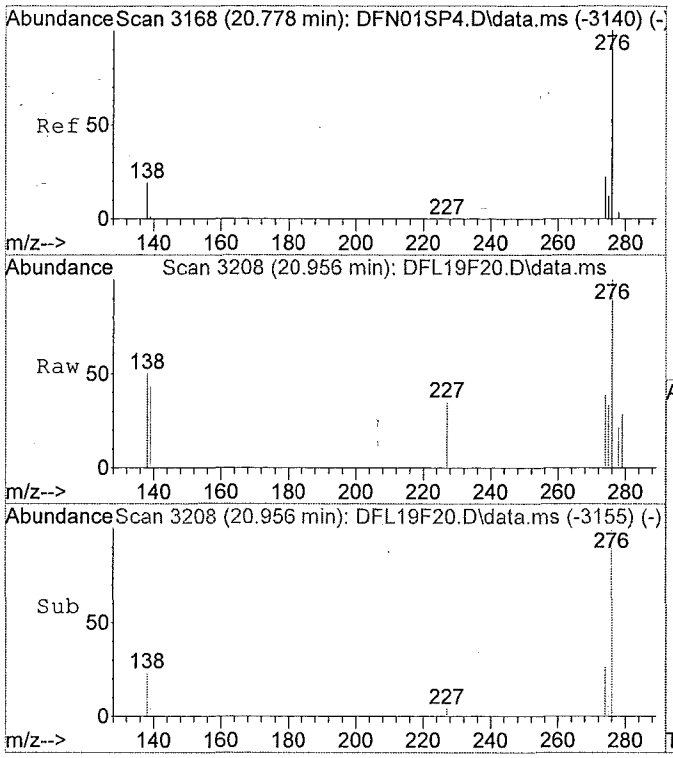


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.05 ug/ml
RT: 20.16 min Scan# 3029
Delta R.T. 0.00 min
Lab File: DFL19F20.D
Acq: 07/14/2015 23:14

Tgt Ion:276 Resp: 29171

Ion	Ratio	Lower	Upper
276	100		
138	23.7	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

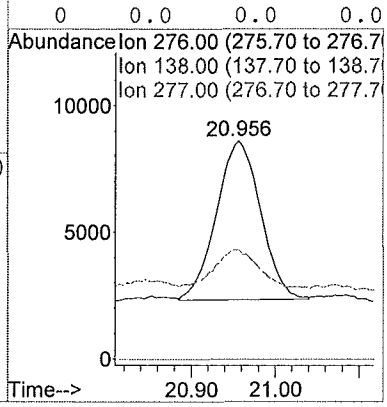




#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 20.96 min Scan# 3208
Delta R.T. 0.00 min
Lab File: DFL19F20.D
Acq: 07/14/2015 23:14

Tgt Ion:276 Resp: 22870

Ion	Ratio	Lower	Upper
276	100		
138	24.0	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.

F9M18

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375021

Sample wt/vol: 30.3 (g/mL) g Lab File ID: DFL20F21

Extraction: (Type) SONC

% Moisture: 22. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/14/2015

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 2.0

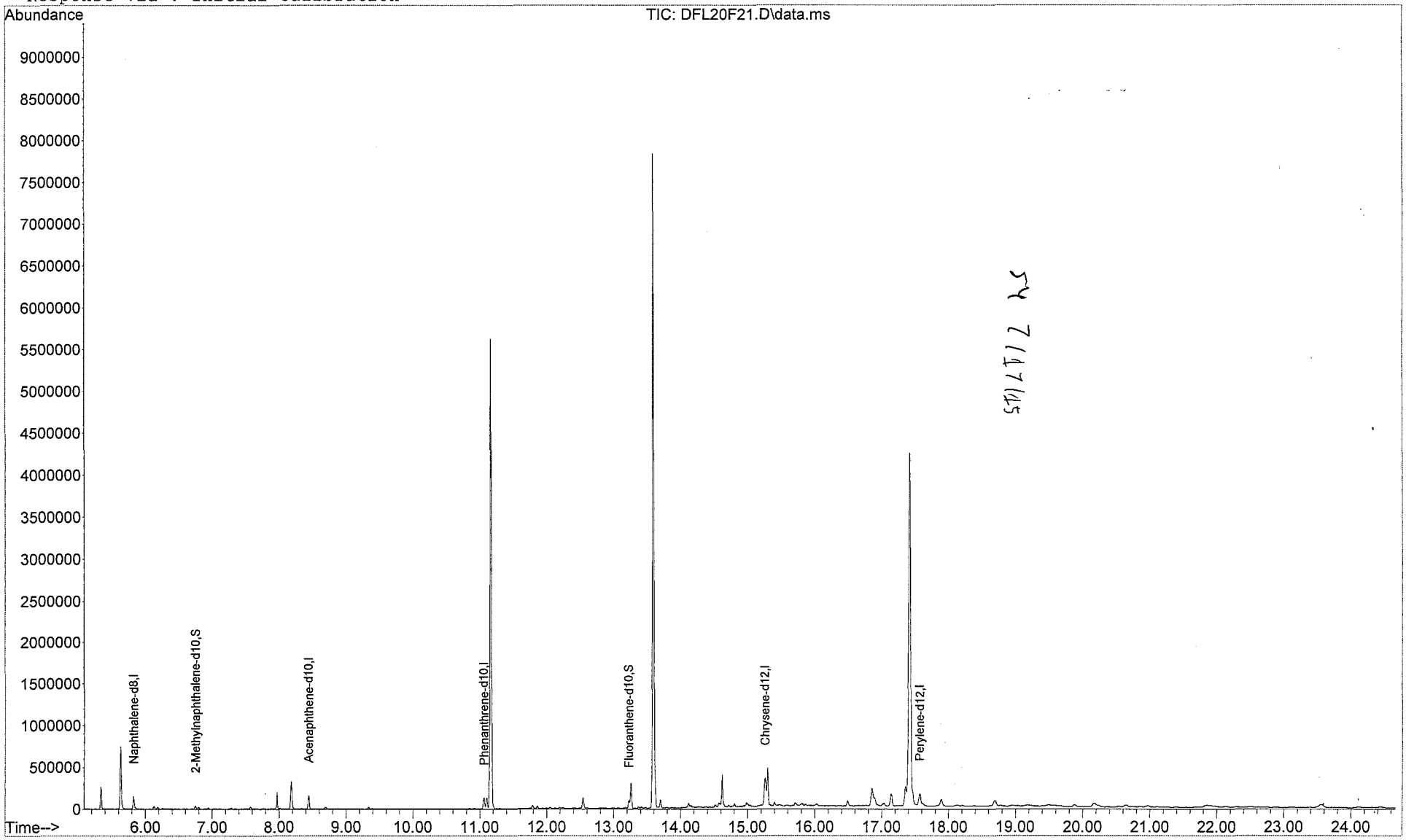
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	2.2	J
91-57-6	2-Methylnaphthalene	3.6	J
208-96-8	Acenaphthylene	3.4	J
83-32-9	Acenaphthene	8.4	U
86-73-7	Fluorene	8.4	U
87-86-5	Pentachlorophenol	17.	U
85-01-8	Phenanthrene	23.	
120-12-7	Anthracene	7.4	J
206-44-0	Fluoranthene	32.	
129-00-0	Pyrene	39.	
56-55-3	Benzo(a)anthracene	26.	
218-01-9	Chrysene	47.	
205-99-2	Benzo(b)fluoranthene	31.	
207-08-9	Benzo(k)fluoranthene	7.4	J
50-32-8	Benzo(a)pyrene	20.	
193-39-5	Indeno(1,2,3-cd)pyrene	14.	
53-70-3	Dibenzo(a,h)anthracene	4.9	J
191-24-2	Benzo(g,h,i)perylene	5.7	J

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL20F21.D Vial: 20
Acq On : 07/14/2015 23:44 Operator: DJC
Sample : 1515375021 F9M18 (2) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 12:17:56 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

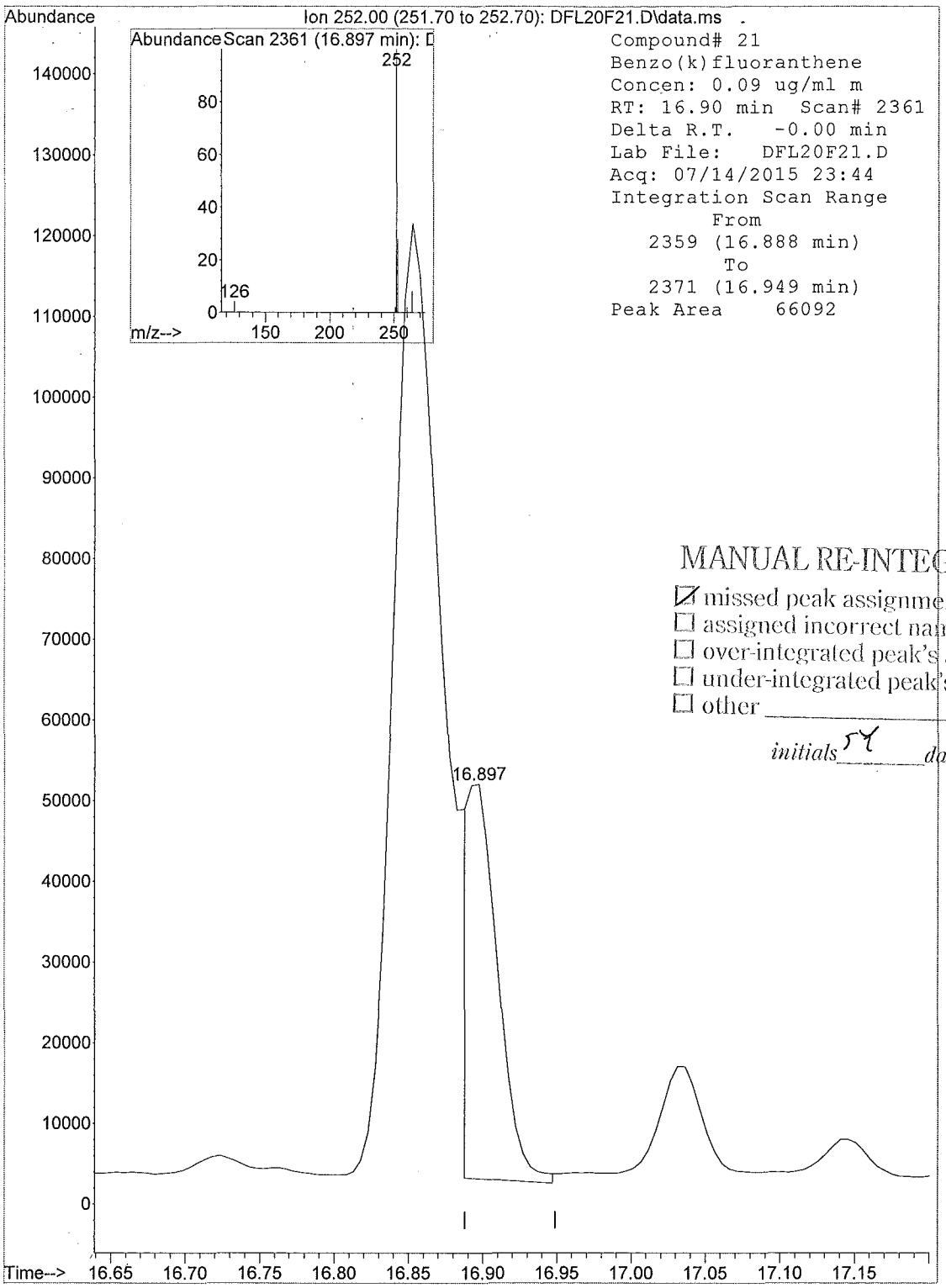
Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL20F21.D Vial: 20
Acq On : 07/14/2015 23:44 Operator: DJC
Sample : 1515375021 F9M18 (2) Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 12:17:56 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	157503	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	106448	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	178967	0.40 ug/ml	
15) Chrysene-d12	15.27	240	217307	0.40 ug/ml	
19) Perylene-d12	17.57	264	233965	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	41119	0.162ug/mL	
13) Fluoranthene-d10	13.23	212	90954	0.186ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.85	128	10526	0.026ug/ml	95
4) 2-Methylnaphthalene	6.80	142	11231	0.042ug/ml	94
6) Acenaphthylene	8.20	152	18570	0.040ug/ml	87
7) Acenaphthene	0.00	153		Not Detected	
8) Fluorene	0.00	166		Not Detected	
10) Pentachlorophenol	0.00	266		Not Detected	
11) Phenanthrene	11.10	178	141588	0.275ug/ml	99
12) Anthracene	11.20	178	43636	0.087ug/ml	97
14) Fluoranthene	13.26	202	220139	0.375ug/ml	87
16) Pyrene	13.61	202	312404	0.458ug/ml	78
17) Benzo(a)anthracene	15.25	228	177752	0.307ug/ml	84
18) Chrysene	15.30	228	341054	0.557ug/ml	91
20) Benzo(b)fluoranthene	16.85	252	271788	0.373ug/ml	99
21) Benzo(k)fluoranthene	16.90	252	66092	0.087ug/ml m	98
22) Benzo(a)pyrene	17.46	252	162748	0.234ug/ml	95
23) Indeno(1,2,3-c,d)pyrene	20.17	276	104267	0.171ug/ml	100
24) Dibenzo(a,h)anthracene	20.23	278	39406	0.058ug/ml	90
25) Benzo(g,h,i)perylene	20.97	276	46046	0.067ug/ml	69

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

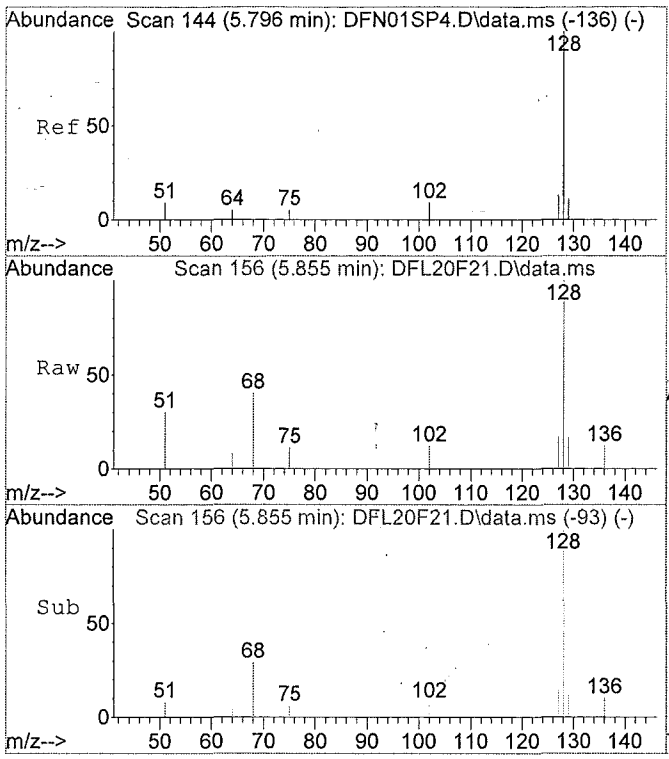
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☒ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

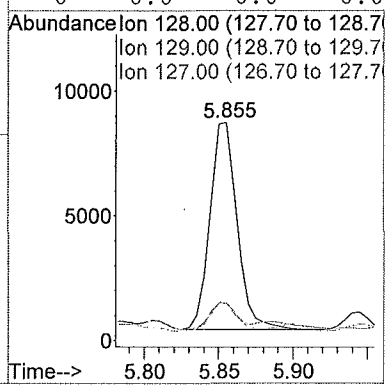
initials SY *date* 7/17/15

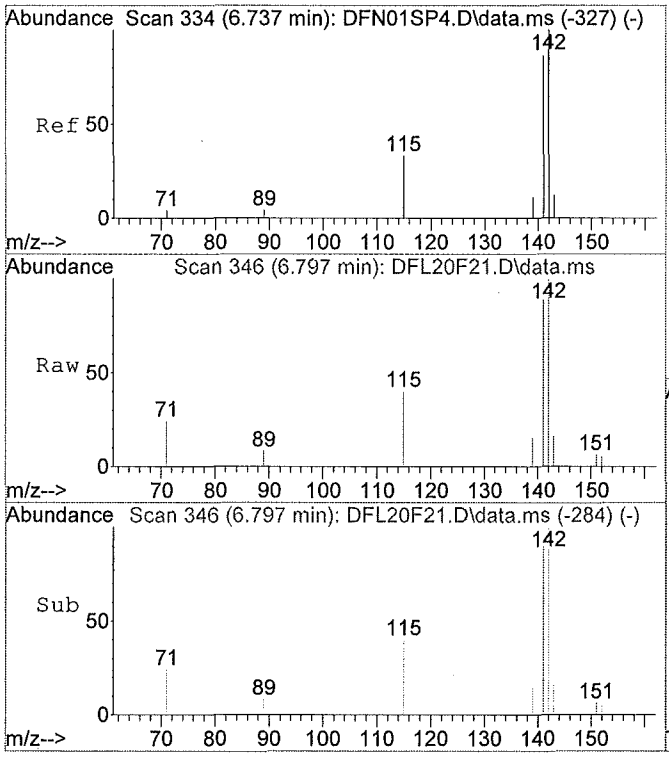


#2
Naphthalene
Concen: 0.03 ug/ml
RT: 5.85 min Scan# 156
Delta R.T. 0.01 min
Lab File: DFL20F21.D
Acq: 07/14/2015 23:44

Tgt Ion:128 Resp: 10526

Ion	Ratio	Lower	Upper
128	100		
129	13.1	0.0	0.0#
127	13.7	11.1	20.5
0	0.0	0.0	0.0

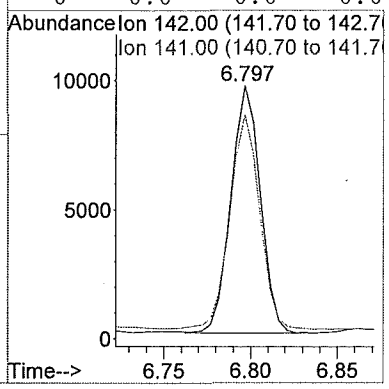


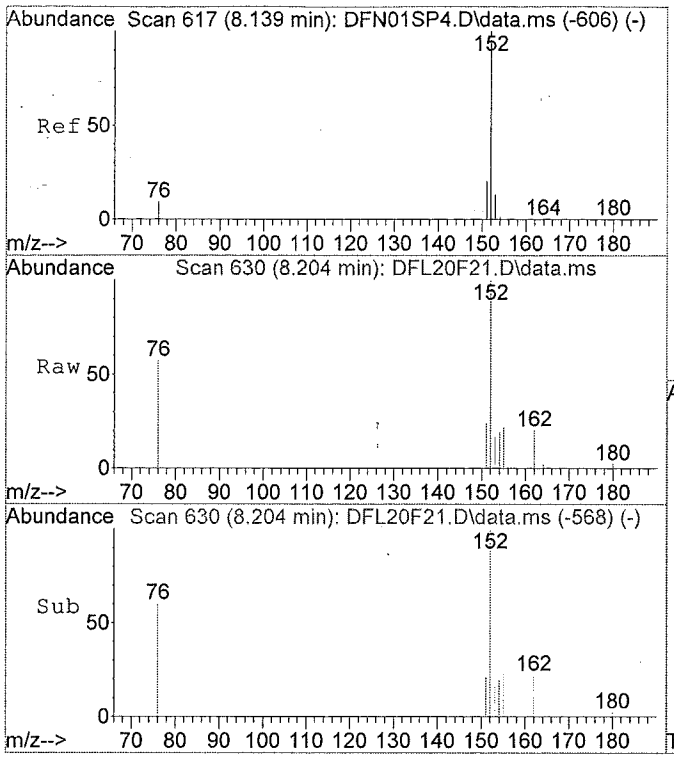


#4
2-Methylnaphthalene
Concen: 0.04 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.00 min
Lab File: DFL20F21.D
Acq: 07/14/2015 23:44

Tgt Ion:142 Resp: 11231

Ion	Ratio	Lower	Upper
142	100		
141	93.1	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

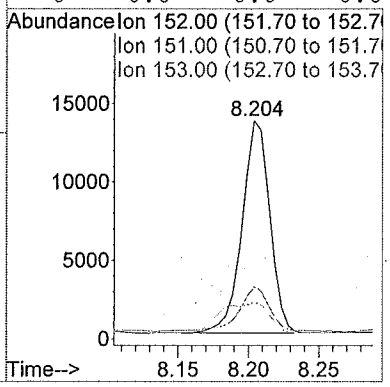


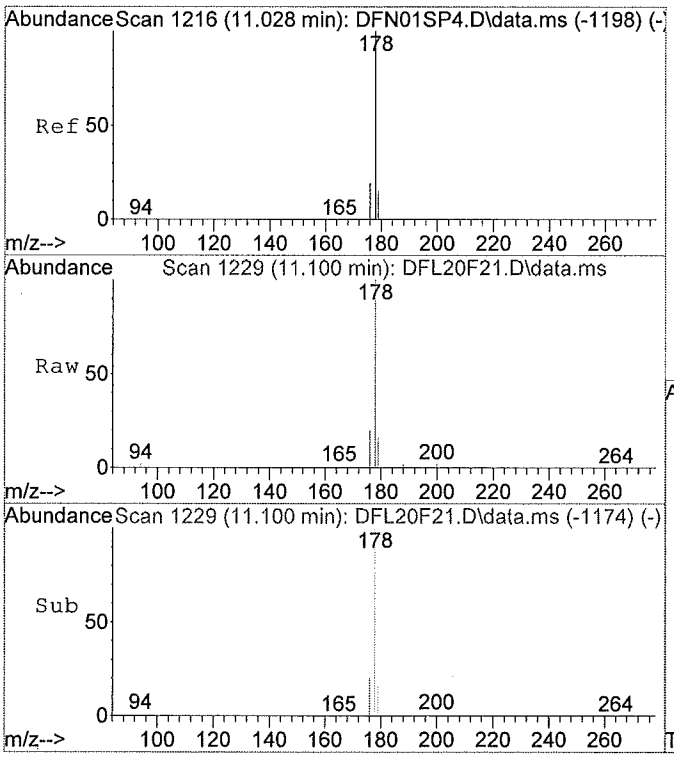


#6
Acenaphthylene
Concen: 0.04 ug/ml
RT: 8.20 min Scan# 630
Delta R.T. 0.00 min
Lab File: DFL20F21.D
Acq: 07/14/2015 23:44

Tgt Ion:152 Resp: 18570

Ion	Ratio	Lower	Upper
152	100		
151	23.2	15.5	28.7
153	24.8	8.8	16.4#
0	0.0	0.0	0.0

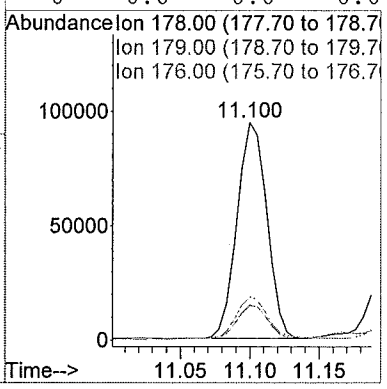


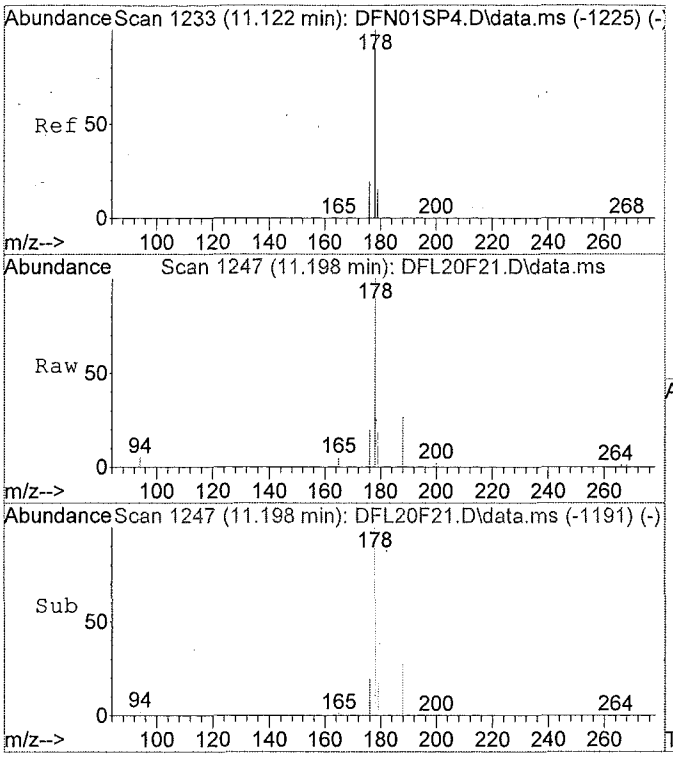


#11
Phenanthrene
Concen: 0.27 ug/ml
RT: 11.10 min Scan# 1229
Delta R.T. 0.00 min
Lab File: DFL20F21.D
Acq: 07/14/2015 23:44

Tgt Ion:178 Resp: 141588

Ion	Ratio	Lower	Upper
178	100		
179	15.6	11.1	20.5
176	21.2	14.1	26.1
0	0.0	0.0	0.0

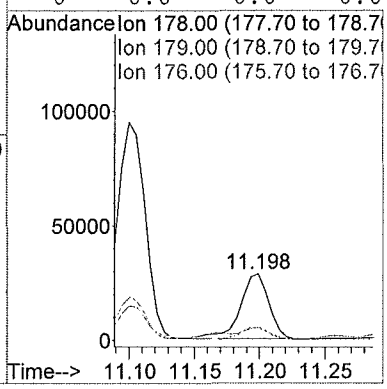


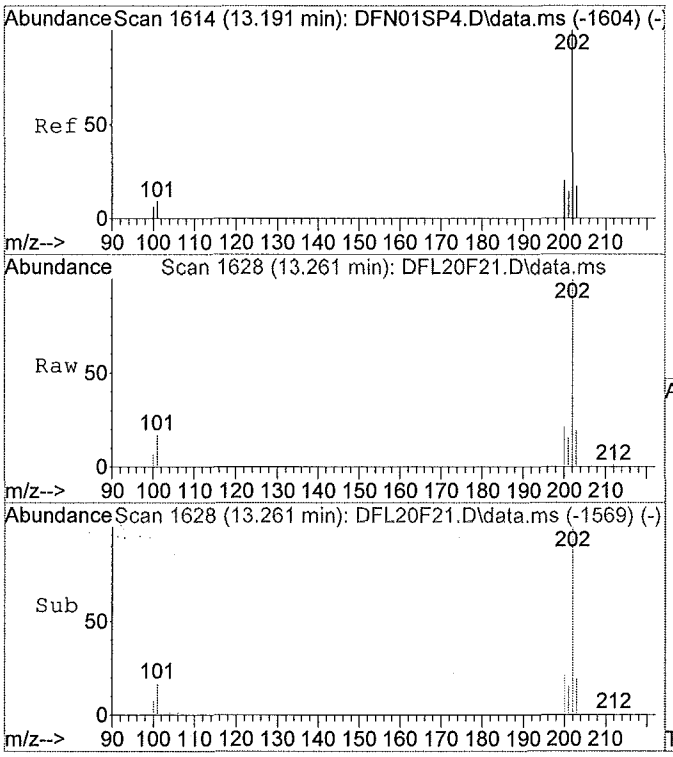


#12
Anthracene
Concen: 0.09 ug/ml
RT: 11.20 min Scan# 1247
Delta R.T. 0.01 min
Lab File: DFL20F21.D
Acq: 07/14/2015 23:44

Tgt Ion:178 Resp: 43636

Ion	Ratio	Lower	Upper
178	100		
179	15.5	11.6	21.6
176	18.2	13.9	25.7
0	0.0	0.0	0.0

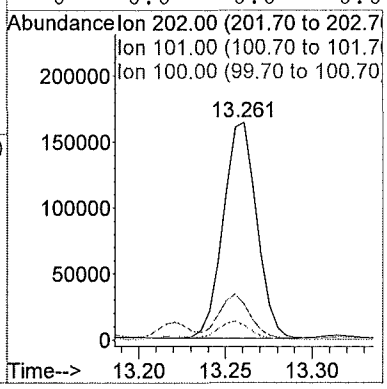


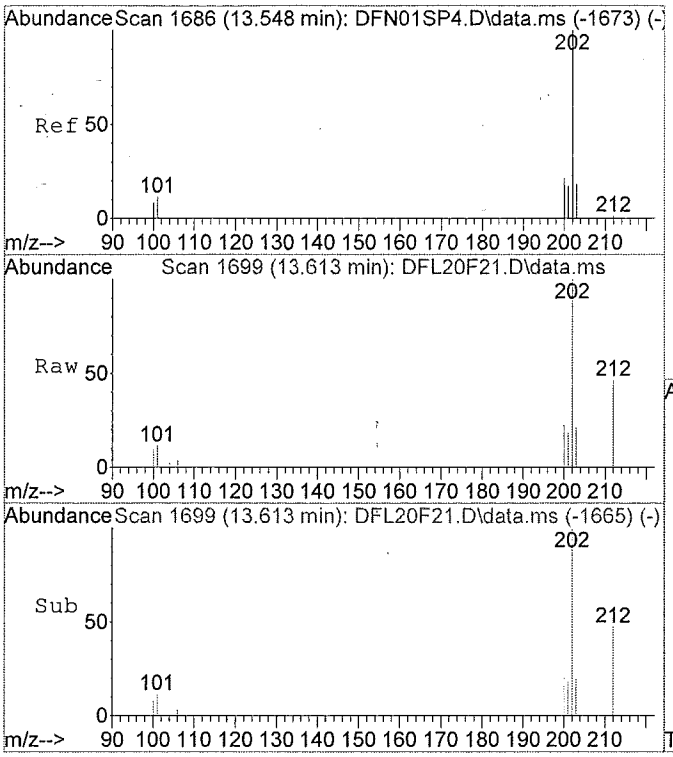


#14
Fluoranthene
Concen: 0.38 ug/ml
RT: 13.26 min Scan# 1628
Delta R.T. 0.00 min
Lab File: DFL20F21.D
Acq: 07/14/2015 23:44

Tgt Ion:202 Resp: 220139

Ion	Ratio	Lower	Upper
202	100		
101	18.9	9.4	17.6#
100	8.2	0.0	0.0#
0	0.0	0.0	0.0

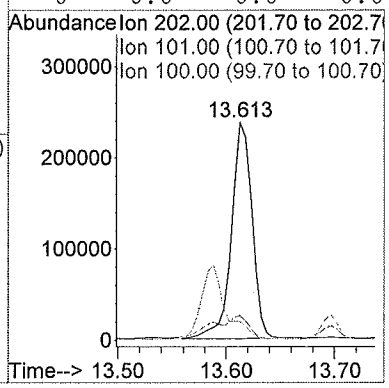


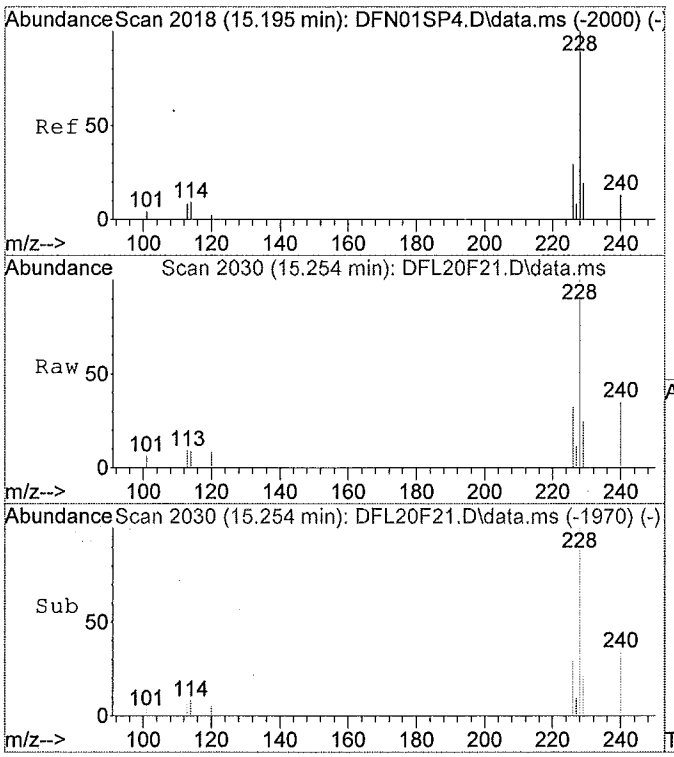


#16
Pyrene
Concen: 0.46 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. 0.00 min
Lab File: DFL20F21.D
Acq: 07/14/2015 23:44

Tgt Ion:202 Resp: 312404

Ion	Ratio	Lower	Upper
202	100		
101	10.0	10.6	19.6#
100	0.0	9.4	17.4#
0	0.0	0.0	0.0

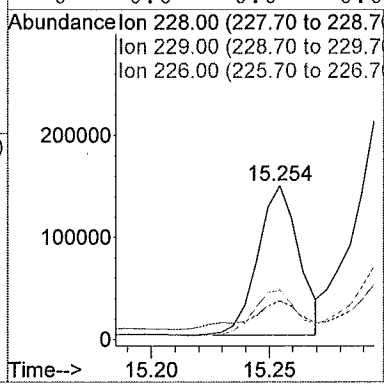


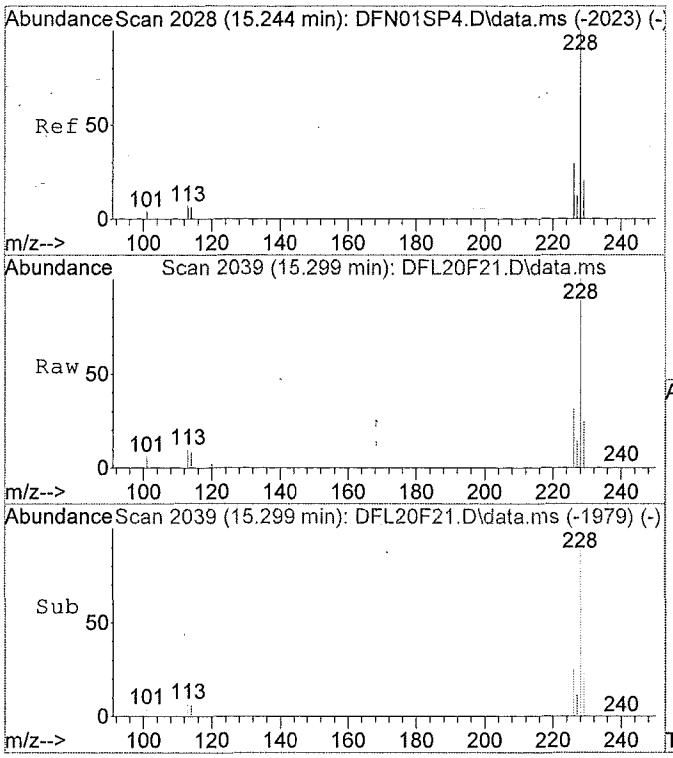


#17
Benzo(a)anthracene
Concen: 0.31 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. 0.00 min
Lab File: DFL20F21.D
Acq: 07/14/2015 23:44

Tgt Ion:228 Resp: 177752

Ion	Ratio	Lower	Upper
228	100		
229	29.8	14.5	26.9#
226	33.3	18.5	34.3
0	0.0	0.0	0.0

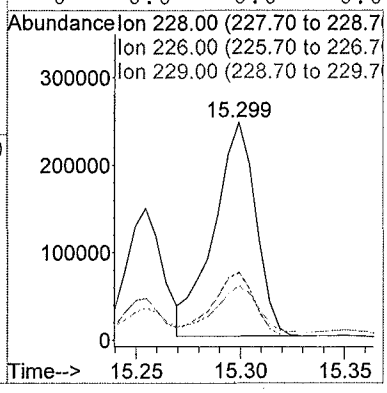


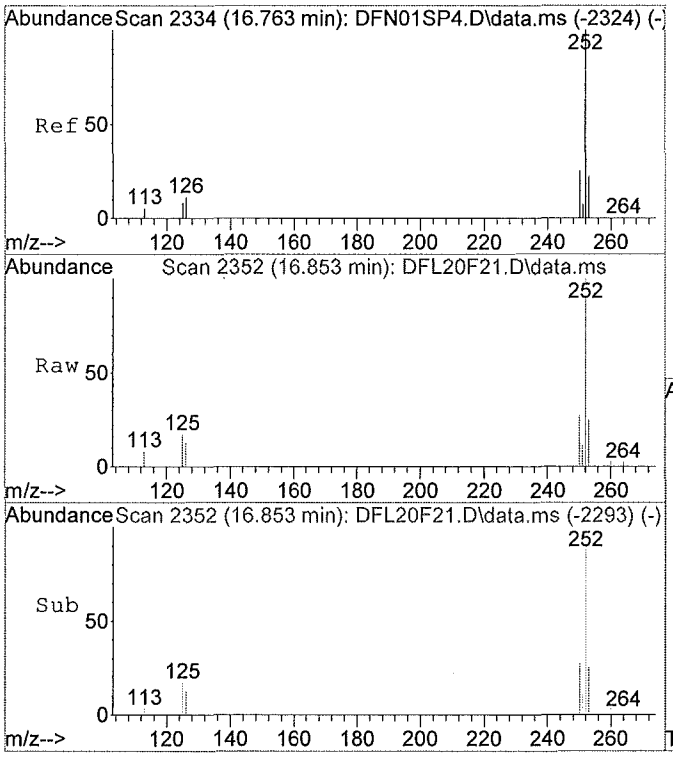


#18
Chrysene
Concen: 0.56 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFL20F21.D
Acq: 07/14/2015 23:44

Tgt Ion:228 Resp: 341054

Ion	Ratio	Lower	Upper
228	100		
226	32.6	19.7	36.7
229	24.9	14.5	26.9
0	0.0	0.0	0.0

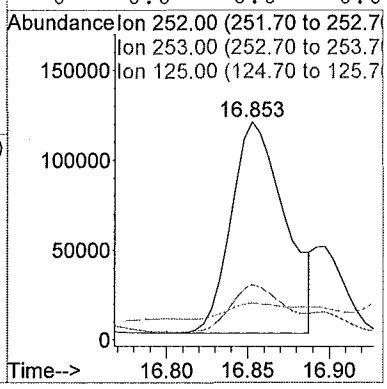


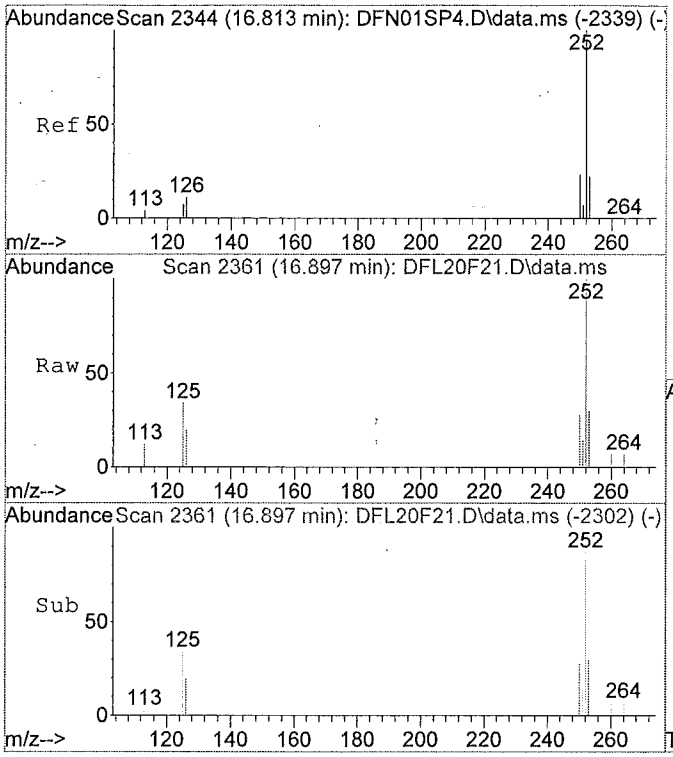


#20
Benzo(b)fluoranthene
Concen: 0.37 ug/ml
RT: 16.85 min Scan# 2352
Delta R.T. 0.00 min
Lab File: DFL20F21.D
Acq: 07/14/2015 23:44

Tgt Ion:252 Resp: 271788

Ion	Ratio	Lower	Upper
252	100		
253	22.5	15.3	28.3
125	7.2	0.0	0.0#
0	0.0	0.0	0.0

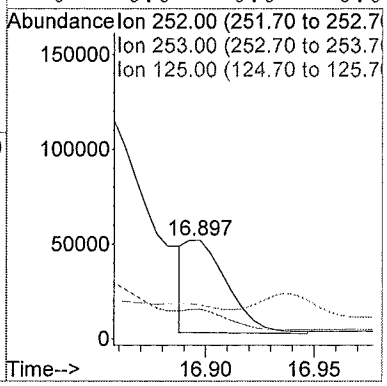


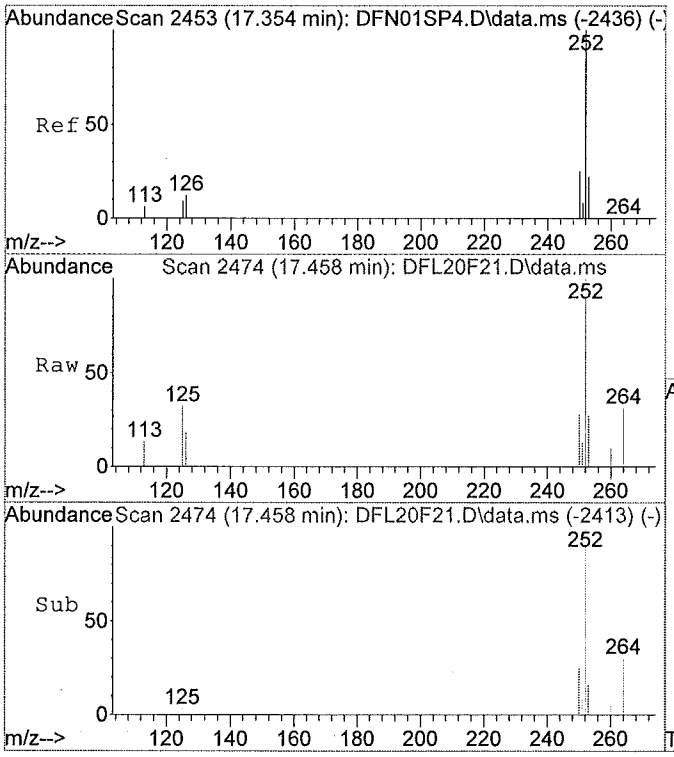


#21
Benzo(k)fluoranthene
Concen: 0.09 ug/ml m
RT: 16.90 min Scan# 2361
Delta R.T. -0.00 min
Lab File: DFL20F21.D
Acq: 07/14/2015 23:44

Tgt Ion:252 Resp: 66092

Ion	Ratio	Lower	Upper
252	100		
253	92.5	15.0	27.8#
125	29.4	0.0	0.0#
0	0.0	0.0	0.0

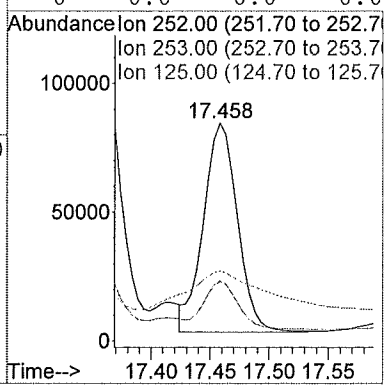


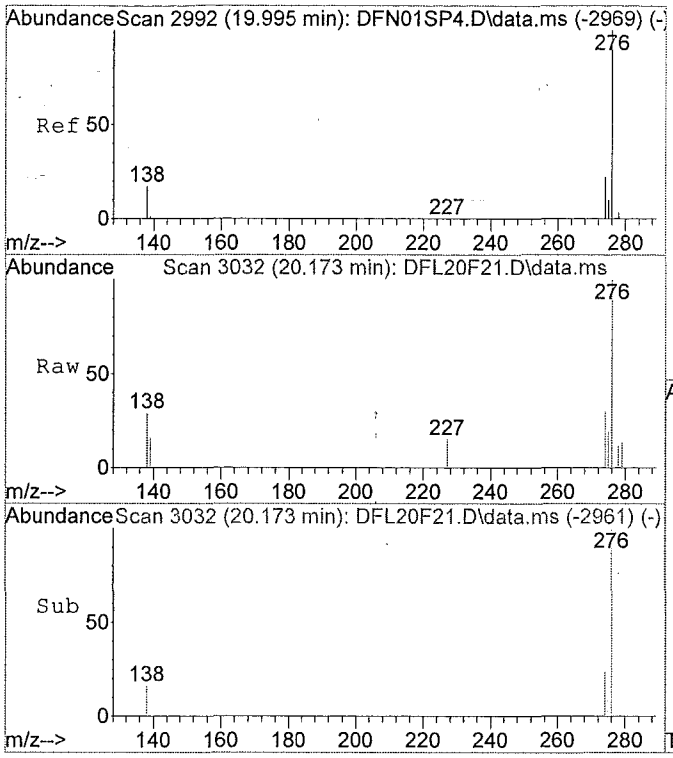


#22
Benzo(a)pyrene
Concen: 0.23 ug/ml
RT: 17.46 min Scan# 2474
Delta R.T. 0.00 min
Lab File: DFL20F21.D
Acq: 07/14/2015 23:44

Tgt Ion:252 Resp: 162748

Ion	Ratio	Lower	Upper
252	100		
253	23.7	15.0	27.8
125	44.3	0.0	0.0#
0	0.0	0.0	0.0

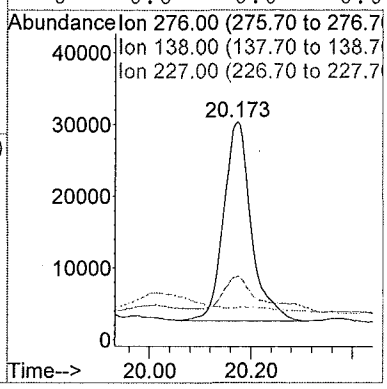


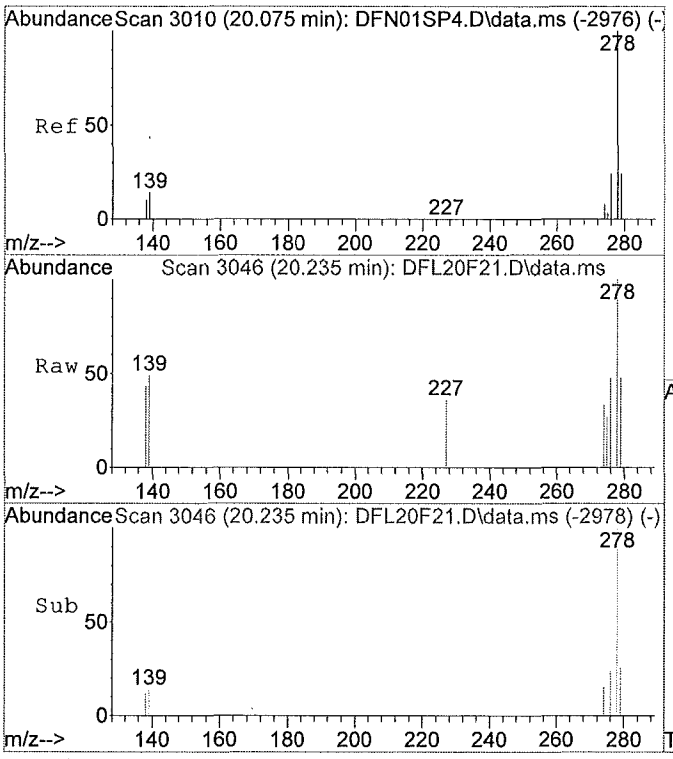


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.17 ug/ml
RT: 20.17 min Scan# 3032
Delta R.T. 0.02 min
Lab File: DFL20F21.D
Acq: 07/14/2015 23:44

Tgt Ion:276 Resp: 104267

Ion	Ratio	Lower	Upper
276	100		
138	16.7	0.0	0.0#
227	0.0	0.0	0.0
0	0.0	0.0	0.0

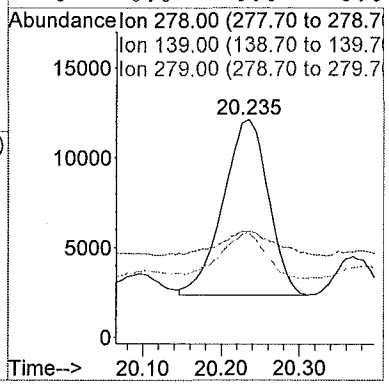


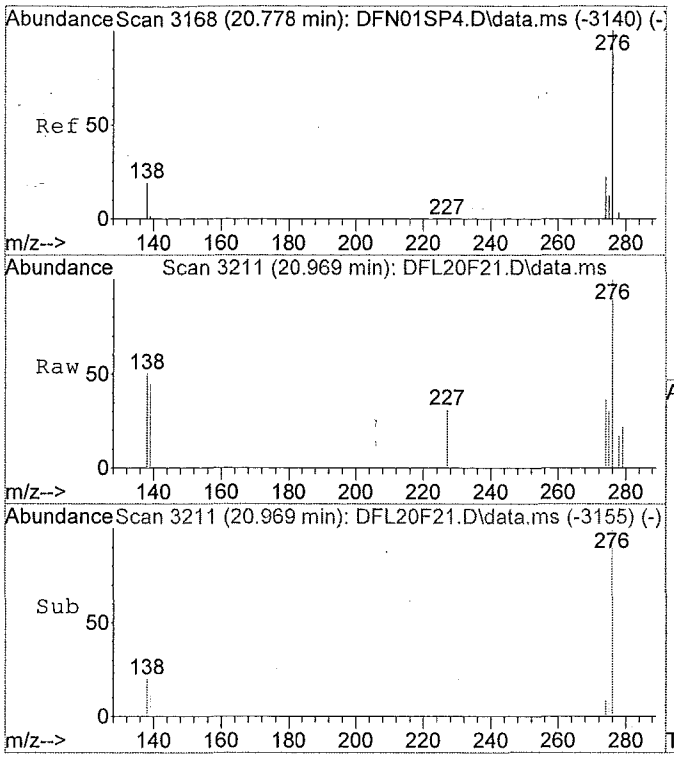


#24
Dibenzo(a,h)anthracene
Concen: 0.06 ug/ml
RT: 20.23 min Scan# 3046
Delta R.T. 0.00 min
Lab File: DFL20F21.D
Acq: 07/14/2015 23:44

Tgt Ion:278 Resp: 39406

Ion	Ratio	Lower	Upper
278	100		
139	16.9	0.0	0.0#
279	27.2	15.8	29.3
0	0.0	0.0	0.0

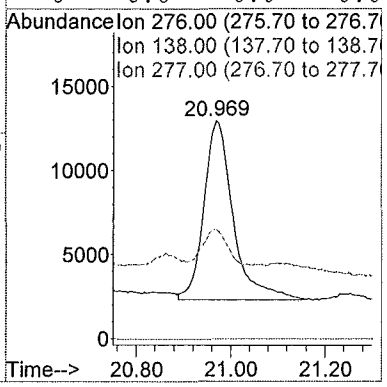




#25
Benzo(g,h,i)perylene
Concen: 0.07 ug/ml
RT: 20.97 min Scan# 3211
Delta R.T. 0.02 min
Lab File: DFL20F21.D
Acq: 07/14/2015 23:44

Tgt Ion:276 Resp: 46046

Ion	Ratio	Lower	Upper
276	100		
138	16.1	16.2	30.0#
277	0.0	16.5	30.7#
0	0.0	0.0	0.0



01287

1F - FORM I SV-SIM
SEMIVOLATILE SIM ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F9M19

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1515375022

Sample wt/vol: 30.5 (g/mL) g Lab File ID: DFL21F22

Extraction: (Type) SONC

% Moisture: 26. Decanted: (Y/N) N Date Received: 06/02/2015

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 07/15/2015

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

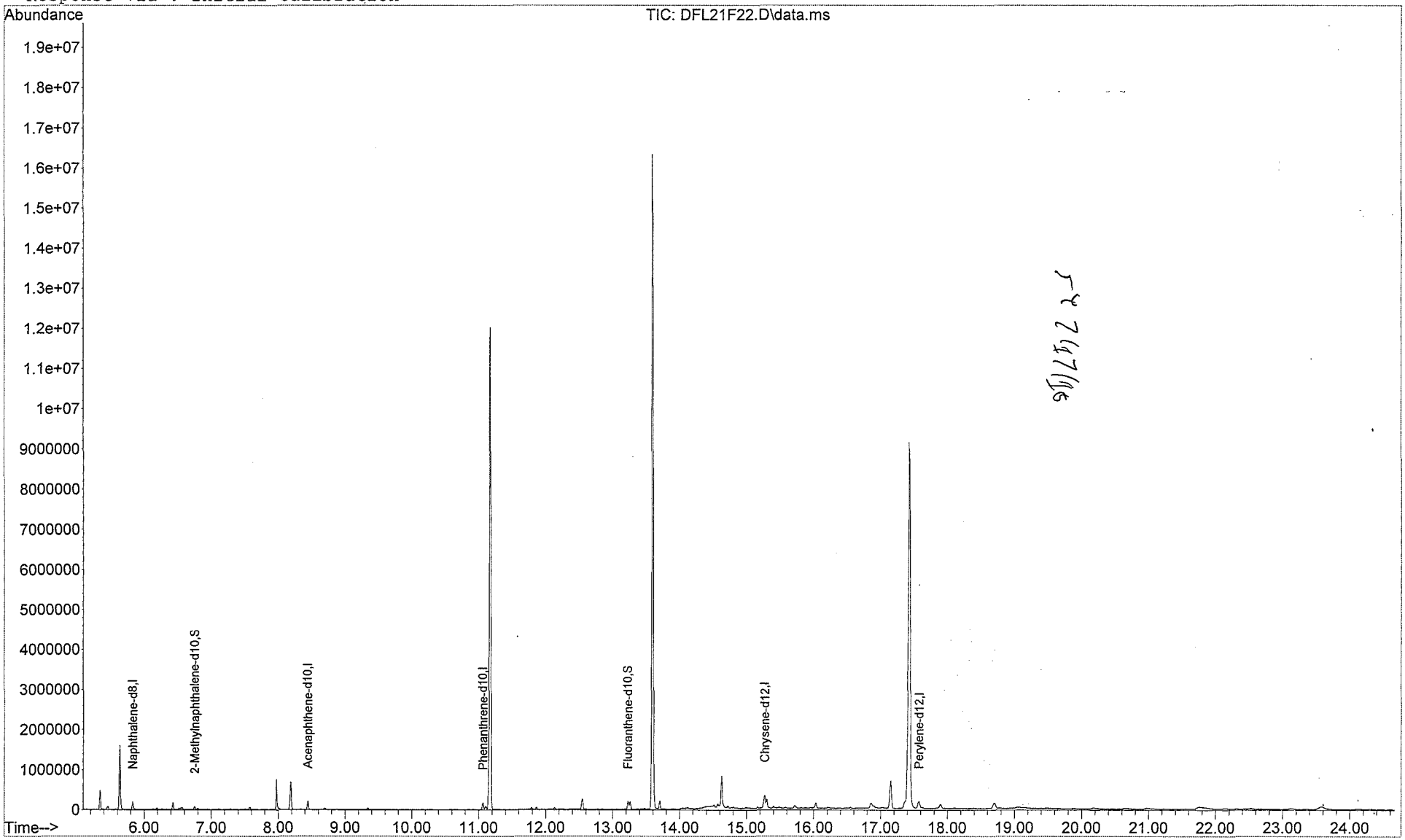
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	1.1	J
91-57-6	2-Methylnaphthalene	1.9	J
208-96-8	Acenaphthylene	4.4	U
83-32-9	Acenaphthene	4.4	U
86-73-7	Fluorene	4.4	U
87-86-5	Pentachlorophenol	8.9	U
85-01-8	Phenanthrene	5.5	
120-12-7	Anthracene	1.7	J
206-44-0	Fluoranthene	7.3	
129-00-0	Pyrene	9.6	
56-55-3	Benzo(a)anthracene	6.3	
218-01-9	Chrysene	9.6	
205-99-2	Benzo(b)fluoranthene	7.8	
207-08-9	Benzo(k)fluoranthene	2.1	J
50-32-8	Benzo(a)pyrene	4.6	
193-39-5	Indeno(1,2,3-cd)pyrene	4.0	J
53-70-3	Dibenzo(a,h)anthracene	1.2	J
191-24-2	Benzo(g,h,i)perylene	1.8	J

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL21F22.D Vial: 21
Acq On : 07/15/2015 00:14 Operator: DJC
Sample : 1515375022 F9M19 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 17 12:18:55 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\14JUL15D\DFL21F22.D Vial: 21
Acq On : 07/15/2015 00:14 Operator: DJC
Sample : 1515375022 F9M19 Inst : 5975-D
Misc : . SOIL SIM Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 17 12:18:55 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

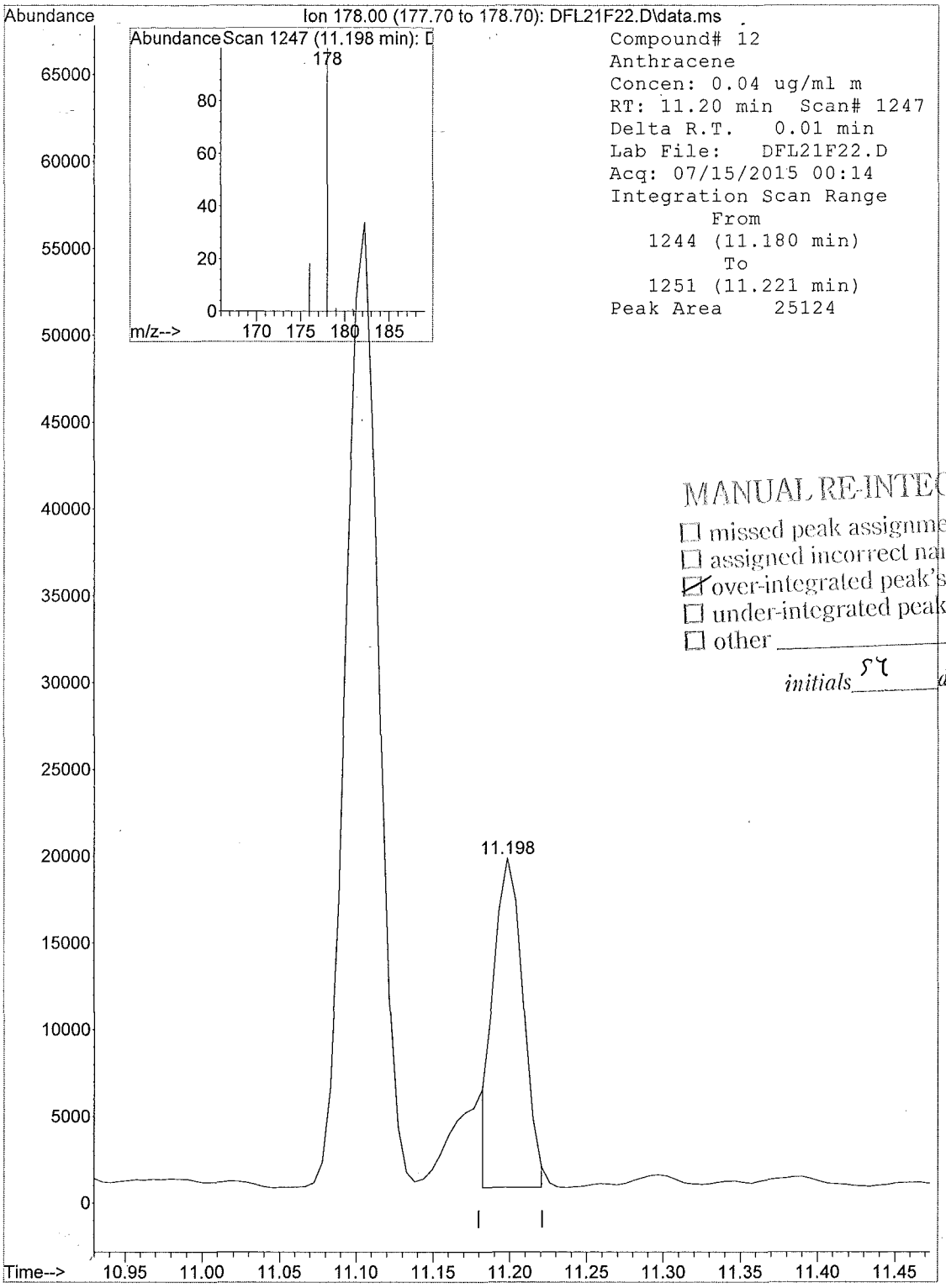
Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	5.83	136	200007	0.40 ug/ml
5) Acenaphthene-d10	8.44	164	142127	0.40 ug/ml
9) Phenanthrene-d10	11.06	188	231716	0.40 ug/ml
15) Chrysene-d12	15.27	240	280273	0.40 ug/ml
19) Perylene-d12	17.57	264	289287	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	6.75	152	84030	0.260ug/mL
13) Fluoranthene-d10	13.23	212	208515	0.329ug/mL

Target Compounds					Qvalue
2) Naphthalene	5.86	128	12679	0.024ug/ml	96
4) 2-Methylnaphthalene	6.80	142	14662	0.044ug/ml	100
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	11.11	178	82791	0.124ug/ml	96
12) Anthracene	11.20	178	25124	0.039ug/ml m 54	92
14) Fluoranthene	13.26	202	124982	0.165ug/ml 7/15/15	67
16) Pyrene	13.62	202	192192	0.219ug/ml	1
17) Benzo(a)anthracene	15.25	228	106364	0.142ug/ml	77
18) Chrysene	15.30	228	170822	0.216ug/ml	93
20) Benzo(b)fluoranthene	16.86	252	160207	0.178ug/ml 54	99
21) Benzo(k)fluoranthene	16.90	252	45013	0.048ug/ml m 7/17/15	98
22) Benzo(a)pyrene	17.47	252	89170	0.104ug/ml	92
23) Indeno(1,2,3-c,d)pyrene	20.17	276	67636	0.090ug/ml	100
24) Dibenzo(a,h)anthracene	20.24	278	22167	0.027ug/ml	85
25) Benzo(g,h,i)perylene	20.98	276	35087	0.041ug/ml	3

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

: 01290

M A N U A L I N T E G R A T I O N FOR Anthracene



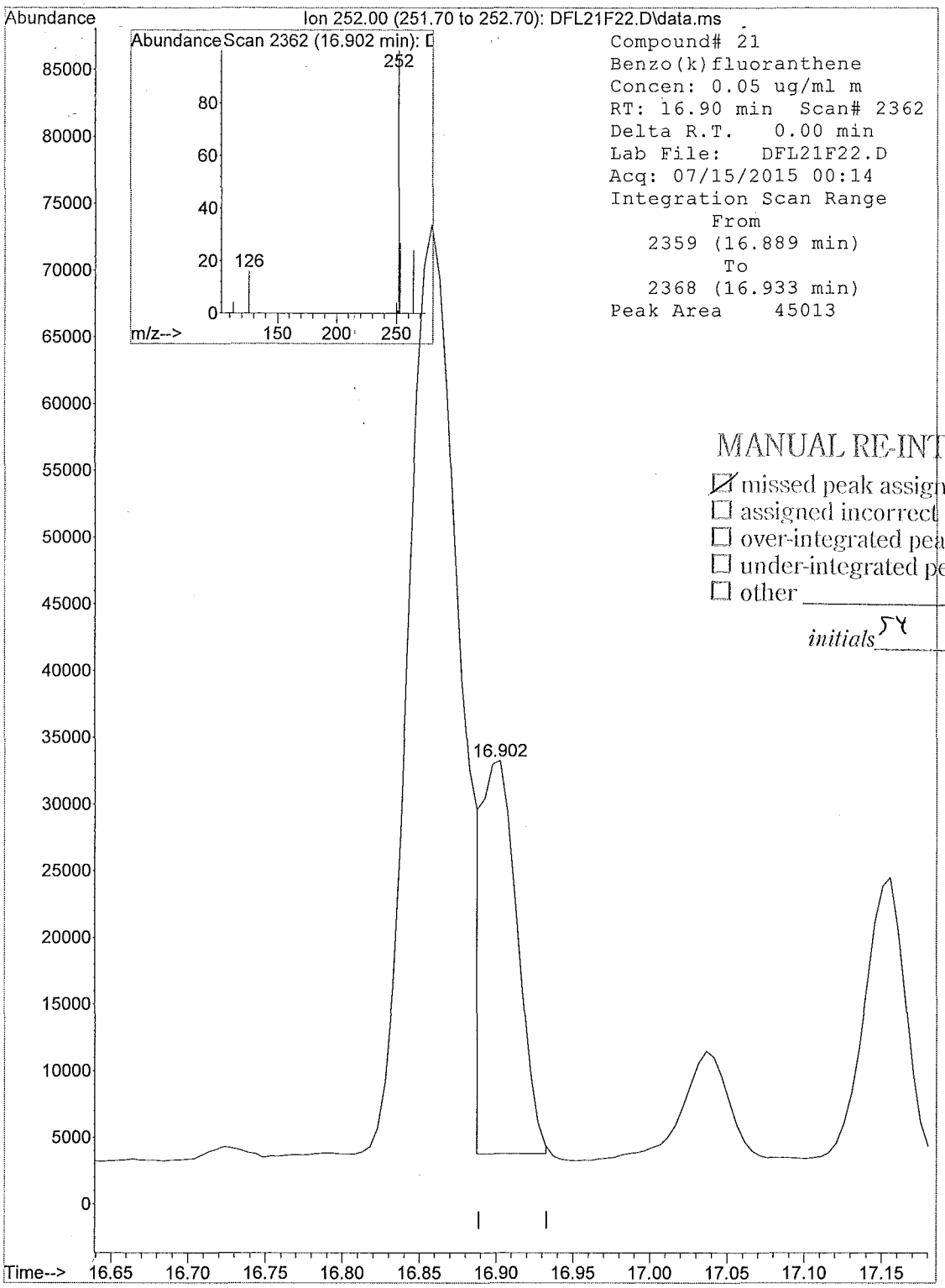
Compound# 12
Anthracene
Concen: 0.04 ug/ml m
RT: 11.20 min Scan# 1247
Delta R.T. 0.01 min
Lab File: DFL21F22.D
Acq: 07/15/2015 00:14
Integration Scan Range
From
1244 (11.180 min)
To
1251 (11.221 min)
Peak Area 25124

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☑ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials SY *date* 7/17/15

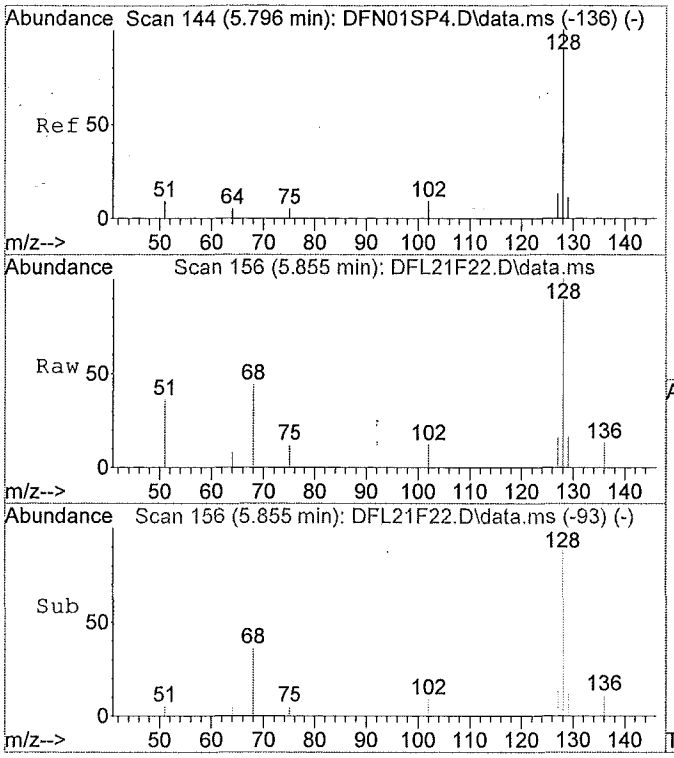
M A N U A L I N T E G R A T I O N FOR Benzo(k)fluoranthene



MANUAL RE-INTEGRATION

☒ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

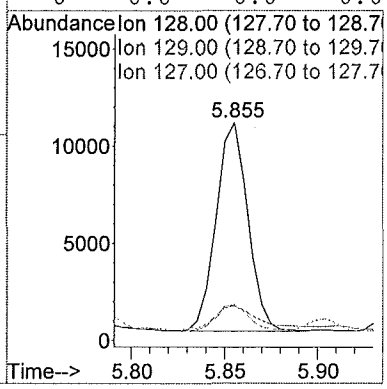
initials SY *date* 7/17/15

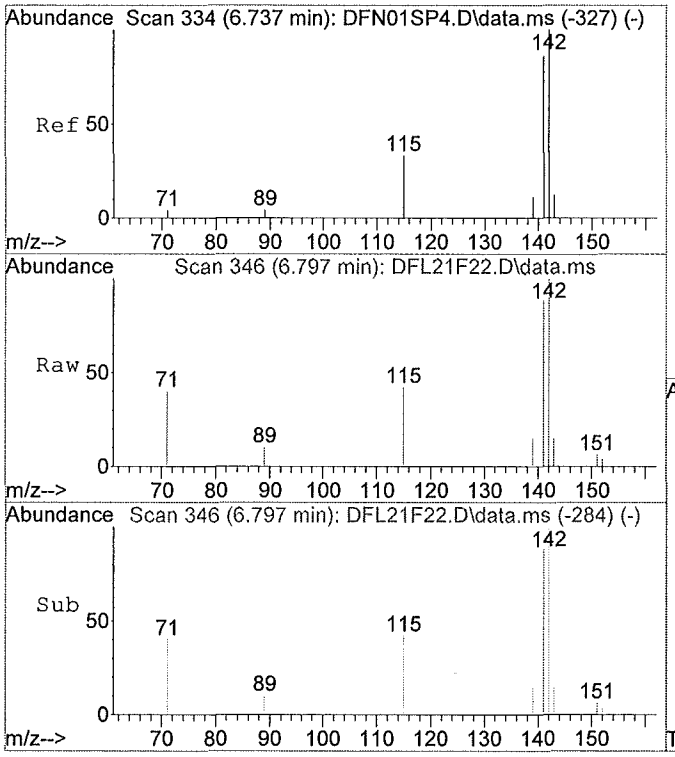


#2
Naphthalene
Concen: 0.02 ug/ml
RT: 5.86 min Scan# 156
Delta R.T. 0.01 min
Lab File: DFL21F22.D
Acq: 07/15/2015 00:14

Tgt Ion:128 Resp: 12679

Ion	Ratio	Lower	Upper
128	100		
129	17.8	0.0	0.0#
127	14.0	11.1	20.5
0	0.0	0.0	0.0

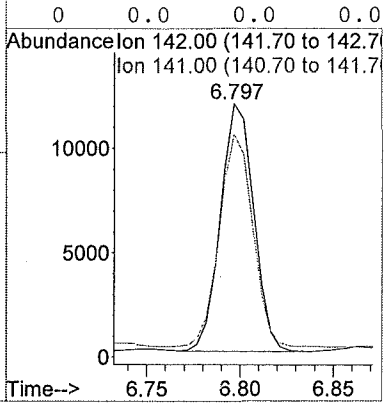


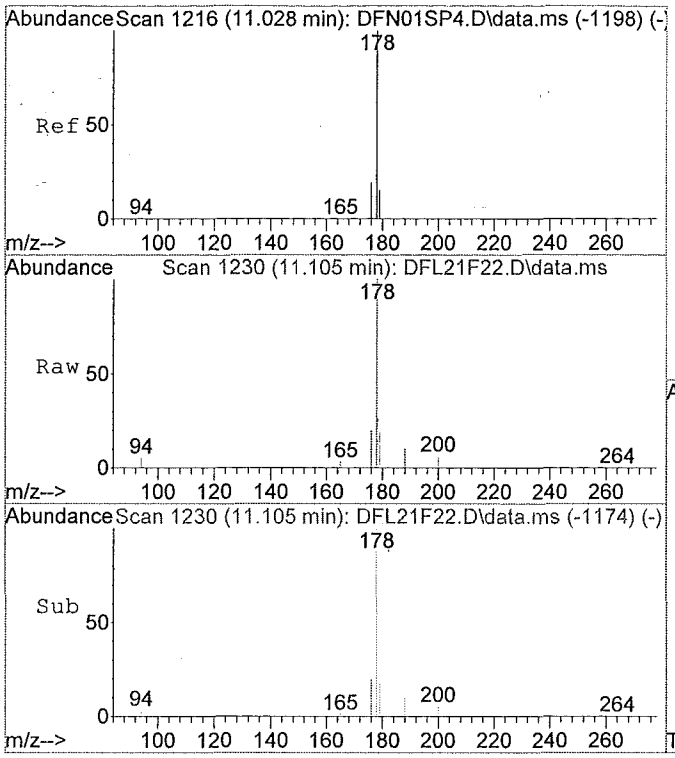


#4
2-Methylnaphthalene
Concen: 0.04 ug/ml
RT: 6.80 min Scan# 346
Delta R.T. 0.01 min
Lab File: DFL21F22.D
Acq: 07/15/2015 00:14

Tgt Ion:142 Resp: 14662

Ion	Ratio	Lower	Upper
142	100		
141	86.9	61.1	113.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

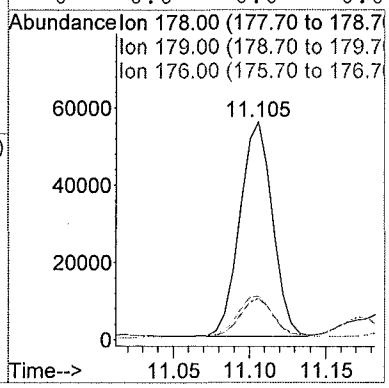


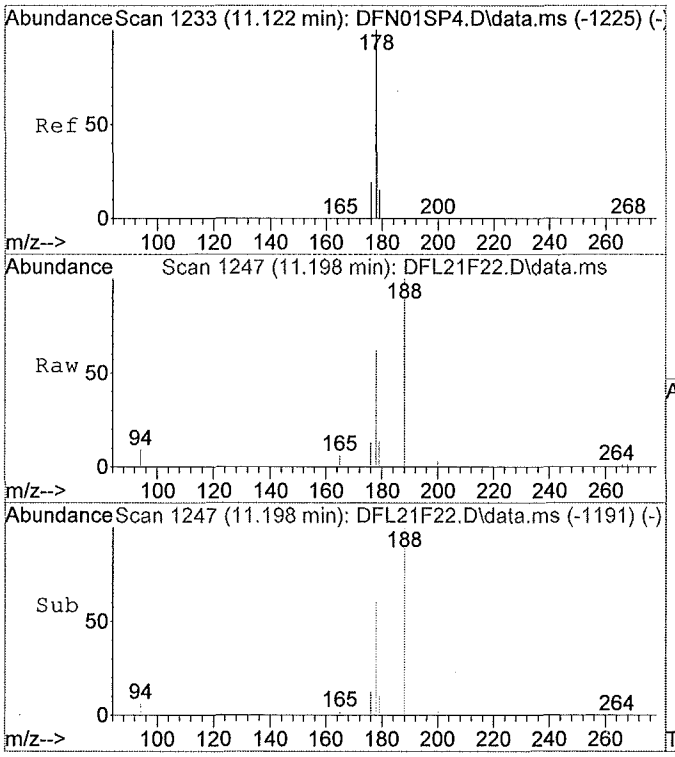


#11
Phenanthrene
Concen: 0.12 ug/ml
RT: 11.11 min Scan# 1230
Delta R.T. 0.01 min
Lab File: DFL21F22.D
Acq: 07/15/2015 00:14

Tgt Ion:178 Resp: 82791

Ion	Ratio	Lower	Upper
178	100		
179	17.8	11.1	20.5
176	21.9	14.1	26.1
0	0.0	0.0	0.0

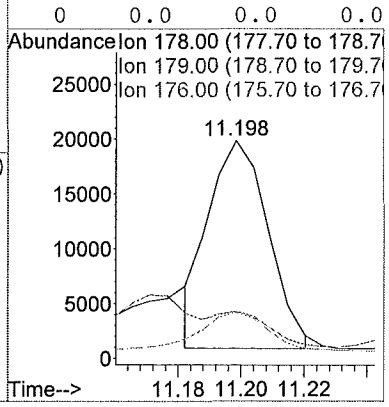


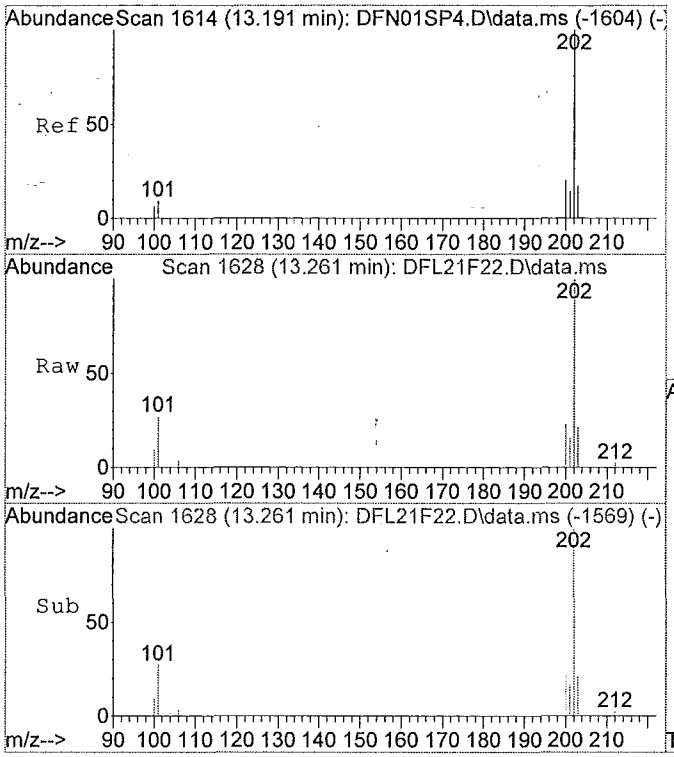


#12
Anthracene
Concen: 0.04 ug/ml m
RT: 11.20 min Scan# 1247
Delta R.T. 0.01 min
Lab File: DFL21F22.D
Acq: 07/15/2015 00:14

Tgt Ion:178 Resp: 25124

Ion	Ratio	Lower	Upper
178	100		
179	0.0	11.6	21.6#
176	0.0	13.9	25.7#
0	0.0	0.0	0.0

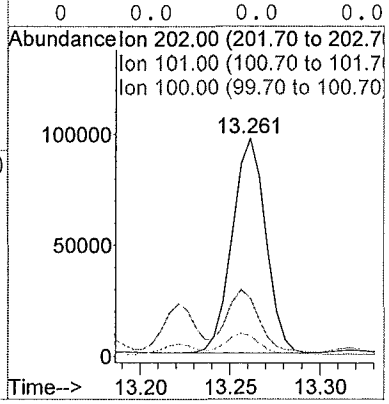


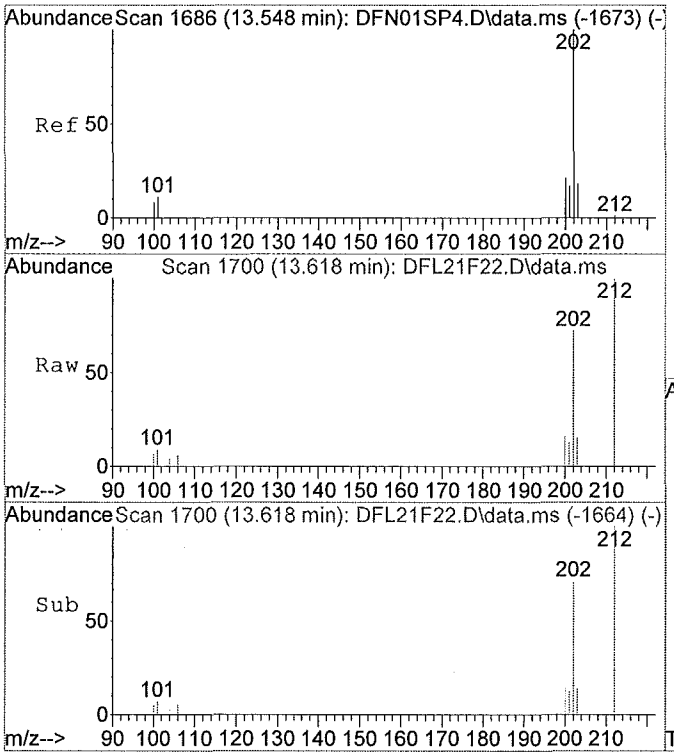


#14
Fluoranthene
Concen: 0.16 ug/ml
RT: 13.26 min Scan# 1628
Delta R.T. 0.01 min
Lab File: DFL21F22.D
Acq: 07/15/2015 00:14

Tgt Ion:202 Resp: 124982

Ion	Ratio	Lower	Upper
202	100		
101	26.6	9.4	17.6#
100	10.0	0.0	0.0#
0	0.0	0.0	0.0

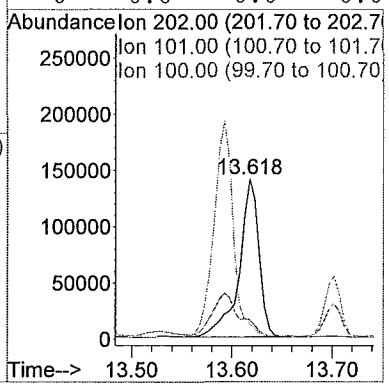


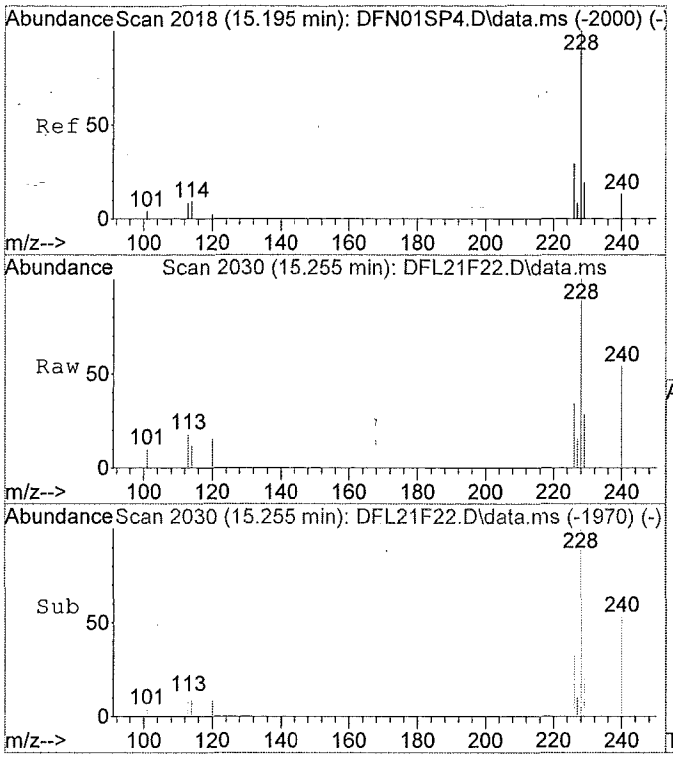


#16
Pyrene
Concen: 0.22 ug/ml
RT: 13.62 min Scan# 1700
Delta R.T. 0.01 min
Lab File: DFL21F22.D
Acq: 07/15/2015 00:14

Tgt Ion:202 Resp: 192192

Ion	Ratio	Lower	Upper
202	100		
101	37.9	10.6	19.6#
100	135.7	9.4	17.4#
0	0.0	0.0	0.0

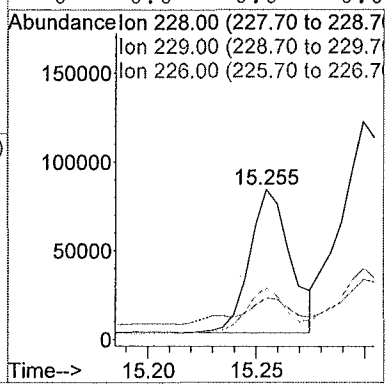


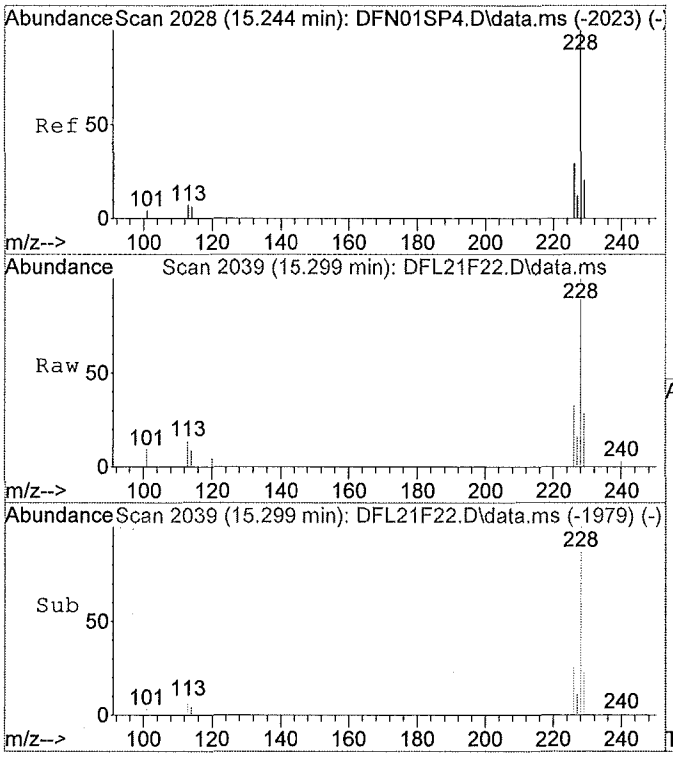


#17
Benzo(a)anthracene
Concen: 0.14 ug/ml
RT: 15.25 min Scan# 2030
Delta R.T. 0.00 min
Lab File: DFL21F22.D
Acq: 07/15/2015 00:14

Tgt Ion:228 Resp: 106364

Ion	Ratio	Lower	Upper
228	100		
229	40.3	14.5	26.9#
226	30.2	18.5	34.3
0	0.0	0.0	0.0

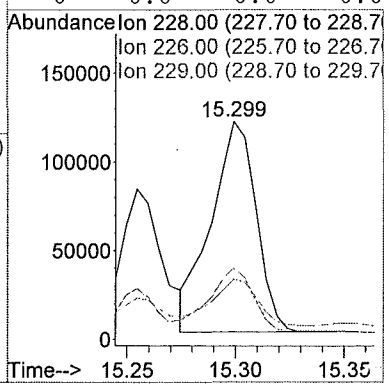


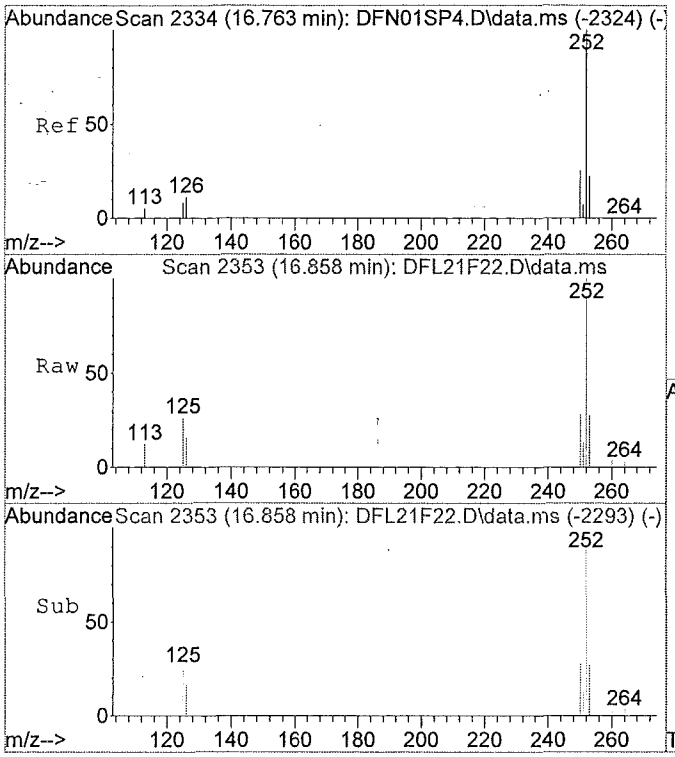


#18
Chrysene
Concen: 0.22 ug/ml
RT: 15.30 min Scan# 2039
Delta R.T. 0.00 min
Lab File: DFL21F22.D
Acq: 07/15/2015 00:14

Tgt Ion:228 Resp: 170822

Ion	Ratio	Lower	Upper
228	100		
226	30.2	19.7	36.7
229	26.0	14.5	26.9
0	0.0	0.0	0.0

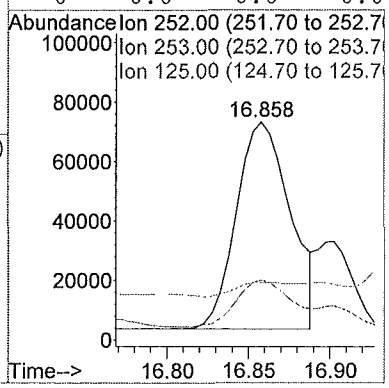


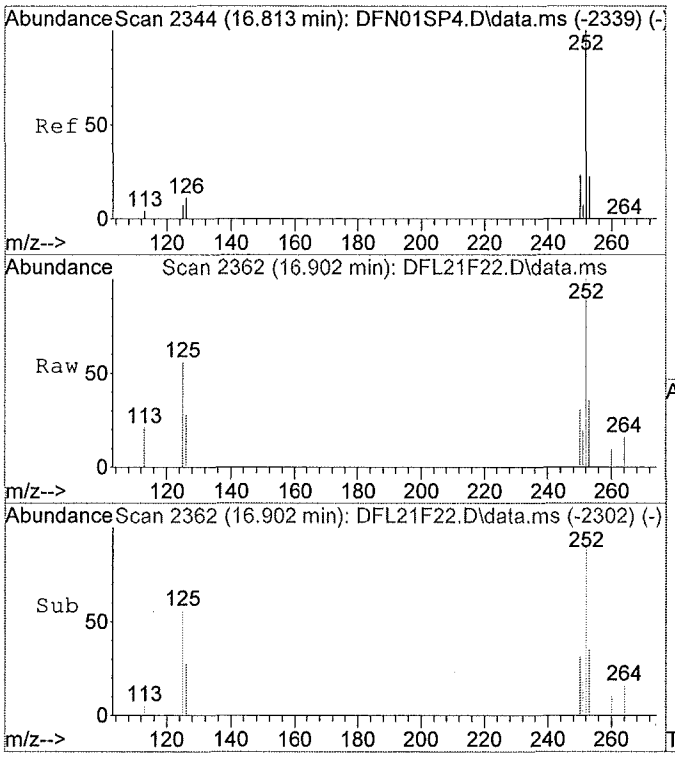


#20
Benzo(b)fluoranthene
Concen: 0.18 ug/ml
RT: 16.86 min Scan# 2353
Delta R.T. 0.01 min
Lab File: DFL21F22.D
Acq: 07/15/2015 00:14

Tgt Ion:252 Resp: 160207

Ion	Ratio	Lower	Upper
252	100		
253	22.2	15.3	28.3
125	0.0	0.0	0.0
0	0.0	0.0	0.0

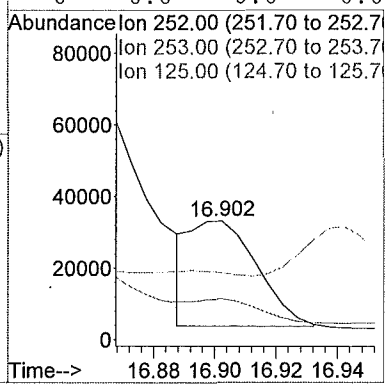


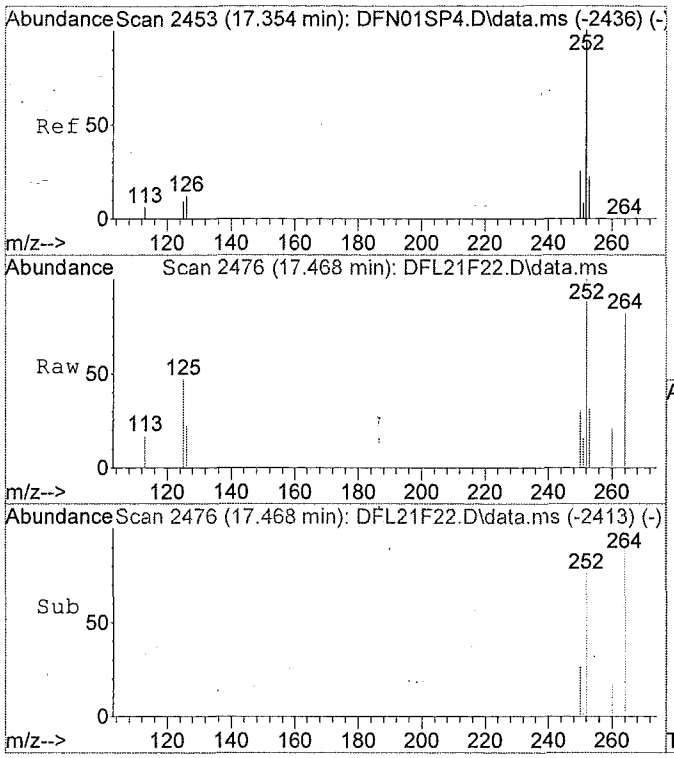


#21
Benzo(k)fluoranthene
Concen: 0.05 ug/ml m
RT: 16.90 min Scan# 2362
Delta R.T. 0.00 min
Lab File: DFL21F22.D
Acq: 07/15/2015 00:14

Tgt Ion:252 Resp: 45013

Ion	Ratio	Lower	Upper
252	100		
253	79.1	15.0	27.8#
125	0.0	0.0	0.0
0	0.0	0.0	0.0

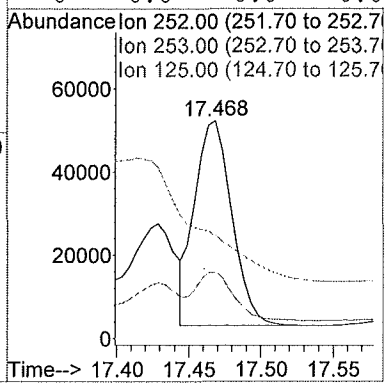


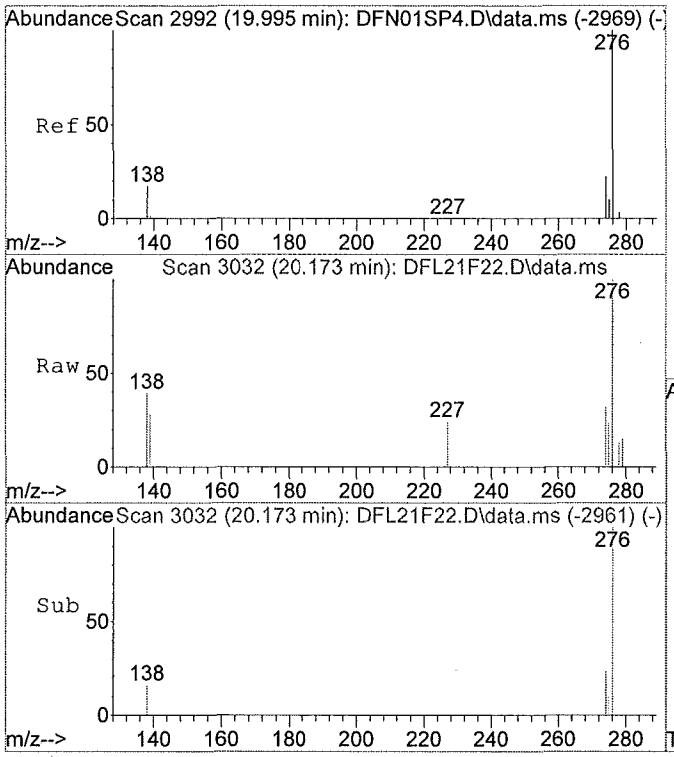


#22
Benzo(a)pyrene
Concen: 0.10 ug/ml
RT: 17.47 min Scan# 2476
Delta R.T. 0.02 min
Lab File: DFL21F22.D
Acq: 07/15/2015 00:14

Tgt Ion:252 Resp: 89170

Ion	Ratio	Lower	Upper
252	100		
253	25.3	15.0	27.8
125	0.0	0.0	0.0
0	0.0	0.0	0.0

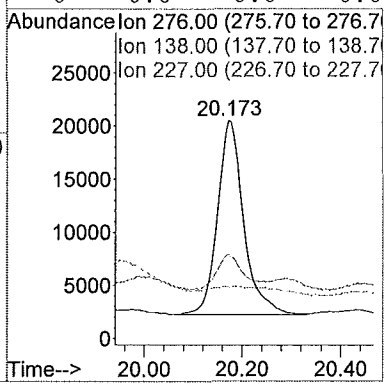


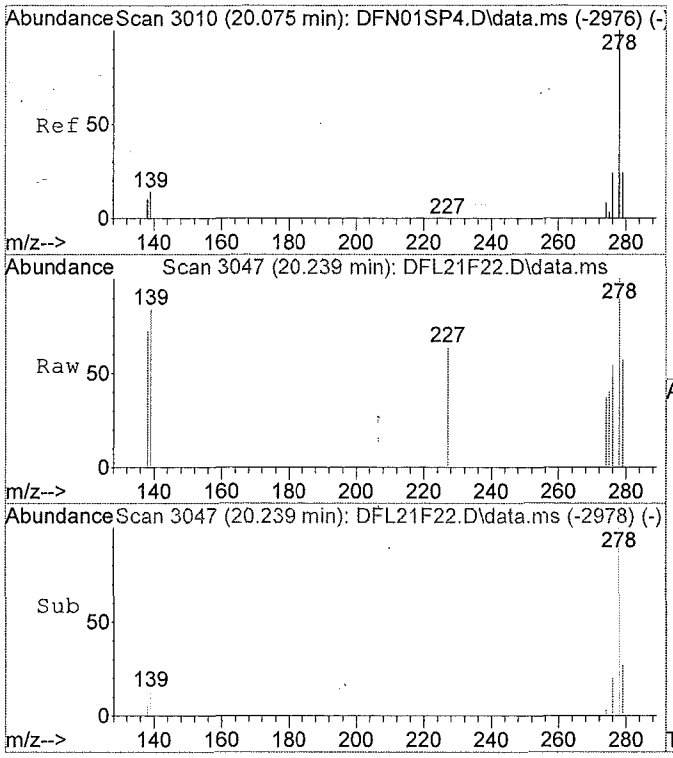


#23
Indeno(1,2,3-c,d)pyrene
Concen: 0.09 ug/ml
RT: 20.17 min Scan# 3032
Delta R.T. 0.02 min
Lab File: DFL21F22.D
Acq: 07/15/2015 00:14

Tgt Ion:276 Resp: 67636

Ion	Ratio	Lower	Upper
276	100		
138	17.4	0.0	0.0#
227	1.1	0.0	0.0#
0	0.0	0.0	0.0

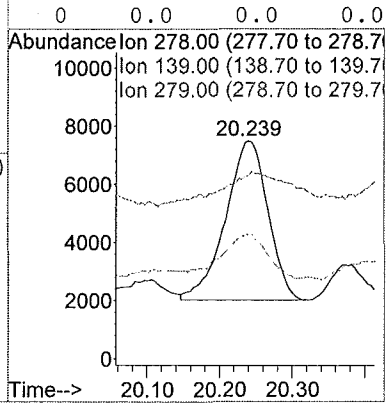


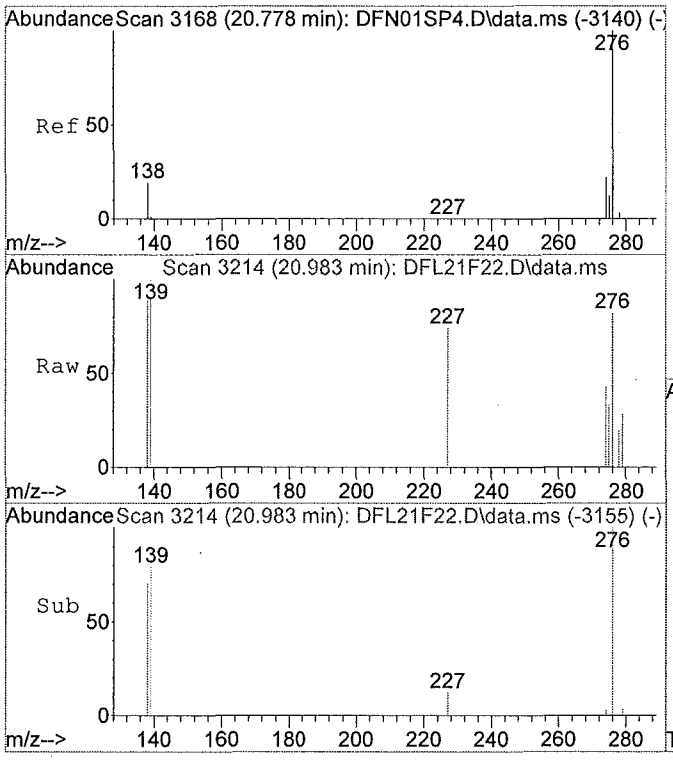


#24
Dibenzo(a,h)anthracene
Concen: 0.03 ug/ml
RT: 20.24 min Scan# 3047
Delta R.T. 0.01 min
Lab File: DFL21F22.D
Acq: 07/15/2015 00:14

Tgt Ion:278 Resp: 22167

Ion	Ratio	Lower	Upper
278	100		
139	23.0	0.0	0.0#
279	29.7	15.8	29.3#
0	0.0	0.0	0.0

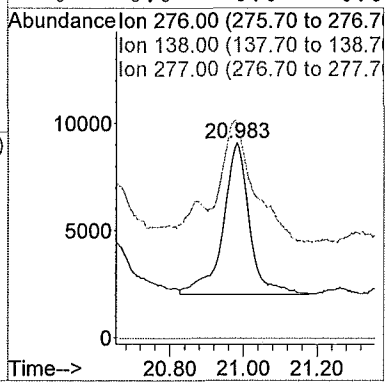




#25
Benzo(g,h,i)perylene
Concen: 0.04 ug/ml
RT: 20.98 min Scan# 3214
Delta R.T. 0.03 min
Lab File: DFL21F22.D
Acq: 07/15/2015 00:14

Tgt Ion:276 Resp: 35087

Ion	Ratio	Lower	Upper
276	100		
138	94.5	16.2	30.0#
277	0.0	16.5	30.7#
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.: F9L98

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

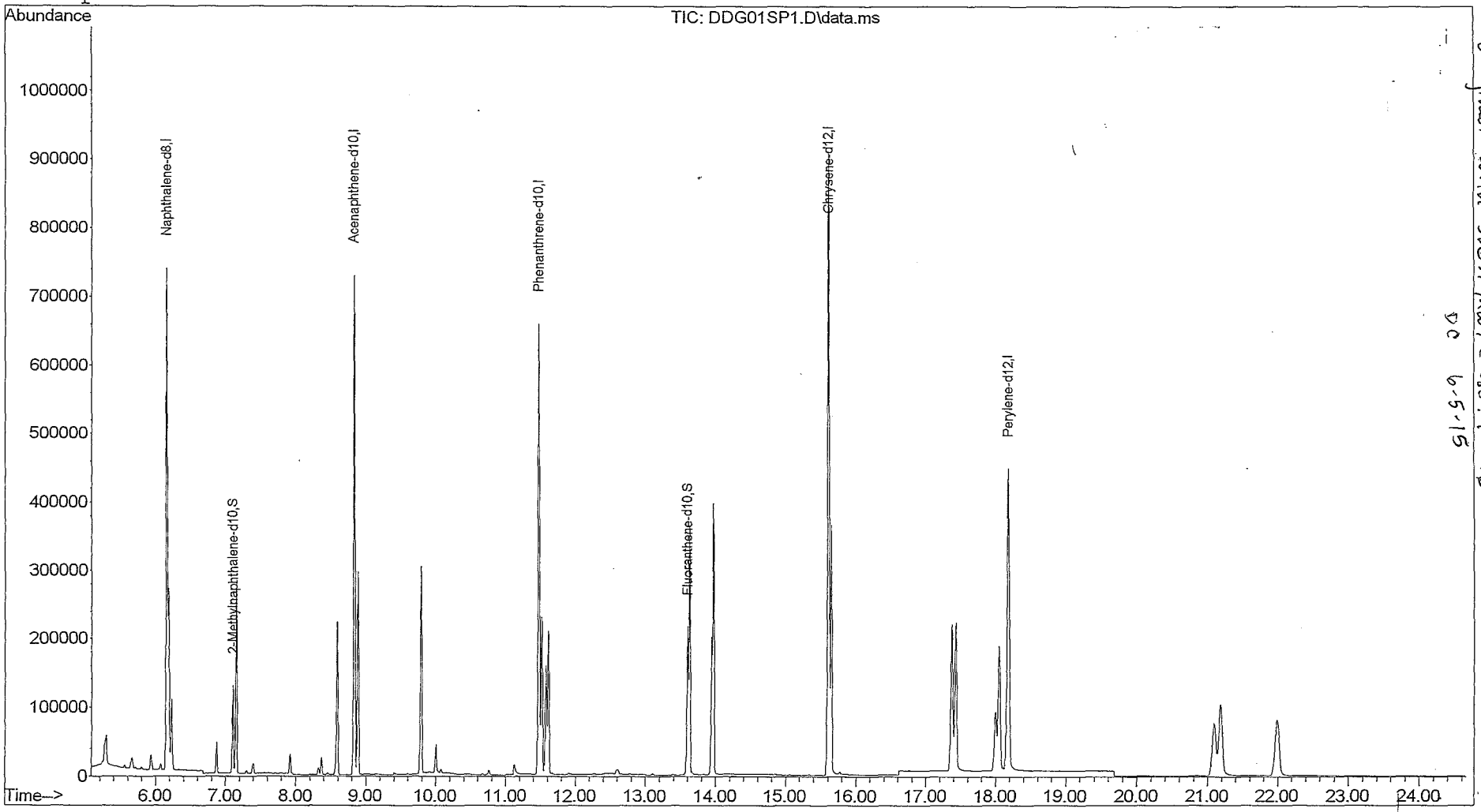
COMPOUND	RRF 0.1	RRF 0.2	RRF 0.4	RRF 0.8	RRF 1.0	$\overline{RRF}$	%RSD
Naphthalene	1.070	1.060	1.047	1.004	1.034	1.043	2.5
2-Methylnaphthalene	0.678	0.680	0.672	0.652	0.676	0.672	1.7
Acenaphthylene	1.712	1.721	1.747	1.737	1.836	1.750	2.8
Acenaphthene	1.121	1.125	1.118	1.093	1.144	1.120	1.6
Fluorene	1.280	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: FGKW7 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

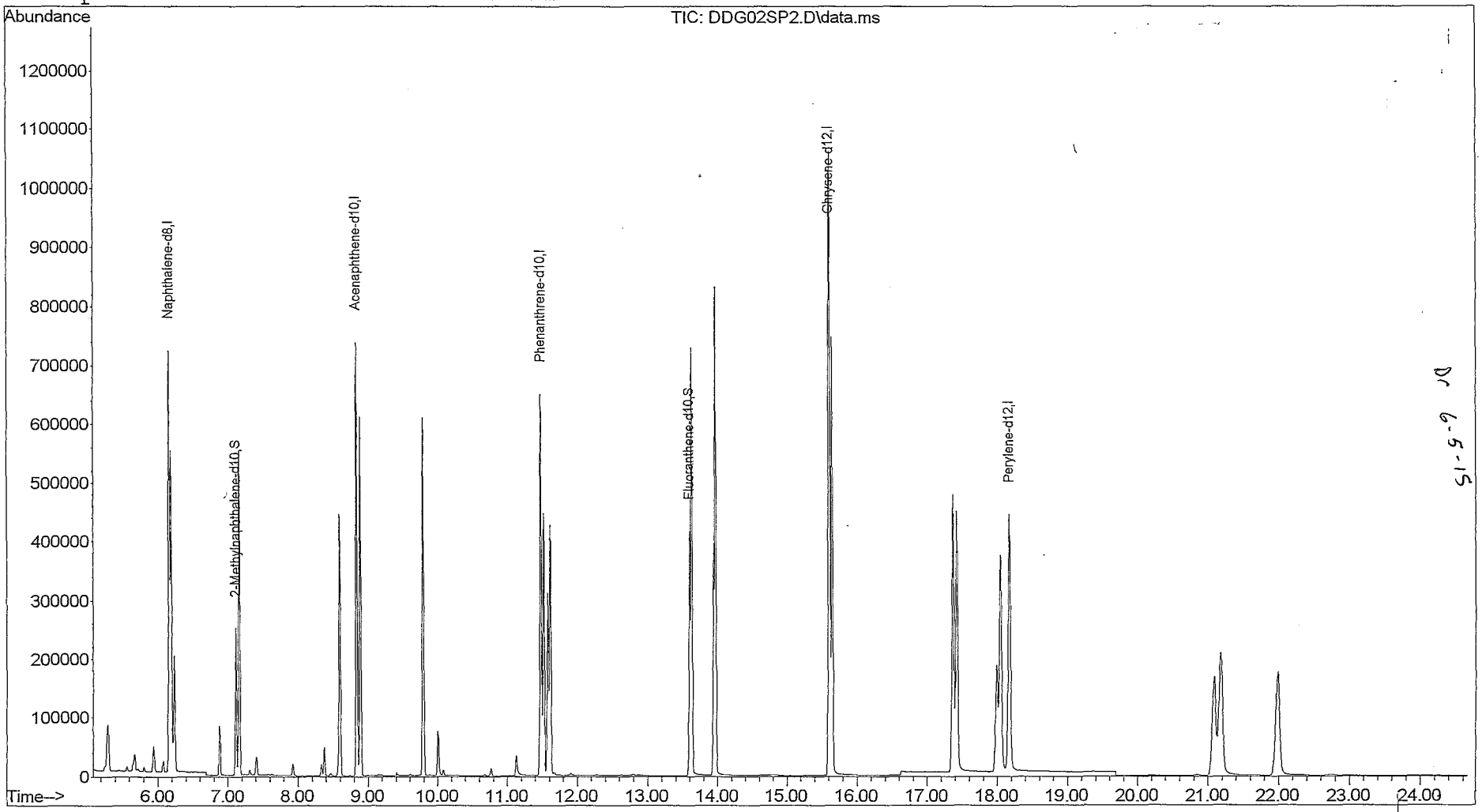
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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



DR 6-5-15

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)

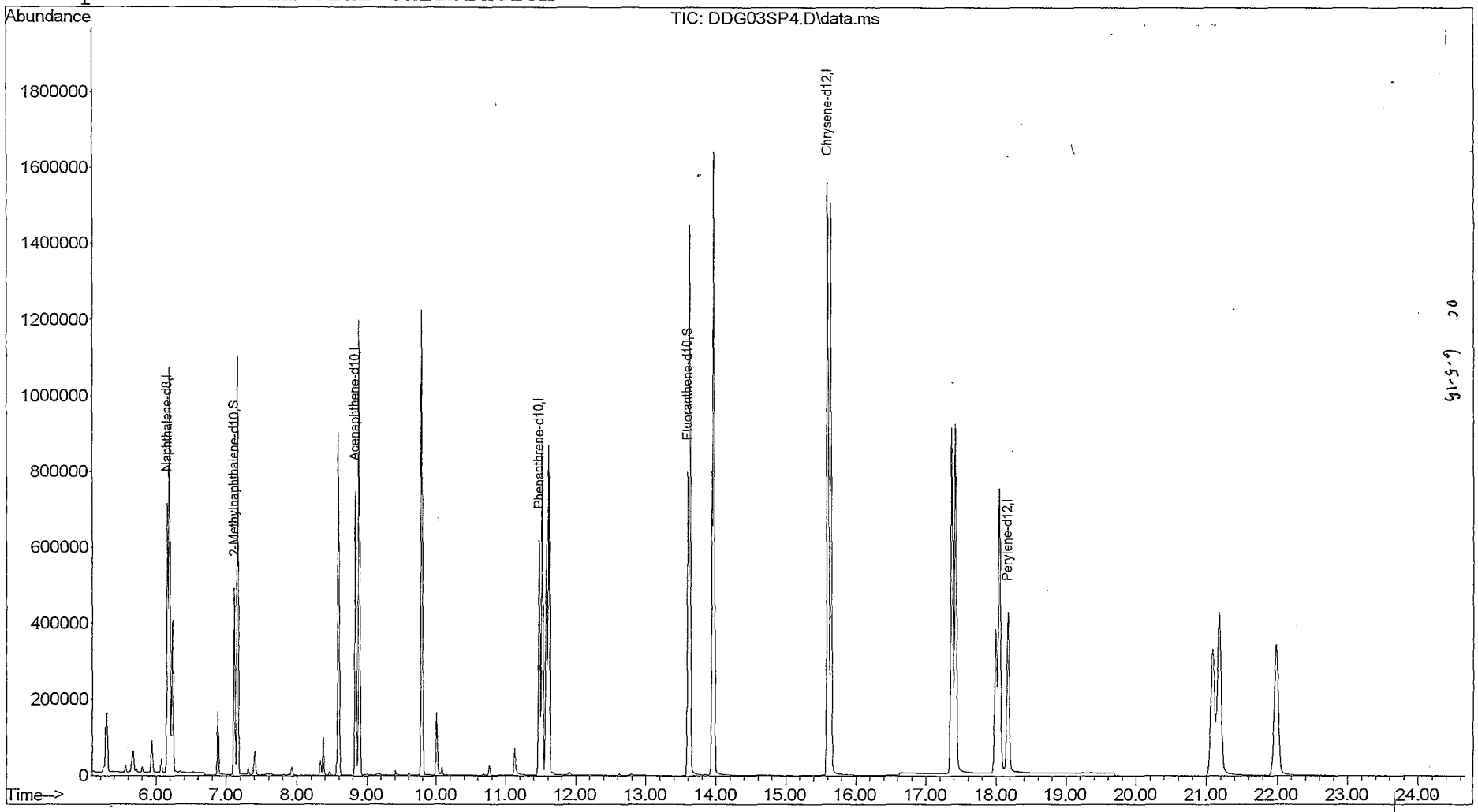
01394

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

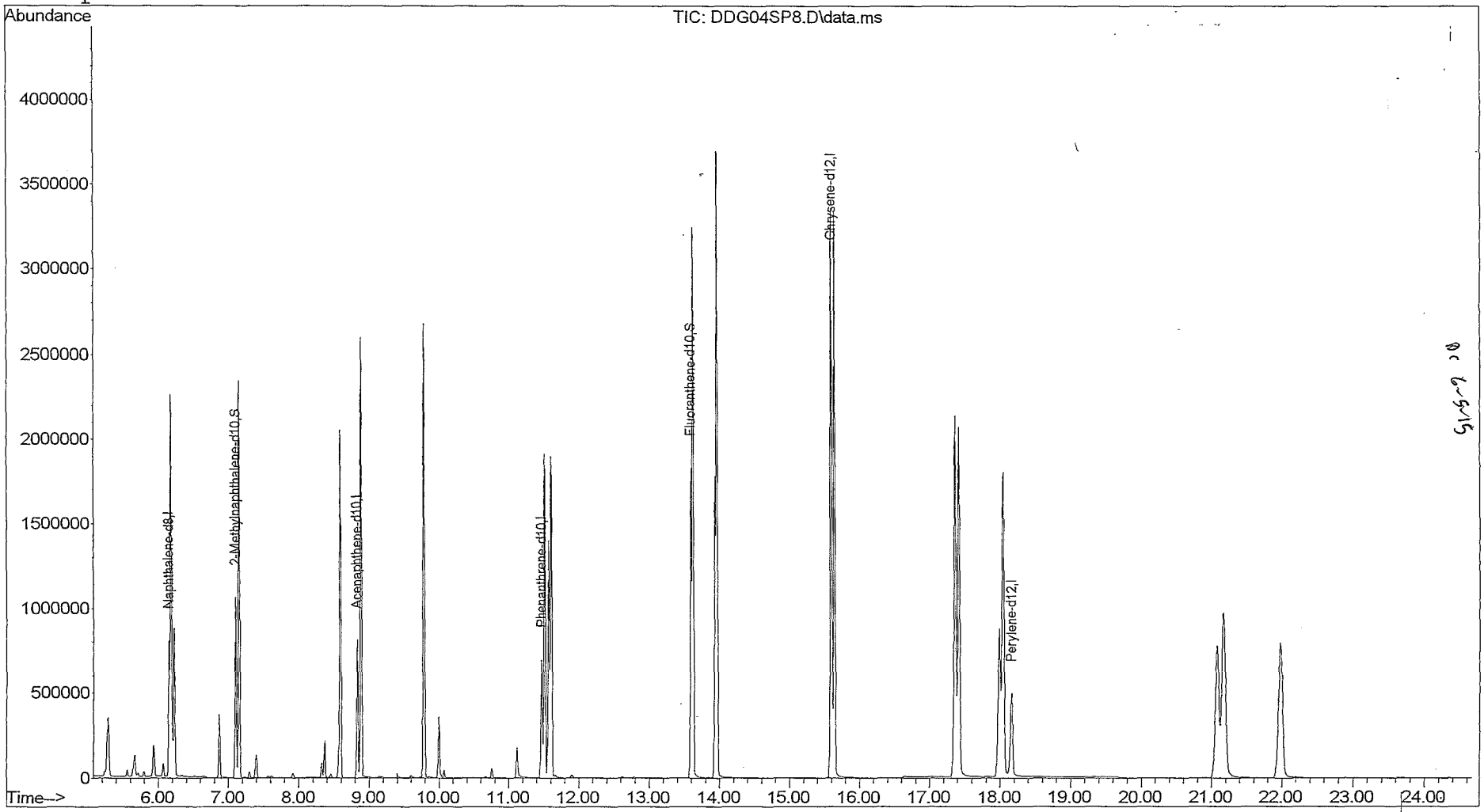
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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)

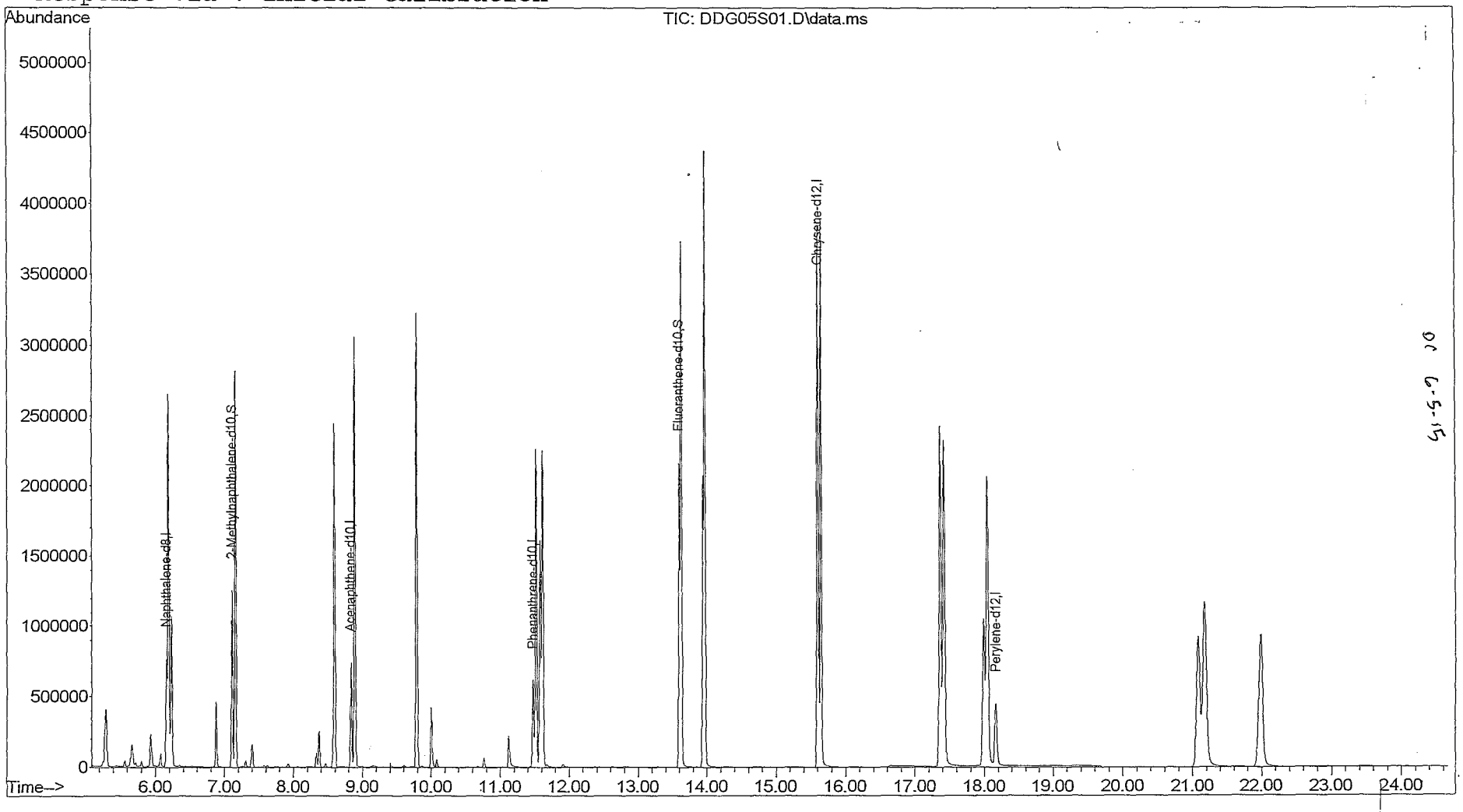
01398

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



6-5-15

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)

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.: F9L98

Instrument ID: 5975-D Calibration Date: 06/12/2015 Time: 12:47

Lab File ID: DGA02SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DA Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

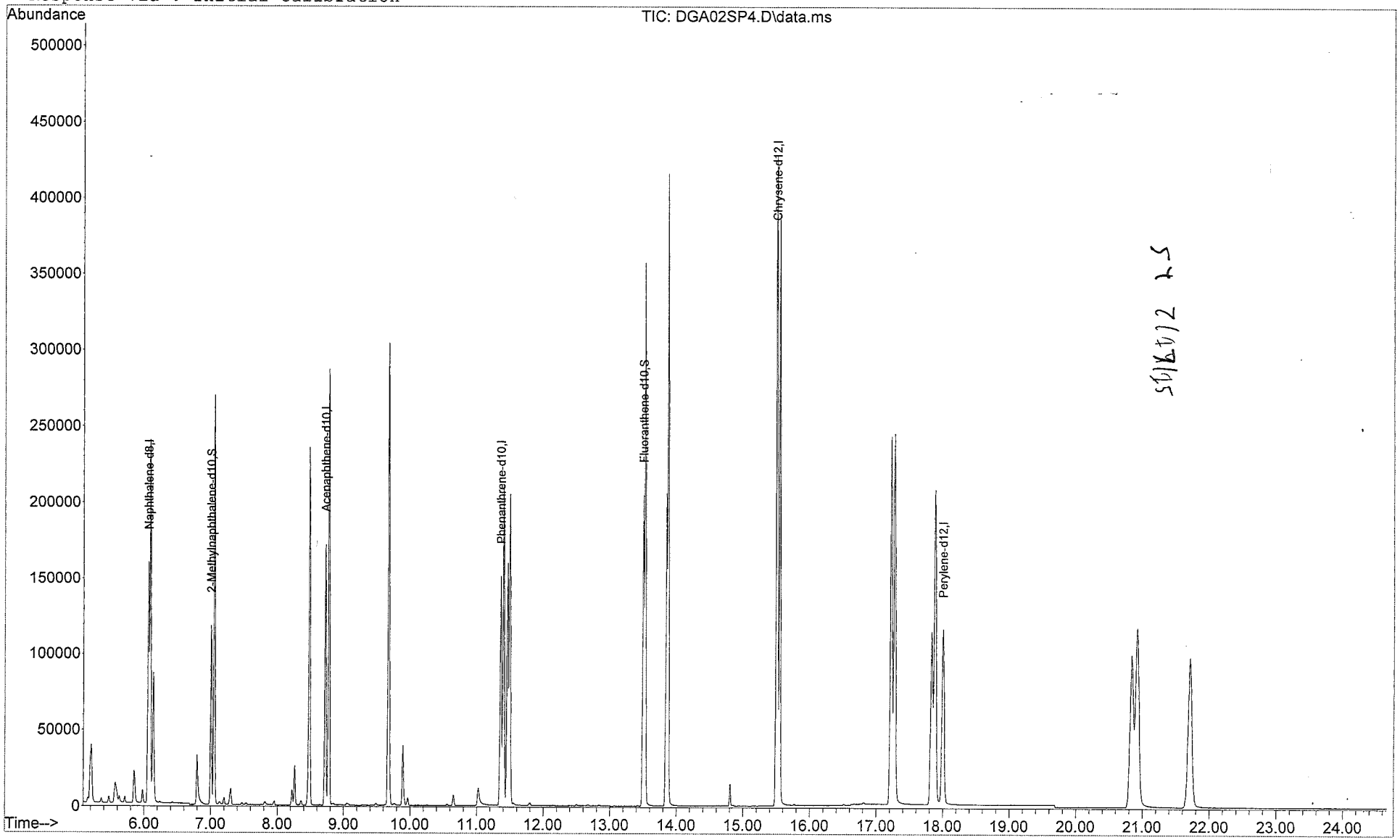
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.086	0.700	4.1	25.0
2-Methylnaphthalene	0.672	0.726	0.400	8.1	25.0
Acenaphthylene	1.750	1.829	0.900	4.5	25.0
Acenaphthene	1.120	1.171	0.900	4.5	25.0
Fluorene	1.299	1.340	0.900	3.2	25.0
Pentachlorophenol	0.060	0.056	0.050	-6.2	25.0
Phenanthrene	1.152	1.151	0.700	0.0	25.0
Anthracene	1.120	1.127	0.700	0.7	25.0
Fluoranthene	1.311	1.345	0.600	2.6	25.0
Pyrene	1.255	1.277	0.600	1.8	25.0
Benzo(a)anthracene	1.067	1.173	0.800	10.0	25.0
Chrysene	1.127	1.147	0.700	1.8	25.0
Benzo(b)fluoranthene	1.247	1.245	0.700	-0.1	25.0
Benzo(k)fluoranthene	1.292	1.255	0.700	-2.8	25.0
Benzo(a)pyrene	1.191	1.185	0.700	-0.5	25.0
Indeno(1,2,3-cd)pyrene	1.043	1.117	0.500	7.1	25.0
Dibenzo(a,h)anthracene	1.153	1.159	0.400	0.5	25.0
Benzo(g,h,i)perylene	1.172	1.172	0.500	0.0	25.0
Fluoranthene-d10	1.094	1.154	0.010	5.5	25.0
2-Methylnaphthalene-d10	0.645	0.711	0.010	10.2	25.0

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\12JUN15\DGA02SP4.D Vial: 1
Acq On : 06/12/2015 12:47 Operator: DJC
Sample : SSTD0.4DA 28297 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 12 13:12:40 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\12JUN15\DGA02SP4.D Vial: 1
Acq On : 06/12/2015 12:47 Operator: DJC
Sample : SSTD0.4DA 28297 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 13:12:40 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	182015	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	117299	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	207521	0.40 ug/ml	
15) Chrysene-d12	15.51	240	232095	0.40 ug/ml	
19) Perylene-d12	18.00	264	216853	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	129479	0.441ug/mL	
13) Fluoranthene-d10	13.50	212	239504	0.422ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	197680	0.416ug/ml	95
4) 2-Methylnaphthalene	7.05	142	132137	0.432ug/ml	98
6) Acenaphthylene	8.48	152	214579	0.418ug/ml	97
7) Acenaphthene	8.77	153	137348	0.418ug/ml	99
8) Fluorene	9.67	166	157183	0.413ug/ml	100
10) Pentachlorophenol	11.02	266	11692	0.375ug/ml	100
11) Phenanthrene	11.40	178	238911	0.400ug/ml	98
12) Anthracene	11.50	178	233949	0.403ug/ml	97
14) Fluoranthene	13.52	202	279074	0.410ug/ml	87
16) Pyrene	13.87	202	296401	0.407ug/ml	87
17) Benzo(a)anthracene	15.50	228	272221	0.440ug/ml	98
18) Chrysene	15.55	228	266248	0.407ug/ml	97
20) Benzo(b)fluoranthene	17.22	252	269988	0.399ug/ml	100
21) Benzo(k)fluoranthene	17.27	252	272200	0.389ug/ml	99
22) Benzo(a)pyrene	17.88	252	257028	0.398ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.84	276	242175	0.428ug/ml	100
24) Dibenzo(a,h)anthracene	20.92	278	251300	0.402ug/ml	99
25) Benzo(g,h,i)perylene	21.71	276	254187	0.400ug/ml	70

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

:04313

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.: F9L98

Instrument ID: 5975-D Calibration Date: 06/12/2015 Time: 17:16

Lab File ID: DGA11SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4D1 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

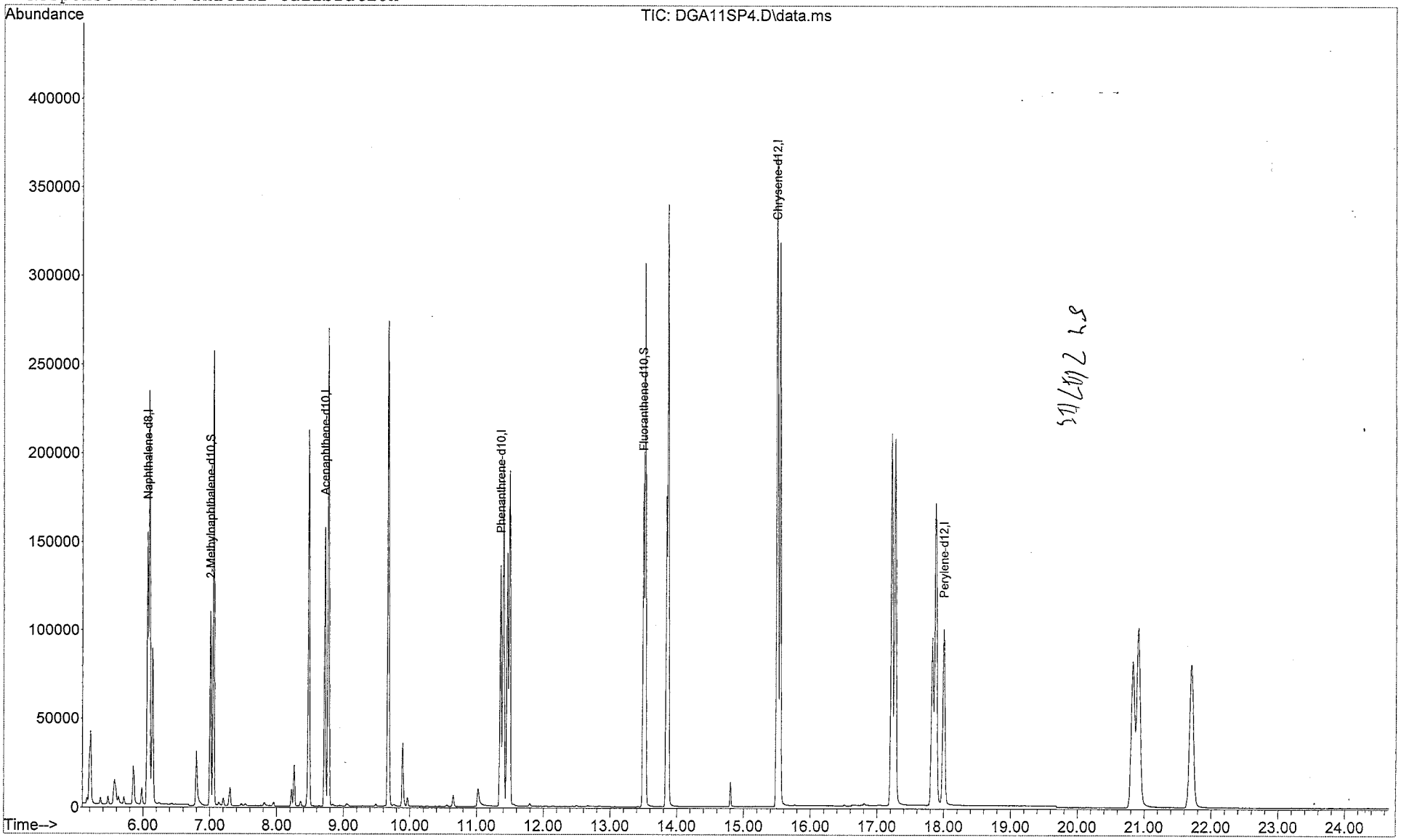
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.093	0.700	4.7	25.0
2-Methylnaphthalene	0.672	0.714	0.400	6.4	25.0
Acenaphthylene	1.750	1.849	0.900	5.6	25.0
Acenaphthene	1.120	1.183	0.900	5.6	25.0
Fluorene	1.299	1.332	0.900	2.6	25.0
Pentachlorophenol	0.060	0.051	0.050	-15.1	25.0
Phenanthrene	1.152	1.158	0.700	0.5	25.0
Anthracene	1.120	1.132	0.700	1.0	25.0
Fluoranthene	1.311	1.300	0.600	-0.8	25.0
Pyrene	1.255	1.313	0.600	4.6	25.0
Benzo(a)anthracene	1.067	1.175	0.800	10.2	25.0
Chrysene	1.127	1.139	0.700	1.1	25.0
Benzo(b)fluoranthene	1.247	1.229	0.700	-1.5	25.0
Benzo(k)fluoranthene	1.292	1.258	0.700	-2.6	25.0
Benzo(a)pyrene	1.191	1.184	0.700	-0.6	25.0
Indeno(1,2,3-cd)pyrene	1.043	1.130	0.500	8.4	25.0
Dibenzo(a,h)anthracene	1.153	1.171	0.400	1.5	25.0
Benzo(g,h,i)perylene	1.172	1.191	0.500	1.6	25.0
Fluoranthene-d10	1.094	1.115	0.010	1.9	25.0
2-Methylnaphthalene-d10	0.645	0.702	0.010	8.7	25.0

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\12JUN15\DGA11SP4.D Vial: 1
Acq On : 06/12/2015 17:16 Operator: DJC
Sample : SSTD0.4D1 28297 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 12 17:41:06 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\12JUN15\DGA11SP4.D Vial: 1
Acq On : 06/12/2015 17:16 Operator: DJC
Sample : SSTD0.4D1 28297 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 17:41:06 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	174784	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	108269	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	186175	0.40 ug/ml	
15) Chrysene-d12	15.51	240	195362	0.40 ug/ml	
19) Perylene-d12	18.00	264	179654	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	122620	0.435ug/mL	
13) Fluoranthene-d10	13.49	212	207617	0.408ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	190972	0.419ug/ml	94
4) 2-Methylnaphthalene	7.05	142	124846	0.425ug/ml	99
6) Acenaphthylene	8.48	152	200211	0.423ug/ml	97
7) Acenaphthene	8.77	153	128054	0.422ug/ml	98
8) Fluorene	9.67	166	144245	0.410ug/ml	100
10) Pentachlorophenol	11.02	266	9496	0.340ug/ml	100
11) Phenanthrene	11.40	178	215547	0.402ug/ml	98
12) Anthracene	11.50	178	210662	0.404ug/ml	97
14) Fluoranthene	13.52	202	242045	0.397ug/ml	89
16) Pyrene	13.87	202	256555	0.419ug/ml	89
17) Benzo(a)anthracene	15.50	228	229587	0.441ug/ml	98
18) Chrysene	15.55	228	222547	0.404ug/ml	96
20) Benzo(b)fluoranthene	17.22	252	220716	0.394ug/ml	100
21) Benzo(k)fluoranthene	17.27	252	225989	0.390ug/ml	99
22) Benzo(a)pyrene	17.88	252	212759	0.398ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.83	276	202967	0.433ug/ml	100
24) Dibenzo(a,h)anthracene	20.91	278	210355	0.406ug/ml	98
25) Benzo(g,h,i)perylene	21.70	276	213945	0.406ug/ml	71

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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.: F9L98

Instrument ID: 5975-D Calibration Date: 06/13/2015 Time: 00:43

Lab File ID: DGA26SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4D2 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

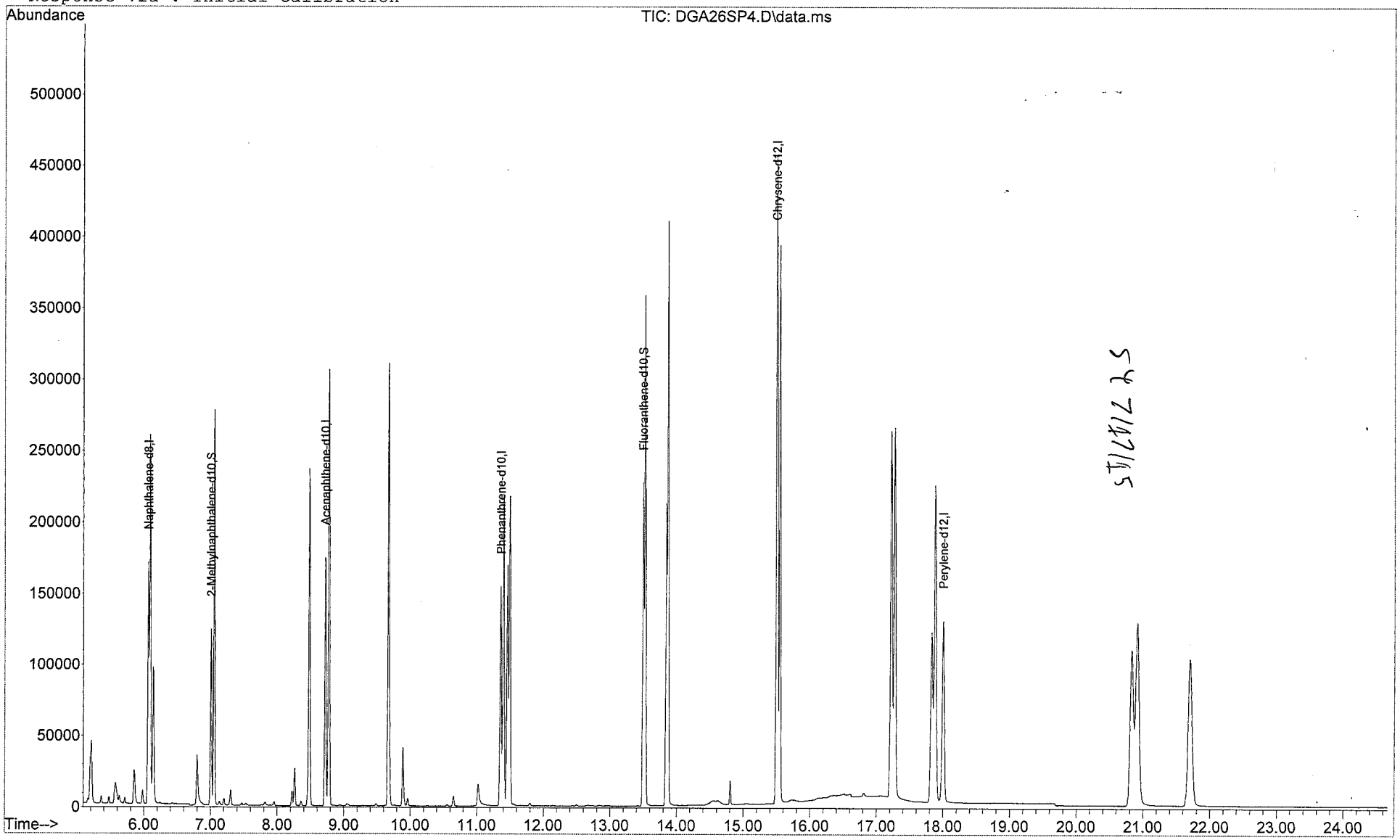
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.092	0.010	4.7	50.0
2-Methylnaphthalene	0.672	0.726	0.010	8.1	50.0
Acenaphthylene	1.750	1.856	0.010	6.0	50.0
Acenaphthene	1.120	1.173	0.010	4.7	50.0
Fluorene	1.299	1.342	0.010	3.3	50.0
Pentachlorophenol	0.060	0.070	0.010	16.4	50.0
Phenanthrene	1.152	1.146	0.010	-0.5	50.0
Anthracene	1.120	1.136	0.010	1.4	50.0
Fluoranthene	1.311	1.336	0.010	1.9	50.0
Pyrene	1.255	1.283	0.010	2.3	50.0
Benzo(a)anthracene	1.067	1.205	0.010	13.0	50.0
Chrysene	1.127	1.130	0.010	0.3	50.0
Benzo(b)fluoranthene	1.247	1.275	0.010	2.3	50.0
Benzo(k)fluoranthene	1.292	1.258	0.010	-2.6	50.0
Benzo(a)pyrene	1.191	1.185	0.010	-0.5	50.0
Indeno(1,2,3-cd)pyrene	1.043	1.161	0.010	11.4	50.0
Dibenzo(a,h)anthracene	1.153	1.189	0.010	3.1	50.0
Benzo(g,h,i)perylene	1.172	1.215	0.010	3.6	50.0
Fluoranthene-d10	1.094	1.155	0.010	5.6	50.0
2-Methylnaphthalene-d10	0.645	0.712	0.010	10.4	50.0

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\12JUN15\DGA26SP4.D Vial: 1
Acq On : 06/13/2015 00:43 Operator: DJC
Sample : SSTD0.4D2 28297 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 13 01:08:00 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\12JUN15\DGA26SP4.D Vial: 1
Acq On : 06/13/2015 00:43 Operator: DJC
Sample : SSTD0.4D2 28297 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 13 01:08:00 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	6.06	136	190761	0.40 ug/ml	
5) Acenaphthene-d10	8.72	164	121771	0.40 ug/ml	
9) Phenanthrene-d10	11.36	188	214508	0.40 ug/ml	
15) Chrysene-d12	15.51	240	235921	0.40 ug/ml	
19) Perylene-d12	18.00	264	226956	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	7.00	152	135913	0.442ug/mL	
13) Fluoranthene-d10	13.49	212	247843	0.422ug/mL	
Target Compounds					Qvalue
2) Naphthalene	6.09	128	208358	0.419ug/ml	94
4) 2-Methylnaphthalene	7.05	142	138535	0.433ug/ml	98
6) Acenaphthylene	8.48	152	225952	0.424ug/ml	97
7) Acenaphthene	8.77	153	142818	0.419ug/ml	99
8) Fluorene	9.67	166	163419	0.413ug/ml	100
10) Pentachlorophenol	11.02	266	14998	0.466ug/ml	100
11) Phenanthrene	11.40	178	245775	0.398ug/ml	98
12) Anthracene	11.50	178	243657	0.406ug/ml	97
14) Fluoranthene	13.52	202	286478	0.407ug/ml	88
16) Pyrene	13.87	202	302804	0.409ug/ml	88
17) Benzo(a)anthracene	15.50	228	284202	0.452ug/ml	98
18) Chrysene	15.55	228	266605	0.401ug/ml	96
20) Benzo(b)fluoranthene	17.22	252	289374	0.409ug/ml	100
21) Benzo(k)fluoranthene	17.27	252	285426	0.389ug/ml	97
22) Benzo(a)pyrene	17.88	252	268872	0.398ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.83	276	263522	0.445ug/ml	100
24) Dibenzo(a,h)anthracene	20.91	278	269959	0.412ug/ml	98
25) Benzo(g,h,i)perylene	21.70	276	275709	0.414ug/ml	70

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

:01319

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.: F9L98

Instrument ID: 5975-D Calibration Date: 07/14/2015 Time: 13:31

Lab File ID: DFL01SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DL Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

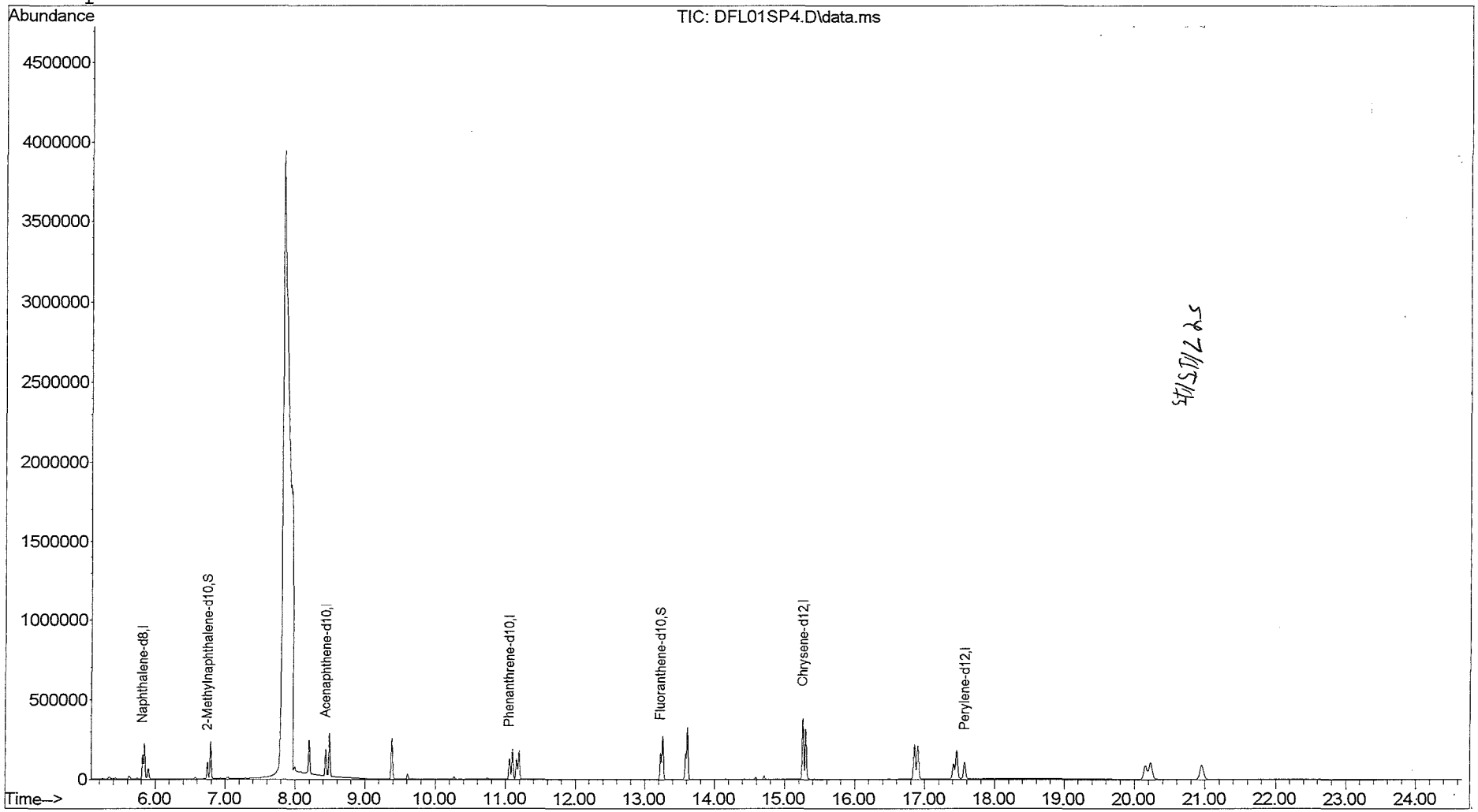
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.035	0.700	-0.7	25.0
2-Methylnaphthalene	0.672	0.675	0.400	0.4	25.0
Acenaphthylene	1.750	1.807	0.900	3.2	25.0
Acenaphthene	1.120	1.123	0.900	0.3	25.0
Fluorene	1.299	1.214	0.900	-6.5	25.0
Pentachlorophenol	0.060	0.054	0.050	-10.0	25.0
Phenanthrene	1.152	1.113	0.700	-3.4	25.0
Anthracene	1.120	1.073	0.700	-4.2	25.0
Fluoranthene	1.311	1.286	0.600	-1.9	25.0
Pyrene	1.255	1.288	0.600	2.7	25.0
Benzo(a)anthracene	1.067	1.168	0.800	9.5	25.0
Chrysene	1.127	1.106	0.700	-1.9	25.0
Benzo(b)fluoranthene	1.247	1.256	0.700	0.7	25.0
Benzo(k)fluoranthene	1.292	1.188	0.700	-8.1	25.0
Benzo(a)pyrene	1.191	1.151	0.700	-3.4	25.0
Indeno(1,2,3-cd)pyrene	1.043	1.164	0.500	11.7	25.0
Dibenzo(a,h)anthracene	1.153	1.145	0.400	-0.7	25.0
Benzo(g,h,i)perylene	1.172	1.186	0.500	1.2	25.0
Fluoranthene-d10	1.094	1.123	0.010	2.6	25.0
2-Methylnaphthalene-d10	0.645	0.668	0.010	3.6	25.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\14JUL15D\DFL01SP4.D Vial: 1
Acq On : 07/14/2015 13:31 Operator: DJC
Sample : SSTD0.4DL 28647 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 14 14:22:16 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 : Wed Jul 15 07:59:18 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\14JUL15D\DFL01SP4.D Vial: 1
Acq On : 07/14/2015 13:31 Operator: DJC
Sample : SSTD0.4DL 28647 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 14 14:22:16 2015 Results File: DSOM_SIMJ2.RES

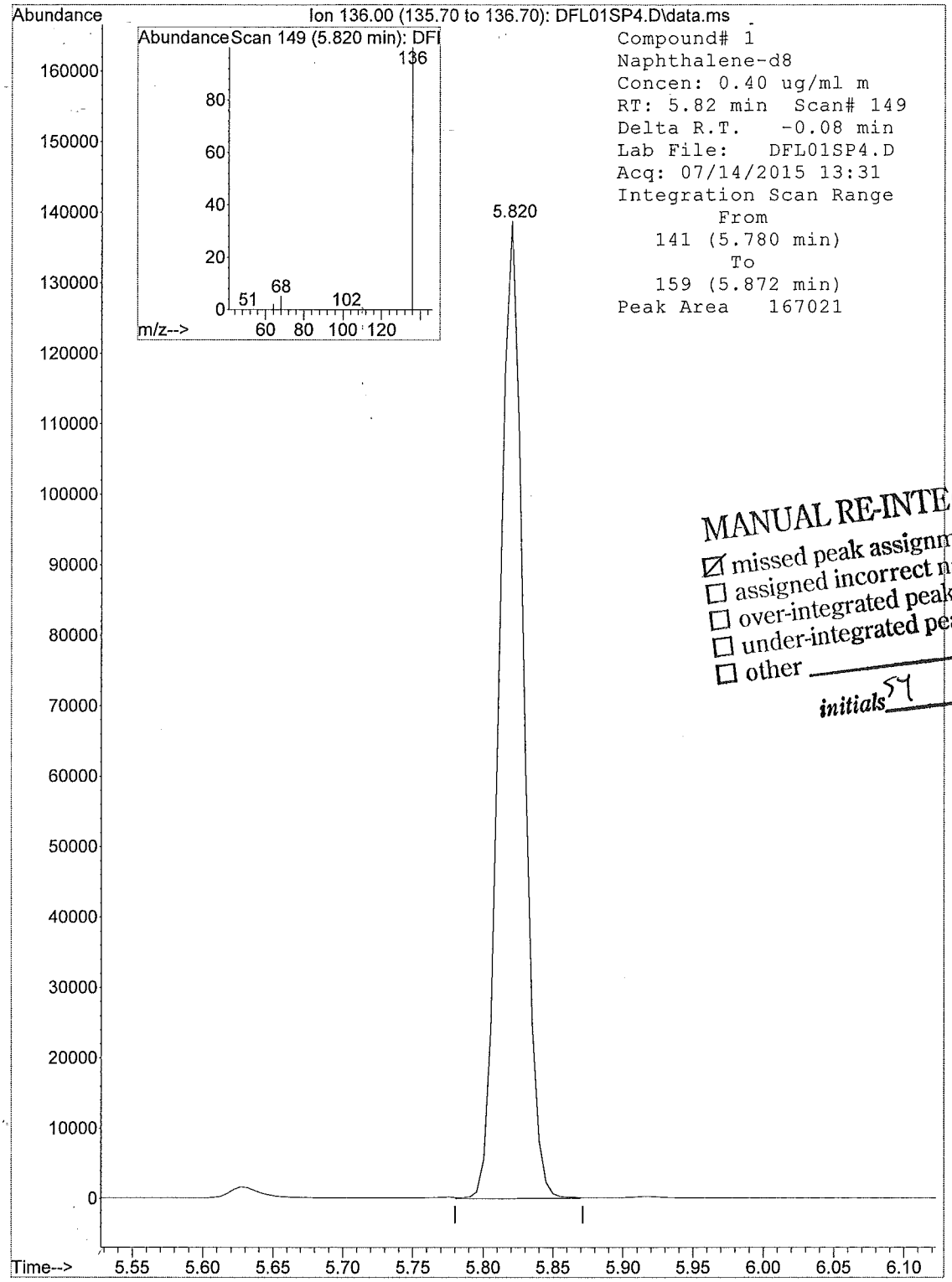
Method : C:\msdchem\1\methods\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 07:59:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.82	136	167021	0.40 ug/ml	m
5) Acenaphthene-d10	8.44	164	110021	0.40 ug/ml	SY 7/17/15
9) Phenanthrene-d10	11.06	188	177854	0.40 ug/ml	
15) Chrysene-d12	15.27	240	187760	0.40 ug/ml	m
19) Perylene-d12	17.57	264	175609	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	111639	0.414ug/mL	
13) Fluoranthene-d10	13.23	212	199685	0.411ug/mL	

Target Compounds						Qvalue
2) Naphthalene	5.85	128	172928	0.397ug/ml	m SY	1
4) 2-Methylnaphthalene	6.79	142	112673	0.402ug/ml	m 7/17/15	84
6) Acenaphthylene	8.20	152	198766	0.413ug/ml		97
7) Acenaphthene	8.49	153	123585	0.401ug/ml		99
8) Fluorene	9.38	166	133576	0.374ug/ml		100
10) Pentachlorophenol	10.73	266	9616	0.360ug/ml		100
11) Phenanthrene	11.10	178	197873	0.386ug/ml		98
12) Anthracene	11.19	178	190821	0.383ug/ml		98
14) Fluoranthene	13.26	202	228784	0.392ug/ml		90
16) Pyrene	13.61	202	241911	0.411ug/ml	m	65
17) Benzo(a)anthracene	15.25	228	219269	0.438ug/ml	m SY	1
18) Chrysene	15.30	228	207611	0.392ug/ml	m 7/17/15	98
20) Benzo(b)fluoranthene	16.85	252	220489	0.403ug/ml		100
21) Benzo(k)fluoranthene	16.90	252	208540	0.368ug/ml		100
22) Benzo(a)pyrene	17.45	252	202047	0.386ug/ml		99
23) Indeno(1,2,3-c,d)pyrene	20.15	276	204417	0.447ug/ml		100
24) Dibenzo(a,h)anthracene	20.23	278	201127	0.397ug/ml		98
25) Benzo(g,h,i)perylene	20.95	276	208355	0.405ug/ml		72

(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 Naphthalene-d8

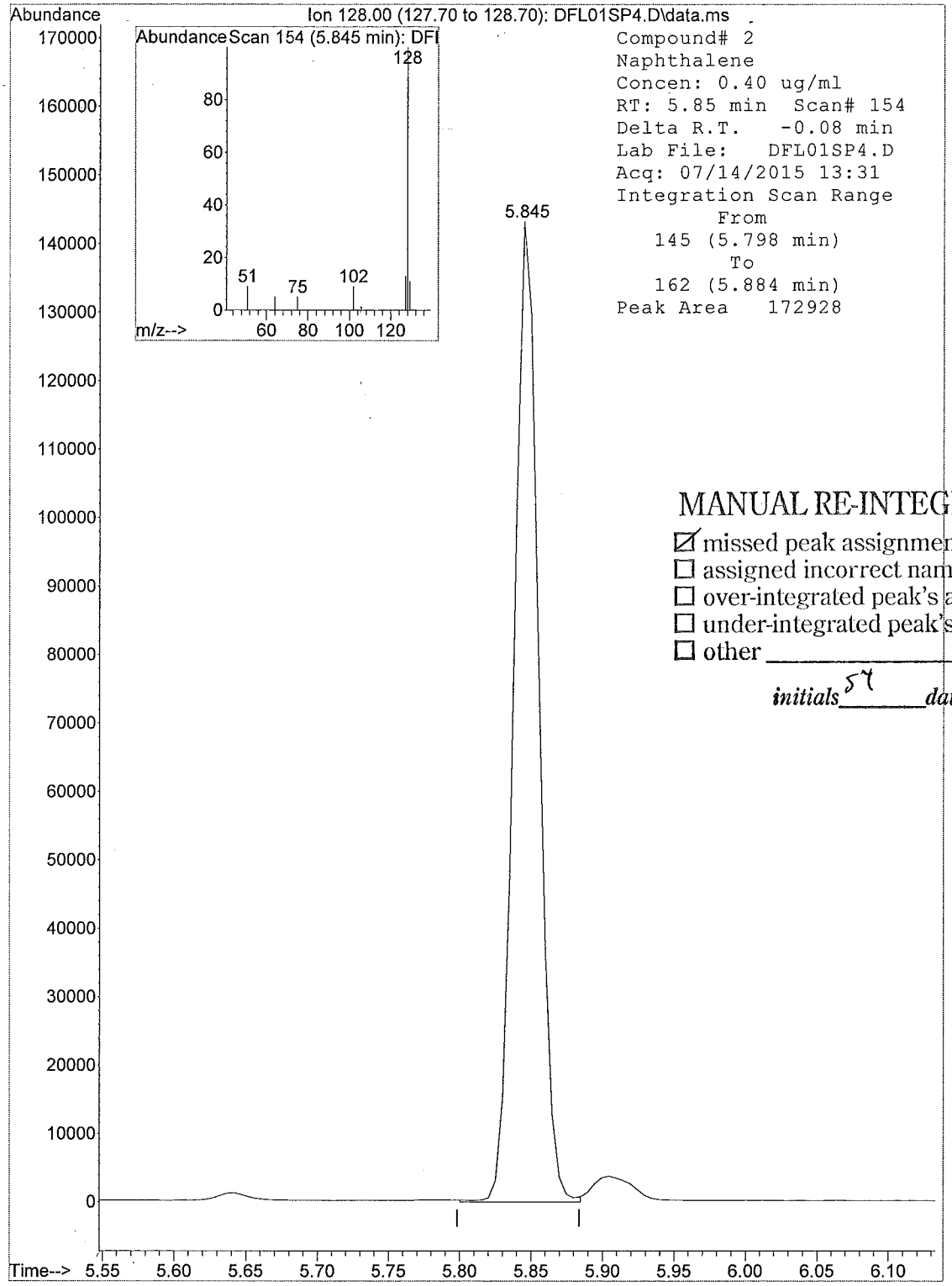


Compound# 1
Naphthalene-d8
Concen: 0.40 ug/ml m
RT: 5.82 min Scan# 149
Delta R.T. -0.08 min
Lab File: DFL01SP4.D
Acq: 07/14/2015 13:31
Integration Scan Range
From
141 (5.780 min)
To
159 (5.872 min)
Peak Area 167021

MANUAL RE-INTEGRATION
☒ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____
initials SY date 7/17/15

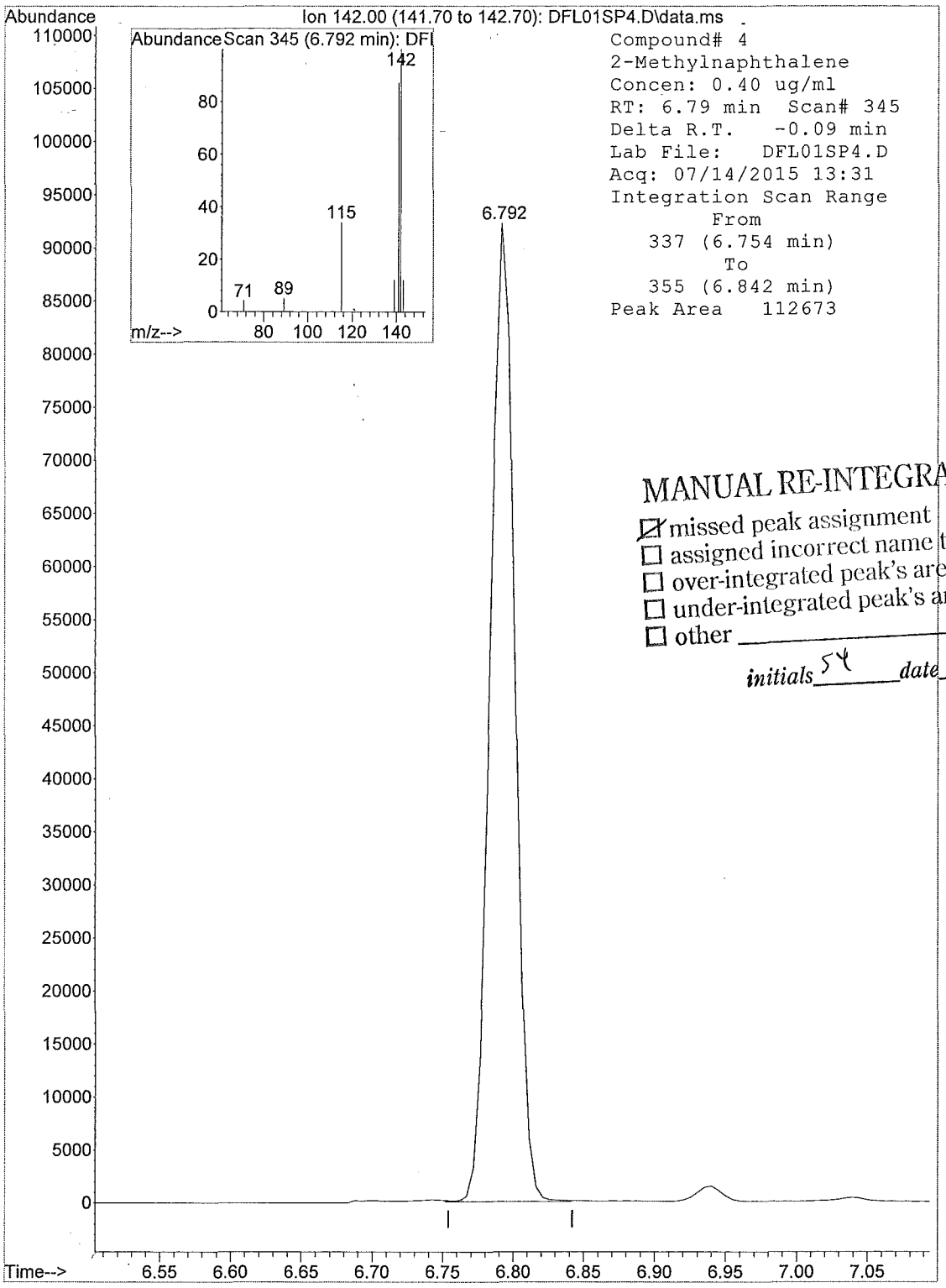
DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M SSTD0.4DL 28647 . X7-19-15

M A N U A L I N T E G R A T I O N FOR Naphthalene



DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M SSTD0.4DL 28647 . X7-19-15

M A N U A L I N T E G R A T I O N FOR 2-Methylnaphthalene

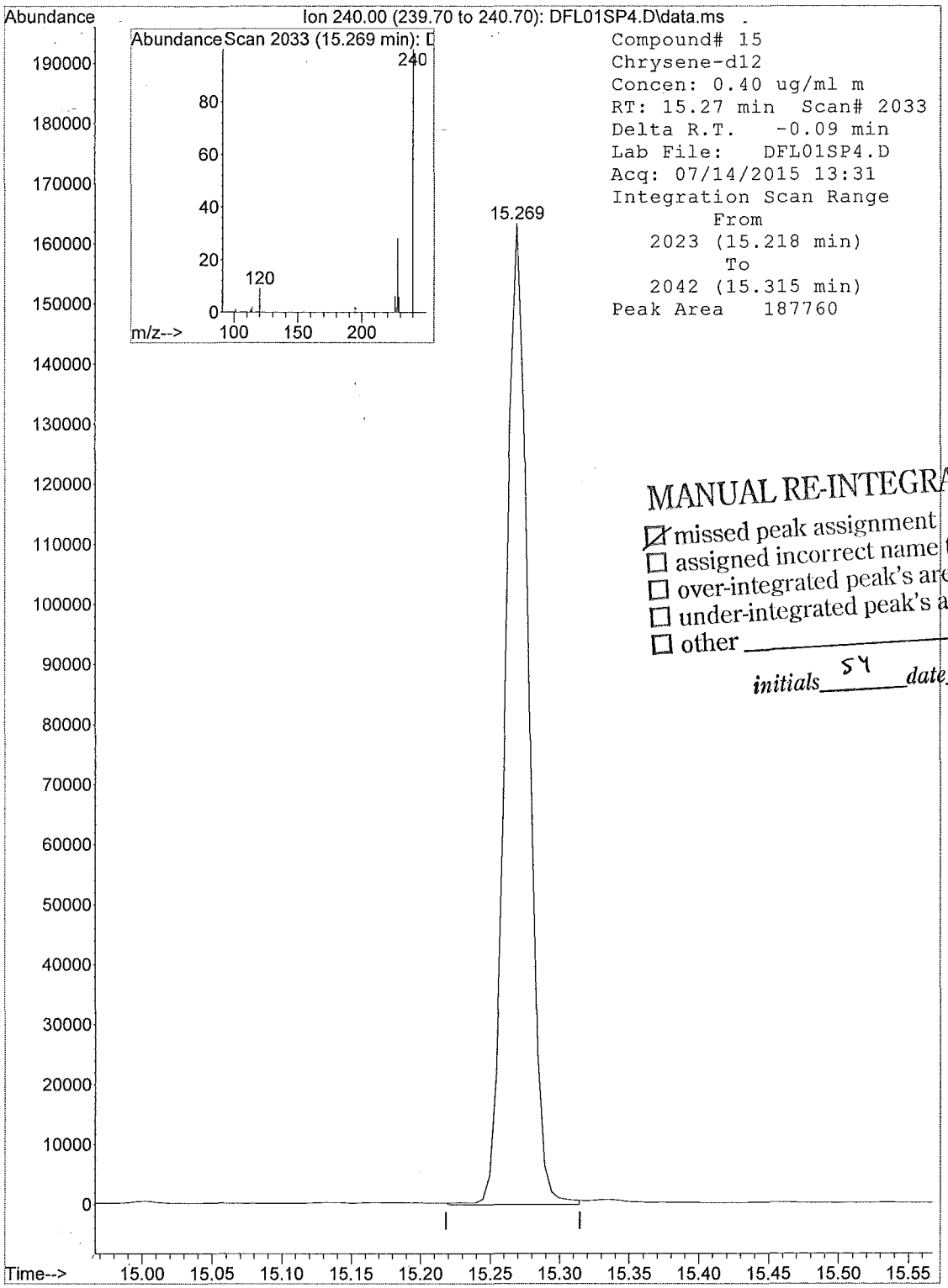


MANUAL RE-INTEGRATION

☒ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/17/15

M A N U A L I N T E G R A T I O N FOR Chrysene-d12



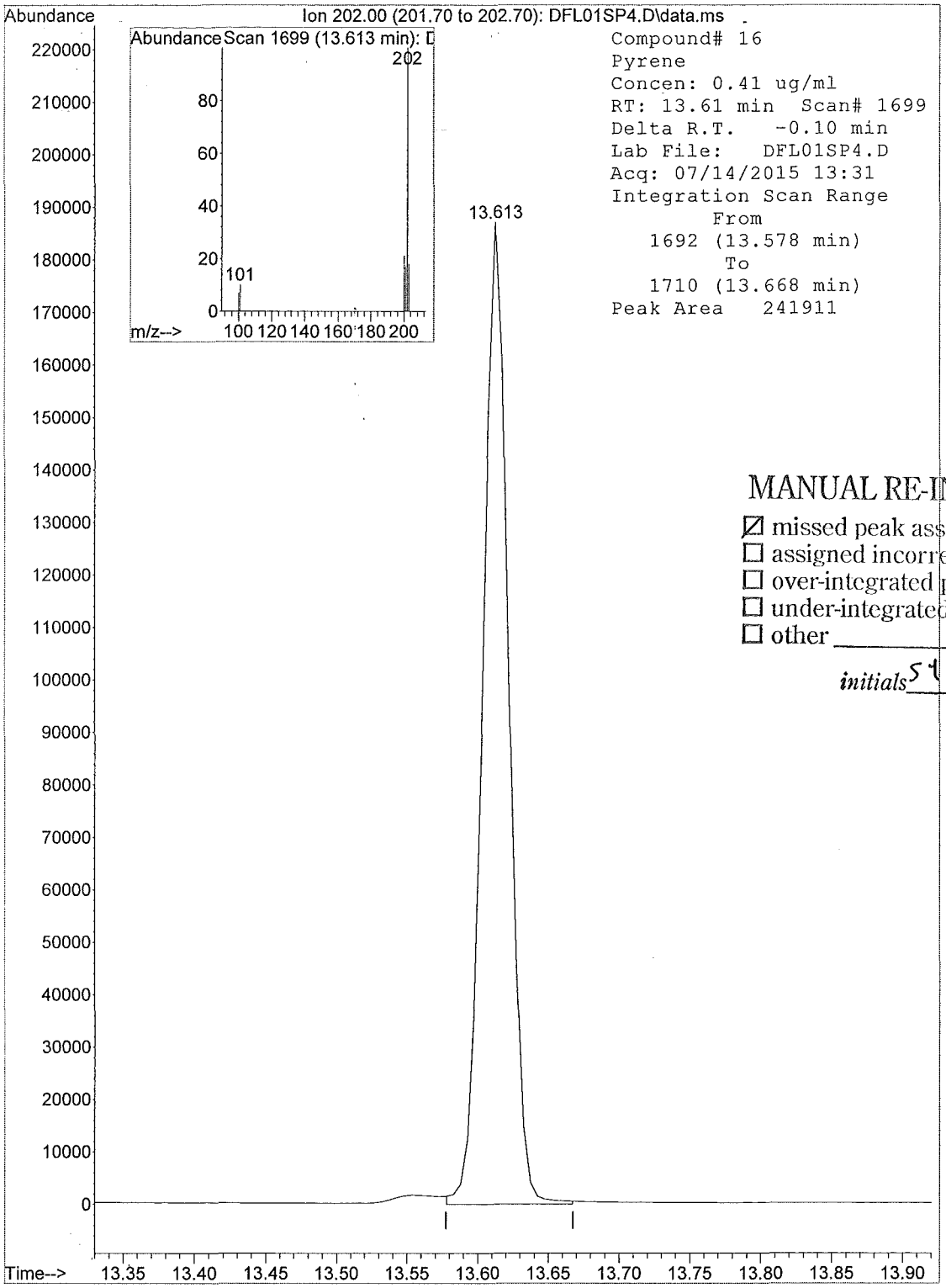
MANUAL RE-INTEGRATION

☒ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/17/15

DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M SSTD0.4DL 28647 . X7-19-15

M A N U A L I N T E G R A T I O N FOR Pyrene



Compound# 16
Pyrene
Concen: 0.41 ug/ml
RT: 13.61 min Scan# 1699
Delta R.T. -0.10 min
Lab File: DFL01SP4.D
Acq: 07/14/2015 13:31
Integration Scan Range
From
1692 (13.578 min)
To
1710 (13.668 min)
Peak Area 241911

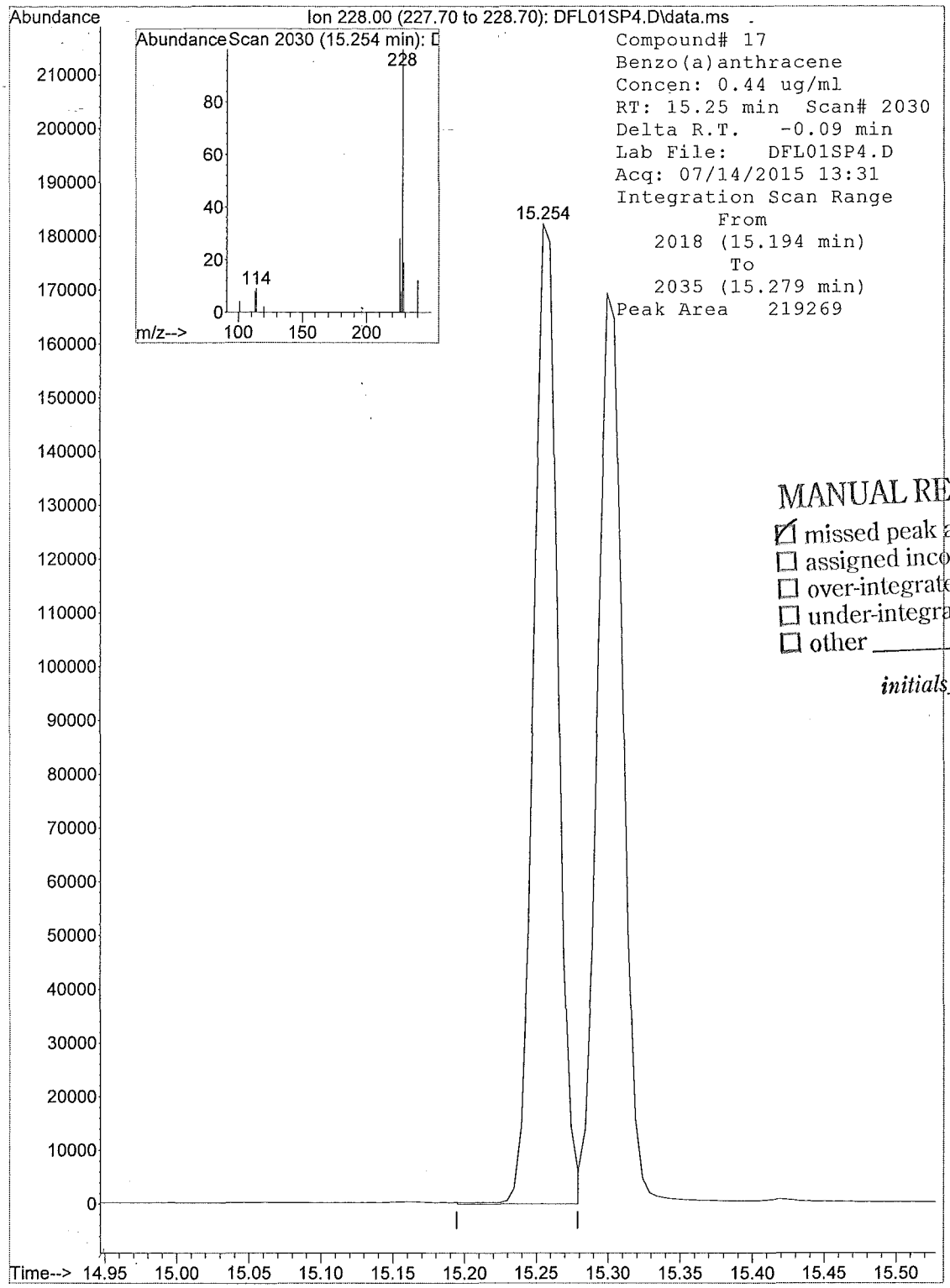
MANUAL RE-INTEGRATION

☒ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/17/15

DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M SSTD0.4DL 28647 . X7-19-15

M A N U A L I N T E G R A T I O N FOR Benzo(a)anthracene



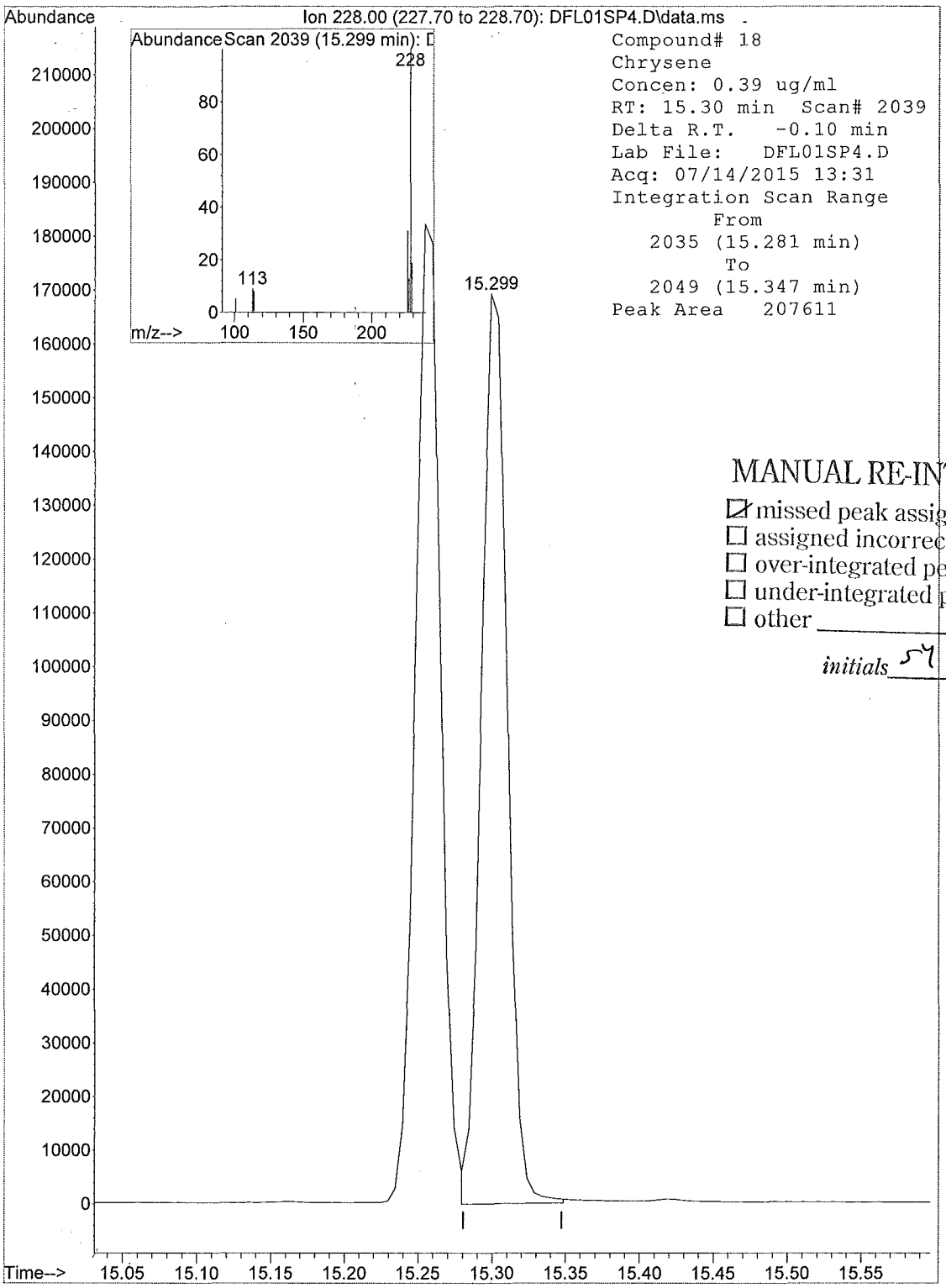
MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/14/15

DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M SSTD0.4DL 28647 . X7-19-15

M A N U A L I N T E G R A T I O N FOR Chrysene



MANUAL RE-INTEGRATION

☑ missed peak assignment
☐ assigned incorrect name to peak
☐ over-integrated peak's area
☐ under-integrated peak's area
☐ other _____

initials SY *date* 7/14/15

DSOM_SIMJ2.M 5975-D DSOM_SIMJ2.M SSTD0.4DL 28647 . X7-19-15

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.: F9L98

Instrument ID: 5975-D Calibration Date: 07/15/2015 Time: 00:44

Lab File ID: DFL22SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4L1 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

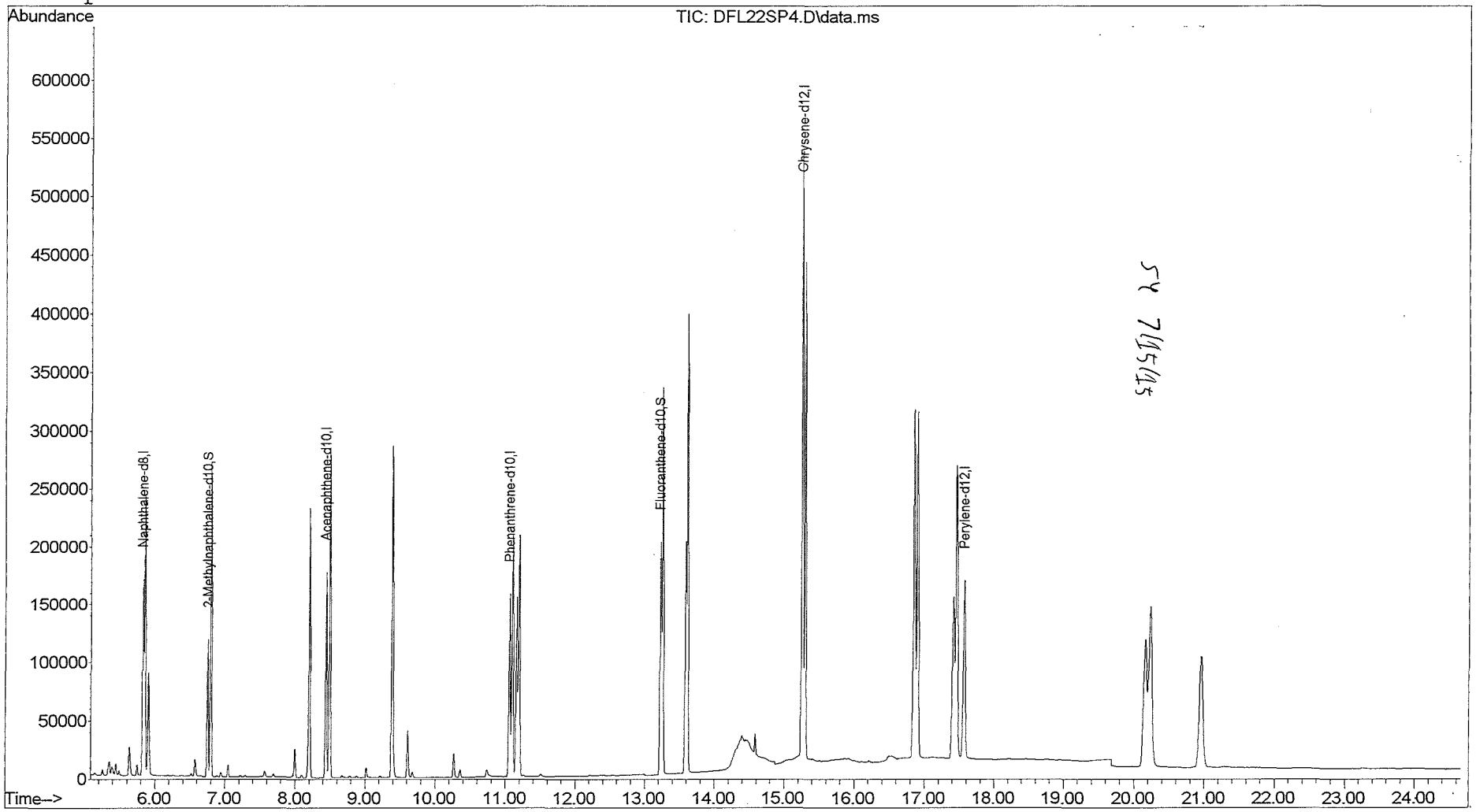
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.025	0.010	-1.7	50.0
2-Methylnaphthalene	0.672	0.691	0.010	2.9	50.0
Acenaphthylene	1.750	1.808	0.010	3.3	50.0
Acenaphthene	1.120	1.141	0.010	1.9	50.0
Fluorene	1.299	1.307	0.010	0.6	50.0
Pentachlorophenol	0.060	0.030	0.010	-49.8	50.0
Phenanthrene	1.152	1.114	0.010	-3.3	50.0
Anthracene	1.120	1.100	0.010	-1.8	50.0
Fluoranthene	1.311	1.303	0.010	-0.6	50.0
Pyrene	1.255	1.176	0.010	-6.3	50.0
Benzo(a)anthracene	1.067	1.209	0.010	13.4	50.0
Chrysene	1.127	1.097	0.010	-2.7	50.0
Benzo(b)fluoranthene	1.247	1.206	0.010	-3.3	50.0
Benzo(k)fluoranthene	1.292	1.192	0.010	-7.7	50.0
Benzo(a)pyrene	1.191	1.159	0.010	-2.7	50.0
Indeno(1,2,3-cd)pyrene	1.043	0.999	0.010	-4.1	50.0
Dibenzo(a,h)anthracene	1.153	1.038	0.010	-10.0	50.0
Benzo(g,h,i)perylene	1.172	0.916	0.010	-21.9	50.0
Fluoranthene-d10	1.094	1.152	0.010	5.3	50.0
2-Methylnaphthalene-d10	0.645	0.686	0.010	6.3	50.0

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\14JUL15D\DFL22SP4.D Vial: 1
Acq On : 07/15/2015 00:44 Operator: DJC
Sample : SSTD0.4L1 28647 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 15 01:08:46 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 : Wed Jul 15 07:59:05 2015
Response via : Initial Calibration



SY 7/15/15

Quantitation Report

Data File : C:\msdchem\1\DATA\20...5\14JUL15D\DFL22SP4.D Vial: 1
Acq On : 07/15/2015 00:44 Operator: DJC
Sample : SSTD0.4L1 28647 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1
MS Integration Params: rteint.p
Quant Time: Jul 15 01:08:46 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 : Wed Jul 15 07:59:05 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	186567	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	116638	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	205843	0.40 ug/ml	
15) Chrysene-d12	15.27	240	244131	0.40 ug/ml	
19) Perylene-d12	17.57	264	250525	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	128020	0.425ug/mL	
13) Fluoranthene-d10	13.23	212	237145	0.421ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.86	128	191232	0.393ug/ml	94
4) 2-Methylnaphthalene	6.80	142	128876	0.411ug/ml	98
6) Acenaphthylene	8.20	152	210925	0.413ug/ml	97
7) Acenaphthene	8.50	153	133122	0.408ug/ml	98
8) Fluorene	9.39	166	152473	0.403ug/ml	100
10) Pentachlorophenol	10.74	266	6211	0.201ug/ml	100
11) Phenanthrene	11.10	178	229334	0.387ug/ml	98
12) Anthracene	11.20	178	226458	0.393ug/ml	97
14) Fluoranthene	13.26	202	268278	0.398ug/ml	89
16) Pyrene	13.61	202	287059	0.375ug/ml	89
17) Benzo(a)anthracene	15.25	228	295238	0.454ug/ml	98
18) Chrysene	15.30	228	267818	0.389ug/ml	97
20) Benzo(b)fluoranthene	16.85	252	302057	0.387ug/ml	100
21) Benzo(k)fluoranthene	16.90	252	298728	0.369ug/ml	100
22) Benzo(a)pyrene	17.45	252	290279	0.389ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.16	276	250376	0.383ug/ml	100
24) Dibenzo(a,h)anthracene	20.23	278	259980	0.360ug/ml	98
25) Benzo(g,h,i)perylene	20.96	276	229529	0.313ug/ml	71

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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.: F9L98

Instrument ID: 5975-D Calibration Date: 07/15/2015 Time: 11:02

Lab File ID: DFM01SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4DM Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

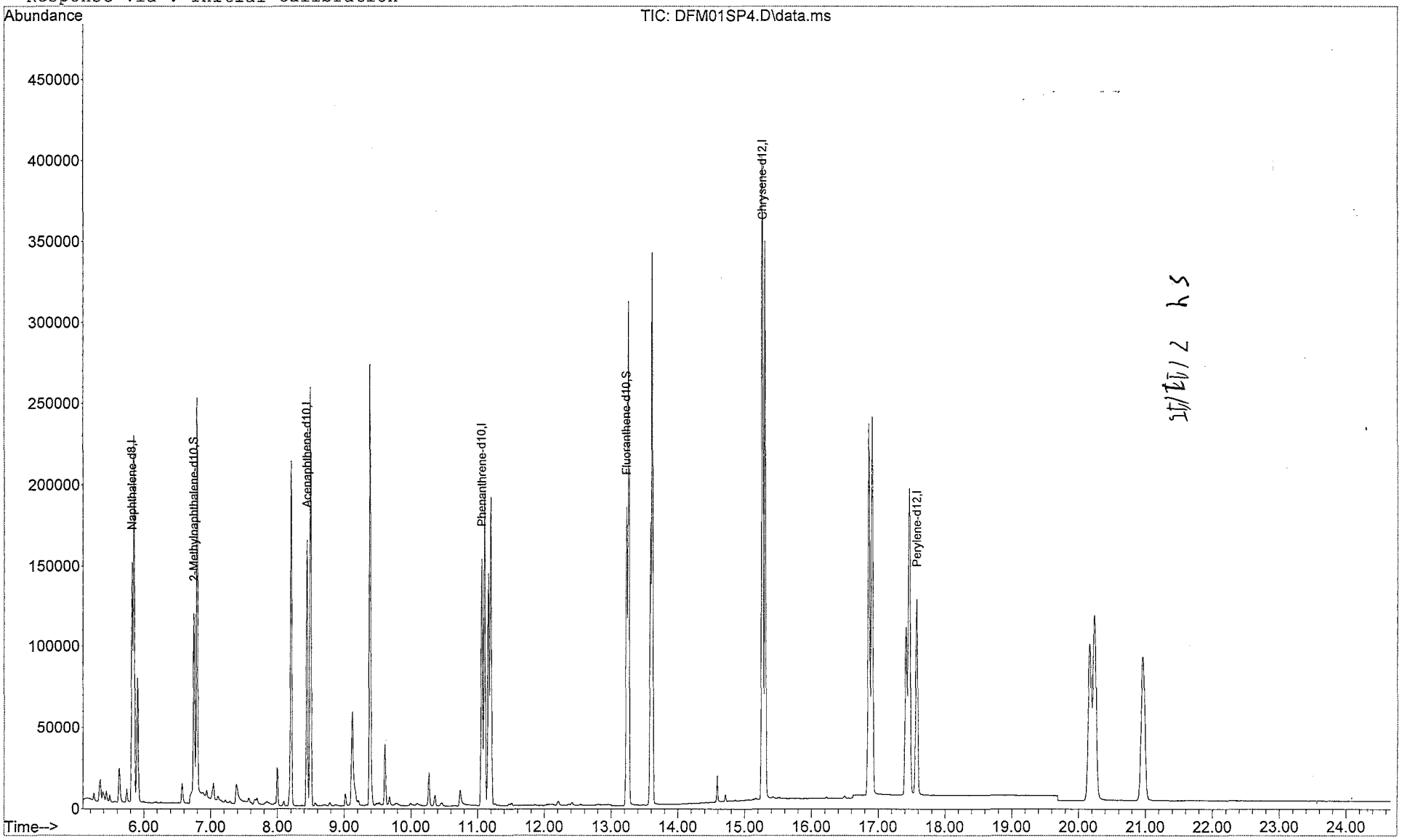
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.020	0.700	-2.3	25.0
2-Methylnaphthalene	0.672	0.683	0.400	1.7	25.0
Acenaphthylene	1.750	1.769	0.900	1.1	25.0
Acenaphthene	1.120	1.121	0.900	0.1	25.0
Fluorene	1.299	1.313	0.900	1.1	25.0
Pentachlorophenol	0.060	0.048	0.050	-19.6	25.0
Phenanthrene	1.152	1.087	0.700	-5.6	25.0
Anthracene	1.120	1.062	0.700	-5.2	25.0
Fluoranthene	1.311	1.239	0.600	-5.5	25.0
Pyrene	1.255	1.251	0.600	-0.3	25.0
Benzo(a)anthracene	1.067	1.138	0.800	6.7	25.0
Chrysene	1.127	1.068	0.700	-5.3	25.0
Benzo(b)fluoranthene	1.247	1.152	0.700	-7.6	25.0
Benzo(k)fluoranthene	1.292	1.166	0.700	-9.7	25.0
Benzo(a)pyrene	1.191	1.108	0.700	-7.0	25.0
Indeno(1,2,3-cd)pyrene	1.043	1.101	0.500	5.6	25.0
Dibenzo(a,h)anthracene	1.153	1.098	0.400	-4.8	25.0
Benzo(g,h,i)perylene	1.172	1.121	0.500	-4.4	25.0
Fluoranthene-d10	1.094	1.079	0.010	-1.3	25.0
2-Methylnaphthalene-d10	0.645	0.774	0.010	20.0	25.0

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\15JUL15D\DFM01SP4.D Vial: 1
Acq On : 07/15/2015 11:02 Operator: DJC
Sample : SSTD0.4DM 28658 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 15 11:26:56 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\15JUL15D\DFM01SP4.D Vial: 1
Acq On : 07/15/2015 11:02 Operator: DJC
Sample : SSTD0.4DM 28658 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 15 11:26:56 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.82	136	173602	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	109872	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	196845	0.40 ug/ml	
15) Chrysene-d12	15.27	240	207163	0.40 ug/ml	
19) Perylene-d12	17.57	264	199131	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	134440	0.480ug/mL	
13) Fluoranthene-d10	13.23	212	212447	0.395ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.85	128	176999	0.391ug/ml	96
4) 2-Methylnaphthalene	6.80	142	118580	0.407ug/ml	99
6) Acenaphthylene	8.20	152	194352	0.404ug/ml	97
7) Acenaphthene	8.50	153	123191	0.400ug/ml	99
8) Fluorene	9.39	166	144304	0.404ug/ml	100
10) Pentachlorophenol	10.74	266	9500	0.321ug/ml	100
11) Phenanthrene	11.11	178	214057	0.378ug/ml	98
12) Anthracene	11.20	178	209076	0.379ug/ml	97
14) Fluoranthene	13.26	202	243814	0.378ug/ml	89
16) Pyrene	13.62	202	259254	0.399ug/ml	89
17) Benzo(a)anthracene	15.26	228	235843	0.427ug/ml	98
18) Chrysene	15.30	228	221228	0.379ug/ml	96
20) Benzo(b)fluoranthene	16.86	252	229365	0.370ug/ml	98
21) Benzo(k)fluoranthene	16.90	252	232276	0.361ug/ml	98
22) Benzo(a)pyrene	17.46	252	220642	0.372ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.16	276	219273	0.422ug/ml	100
24) Dibenzo(a,h)anthracene	20.24	278	218721	0.381ug/ml	98
25) Benzo(g,h,i)perylene	20.96	276	223190	0.382ug/ml	72

(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

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.: F9L98

Instrument ID: 5975-D Calibration Date: 07/15/2015 Time: 13:06

Lab File ID: DFM05SP4 Init. Calib. Date(s): 03/25/2015 03/25/2015

EPA Sample No.(SSTD0.4##): SSTD0.4M1 Init. Calib. Time(s): 09:26 11:25

GC Column: DB5MS ID: 0.32 (mm)

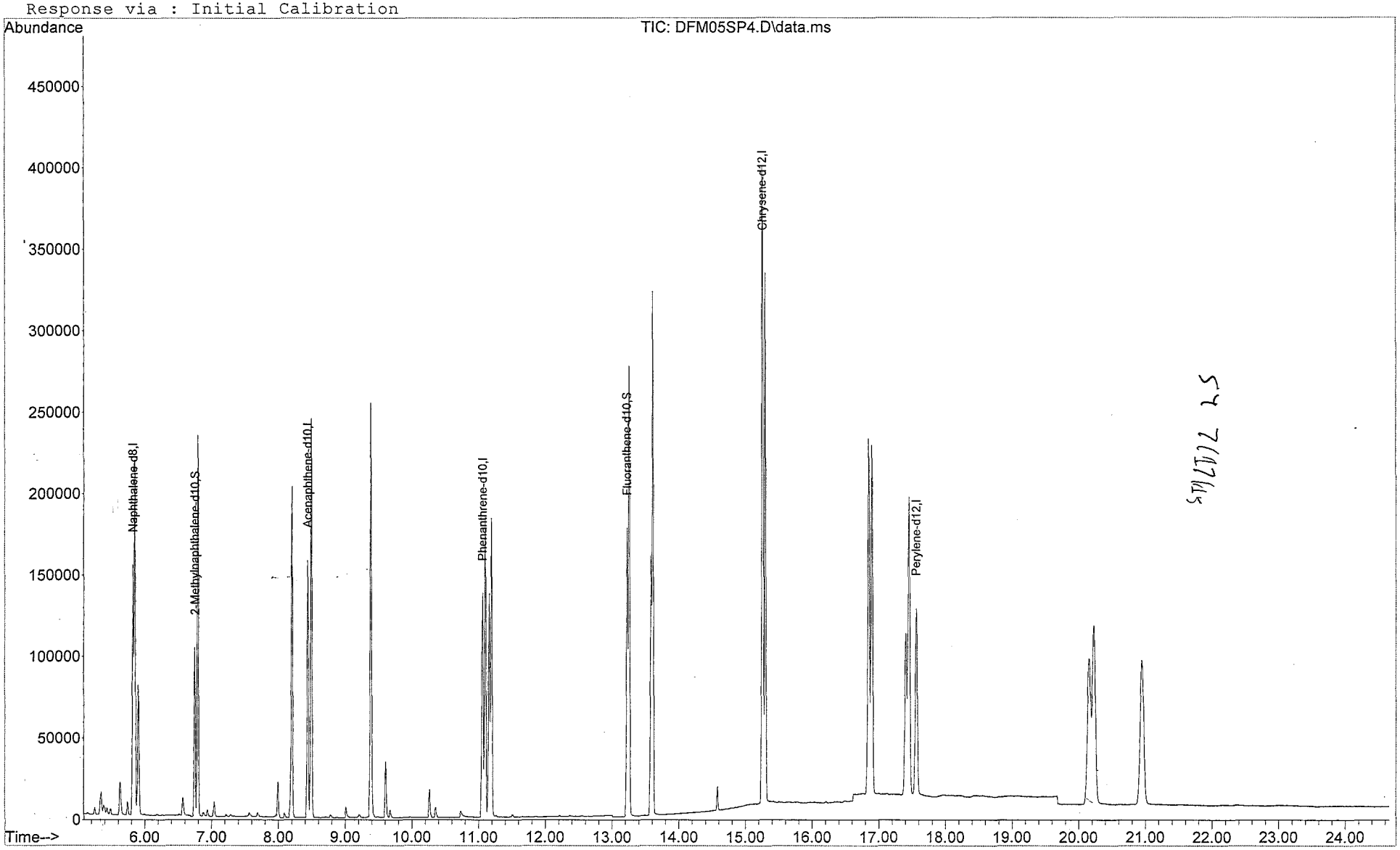
COMPOUND	$\overline{RRF}$	RRF 0.4	MIN RRF	%D	MAX %D
Naphthalene	1.043	1.013	0.010	-2.9	50.0
2-Methylnaphthalene	0.672	0.671	0.010	-0.2	50.0
Acenaphthylene	1.750	1.759	0.010	0.5	50.0
Acenaphthene	1.120	1.117	0.010	-0.3	50.0
Fluorene	1.299	1.265	0.010	-2.6	50.0
Pentachlorophenol	0.060	0.023	0.010	-62.4	50.0
Phenanthrene	1.152	1.071	0.010	-7.0	50.0
Anthracene	1.120	1.057	0.010	-5.6	50.0
Fluoranthene	1.311	1.233	0.010	-6.0	50.0
Pyrene	1.255	1.227	0.010	-2.2	50.0
Benzo(a)anthracene	1.067	1.150	0.010	7.8	50.0
Chrysene	1.127	1.065	0.010	-5.5	50.0
Benzo(b)fluoranthene	1.247	1.166	0.010	-6.5	50.0
Benzo(k)fluoranthene	1.292	1.124	0.010	-13.0	50.0
Benzo(a)pyrene	1.191	1.099	0.010	-7.7	50.0
Indeno(1,2,3-cd)pyrene	1.043	1.108	0.010	6.2	50.0
Dibenzo(a,h)anthracene	1.153	1.097	0.010	-4.9	50.0
Benzo(g,h,i)perylene	1.172	1.129	0.010	-3.7	50.0
Fluoranthene-d10	1.094	1.082	0.010	-1.1	50.0
2-Methylnaphthalene-d10	0.645	0.669	0.010	3.7	50.0

Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\15JUL15D\DFM05SP4.D Vial: 1
Acq On : 07/15/2015 13:06 Operator: DJC
Sample : SSTD0.4M1 28658 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jul 15 13:31:39 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : R:\DJC\Data\2015\F9L...M\15JUL15D\DFM05SP4.D Vial: 1
Acq On : 07/15/2015 13:06 Operator: DJC
Sample : SSTD0.4M1 28658 Inst : 5975-D
Misc : . X7-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jul 15 13:31:39 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	
1) Naphthalene-d8	5.83	136	170117	0.40 ug/ml	
5) Acenaphthene-d10	8.44	164	105449	0.40 ug/ml	
9) Phenanthrene-d10	11.06	188	183604	0.40 ug/ml	
15) Chrysene-d12	15.26	240	195420	0.40 ug/ml	
19) Perylene-d12	17.56	264	190051	0.40 ug/ml	
System Monitoring Compounds					
3) 2-Methylnaphthalene-d10	6.75	152	113807	0.415ug/mL	
13) Fluoranthene-d10	13.23	212	198577	0.395ug/mL	
Target Compounds					Qvalue
2) Naphthalene	5.85	128	172383	0.389ug/ml	94
4) 2-Methylnaphthalene	6.80	142	114079	0.399ug/ml	99
6) Acenaphthylene	8.20	152	185480	0.402ug/ml	97
7) Acenaphthene	8.50	153	117744	0.399ug/ml	98
8) Fluorene	9.38	166	133375	0.389ug/ml	100
10) Pentachlorophenol	10.74	266	4144	0.150ug/ml	100
11) Phenanthrene	11.10	178	196648	0.372ug/ml	98
12) Anthracene	11.19	178	194149	0.378ug/ml	97
14) Fluoranthene	13.26	202	226376	0.376ug/ml	89
16) Pyrene	13.61	202	239872	0.391ug/ml	89
17) Benzo(a)anthracene	15.25	228	224774	0.431ug/ml	98
18) Chrysene	15.30	228	208052	0.378ug/ml	97
20) Benzo(b)fluoranthene	16.85	252	221635	0.374ug/ml	100
21) Benzo(k)fluoranthene	16.90	252	213621	0.348ug/ml	100
22) Benzo(a)pyrene	17.45	252	208875	0.369ug/ml	99
23) Indeno(1,2,3-c,d)pyrene	20.15	276	210521	0.425ug/ml	100
24) Dibenzo(a,h)anthracene	20.23	278	208525	0.380ug/ml	99
25) Benzo(g,h,i)perylene	20.95	276	214616	0.385ug/ml	71

(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.

SBLK65

Lab Name: ALS Environmental Contract: EPW11037

Lab Code: DATAC Case No.: 45316 Mod. Ref No.: SDG No.: F9L98

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 449965

Sample wt/vol: 30.0 (g/mL) g Lab File ID: DGA03BLK

Extraction: (Type) SONC

% Moisture: Decanted: (Y/N) Date Received:

Concentrated Extract Volume: 500. (uL) Date Extracted: 06/04/2015

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2015

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

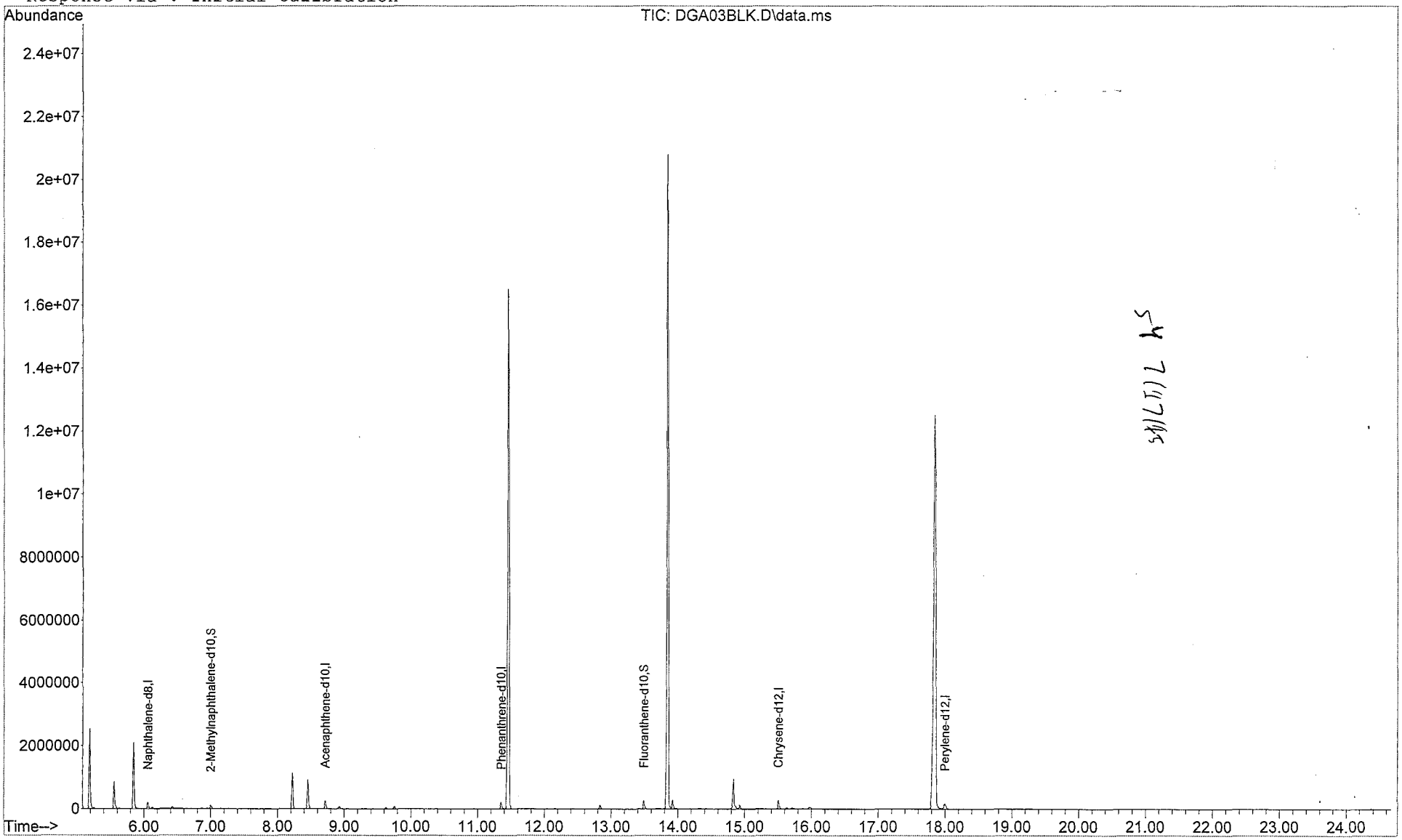
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
91-20-3	Naphthalene	3.3	U
91-57-6	2-Methylnaphthalene	3.3	U
208-96-8	Acenaphthylene	3.3	U
83-32-9	Acenaphthene	3.3	U
86-73-7	Fluorene	3.3	U
87-86-5	Pentachlorophenol	6.7	U
85-01-8	Phenanthrene	3.3	U
120-12-7	Anthracene	3.3	U
206-44-0	Fluoranthene	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 : C:\msdchem\1\data\F9...IM\12JUN15\DGA03BLK.D Vial: 2
Acq On : 06/12/2015 13:17 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 16 07:35:46 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\12JUN15\DGA03BLK.D Vial: 2
Acq On : 06/12/2015 13:17 Operator: DJC
Sample : 449965 SBLK65 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 16 07:35:46 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	235447	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	170704	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	297901	0.40 ug/ml
15) Chrysene-d12	15.51	240	292683	0.40 ug/ml
19) Perylene-d12	18.00	264	302624	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	7.00	152	118446	0.312ug/mL
13) Fluoranthene-d10	13.49	212	288629	0.354ug/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

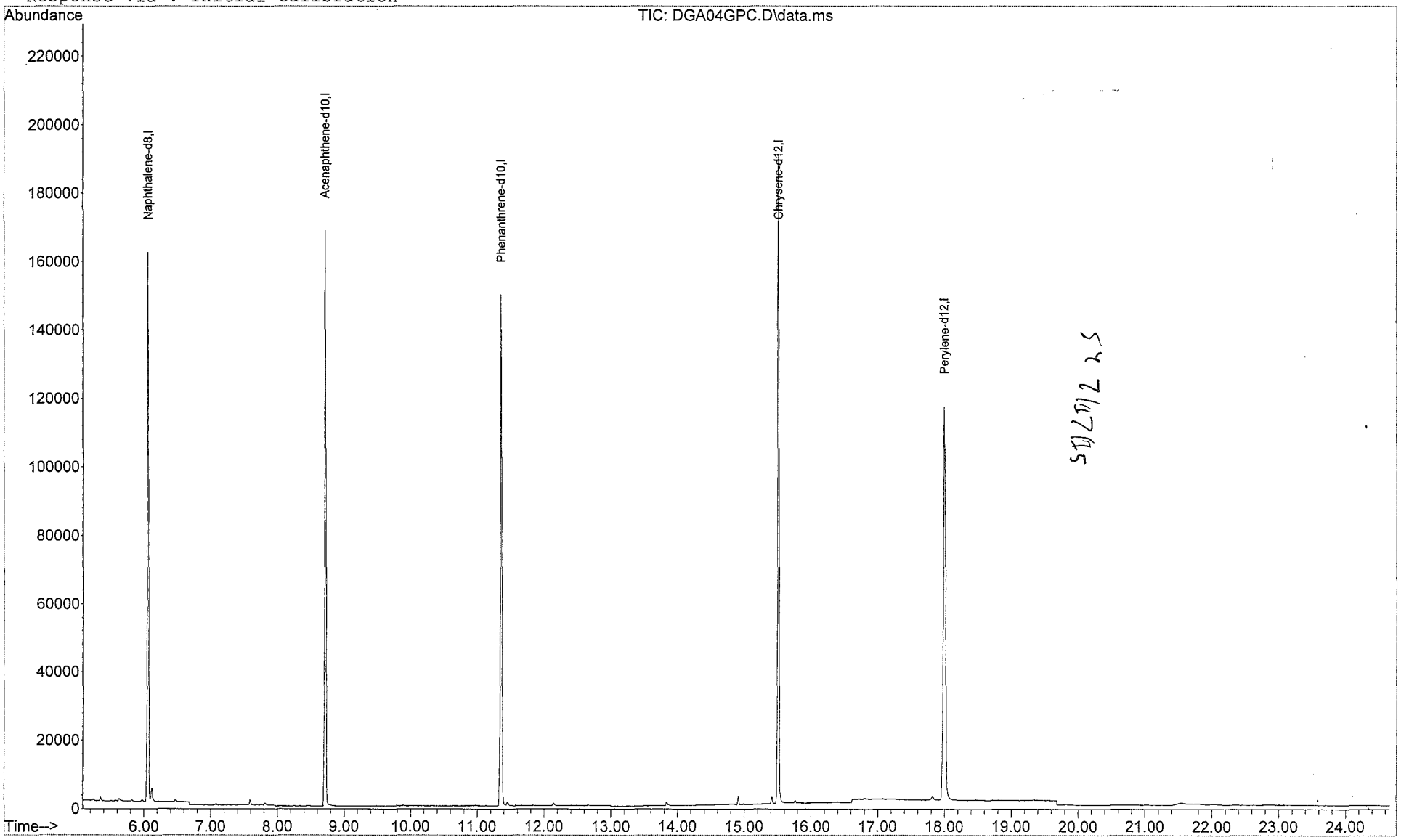
(m) = manual integration
(*) Does not meet EPA spectral criteria (False Hit)

Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\12JUN15\DGA04GPC.D Vial: 3
Acq On : 06/12/2015 13:47 Operator: DJC
Sample : 450197 GBLK97 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p

Quant Time: Jun 12 14:12:14 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration



Quantitation Report

Data File : C:\msdchem\1\data\F9...IM\12JUN15\DGA04GPC.D Vial: 3
Acq On : 06/12/2015 13:47 Operator: DJC
Sample : 450197 GBLK97 Inst : 5975-D
Misc : . X6-19-15 Injection volume : 1uL
MS Integration Params: rteint.p
Quant Time: Jun 12 14:12:14 2015 Results File: DSOM_SIMJ2.RES

Method : R:\D\METHODS\DSOM_SIMJ2.M (RTE Integrator)
Title : EPA/CLP SOM01 PNA & PCP by SIM
Last Update : Wed Jul 15 14:52:03 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units
1) Naphthalene-d8	6.06	136	182647	0.40 ug/ml
5) Acenaphthene-d10	8.72	164	115608	0.40 ug/ml
9) Phenanthrene-d10	11.36	188	210404	0.40 ug/ml
15) Chrysene-d12	15.51	240	226244	0.40 ug/ml
19) Perylene-d12	18.00	264	212391	0.40 ug/ml
System Monitoring Compounds				
3) 2-Methylnaphthalene-d10	0.00	152	0	0.000ug/mL
13) Fluoranthene-d10	13.66	212	121	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)

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
GBG01S20	06/09/2015 09:41	DJC	GSOM01D4	1	25.96	1	SSTD020GG 28237 DFTPPGG	X06/19/15
GBG02BLK	06/09/2015 10:25	DJC	GSOM01D4	2	25.96	1	449965 SBLK65	SOIL SOM
GBG03GPC	06/09/2015 10:58	DJC	GSOM01D4	3	25.96	1	450197 GBLK97	SOIL SOM
GBG04F01	06/09/2015 11:35	DJC	GSOM01D4	4	25.96	1	1515375001 F9L98 (30)	SOIL SOM
GBG05F04	06/09/2015 12:07	DJC	GSOM01D4	5	25.96	1	1515375004 F9L99 (30)	SOIL SOM
GBG06F05	06/09/2015 12:40	DJC	GSOM01D4	6	25.96	1	1515375005 F9M00 (30)	SOIL SOM
GBG07F06	06/09/2015 13:13	DJC	GSOM01D4	7	25.96	1	1515375006 F9M01 (30)	SOIL SOM
GBG08F07	06/09/2015 13:47	DJC	GSOM01D4	8	25.96	1	1515375007 F9M02 (30)	SOIL SOM
GBG09F08	06/09/2015 14:20	DJC	GSOM01D4	9	25.96	1	1515375008 F9M03 (30)	SOIL SOM
GBG10S20	06/09/2015 14:53	DJC	GSOM01D4	1	25.96	1	SSTD020G1 28237 DFTPPG1	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
GBV01S20	06/20/2015 10:04	DJC	GSOM01D4	1	25.96	1	SSTD020GT DFTPPGT	X07/19/15
GBV02S10	06/20/2015 10:37	DJC	GSOM01D4	2	25.96	1	SSTD010GV 28435	X07/19/15
GBV03S05	06/20/2015 11:10	DJC	GSOM01D4	3	25.96	1	SSTD005GV 28435	X07/19/15
GBV04S10	06/20/2015 11:43	DJC	GSOM01D4	2	25.96	1	SSTD010GV 28435 (2)	X07/19/15
GBV05S20	06/20/2015 12:16	DJC	GSOM01D4	1	25.96	1	SSTD020GV 28435 DFTPPGV	X07/19/15
GBV06S40	06/20/2015 12:49	DJC	GSOM01D4	4	25.96	1	SSTD040GV 28436	X07/19/15
GBV07S80	06/20/2015 13:22	DJC	GSOM01D4	5	25.96	1	SSTD080GV 28437	X07/19/15
GBV08S16	06/20/2015 13:55	DJC	GSOM01D4	6	25.96	1	SSTD160GV 28438	X07/19/15
GBV09BLK	06/20/2015 14:28	DJC	GSOM01D6	7	25.96	1	452426 SBLK26	SOIL SOM
GBV10GPC	06/20/2015 15:01	DJC	GSOM01D6	8	25.96	1	452534 GBLK34	SOIL SOM
GBV11F01	06/20/2015 15:35	DJC	GSOM01D6	9	25.96	1	1515618001 F9M69	SOIL SOM
GBV12F02	06/20/2015 16:08	DJC	GSOM01D6	10	25.96	1	1515618002 F9M70	SOIL SOM
GBV13F03	06/20/2015 16:42	DJC	GSOM01D6	11	25.96	1	1515618003 F9M71	SOIL SOM
GBV14F04	06/20/2015 17:16	DJC	GSOM01D6	12	25.96	1	1515618004 F9M72	SOIL SOM
GBV15F05	06/20/2015 17:49	DJC	GSOM01D6	13	25.96	1	1515618005 F9M73	SOIL SOM
GBV16F06	06/20/2015 18:22	DJC	GSOM01D6	14	25.96	1	1515618006 F9M74	SOIL SOM
GBV17F07	06/20/2015 18:56	DJC	GSOM01D6	15	25.96	1	1515618007 F9M75	SOIL SOM
GBV18F08	06/20/2015 19:29	DJC	GSOM01D6	16	25.96	1	1515618008 F9M76	SOIL SOM
GBV19F09	06/20/2015 20:02	DJC	GSOM01D6	17	25.96	1	1515618009 F9M77	SOIL SOM
GBV20F10	06/20/2015 20:35	DJC	GSOM01D6	18	25.96	1	1515618010 F9M78	SOIL SOM
GBV21F11	06/20/2015 21:07	DJC	GSOM01D6	19	25.96	1	1515618011 F9M79	SOIL SOM
GBV22S20	06/20/2015 21:40	DJC	GSOM01D4	1	25.96	1	SSTD020V1 28435 DFTPPV1	X07/19/15
GBV23S20	06/20/2015 22:12	DJC	GSOM01D4	1	25.96	1	SSTD020V1 28435 DFTPPV1	X07/19/15
GBV24S20	06/20/2015 22:44	DJC	GSOM01D4	1	25.96	1	SSTD020V1 28435 DFTPPV1	X07/19/15
GBV25F01	06/20/2015 23:17	DJC	GSOM01D6	20	25.96	1	1515380001 F9M15 (5)	SOIL SOM
GBV26F04	06/20/2015 23:49	DJC	GSOM01D6	21	25.96	1	1515380004 F9M20	SOIL SOM
GBV27S20	06/21/2015 00:21	DJC	GSOM01D4	1	25.96	1	SSTD020V2 28435 DFTPPV2	X07/19/15
GBV28S20	06/21/2015 00:54	DJC	GSOM01D4	1	25.96	1	SSTD020V2 28435 DFTPPV2	X07/19/15
GBV29S20	06/21/2015 01:26	DJC	GSOM01D4	1	25.96	1	SSTD020V2 28435 DFTPPV2	X07/19/15
GBV30S20	06/21/2015 01:58	DJC	GSOM01D4	1	25.96	1	SSTD020V2 28435 DFTPPV2	X07/19/15

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
GCN01S20	07/07/2015 14:43	TJM	GSOM01D6	1	25.96	1	SSTD020GN 28543 DFTPPGN	X07/19/15
GCN02F01	07/07/2015 15:15	TJM	GSOM01D6	2	25.96	1	1515375001 F9L98 (10) X4	SOIL SOM
GCN03F04	07/07/2015 15:48	TJM	GSOM01D6	3	25.96	1	1515375004 F9L99 (10) X4	SOIL SOM
GCN04F05	07/07/2015 16:21	TJM	GSOM01D6	4	25.96	1	1515375005 F9M00 (10) X4 or X5	SOIL SOM
GCN05F06	07/07/2015 16:54	TJM	GSOM01D6	5	25.96	1	1515375006 F9M01 (10) X4	SOIL SOM
GCN06F07	07/07/2015 17:26	TJM	GSOM01D6	6	25.96	1	1515375007 F9M02 (10) X5	SOIL SOM
GCN07F08	07/07/2015 17:59	TJM	GSOM01D6	7	25.96	1	1515375008 F9M03 (10) X2	SOIL SOM
GCN08S20	07/07/2015 18:32	TJM	GSOM01D6	1	25.96	1	SSTD020N1 28543 DFTPPN1	X07/19/15

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
GC001S20	07/08/2015 08:11	TJM	GSOM01D6	1	25.96	1	SSTD020GO 28543 DFTPPGO	X07/19/15
GC002F09	07/08/2015 08:43	TJM	GSOM01D6	2	25.96	1	1515375009 F9M04 X2	SOIL SOM
GC003F10	07/08/2015 09:17	TJM	GSOM01D6	3	25.96	1	1515375010 F9M05 (4)	SOIL SOM
GC004F11	07/08/2015 09:50	TJM	GSOM01D6	4	25.96	1	1515375011 F9M06 (10) X5	SOIL SOM
GC005F12	07/08/2015 10:23	TJM	GSOM01D6	5	25.96	1	1515375012 F9M07 (10) X2	SOIL SOM
GC006F13	07/08/2015 10:56	TJM	GSOM01D6	6	25.96	1	1515375013 F9M08 (4)	SOIL SOM
GC007F14	07/08/2015 11:30	TJM	GSOM01D6	7	25.96	1	1515375014 F9M09 (10) X3	SOIL SOM
GC008F15	07/08/2015 12:03	TJM	GSOM01D6	8	25.96	1	1515375015 F9M10 (20) X5	SOIL SOM
GC009F16	07/08/2015 12:35	TJM	GSOM01D6	9	25.96	1	1515375016 F9M11 (10) X4 or 5	SOIL SOM
GC010F17	07/08/2015 13:08	TJM	GSOM01D6	10	25.96	1	1515375017 F9M12 (10) X5	SOIL SOM
GC011F18	07/08/2015 13:42	TJM	GSOM01D6	11	25.96	1	1515375018 F9M13 (10) X5	SOIL SOM
GC012F19	07/08/2015 14:14	TJM	GSOM01D6	12	25.96	1	1515375019 F9M14 (10)	SOIL SOM
GC013F20	07/08/2015 14:47	TJM	GSOM01D6	13	25.96	1	1515375020 F9M17 (10)	SOIL SOM
GC014F21	07/08/2015 15:20	TJM	GSOM01D6	14	25.96	1	1515375021 F9M18 X2	SOIL SOM
GC015F22	07/08/2015 15:54	TJM	GSOM01D6	15	25.96	1	1515375022 F9M19	SOIL SOM
GC016S20	07/08/2015 16:27	TJM	GSOM01D6	1	25.96	1	SSTD020O1 28543 DFTPPO1	X07/19/15

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
DDG01SP1	03/25/2015 09:26	DJC	DSOM_SIMJ1	1	24.66	1	SSTD0.1DG 27491	X:04/24/15
DDG02SP2	03/25/2015 09:55	DJC	DSOM_SIMJ1	2	24.66	1	SSTD0.2DG 27492	X:04/24/15
DDG03SP4	03/25/2015 10:25	DJC	DSOM_SIMJ1	3	24.66	1	SSTD0.4DG 27493	X:04/24/15
DDG04SP8	03/25/2015 10:55	DJC	DSOM_SIMJ1	4	24.66	1	SSTD0.8DG 27494	X:04/24/15
DDG05S01	03/25/2015 11:25	DJC	DSOM_SIMJ1	5	24.66	1	SSTD001DG 27495	X:04/24/15
DDG06S16	03/25/2015 11:55	DJC	DSOM_SIMJ1	6	24.66	1	SSTD1.6DG 27496	X:04/24/15
DDG07S32	03/25/2015 12:25	DJC	DSOM_SIMJ1	7	24.66	1	SSTD3.2DG 27497	X:04/24/15
DDG08GPC	03/25/2015 12:55	DJC	DSOM_SIMJ1	8	24.66	1	437579 GPCBLK	SOIL SIM
DDG09BLK	03/25/2015 13:24	DJC	DSOM_SIMJ1	9	24.66	1	437348 SBLK48	SOIL SIM
DDG10BLK	03/25/2015 13:54	DJC	DSOM_SIMJ1	10	24.66	1	437978 SBLK78	WATER SIM
DDG11C03	03/25/2015 14:24	DJC	DSOM_SIMJ1	11	24.66	1	1506563003 X1K60	SOIL SIM
DDG12C03	03/25/2015 14:54	DJC	DSOM_SIMJ1	12	24.66	1	1506558003 X1K55	WATER SIM
DDG13C03	03/25/2015 15:23	DJC	DSOM_SIMJ1	13	24.66	1	1506558003 X1K55 (3)	WATER SIM
DDG14SP4	03/25/2015 15:53	DJC	DSOM_SIMJ1	3	24.66	1	SSTD0.4G1 27493	X:04/24/15
DDG15GPC	03/25/2015 16:23	DJC	DSOM_SIMJ1	14	24.66	1	438538 GPCBLK	SOIL SIM
DDG16BLK	03/25/2015 16:53	DJC	DSOM_SIMJ1	15	24.66	1	438356 SBLK56	SOIL SIM
DDG17BLK	03/25/2015 17:23	DJC	DSOM_SIMJ1	16	24.66	1	438649 SBLK49	WATER SIM
DDG18C03	03/25/2015 17:53	DJC	DSOM_SIMJ1	17	24.66	1	1507830003 X1L96	SOIL SIM
DDG19C03	03/25/2015 18:22	DJC	DSOM_SIMJ1	18	24.66	1	1507829003 X1L91	WATER SIM
DDG20C03	03/25/2015 18:52	DJC	DSOM_SIMJ1	19	24.66	1	1507829003 X1L91 (3)	WATER SIM
DDG21SP4	03/25/2015 19:22	DJC	DSOM_SIMJ1	3	24.66	1	SSTD0.4G2 27493	X:04/24/15
DDG22SP4	03/25/2015 19:52	DJC	DSOM_SIMJ1	3	24.66	1	SSTD0.4G2 27493	X:04/24/15
DDH01S20	03/25/2015 20:24	DJC	DSOM03NEW	21	25.96	1	SSTD020DH 27500 DFTPPDH	X:04/24/15
DDH02S05	03/25/2015 20:57	DJC	DSOM03NEW	22	25.96	1	SSTD005DH 27498	X:04/24/15
DDH03S10	03/25/2015 21:31	DJC	DSOM03NEW	23	25.96	1	SSTD010DH 27499	X:04/24/15
DDH04S40	03/25/2015 22:04	DJC	DSOM03NEW	24	25.96	1	SSTD040DH 27502	X:04/24/15
DDH05S80	03/25/2015 22:37	DJC	DSOM03NEW	25	25.96	1	SSTD080DH 27503	X:04/24/15
DDH06S16	03/25/2015 23:10	DJC	DSOM03NEW	26	25.96	1	SSTD160DH 27504	X:04/24/15
DDH07GPC	03/25/2015 23:44	DJC	DSOM03NEW	27	25.96	1	437579 GPCBLK	SOIL SOM
DDH08BLK	03/26/2015 00:17	DJC	DSOM03NEW	28	25.96	1	437348 SBLK48	SOIL SOM
DDH09BLK	03/26/2015 00:50	DJC	DSOM03NEW	29	25.96	1	437978 SBLK78	WATER SOM
DDH10C02	03/26/2015 01:23	DJC	DSOM03NEW	30	25.96	1	1506563002 X1K59	SOIL SOM
DDH11C02	03/26/2015 01:56	DJC	DSOM03NEW	31	25.96	1	1506558002 X1K54	WATER SOM
DDH12S20	03/26/2015 02:29	DJC	DSOM03NEW	21	25.96	1	SSTD020H1 27500 DFTPPH1	X:04/24/15
DDH13S20	03/26/2015 03:02	DJC	DSOM03NEW	21	25.96	1	SSTD020H1 27500 DFTPPH1	X:04/24/15

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
DGA01SP4	06/12/2015 12:12	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4DA 28297	X6-19-15
DGA02SP4	06/12/2015 12:47	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4DA 28297	X6-19-15
DGA03BLK	06/12/2015 13:17	DJC	DSOM_SIMJ2	2	24.66	1	449965 SBLK65	X6-19-15
DGA04GPC	06/12/2015 13:47	DJC	DSOM_SIMJ2	3	24.66	1	450197 GBLK97	X6-19-15
DGA05F01	06/12/2015 14:17	DJC	DSOM_SIMJ2	4	24.66	1	151375001 F9L98 (60)	X6-19-15
DGA06F04	06/12/2015 14:47	DJC	DSOM_SIMJ2	5	24.66	1	151375004 F9L99 (60)	X6-19-15
DGA07F05	06/12/2015 15:16	DJC	DSOM_SIMJ2	6	24.66	1	151375005 F9M00 (60)	X6-19-15
DGA08F06	06/12/2015 15:46	DJC	DSOM_SIMJ2	7	24.66	1	151375006 F9M01 (60)	X6-19-15
DGA09F07	06/12/2015 16:16	DJC	DSOM_SIMJ2	8	24.66	1	151375007 F9M02 (100)	X6-19-15
DGA10F08	06/12/2015 16:46	DJC	DSOM_SIMJ2	9	24.66	1	151375008 F9M03 (30)	X6-19-15
DGA11SP4	06/12/2015 17:16	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4D1 28297	X6-19-15
DGA12F09	06/12/2015 17:46	DJC	DSOM_SIMJ2	10	24.66	1	151375009 F9M04 (10)	X6-19-15
DGA13F10	06/12/2015 18:16	DJC	DSOM_SIMJ2	11	24.66	1	151375010 F9M05 (10)	X6-19-15
DGA14F11	06/12/2015 18:46	DJC	DSOM_SIMJ2	12	24.66	1	151375011 F9M06 (60)	X6-19-15
DGA15F12	06/12/2015 19:16	DJC	DSOM_SIMJ2	13	24.66	1	151375012 F9M07 (60)	X6-19-15
DGA16F13	06/12/2015 19:46	DJC	DSOM_SIMJ2	14	24.66	1	151375013 F9M08 (10)	X6-19-15
DGA17F14	06/12/2015 20:16	DJC	DSOM_SIMJ2	15	24.66	1	151375014 F9M09 (30)	X6-19-15
DGA18F15	06/12/2015 20:45	DJC	DSOM_SIMJ2	16	24.66	1	151375015 F9M10 (100)	X6-19-15
DGA19F16	06/12/2015 21:15	DJC	DSOM_SIMJ2	17	24.66	1	151375016 F9M11 (150)	X6-19-15
DGA20F17	06/12/2015 21:45	DJC	DSOM_SIMJ2	18	24.66	1	151375017 F9M12 (100)	X6-19-15
DGA21F18	06/12/2015 22:15	DJC	DSOM_SIMJ2	19	24.66	1	151375018 F9M13 (30)	X6-19-15
DGA22F19	06/12/2015 22:44	DJC	DSOM_SIMJ2	20	24.66	1	151375019 F9M14 (30)	X6-19-15
DGA23F20	06/12/2015 23:14	DJC	DSOM_SIMJ2	21	24.66	1	151375020 F9M17 (30)	X6-19-15
DGA24F21	06/12/2015 23:44	DJC	DSOM_SIMJ2	22	24.66	1	151375021 F9M18 (20)	X6-19-15
DGA25F22	06/13/2015 00:13	DJC	DSOM_SIMJ2	23	24.66	1	151375022 F9M19 (10)	X6-19-15
DGA26SP4	06/13/2015 00:43	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4D2 28297	X6-19-15
DGA27SP4	06/13/2015 01:12	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4D2 28297	X6-19-15
DGA28SP4	06/13/2015 01:42	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4D2 28297	X6-19-15

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
DFL01SP4	07/14/2015 13:31	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4DL 28647	X7-19-15
DFL02F12	07/14/2015 14:45	DJC	DSOM_SIMJ2	2	24.66	1	1514301012 F9L88	SOIL SIM
DFL03F13	07/14/2015 15:15	DJC	DSOM_SIMJ2	3	24.66	1	1514301013 F9L89	SOIL SIM
DFL04F01	07/14/2015 15:45	DJC	DSOM_SIMJ2	4	24.66	1	1515375001 F9L98 (40)	SOIL SIM
DFL05F04	07/14/2015 16:15	DJC	DSOM_SIMJ2	5	24.66	1	1515375004 F9L99 (40)	SOIL SIM
DFL06F05	07/14/2015 16:45	DJC	DSOM_SIMJ2	6	24.66	1	1515375005 F9M00 (50)	SOIL SIM
DFL07F06	07/14/2015 17:15	DJC	DSOM_SIMJ2	7	24.66	1	1515375006 F9M01 (40)	SOIL SIM
DFL08F07	07/14/2015 17:45	DJC	DSOM_SIMJ2	8	24.66	1	1515375007 F9M02 (50)	SOIL SIM
DFL09F08	07/14/2015 18:15	DJC	DSOM_SIMJ2	9	24.66	1	1515375008 F9M03 (20)	SOIL SIM
DFL10F09	07/14/2015 18:45	DJC	DSOM_SIMJ2	10	24.66	1	1515375009 F9M04 (2)	SOIL SIM
DFL11F11	07/14/2015 19:15	DJC	DSOM_SIMJ2	11	24.66	1	1515375011 F9M06 (50)	SOIL SIM
DFL12F12	07/14/2015 19:45	DJC	DSOM_SIMJ2	12	24.66	1	1515375012 F9M07 (20)	SOIL SIM
DFL13F14	07/14/2015 20:15	DJC	DSOM_SIMJ2	13	24.66	1	1515375014 F9M09 (30)	SOIL SIM
DFL14F15	07/14/2015 20:45	DJC	DSOM_SIMJ2	14	24.66	1	1515375015 F9M10 (100)	SOIL SIM
DFL15F16	07/14/2015 21:15	DJC	DSOM_SIMJ2	15	24.66	1	1515375016 F9M11 (50)	SOIL SIM
DFL16F17	07/14/2015 21:44	DJC	DSOM_SIMJ2	16	24.66	1	1515375017 F9M12 (50)	SOIL SIM
DFL17F18	07/14/2015 22:14	DJC	DSOM_SIMJ2	17	24.66	1	1515375018 F9M13 (30)	SOIL SIM
DFL18F19	07/14/2015 22:44	DJC	DSOM_SIMJ2	18	24.66	1	1515375019 F9M14 (10)	SOIL SIM
DFL19F20	07/14/2015 23:14	DJC	DSOM_SIMJ2	19	24.66	1	1515375020 F9M17 (10)	SOIL SIM
DFL20F21	07/14/2015 23:44	DJC	DSOM_SIMJ2	20	24.66	1	1515375021 F9M18 (2)	SOIL SIM
DFL21F22	07/15/2015 00:14	DJC	DSOM_SIMJ2	21	24.66	1	1515375022 F9M19	SOIL SIM
DFL22SP4	07/15/2015 00:44	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4L1 28647	X7-19-15
~~DFL23SP4~~	~~07/15/2015 01:13~~	~~DJC~~	~~DSOM_SIMJ2~~	~~1~~	~~24.66~~	~~1~~	~~SSTD0.4L1 28647~~	~~X7-19-15~~

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
DFM01SP4	07/15/2015 11:02	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4DM 28658	X7-19-15
DFM02F07	07/15/2015 11:36	DJC	DSOM_SIMJ2	2	24.66	1	1515375007DL F9M02DL (100)	SOIL SIM
DFM03F12	07/15/2015 12:06	DJC	DSOM_SIMJ2	3	24.66	1	1515375012DL F9M07DL (40)	SOIL SIM
DFM04F17	07/15/2015 12:36	DJC	DSOM_SIMJ2	4	24.66	1	1515375017DL F9M12DL (100)	SOIL SIM
DFM05SP4	07/15/2015 13:06	DJC	DSOM_SIMJ2	1	24.66	1	SSTD0.4M1 28658	X7-19-15

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).

EPA-CLP CHECKING DOCUMENTATION FORM
FOR GC/MS ORGANICS ANALYSIS

Case 45316 SDG F9L98 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 [illegible] Date 7/17/15

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 [illegible] Date 7/17/15

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 7.17.15

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 7.17.15

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 Desiree Hill Date 07/17/2015